



**SECURITY**

**CATALOGUE**

**VIEW**   
IoT smart life



# Smart products and interconnected systems

**Vimar is a one-stop shop offering connected systems and products for new builds, refurbishments or to modernise existing systems.** A combination of solutions designed to enhance comfort, energy efficiency, safety and security, with matching styling. Customised products that liaise with one another continuously and in a perfectly integrated way to provide a concrete solution to the needs of those who build and enjoy spaces. **Our solutions respect the identity of every setting,** for total control of your home and of the building.



**Full integration,** also with third-party systems (KNX, Google, Amazon Alexa, SmartThings by Samsung, HomeKit by Apple, IFTTT)

**Matching style and total customisation** for the wiring series

**Solutions for comfort, security and energy efficiency**



Comfort



Energy Efficiency



Security



**Connected systems and products** to ensure **maximum control**

**Integrated systems** for a unique user experience

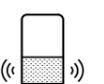
**A quality service** to support every customer every day

**A single app:** a unique experience and an **intuitive interface,** to manage, control and create scenarios, even remotely. You can integrate the App with the IFTTT platform to integrate third-party devices.

With the View app, you are always connected to your living spaces, wherever you are, and are always up-to-date on what is going on inside and outside the building.



Vimar View





## By-alarm Plus and Elvox CCTV systems. For living safe and sound.

**Better security means better quality of life.** For this reason, our solutions offer high-performance products, made with the most innovative technologies to guarantee maximum security inside the building in any condition. Moreover, integration with the View IoT Smart System platform ensures that the By-alarm Plus and Elvox CCTV systems dialogue with each other so they can both be managed intuitively via the View app, even remotely from a smartphone or tablet.



### Integrated supervision

The View app allows all systems to be fully integrated:  
**By-me Plus, View Wireless, Elvox Video Door Entry Systems and Elvox CCTV**





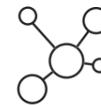
## The benefits of Vimar security systems. Maximum flexibility and installation freedom.



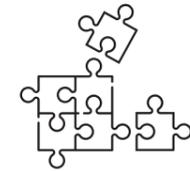
**By-alarm Plus is a professional system, certified to EN50131 / IMQ grade 3.**



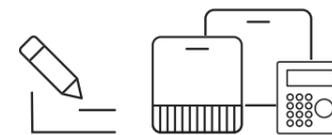
**Complete video surveillance systems.** Elvox CCTV with high resolution products up to 8 Mpx with increasingly high performance with reduction of false alarms, perimeter control and metadata facilitated searches.



**Integrated supervision. The View app fully integrates** the By-alarm Plus and Elvox CCTV systems to ensure that everything is under control, even remotely.



**Scalable solutions** to ensure maximum security in buildings of any size, from residential to industrial.



**The control keypad, alarm siren and control unit enclosure feature an elegant and discreet design.**



**Perfect matching and integration for all ranges of the Vimar wiring series.**

## Elvox CCTV: video surveillance system up to 4K.

Our video surveillance systems integrate high-performance products that can guarantee comprehensive control, even in critical areas. Innovative solutions, devised to provide perfect visibility in detail.

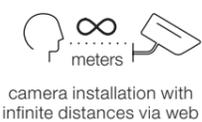


### Complete range innovation with IP technology:

- the Elvox CCTV IP range is professional and complete.
- Ideal for houses, shops and even more complex situations such as hotels and industries.
- Upgrade your system with the best technology and customise it with just a network cable.
- New integrated video analysis functions also with classification between people and vehicles and Metadata for easier searches. Deterrence with the emission of red and blue luminous flashes and customisable acoustic alerts (siren or customised messages).



Ideal for new installations and large systems



camera installation with infinite distances via web



4K resolution for recordings with all details and broad field of view



night-time recording with colour details



fewer false alarms

### Versatile range, with AHD technology

- ideal for system renovations, maintaining existing cables, extensions of existing systems and new installations.
- Covers long distances, for instance in 4K resolution, can reach up to 300 metres, with no additional accessories.
- Cameras and XVR with integrated video analysis functions.
- Simple replacement or system expansion. Performance can be upgraded, simply by adding or replacing the AHD cameras



Brings high definition even to existing systems



camera installation with distances up to 300 m



high resolution recording with great detail in real time



night-time recording with colour details



fewer false alarms

## Connections and security certified to the most common standards.

### ONVIF (OPEN NETWORK VIDEO INTERFACE FORUM).

This is an organisation that certifies all video surveillance equipment that complies with precise standardisation specifications to make all devices interoperable, even if made by different companies. The standards to comply with are: IP communication protocol, configuration, remote control, audio-video stream viewing and recording.



### INTEGRATION: HTTP POST

IP cameras with firmware 5.2.3 and NVRs with firmware 1.4.13 or above can be integrated without compromise, thanks to the HTTP POST standard protocol, they are capable of notifying critical events in real time, including line crossing, intrusions in sensitive areas and detecting people or vehicles and sending images directly via HTTP strings, eradicating the need for additional wiring. An advanced solution, simple to integrate and ready to enhance system security.

### GDPR COMPLIANT NVR/XVR.

The NVRs and XVRs are designed and developed according to the requirements of the GDPR, in full compliance with the European Union regulations on the subject of security. They provide **secure access** protected by an alphanumeric password that can be set with up to 16 characters. All accesses and changes to the system, as configured, **are recorded and stored for a period of 6 months according to normal use**. For greater security, from the first access made, a message will remind you to change the default password, and it will continue to be prompted until it is changed for the first time.

Recordings can be set to overwrite automatically once 24 hours have lapsed, and without audio recording. The data used to access and view the systems via **the dedicated By-camera App** are encrypted with the highest security levels, while the servers that manage the P2P service are located within the European Community.



### NDAA COMPLIANCE.

Cameras and NVRs which comply with the highest standards of security and reliability, now also comply with the NDAA (National Defense Authorization Act 2019, article 889). This is a federal law of the United States that prohibits government use of telecommunication and video surveillance devices and components produced by specific manufacturers.

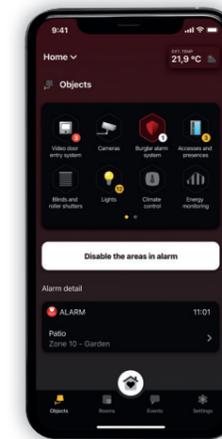




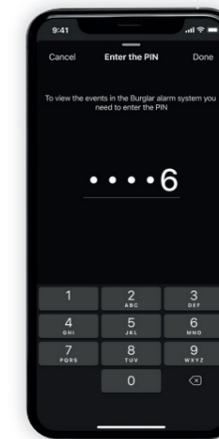
## Integrated supervision.

For management and video check, anywhere.

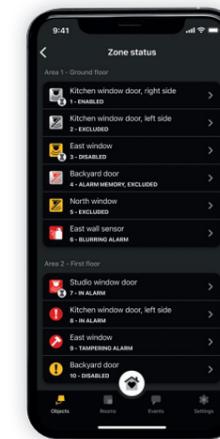
With the View App, integration between the **By-alarm Plus** and **Elvox CCTV** systems can be exploited to provide local and remote control, including alarm notifications and video check streaming. Moreover, the View App can easily manage all of Vimar's technological building solutions from a single control interface: the **By-me Plus** home automation system, the **View Wireless** smart system, the **video door entry system**, the **Elvox CCTV** video surveillance system and the various **IoT connected devices**, making this line-up one of a kind on the market.



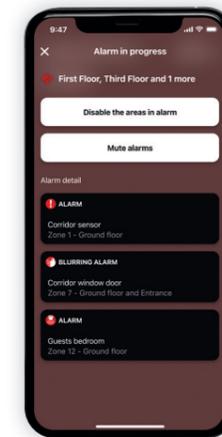
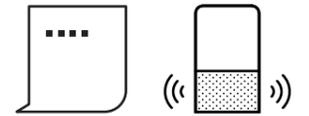
Functions that can be managed from the View app: video door entry system, cameras, burglar alarm system, lights, shutters, energy consumption, load management, access control.



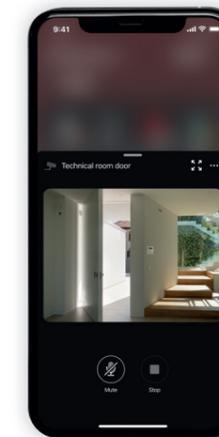
Virtual keypad for entering the personal code.



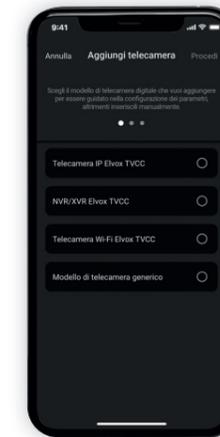
A detailed view of the zone statuses.



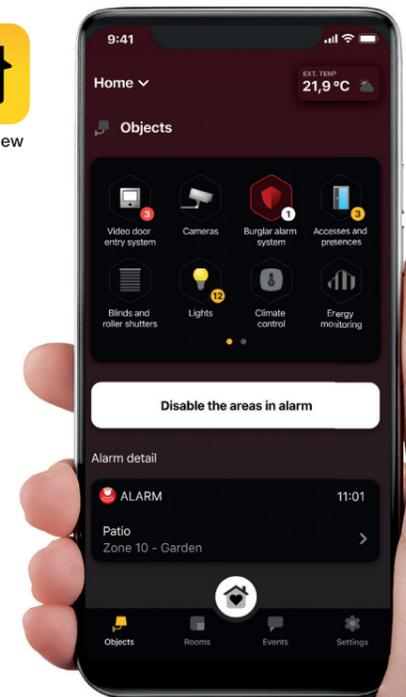
Active alarm.



On receiving a notification from a zone associated with a camera, the available video stream can be viewed.



Simplified configuration for the addition of cameras or recorders with App help with pre-completed fields.



# Integrating By-alarm Plus and Elvox CCTV ensures perfect synergy and immediate control.

## 1. Video checking with IP or AHD cameras

In the event of an alarm signal from the By-alarm Plus system, the user receives an instant notification on the View App to access the live video of the associated zone and check what is going on; this way the user can see what is happening with clear live images of the affected zone and decide what to do about it.

For events detected by the cameras, notifications can be received at all times or only when the By-alarm Plus system is active, on both the View App and on By-camera.

## 2. Video recording only with By-alarm Plus activated

The two systems can be integrated to activate recording of cameras only with By-alarm Plus in the armed state, or to activate recording only in the event of an intrusion event detected by the By-alarm Plus system, and not to lose a single detail also with the possibility of recording the 5 seconds preceding the event.

Acoustic and light signalling with LEDs

Notification and video check are immediate in the event of an alarm

Integration for all AHD cameras via XVR, and for all IP cameras (with or without NVR)



### Live Video on the View app



## 3. Preventive signalling

The user can select only certain events of interest, distinguishing between people and vehicles and bicycles/motorcycles. If the camera with the alarm output connected to the By-alarm Plus burglar alarm system control unit detects the event, the user will receive a preventive notification when the event is still far off and before the alarm signalling of the By-alarm Plus system.



The camera can distinguish between moving objects in the recording between people, vehicles and bicycles/motorcycles. This reduces the number of false alarms caused by other movements such as animals, rain, leaves or other.



# By-alarm Plus. A complete range for easier integration.

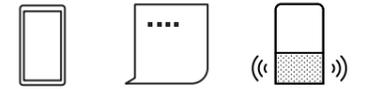
The By-alarm Plus system is a professional burglar alarm system made in Italy, which can operate stand-alone or be integrated with other Vimar systems via a protected IP connection. It ensures building security and is flexible and easy to install.



Vimar View

## A single App for remote control and interaction.

The integration of the systems into Vimar's View platform enables live streaming of the cameras, both locally and remotely via the **View App**. For added security, the integration also allows the cameras to be associated with the By-alarm Plus burglar alarm system zones for the video checking function and preventive signalling, to emit red and blue light flashes and/or audio deterrence alerts (siren or customised messages).



### Control unit enclosures



**Metal enclosure**  
for 65 and 125 zones

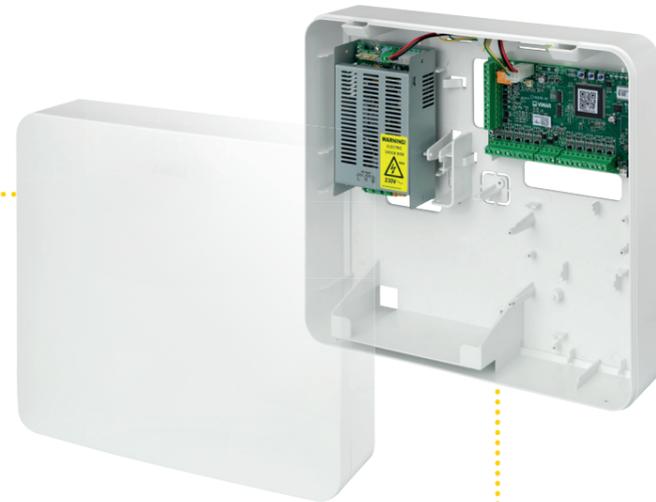


**Flush mounting control unit enclosure**  
for 25 and 65 zones



**Plastic enclosure**  
for 25 and 65 zones

### Control units



Control unit board



Radio frequency interface



Gateway



Expansion board

### Sensors / Accessories

#### Wired motion sensors



#### Flush mounting devices



Internal siren

Transponder actuator and presence detector

#### Wired contact sensors



### Outdoor sirens



Available in the following versions:  
BUS - Wired - Radio frequency

### Control keyboard



with/without transponder actuator

### Control unit.

**Modern, functional and discreet.**

A range of control units that are ideal for control of systems with 25, 65 and 125 zones. To match three enclosure stylings, easy to install and which have been designed to be placed discreetly in any kind of environment, thanks also to their reduced depth. The metal or plastic enclosures meet different installation and functional needs; in particular, the metal enclosure which has a depth of just 95 mm and the flush mounting enclosure.



**The enclosures are designed to house the power supply unit and accessories:** burglar alarm system gateway, speech synthesis board, expansion board with 5 In/Out terminals, GSM communicator, RF board (for plastic enclosures) and 7 Ah battery.



**Plastic enclosure**  
for 25 and 65 zones  
Dimensions - 350x310x85 mm

**Metal enclosure**  
for 65 and 125 zones  
Dimensions - 375x465.6x92.2 mm

**Flush mounting switchboard**  
with adaptor to go with 24 V53324 or V53724 modules for 25 and 65 zones. Provided with slots for device installation.  
Dimensions - 344.9x444.9 mm

### Sensors and accessories.

**A complete range of wired contact sensors and motion detection sensors**

to configure a functional system that can be expanded over time, allowing control of every area of the building while avoiding false alarms to ensure security during everyday activities within buildings. Dual technology passive infrared and microwave detectors, PET immune, anti-masking and anti-crawl, for surface mounting and IP54 outdoor installation for windows and doors. Indoor sirens and dual technology actuator for flush mounting devices, perfect for integration with all the Vimar wiring series: Eikon, Linea, Arké and Plana.



**Wired motion sensors**

**Wired contact sensors**

**Flush mounting devices**



**A modern control unit that is easy to install** and has been designed to be placed discreetly in any kind of environment.



### Outdoor sirens.

**Protection and installation freedom.**

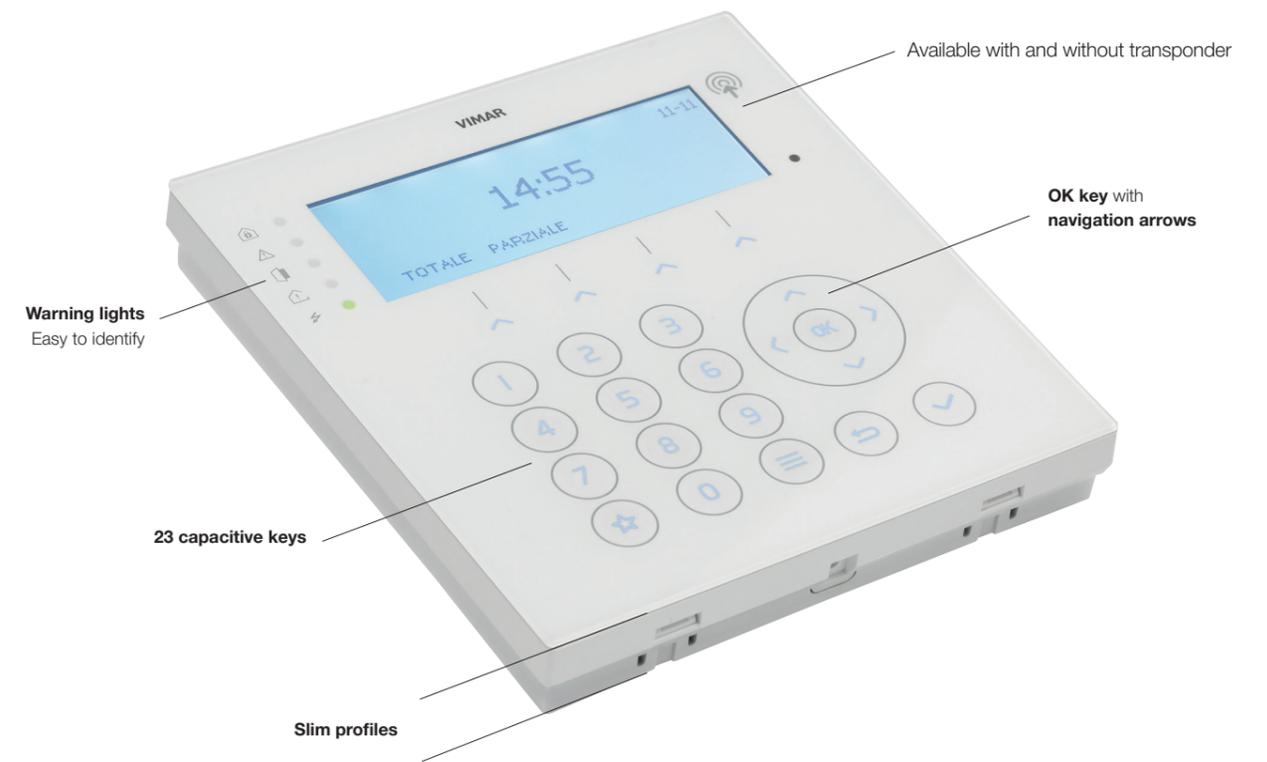
Reduced-depth outdoor sirens, available in the wired, bus and radio versions, supplied with 2 piezoelectric speakers and LED alarm signalling. 4 sounds and 4 timings for the bus and radio versions can be configured remotely. Maximum safety: anti-opening, anti-tear from the wall protections and anti-foam protection. They are designed to be installed in places exposed to the elements and are resistant to sudden temperature changes.



### Control keypad.

**Elegant in every detail.**

The control keyboard has a simple, compact and functional shape; light-weight on any wall, discrete in any setting. User-friendly interface: raised screen printing helps locate the centre of the keypad and the OK/navigation arrow keys. It integrates seamlessly into any environment and with the whole Vimar wiring series.



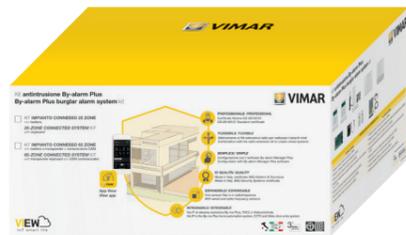
**Stand-alone kit.**

**A professional stand-alone system. Security with simplicity.**

There are also **five kits** available to provide a base system with different options (25 zones with/without sensors and installation in the control unit, 65 zones, radio expansion kits), with the flexibility to create your own custom system.

• **3 kits for 25 zones**

- with sensors
- without sensors
- for switchboard installation



• **1 kits for 65 zones**



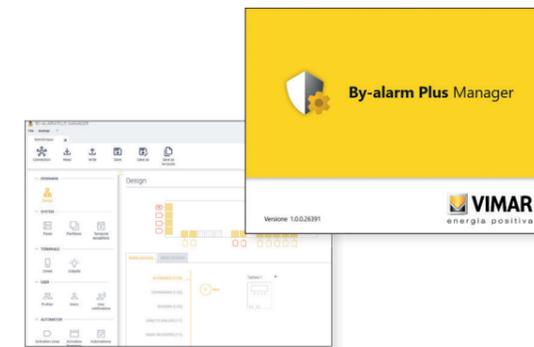
• **1 kit for radio expansion**



**Plenty of functions, which are super-simple and safe to configure.** For professionals.

**Simplified configuration**

- A single interface device for configurable inputs/outputs.
- Choice (without restrictions) of resistor values for wired sensors, thanks to free threshold programming in the software.
- More flexible software, counting the actual number of zones used (radio and wired) (unconfigured inputs do not count).
- Automatic tracking for connected systems.



**Always safer and more versatile in compliance with regulations**

- The By-alarm Plus system offers greater security: EN 50131 / IMQ grade 3, also usable for insurance purposes. The system can also be configured to declass it to grade 2.
- System parameters can be set via software.



GRADO 2 NORMA EN50131 / IMQ

GRADO 3 NORMA EN50131 / IMQ

**3 ANNI** di garanzia

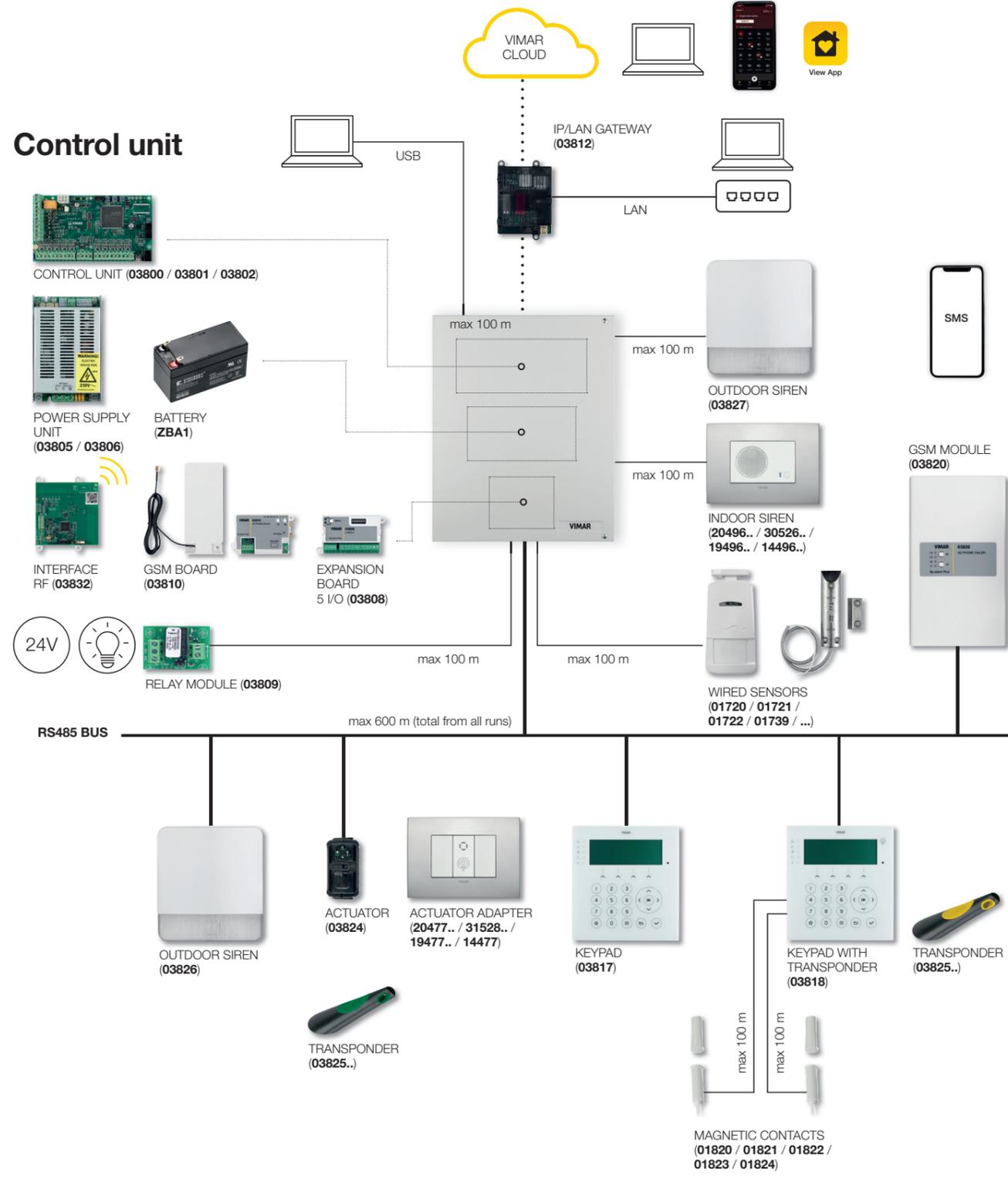
MADE IN ITALY



# By-alarm Plus. Discover the configuration for a complete, integrated system.

A professional system that is easy to install and highly flexible: security can be extended with a wider range of solutions. Choose and configure your wired and radio frequency system, which integrates with the Elvox CCTV video surveillance system.

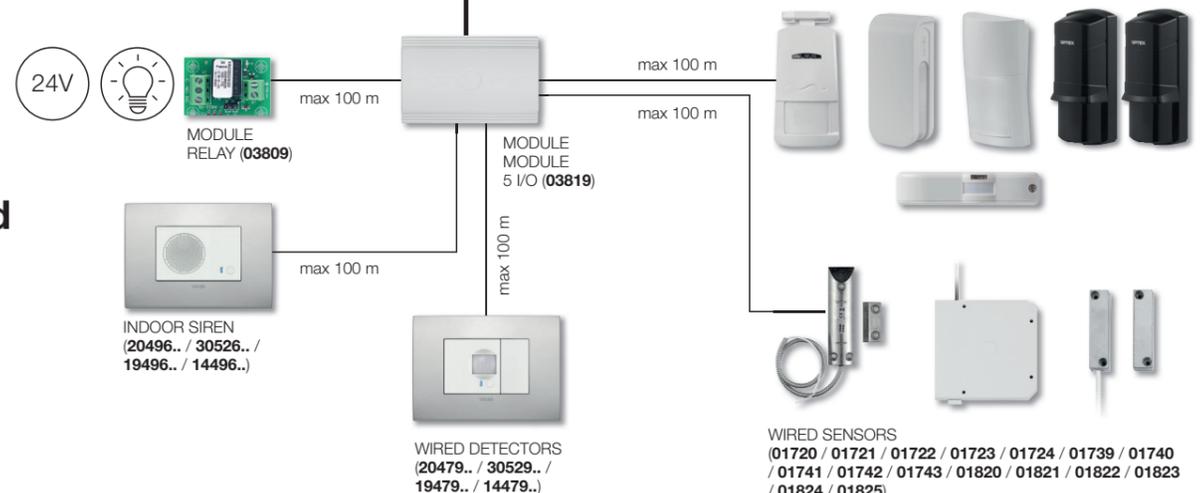
From the control unit, to the indoor and outdoor siren, through to an extensive range of sensors and accessories for the installation of a functional system that can be expanded over time, allowing for control of every area of the building and avoiding false alarms.



### Radio frequency extension



### Wired

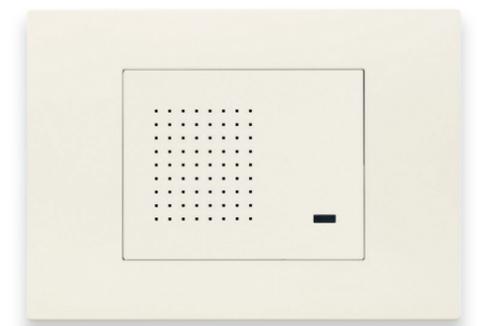


## Perfectly coordinated and integrated. For all styles of domestic environments.

**Easy to create a bespoke system.** All the By-alarm Plus system devices, such as sensors, indoor sirens and actuators, have been designed to offer the very best in terms of styling and functionality, ensuring a stylistic approach that strikes the perfect balance between consistency and attention to detail. What's more, all the flush mounting devices are available for the Eikon, Linea, Arké, and Plana series: a multitude of combination variants with varying designs, materials and colours.



Eikon Exé - Actuator with transponder



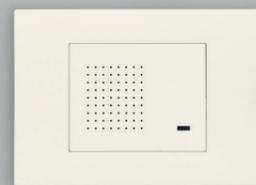
Linea - Indoor siren



Arké - Indoor siren



Plana - Detector





## Elvox CCTV video surveillance system.

Complete, up-to-date and increasingly high-performance.

A range of cameras with increasingly high performance designed to guarantee all-round monitoring, even in critical areas and to support the By-alarm Plus system. Innovative solutions, based on integrated IP and AHD technologies, specifically designed to be **controlled, even remotely**, providing a view of the monitored areas that is perfect in the smallest detail.

### Standard Dome and Bullet cameras

4Mpx, 6Mpx and 8Mpx, they allow colour viewing in the dark with configurable white light lighting.

Color



### Plus Dome, Bullet and Panoramic cameras

featuring enhanced false alarm reduction, they offer thermal imaging, a 180° panoramic view, and metadata-driven search for ease of use.

Plus



### Plus PTZ cameras (Speed Dome)

high-performance delivery through rapid panning (80° per second), powerful optical zoom (available in 15x and 25x versions) and tracking function. The new compact version with 3x zoom and a reduced footprint (116 mm x 75 mm) is ideal for residential contexts where discretion is paramount.

Plus



### Plus camera with superior light sensitivity

featuring an F1.0 lens and sensor sensitivity up to 0.0005 Lux, for detail and colour also in poor light conditions, without the need for additional lighting.

Color

Plus



### XVR and NVR recorders

several IP and AHD recorder models, with between 4 and 64 channels, with specific Hard Disks for CCTV.



### Cameras and recorders compliant with the NDAA

(National Defense Authorization Act), Ideal for installation in critical infrastructure.



## Elvox CCTV. Standard and Plus cameras, a complete range to have everything under control.

Standard **Dome** and **Bullet** cameras with **2 Mpx, 4 Mpx, 5 Mpx** and **8 Mpx** and video **analysis functions**, to reduce false alarms and the **Plus version** with 4 and 5 Mpx, **with dedicated functions** for **perimeter control** and the **new event search** based on **metadata analysis**. Once the places to be monitored and the control methods have been identified, it is easy to define which devices offer the best security for the buildings and the people living in them.



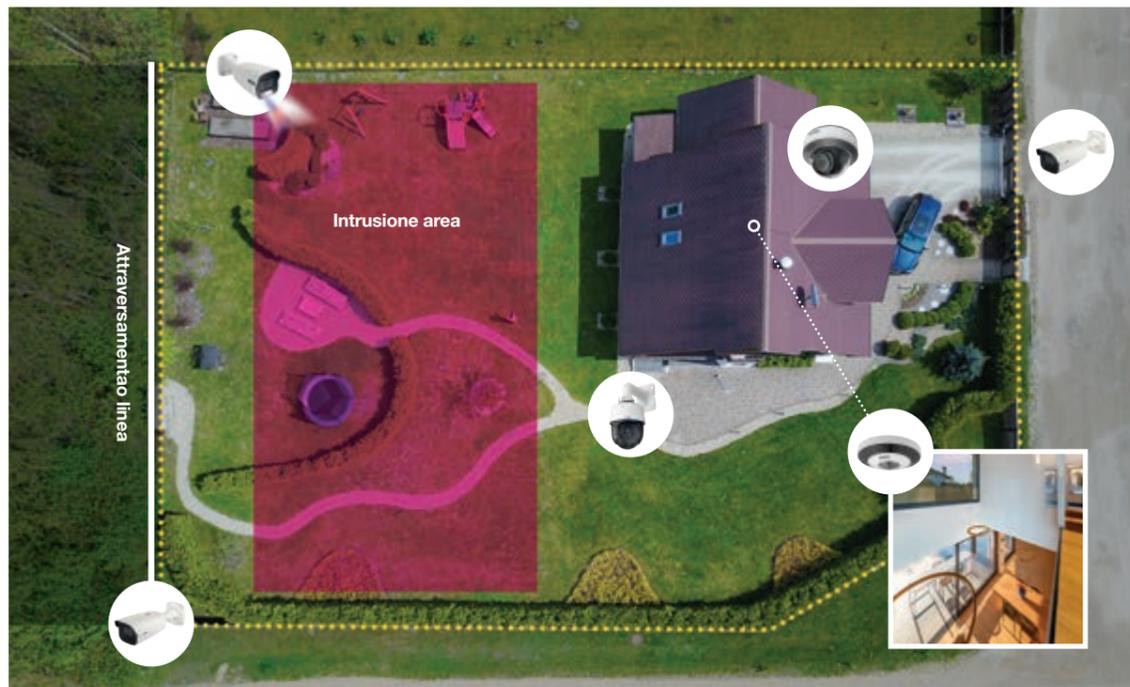
Thermal camera for perimeter control in all environmental conditions



Perimeter control with active deterrence



Gate opening number plate reading camera



Plus Mini-PTX camera for entrance control



PTZ Plus cameras (Speed Dome)



Dome fisheye indoor camera



NVR with monitor

## An even more complete range.

New!

### Next-generation panoramic camera (180°) Color

Compact and elegant design; dual lenses simplify installations by reducing the number of devices required. It delivers high performance in terms of resolution, field of view, and advanced video analytics functions. Ideal for any installation context—from residential to commercial and industrial settings—it ensures reliability and quality in every situation.



Color imaging in the dark with white light illuminators up to 20 m and light sensitivity down to 0.0032 lux



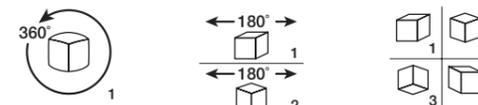
Active deterrence features with red and blue LEDs and a speaker with siren or voice messages



Two-way audio

### Plus Fisheye Camera

The **6 MP fisheye dome camera** provides **360° imaging** and, thanks to the dewarping function, corrects image distortion using powerful algorithms. This delivers clear views of the monitored area, significantly reducing the number of cameras needed to cover the same space. Users can choose between classic **360° view**, **180° panoramic view**, or **split-screen view**.

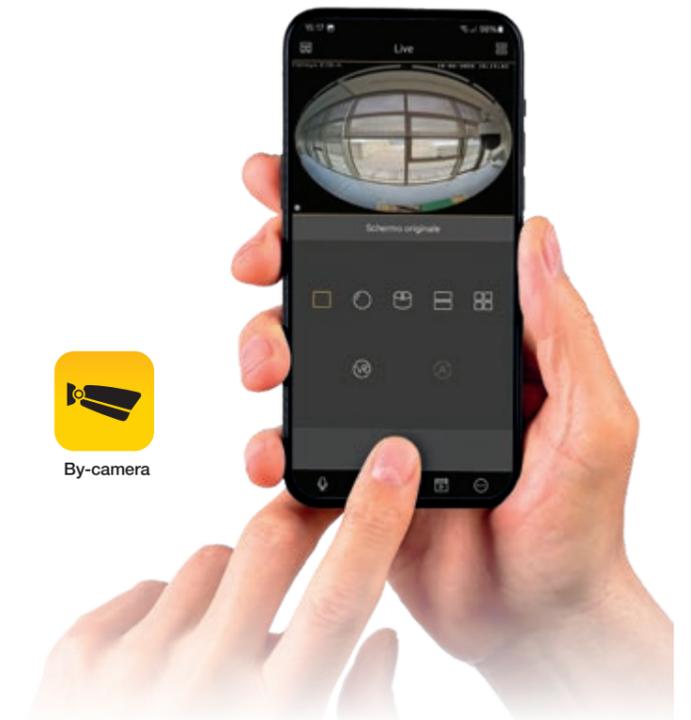


When **ceiling-mounted**, the camera offers video analytics features that distinguish people to **reduce false alarms**, such as line crossing, area intrusion, crowd density, and heat mapping.

To take full advantage of the fisheye camera's capabilities, the **By-camera app** provides a dedicated view with five different configurable modes at any time: 360°, cylindrical, 180°+180°, virtual PTZ—which allows users to move the image and control zoom using touch gestures on the screen—and virtual reality, enabling the view to change simply by moving the smartphone, inspired by the latest gaming technologies.



By-camera



## Color Cameras: a range for every type of application.

Choose the highest-performing technologies to guarantee security for your customers.



The Elvox CCTV offering has expanded with **12 cameras** with 4, 6, 8 Mpx resolution that allow **colour viewing in the dark** with **configurable white light lighting**. The **three configurable lighting modes** (classic black and white, always in colour, or hybrid which includes both of the preceding) are extended to all Color cameras. What's more, the hybrid vision offers **4 different detection areas**, with detection of people, vehicles, or cycles and motorcycles, with the definition of the minimum and maximum detection size, allowing for further limitation of false alarms, especially in the presence of animals.



### Colour viewing in the dark

Images and colours are always bright and vivid, even at night in the dark with the white light lighting up to 50 m.



### More precise detections

Colour viewing in the dark assists the AI system during video analysis; what's more, from the NVR multiple video analysis functions can be used simultaneously.



By-camera

Immediate connection to the By-camera App, thanks to the QR code on the product.



Cameras conforming to the NDA A standard.

### Hybrid operating mode (black&white or colour):



#### INFRARED LIGHTING

In the absence of events in the zone being monitored, only the IR illuminator is active.

#### COLOUR VISION

White lighting for colour viewing in the dark is activated when a target is detected.

#### AUTOMATIC VISION CHANGE

When the target moves away, the white light turns off and the IR is reactivated.

## Plus Color camera: increasingly high-performance.

New!



Designed for demanding installations, capable of improving the viewing experience in the dark with crystal-clear images and rich chromatic detail any time of the day, **regardless of the brightness conditions**. What's more, as it does not emit visible light to illuminate the recording area, it helps reduce light pollution and proves more difficult to identify at night.



### Superior performance levels

Images and colours are always bright and vivid, even at night in the dark, without additional lighting.



Cameras conforming to the NDA A standard.



Lens aperture

**F1.0**

Light sensitivity up to

**0.0005Lux**



## New thermal camera: with optical sensor and thermal sensor.



The new IP camera combines traditional optics with a thermal lens, improving detection accuracy in critical conditions such as fog, smoke, rain, darkness or against backlighting, designed to increase protection in both residential and service settings. The thermal sensor detects the heat (infrared radiation) emitted by subjects crossing the detection area and is not affected by visible light. Perimeter protection is enhanced by an integrated optical and acoustic deterrent system. A comprehensive solution that significantly reduces false alarms thanks to the smart integration of two lenses within a single device, optimising both installation time and costs.

### Fewer false alarms

The dual lenses offer distinct video analysis functions, which can be combined via the NVR using AND logic.



### Detection range

Up to approximately 30m for people and approximately 100m for vehicles (according to the DORI parameter).



The camera conforms to the NDAA standard.

## Number plate reading camera for secure control and entrance management.

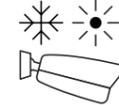


Ideal for applications in the service and hospitality sectors.

AN IP camera is available to control entrances and open gates by reading number plates. The number plate recognition function with notifications and controls is supported by a database with whitelists/blacklists that can also conveniently be updated from the By-camera App. Its use is ideal for managing parking in accommodation facilities, residential complexes, villas, or offices and shops.



**Superior light sensitivity**  
with lens up to F1.6 and sensor up to 0.005 Lux.



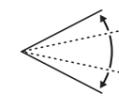
**Operates at extreme temperatures**  
-30°C / +60°C



**IP67**  
Water and dust protection



**Full-HD Resolution**  
(1080p)



**Varifocal**  
(with motor-driven lens)



**Advanced video analysis**



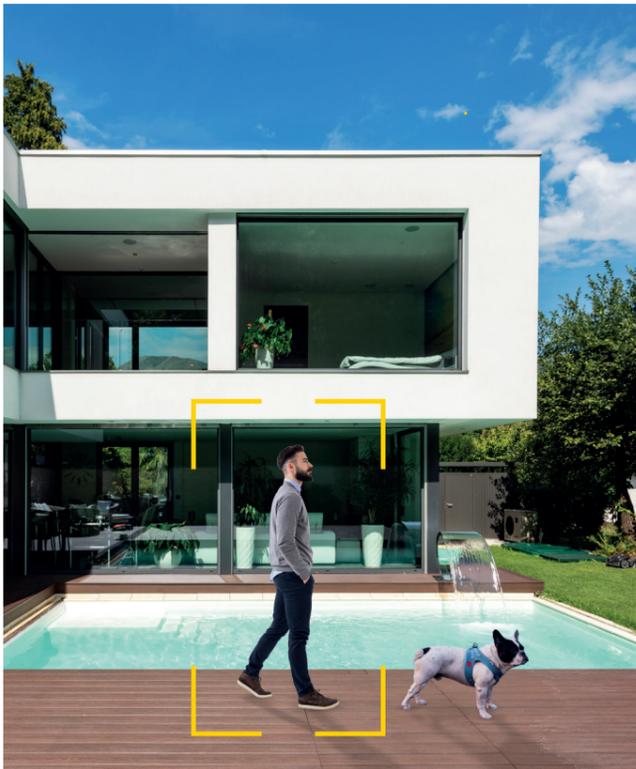
**250 GB SD-card** to ensure a backup of the recording

### EXAMPLE OF OPTICAL SENSOR VISION

5Mpx visible optical resolution with 4mm fixed focus lens

### EXAMPLE OF THERMAL SENSOR VISION

256x192px thermal optical resolution with 3.2mm fixed focus lens



**IP Plus Bullet cameras for controlling entrances and opening gates.** 2.8-12 mm motor-driven varifocal lens, Smart IR, PoE or 12 VDC power supply.

### Flexibility and installation freedom.

The camera can also be set to search for vehicles by colour, type, and make, in the following modes: Stand alone (even in off-line mode, with guaranteed operation even without an Internet connection); with NVR recorder and By-camera App. It easily integrates with the access control system via the Wiegand interface.

# Elvox CCTV. The performance of the new ultra-high resolution camera range.

The Elvox CCTV camera range can meet different system needs. They offer superior quality and performance levels capable of guaranteeing all-round monitoring, even in critical areas, from the smallest installation location, such as in a terraced house or a shop, to more complex facilities such as hotels and service industry buildings.

## Summary of camera performance

<p><b>Superior light sensitivity</b> With lens up to F1.2 and sensor up to 0.002 Lux.</p>	<p><b>Operates at extreme temperatures</b> -30°C /+60°C</p>	<p><b>IP67</b> Water and dust protection</p>	<p><b>8 Mpx</b> <b>High Resolution</b> 2 to 8 MPX</p>	<p><b>Fixed focus and varifocal</b> (also with motorised lens)</p>
<p><b>PTZ</b> Pan/tilt and zoom movement</p>	<p><b>Built-in Microphone</b></p>	<p><b>Advanced video analysis</b></p>	<p><b>SD-card 250 GB</b> to ensure a backup of the recording</p>	<p><b>Wi-Fi</b></p>

## Higher performance with Plus cameras



<p><b>Fisheye / Panoramic</b> For a wide-angle view</p>	<p><b>Smart Tracking</b> to follow a moving person or vehicle</p>	<p><b>IK10</b> Anti-Vandal protection</p>
<p><b>Audio and visual deterrent</b> with flashing red/blue LEDs</p>	<p><b>Colour viewing in the dark</b></p>	<p><b>Thermal vision</b> protection in any environmental condition</p>



## Active deterrence functions with Plus cameras



Stand-alone or integrated with PTZ and/or By-alarm Plus

<p><b>MONITORING ZONE</b></p> <p>In the absence of events in the zone being monitored, only the IR illuminator is active.</p>	<p><b>MONITORING ZONE</b></p> <p>When a target is detected, the white light for colour viewing in the dark is activated, as well as the tracking on the PTZ to record the sensitive area.</p>	<p><b>MONITORING ZONE</b></p> <p><b>Siren and lights</b> are activated to dissuade the target when they enter the monitoring zone</p>	<p><b>MONITORING ZONE</b></p> <p>When the target moves away, the white light turns off and the IR is reactivated</p>
---	---	---	--

## Metadata for facilitated search with Plus cameras



The cameras acquire the images, combining each one with various additional characteristics which can be used as in-depth search filters. These are the following 16:

<p><b>Personal characteristics:</b></p> <ul style="list-style-type: none"> <li>• Gender</li> <li>• Age</li> </ul>	<p><b>Clothing:</b></p> <ul style="list-style-type: none"> <li>• Long/short sleeves</li> <li>• Long trousers/shorts</li> <li>• Skirt</li> <li>• Top/bottom garment colour</li> </ul>	<p><b>Accessories:</b></p> <ul style="list-style-type: none"> <li>• Glasses</li> <li>• Hat</li> <li>• Backpack</li> <li>• Shoulder bag</li> </ul>	<p><b>Other:</b></p> <ul style="list-style-type: none"> <li>• Direction of movement</li> </ul>	<p><b>Car:</b></p> <ul style="list-style-type: none"> <li>• Type</li> <li>• Colour</li> <li>• Make</li> <li>• Model</li> <li>• Year</li> </ul>
<p><b>Efficient search:</b> quickly searching for the targets concerned makes it possible to exclude people and vehicles that are not relevant, helping users focus more on elements of interest with greater accuracy.</p>				

# New NVR and XVR recorders.

A comprehensive range to suit all needs.

## NVR - scalability of performance and functions



**Scalability of functions**  
(with updatable firmware)



**Professional HDD**  
(operating 24 hours a day, 7 days a week)



**HDMI output up to 8K**



**Advanced video analysis**



**Conforming to the NDAA standard** (National Defense Authorization Act)

Can be used and configured locally or remotely via web browser (also with browsers other than Explorer without the need to install plug-ins (Edge, Firefox, Chrome, Safari and Opera), smartphone Apps and CVM CCTV Manager software for PC.

Equipped with specific professional hard disks for CCTV, operating 24/7.

2 network ports up to 1 Gbps and bandwidth up to 640 Mbps to guarantee fluid images also at high resolution.

Multiple video outputs, up to 4 HDMI in maximum resolution up to 8K.

Resolution up to 16 Mpx real time on all channels.

Hard disk configurable in RAID mode (0, 1, 5, 6 and 10).



64 16 Mpx channels



16 canali, 16 canali PoE 8Mpx e 32 canali 12 Mpx



4 e 8 canali 6 Mpx PoE e 8 canali 8 Mpx PoE

Up to 100TB of storage with 8 internal hard disks and 2 external hard disks in E-SATA connection, to add further storage capacity simply.

They support all the video analysis functions available in the cameras, enabling the rapid search for events in a targeted way by event or by metadata, for instance via distinguishing elements such as gender or clothing.

In the 16 channel version, it also supports all the dewarping functions of the fisheye and face recognition with a database of 5000 faces which can be stored, allowing the search for a specific face in the recordings (only version not compliant with the NDAA).

To implement new functions, they all have firmware which can be updated, which is always available from the vimar.com website.

## XVR - versatile and hybrid recorders

Ideal recorders for system refurbishments, for instance to update only a part of the existing system, and in new installations.

Hybrid systems with up to 24 channels and 16 AHD cameras and 8 IP cameras.

Reduction of false alarms with video analysis functions also for AHD cameras, namely line crossing and area intrusion.



16 channels



4 and 8 channels

hybrid XVR, allowing the selection of the input technology for every single channel, which can be selected from: AHD, CVBS, IP, TVI and CVI.

Equipped with specific professional hard disks for CCTV, operating 24/7.

Resolution up to 8 Mpx

### Expansion module for NVR and XVR recorders

All models are compatible with the alarm expansion module which allows integration with the By-alarm Plus system, to receive notifications on the View and By-camera Apps and start recording only if the By-alarm Plus system is on.



## Monitor.

Specific solutions for intensive uses.

**A range of specific video surveillance monitors.** All monitors have been designed for intensive use, and can stay on at all times, 24/7. Each model is fitted with speakers, to play back the audio of the IP cameras or of the additional microphone. The range is designed for surface mounting.



10" Full-HD

22" Full-HD

43" 4K

with 3 HDMI inputs.

with 1 HDMI input and 1 VGA.

with 2 **HDMI inputs**, 1 **VGA** and 1 **BNC** for direct connection, without using an XVR, to AHD cameras with up to 5Mpx resolution.



Thanks to their viewing up to 178° of side tilt, they allow for a flexible monitoring area, such as in a "wraparound" installation.

178°

## Networking.

Guaranteed high resolution.

**Switch and PoE network Extender, also suitable for more demanding systems,** designed to guarantee the performance of NVR and IP cameras also with high resolution.



**18 x 1000 Mbps ports**  
With 16 PoE af/at ports, 2 uplink ports plus 2 SFP to allow fibre optic connection.



**10 x 1000 Mbps ports**  
with 8 PoE af/at ports and 2 uplink ports.



**5 x 1000 Mbps ports**  
With 4 PoE af/at ports, 1 uplink port plus 1 SFP to allow fibre optic connection.

The three models have a **CCTV mode** allowing the isolation of the downlink ports which can thus only communicate with the uplink ports.

All with a metal case and electrostatic discharge protection up to 8kV.



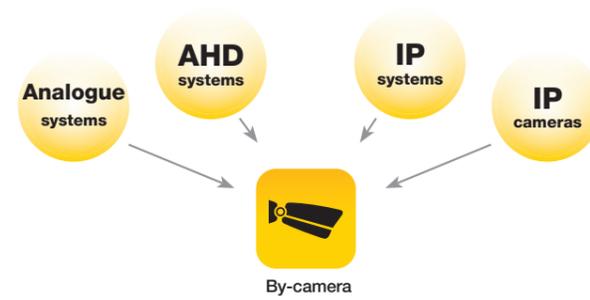
**Extender for Ethernet Line**  
Designed to extend the signal and PoE af/at power supply up to 100 m and, when connected in cascade, up to 400 m.

# By-camera App.

## A single App for the entire CCTV line-up.

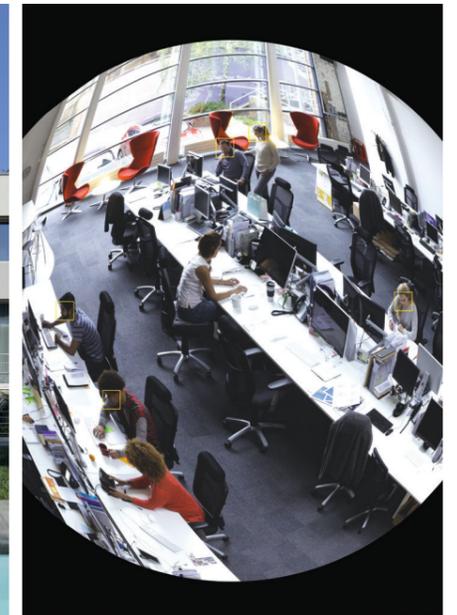
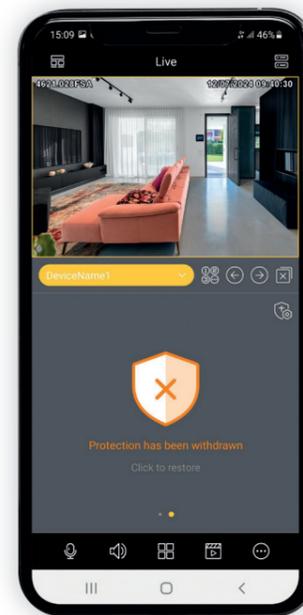
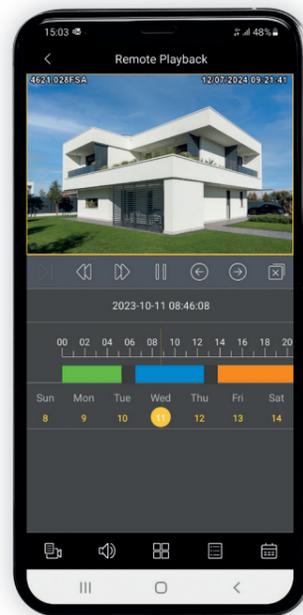


By-camera App lets you view images from all Elvox CCTV video surveillance systems on your smartphone and tablet, in both IP and AHD technology.



**Customisable application.**  
You can use the App to adjust certain settings on the XVR/NVR video recorders and create favourite screens. Favourite screens can also be created by combining into a single screen video streams originating from several systems with different technologies.

*By-camera App is available free of charge for iOS and Android operating systems on Apple Store and Google Play*



**For easier maintenance,** systems that can easily be managed remotely, you can adjust the main settings such as changing the recording mode, set alarms and event alerts.

**Immediate access** to the system remotely and without the need to configure the router. Simply scan the QR code with the App to view the video streaming from the cameras.

**Multivision with 8 different layouts** allowing you to view up to 16 cameras simultaneously, even from multiple systems made with different technologies (Analogue, AHD, IP) with quick access to live viewing via your favourite channels.



For optimum viewing of recordings, viewing using your smartphone placed horizontally is available, making full use of the entire display.

**Simplified playback:** it is easy to navigate through recordings thanks to simple, user-friendly controls, the differentiated time scale per event, and each with a specific colour to make it easier to identify.



You can also download images and videos directly onto your smartphone and share them quickly on WhatsApp, e-mail, text message or other applications installed on your smartphone.

**Disturbance-free, whenever you want.** You can set the receipt of immediate notifications on your smartphone only when the By-alarm Plus system is activated and use the App directly to disable the rule manually as you see fit, for instance to allow the gardener to trim your hedge without receiving constant alerts and leaving By-alarm Plus active.



**Viewing and control also via the By-me Plus home automation system.** The By-camera App is available on the By-me Plus home automation system monitor for live viewing and playback, and to use all the main management functions.



**Fisheye camera view with five different dividable views:**

- 360° view, bullet
- 180°+180°
- virtual PTZ and virtual reality
- inspired by the latest gaming technologies





## Notifications, alerts and actions.

### To stay protected at all times.

To be alerted at all times as to what is going on in the monitored area, a specific operation can be combined with a detected event. Discover all the opportunities.



EVENT 1 - INTRUSION IN BACK GARDEN



EVENT 2 - DOOR BREAK-IN



EVENT 3 - HOME INTRUSION



**Instant Photo**  
to save an image of the event in the recorder



**Push**  
sending of notification in App to be informed at all times, immediately also remotely, with an image of the event and a rapid link to the recording



**Buzzer**  
activates the audio signal of the recorder to alert the detection



**Pop-Up Video**  
activates a new live window of the camera concerned by the event on the monitor connected to the recorder or from CVM CCTV Manager



**E-mail**  
sends an e-mail of the event also with an attached image



**Record**  
activates recording onto the internal hard disk of the recorder or SD-card of the camera



**Out-Alarm**  
activates one of the outputs available on the recorder, of the camera or dedicated accessory

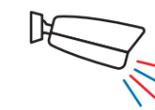


**Call up Preset PTZ**  
if a speed dome camera is present in the system, it calls up the view of a specific point saved in the frame

Only for cameras with deterrence functions the following settable actions are also available:



**Siren activation**  
to activate the audio alert, via siren or customised messages



**Activation of luminous alarm**, to activate the flashing luminous signal



# New video analysis functions for more control and greater security.

The Elvox CCTV system includes solutions that can distinguish people from objects, independently to generate accurate alerts and notifications, minimising false alarms and event search times. Functions that can recognise the target even in unfavourable environmental conditions.

**DEFINITION OF THE SIZE OF TARGETS**  
 To limit false alarms, you can define the minimum and maximum size of targets to detect, for instance excluding all small animals from detection a priori.



**VAGABOND**  
 Designed to signal people remaining at a standstill in an area, such as burglars who engage in reconnaissance before taking action.



**PARKING IN UNAUTHORISED AREA**  
 Designed to define an area in the frame where parking is not permitted, such as in a no parking area or a restricted access area.



**AUDIO DETECTION**  
 Designed to signal sudden noises, such as glass shattering.



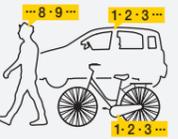
**ABANDONED OR REMOVED OBJECT**  
 This function is able to detect an abandoned or removed object in a pre-defined area within the frame perimeter. When detected, the related alarms are activated. Used to monitor object security, debris flow, illegal parking, illegal billboard posting, building vandalism, etc.



**VIDEO ANOMALY (fault or tampering).**  
 It recognises a fault or tampering with the camera due to a change in the image on the entire scene: low brightness, excessive brightness, low definition, colour tone dominance. It triggers an alarm accordingly.



**MOTION FLOW COUNTING**  
 This counts the number of times a predefined dividing line is crossed by people or vehicles. Certain actions can be set if specific situations occur, such as monitoring the person capacity in a limited area.



**FACE RECOGNITION**  
 Using powerful algorithms makes it possible to compare and match the faces of the people captured with those saved in the database and create activation rules and customised notifications. This function can also be managed via the By-camera App.



**HEAT MAP**  
 This serves to monitor and colour areas where people and vehicles are most common and concentrated within the framed perimeter, for instance to monitor road traffic or the favourite route taken by customers through a shop.



## Video Analysis Functions

### CROWD DENSITY

Designed to signal the concentration of a large number of people in a set area, allowing you to monitor the presence of too many people in critical areas.



### PERIMETER PROTECTION

It activates an alarm or notification when entering or exiting a defined area or crossing one or more configured lines. It can also be configured to discriminate whether it was a person, vehicle, bicycle or motorcycle that entered the area or crossed the line.



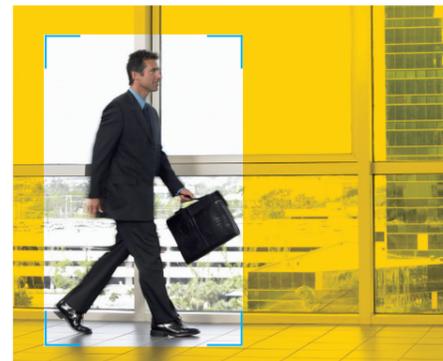
### METADATA

To facilitate the search, Plus cameras acquire the images, combining each one with various additional characteristics which can be used as in-depth search filters.



### SMART TRACKING

This allows PTZ cameras automatically to track a person or vehicle moving within the frame in order to capture every little detail and movement.



## Solutions for optimised viewing

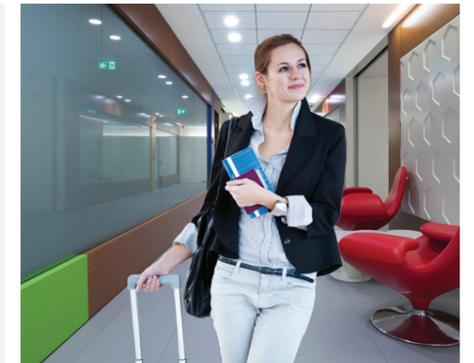
### BLC: BACK LIGHT COMPENSATION

BLC serves to bring the foreground subject to light when shot against the light. The DSP microprocessor will adjust the shutter to obtain a clear and sharp foreground image, leaving the brightest portion of the image overexposed.



### CORRIDOR FUNCTION

This serves to take vertical shots without losing detail inside the scene, ideal for security applications within corridors or narrow lanes.



### HLC: HIGH LIGHT COMPENSATION

This compensates the image by removing areas with too much light, which could create glare that could conceal details.



### WDR AND 3DNR FUNCTIONS

These are configurable functions to ensure perfect visibility and well-defined contours by correcting images in the event of strong back lighting, overexposure or darkness.



# CVM CCTV Manager for centralised video surveillance management.



Sophisticated software for centralising, monitoring, and managing XVR, NVR, and IP Elvox video cameras, for PCs running the Windows operating system. It allows users to monitor up to 64 XVR/NVR devices/IP video cameras over a local network or the internet, with up to 256 video streams, including with mixed technology (AHD-IP) and without router configuration using the P2P service. It supports different user and authorisation levels, a new XVR/NVR graphic interface based on pop-up windows, and can be configured by users to meet specific needs.

### Multi-Window Management

Everything under control: maps, video playback and settings can be managed simultaneously on several monitors.

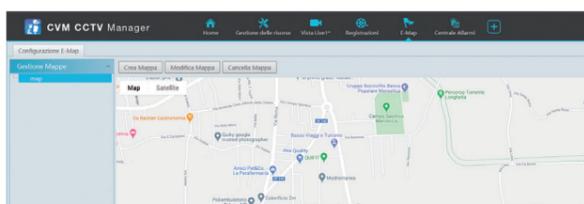


### Live Viewing

View of up to a maximum of 100 cameras in a single window even from several XVRs/NVRs. The cameras can be organised into logical groups for easier management (e.g. "Perimeter cameras", "Goods unloading area", etc.). The image quality and the frame rate of the primary and secondary stream can be changed to adapt to bandwidth requirements. In the event of an alarm, a full screen pop-up will appear with images from the video camera that triggered the alarm and at the same time the position will be marked on the map, to provide greater detail on location.

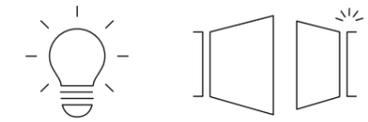
### Graphic Maps

Hierarchical views of multiple maps (in JPG, BMP, PNG, TIF formats, it also supports Google maps) can be created to position cameras and alarm sensors and obtain more details on the location in the event an alarm is triggered.



### Remote control of XVR/NVR outputs

To manually or automatically activate devices remotely, for example, to switch on lights, open entrances, etc.



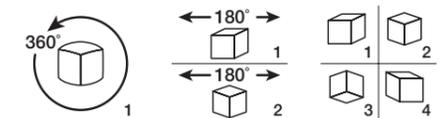
### Two-way Audio

Available with the talk/listen function with XVRs, NVRs, or IP cameras via the IP connection with independent transmission and reception activation.



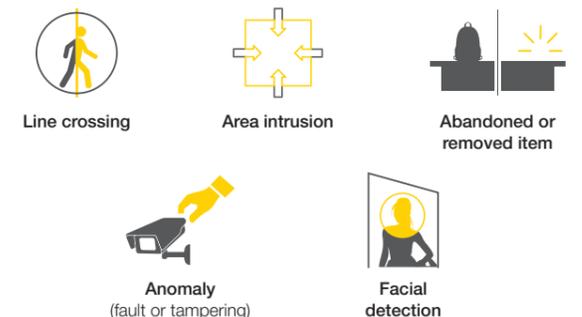
### Compatibility with FishEye Video Cameras

Supports the dewarping function to manage the images typically obtained from a camera with a fisheye lens, for example, 360° view, 180° panoramic view, 360° + 3 PTZ etc.



### Video Analysis Functions

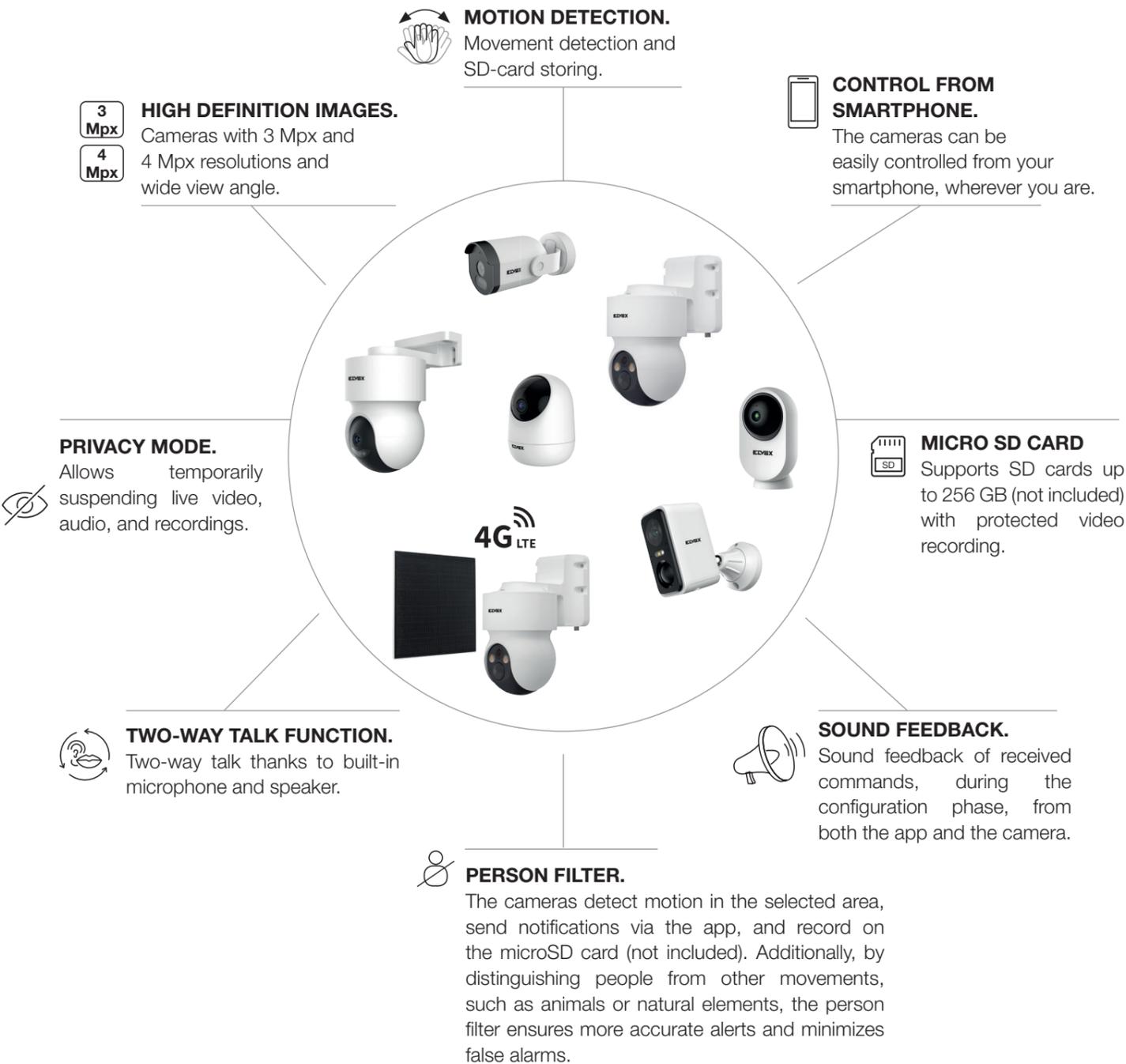
This serves to manage and configure the main video analysis functions for the cameras.



# Smart wireless cameras, Wi-Fi and 4G LTE

## Remote control with a smartphone using the View Camera app.

The **Wi-Fi cameras** are available in two versions: fixed or motor-driven. Easy to install and connect to a Wi-Fi network, they can be placed in any room to monitor your home or keep an eye on your loved ones at any time. A **4G camera** is also available, ideal for locations where a Wi-Fi connection is not available.

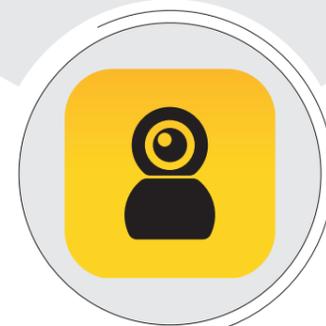


### NEW VIEW CAMERA APP.

The View Camera app allows remote control of Wi-Fi cameras via smartphone. Additionally, it enables live streaming viewing or recording, storing images and videos on the smartphone, sending notifications for detected events, performing connectivity tests to verify correct placement, and monitoring the battery level.

The View Camera app offers four simple and intuitive pairing modes with the cameras. It includes step-by-step guides and voice feedback, both from the app and the camera, to assist with the setup process.

New!



4G LTE

Practical and versatile installation for maximum security with a 4G LTE connection. The 4G LTE camera can be used virtually anywhere, making it the ideal solution for outdoor locations without access to a power supply or a Wi-Fi network. Thanks to its mobile connectivity, it ensures reliable monitoring even in remote or hard-to-reach areas.

### ADDITIONAL FUNCTIONS OF SMART WI-FI CAMERAS.



- PRESET 6 memorizable specific framing points
- smart tracking function
- Privacy mode with retractable lens
- nearby audio detection
- motorised Pan-Tilt camera with horizontal and vertical movement



- deterrent function with white light and configurable siren.
- Privacy mode with video suspension
- Color color night vision



- deterrent function with white light and configurable siren.
- motorised Pan-Tilt camera with horizontal and vertical movement
- Privacy mode with video suspension
- Color color night vision

\*Solar panel included, to keep the battery that powers the camera charged.

Index

---

**By-alarm Plus**

**37**

**Elvox CCTV**

**59**

## **By-alarm Plus**

General characteristics	38
Typical systems	42
Product range	48
Absorptions and dimensions	56

## By-alarm Plus: burglar alarm system

## GENERAL CHARACTERISTICS.

By-alarm Plus is Vimar's professional burglar alarm system, designed to protect the home against break-ins from the outside. The system manages up to 25, 65 and 125 zones divided into areas, each of which can be armed with different profiles (TOTAL, PARTIAL A, PARTIAL B, PARTIAL C, PARTIAL D).

It is installed as a stand-alone system with great ease via a wired connection and BUS cable and can also be extended via radio frequency with a wide range of flush mounting and surface mounting devices.

It is quick and easy to install, its quality is guaranteed by the **CEI EN 50131 certification (grade 3)**, which can be declassified with software to suit installation requirements) and **IMQ-security systems**. The radio sensors, outdoor radio siren, radio interface and some wired sensors are classified as grade 2.

## Advantages.

By-alarm Plus is a professional **system** with excellent performance, guaranteed by the reliability of being Made in Italy, and features:

- **simple configuration using a PC:** with the utmost versatility, the system can be configured quickly and intuitively from a PC via the dedicated **By-alarm Plus Manager 1.3 software** or later;
- **expandability at any time:** via BUS cable and/or radio frequency over an innovative high-reliability protocol;
- **remote supervision:** using a smartphone and tablet and secure GSM and IP connections. The system can be linked to surveillance bodies via the SIA-IP protocol;
- **integration with the CCTV video surveillance system,** which allows video checking with receipt of alarm notifications, followed by direct access to live images from the camera associated with the zone in the alarm state;
- **integration with the View platform and the By-me Plus home automation system:** via a protected IP connection that can be managed from the touch screen or remotely via the **View App**.
- **matching styling:** By-alarm Plus flush mounting devices are available for the Eikon, Linea, Arké, Idea (using mounting frame 16723) and Plana series. In addition:
- **kits with pre-configured devices** (for systems up to 25 and 65 base zones or **with IP connection**).

## STANDARD EN-50131.

## - Operation prescribed under EN-50131

System operation in compliance with EN-50131 **Grade 2** and **Grade 3** requires:

- Activation from a device with a key (actuators or keyboards), from a remote control or automatic activation does not apply any implicit forcing;
- Level 2 users can limit local access for the installer and the launch of the firmware update procedure (in the keyboard menu "Permissions->Installer");
- After 10 failed attempts to enter the PIN on the keyboard, access to it is immediately prevented for 90 s and then, again for the same amount of time, also after every subsequent individual failed attempt;
- After 3 failed attempts to access with the PIN remotely, access to the system is immediately prevented for 60 s and then, again for the same amount of time, also after every subsequent individual failed attempt;
- The robbery zone activity is not saved in the event log beyond the set zone cycles and in any case not beyond 10;
- The occurrence of faults is integrated for at least 10 s before being indicated;
- In the event of a disarmed system, the outdoor siren will not sound when a sabotage alarm occurs;
- The arming procedure is aborted "in progress" if during the exit time an event from those envisaged by the arming block occurs;

- The system status is not indicated on actuators and on keyboards without having logged in (unless you have selected "Always provide indications of the status on keyboard/actuators").

In the case of setting in compliance with EN-50131 **with Grade 3**, the following recommendations apply:

- In the event of sabotage, radio blackout, peripheral disappeared, communication problem with a peripheral or with the Security Station or with the gateway or with the GSM channel, the user can force an arming but must belong to a profile that has level 3 permission;
- The user can reset the system in the event of sabotage or fault memory and perform some zone exclusions, but they must belong to a profile which has restoring, exclusion and level 3 properties, as well as having obtained enabling from level 2 (in the keyboard menu "Permissions->User");
- The attenuation value set for the regulation test on the radio carrier (in the keyboard installer menu "Diagnostics->Radio System") is worth 15 dB instead of 8 dB;
- The radio blackout is notified as sabotage as well as a fault.

## - Default parameters

if parameter EN-50131 is active, functional procedures consistent with the requirements of the standard are adopted.

## - User management

If the EN-50131 parameter is active, the default configuration by the control unit has the following limitations:

- the system cannot be armed with open zones; it can be forced by a user with access level 3 (so access to the user menu is required) and the forcing will be recorded in the system log together with the zone disarming that caused blocking upon arming.

## System diagram.

The By-alarm Plus system is composed of a 25-zone (03800), 65-zone (03801) or 125-zone (03802) control unit, to which the wired sensors and the indoor and outdoor sirens are connected; the keyboard, flush mounting actuators, expansion modules, GSM communicator and radio frequency interface are connected to the BUS cable from the control unit. The system can be wired in **either a star or linear in-out configuration**.

The **control panel** is equipped with:

- 10 terminals that can be configured as zones (generic, roller shutter, inertial, control) or outputs. The number of terminals depends on the size of the control unit (25, 65, 125) and can be obtained using expansion modules 03808 and 03819, keypad terminals 03818 or mini magnetic contact terminals 03833.x.;
- a BUS to which the following can be connected:
  - keyboard (03817 or 03818);
  - siren (03826);
  - 5-input/output expansion module (03808 or 03819);
  - BUS isolator/repeater (03822 or 03823);
  - flush mounting actuator (03824);
  - radio frequency interface (03831 or 03832);
  - GSM communicator module (03810 or 3820);
- connection interfaces to install additional modules:
  - voice synthesis module (03813);
  - Ethernet network interface (03812).

The control unit has 1 programmable relay, 2 open collector outputs and 3 auxiliary 12 VDC outputs:

- the **relay** is typically used to control the self-powered outdoor siren and, where applicable, the indoor siren;

The control unit is configured via the **By-alarm Plus Manager 1.3 software** or later. The PC can be connected directly to the control unit by USB-micro USB cable or via network, using the Ethernet connection of the 03812.

## By-alarm Plus: burglar alarm system

## SYSTEM LOGIC.

The zones to be monitored must be defined according to determined areas for complete, secure coverage.

The **area** is a set of system zones, and the control panel can manage up to 5 (for 25 zones), 10 (for 65 zones) and 20 (for 125 zones). Within each area there are 5 **arming modes** (partitions): **TOTAL, PARTIAL A, PARTIAL B, PARTIAL C** and **PARTIAL D**. A system area can be armed in either TOTAL or PARTIAL .. mode; once an area is armed in one of these modes, it can only be disarmed.

For example, with a system composed of zones with external sensors (e.g. volumetric garden sensors), zones with perimeter sensors (e.g. window/roller shutter contacts) and zones with internal volumetric sensors (e.g. Dual technology sensors), a single area is defined with the three arming modes:

- **TOTAL** = all zones are activated (**total arming**);
- **PARTIAL ..** = activation of zones with external, perimeter and volumetric sensors, depending on the configuration.

Example: arm the area in TOTAL mode when leaving the house. When you are at home and want to protect the outside environment with external and perimeter sensors, arm the area in one of the PARTIAL modes; in order to be able to move freely in the sleeping area at night while the external, perimeter and volumetric sensors in the living area are all active, arm the area in a different PARTIAL mode. In each case, when the area is armed using any mode, it can only be disarmed.

**User management:** each user is recognised by the system through a 4 to 6 figure PIN (grade 3) set during system installation. The operations that can be carried out by each user can be defined in detail (for instance arming/disarming), as can the areas in which they can operate. A zone can belong to more than one area. The possibility of creating several areas, by defining the arming mode (flexible with respect to the zones) and the timely management of user rights, makes for an extremely flexible system.

Several areas can in fact be used to:

- manage parts of the system separately using one single control panel; you can configure 2 areas with different zones and define the users who can control any given area;
- increase the arming modes: more than one area can be defined with the same zones (or zone subsets) and with different arming modes.

## SYSTEM CONFIGURATION.

## By-alarm Plus Manager 1.3

The system can be configured via the By-alarm Plus Manager 1.3 software, which is more powerful than the previous version because it allows more customised and precise programming for each device.

Programming takes place in three steps:

- create the system and enter the QRcode of the control unit board;
  - add wired peripherals and enter the QRcode on the packaging or board. The wired peripherals can also be added with the ENROLL procedure if the system is completely wired;
  - add radio peripherals and enter the QRcode on the packaging.
- After these simple steps, the control unit can be configured by setting the many operating parameters for the devices, areas and zones to be protected, inputs, anti-tamper devices, etc.

The control unit data writing and reading functions are easy to use. Firmware updates are easy, thanks to a simple, user-friendly procedure. The software serves to monitor the system and view the operating condition, the status of batteries in radio devices, and transceiver communication signal level.

## By-alarm Plus IP burglar alarm system gateway (03812).

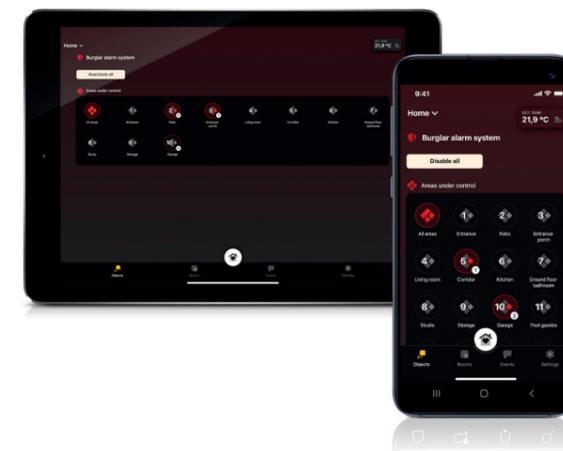
The gateway serves to connect the By-alarm Plus control unit to the LAN network in order to perform all system control, supervision and maintenance operations via the IP/LAN network, Cloud and View Pro App for smartphones, tablets, PCs or IP touch screens.

Moreover, the gateway acquires system data via a direct connection with the control unit to enable **full interaction** with the By-me Plus home automation system and therefore management with the View App.

## BURGLAR ALARM SYSTEM AND CCTV MANAGEMENT.

The **View App** can integrate the By-alarm Plus burglar alarm system with the CCTV video surveillance system for comprehensive monitoring, but also allows them to be added to a larger system such as the By-me Plus home automation system.

Video checking alarm notifications for viewing cameras related to the zone in alarm state, live monitoring environments with cameras, all of this is made possible by the interoperability of the systems in the home.



Example screenshots of the **VIEW** app



Examples of screen for video checking with the **View App**

By-alarm Plus: burglar alarm system

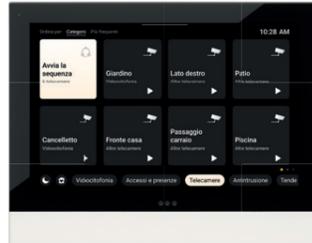
VIEW APP FOR THE END USER.

With the VIEW app, you can manage your spaces via smartphone or tablet. Customising and controlling functions (also navigating by environment), creating scenarios, configuring cameras, receiving video calls and notifications on the status of the home. And with skills provided to leading voice assistant



App available for iOS and Android operating systems, which can be downloaded free from Apple Store and Google Play.

Vimar View



7" IP PoE Touch View



10" IP PoE Touch View

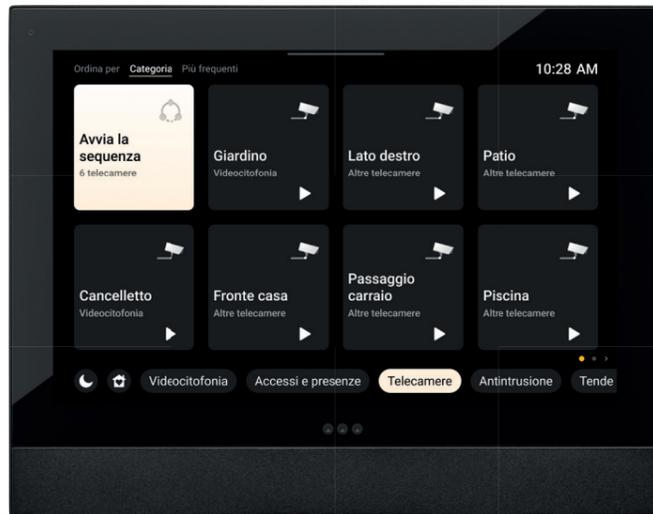
INTEGRATION WITH THE HOME AUTOMATION SYSTEM BY-ME PLUS.

The By-alarm Plus burglar alarm system is integrated into the By-me Plus home automation system by connecting the burglar alarm system control units (03800, 03801 and 03802) to the IP network via the gateway (03812), which uses an encrypted communication protocol with a very high security level, and can provide local and remote control via the **View app**.

The gateway allows the installer to access the system (also remotely) through a secure communication channel, using the **By-alarm Plus Manager software** version 1.0.0 or later.

The **integration functions** are:

- control and supervise the By-alarm Plus system from PoE IP touch screens (01425, 01422, 01420) to see the system status (arming/disarming areas based on the rights associated with the user PIN entered, and viewing events/alerts, etc.);
- activate a By-me Plus scenario when an event occurs (arming, disarming, alarms, etc.) in the burglar alarm system;
- use of logic programs linked to the status of the areas (full connection, partial connection, alarm);
- video check with view of all the analogue and IP cameras and those installed on the video door entry risers by the supervisors or mobile devices.



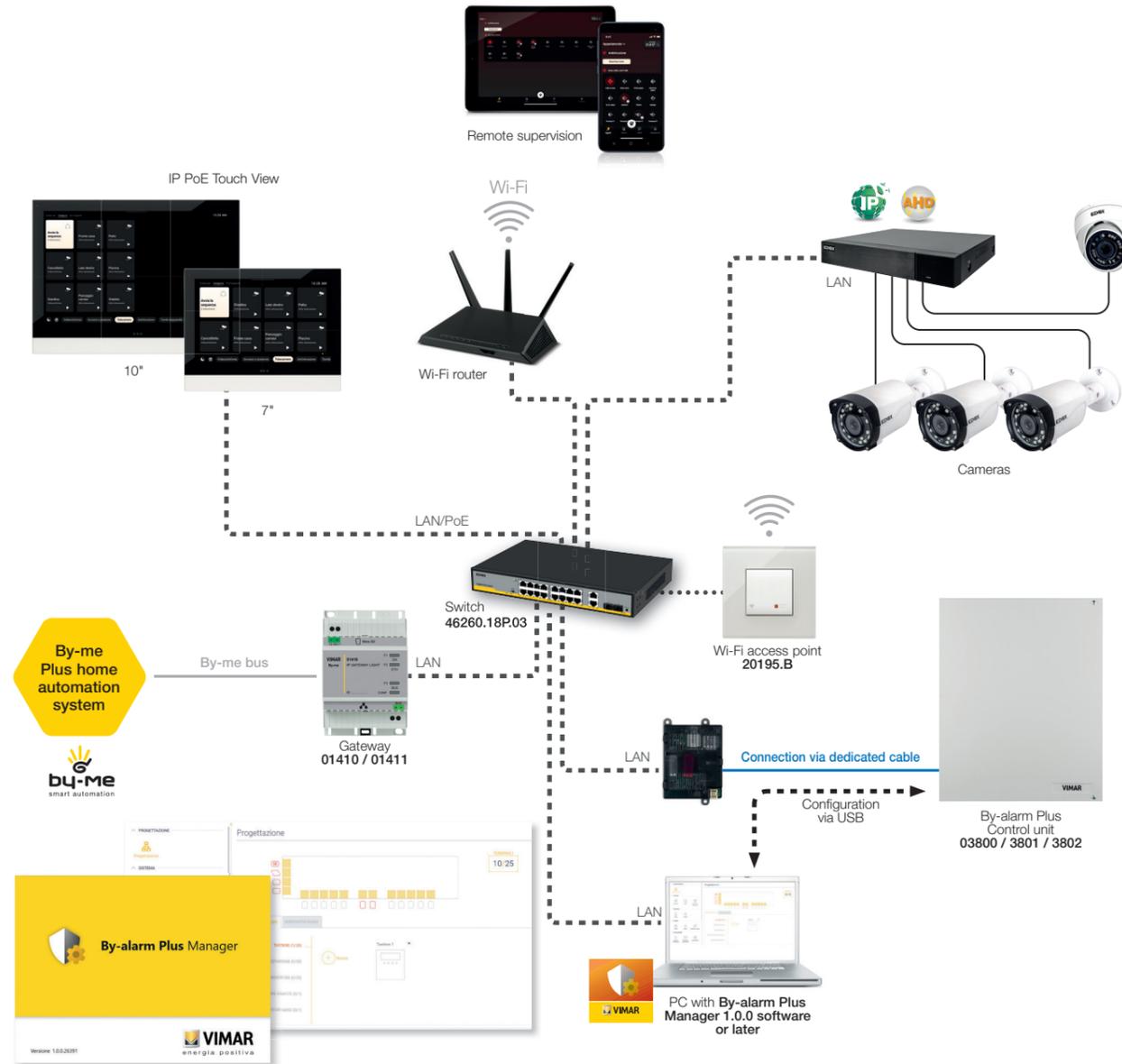
10" IP PoE Touch View

manufacturers, the building responds to your voice, keeping you in touch with your home.

Vimar has developed a user-friendly and easily customisable interface with clear icons, which is natively integrated into the 4.3", 7" and 10" **PoE IP touch screens** of the By-me Plus system.

By-alarm Plus: burglar alarm system

SISTEMA ANTINTRUSIONE BY-ALARM PLUS INTEGRATO CON SISTEMA BY-ME PLUS E TVCC.

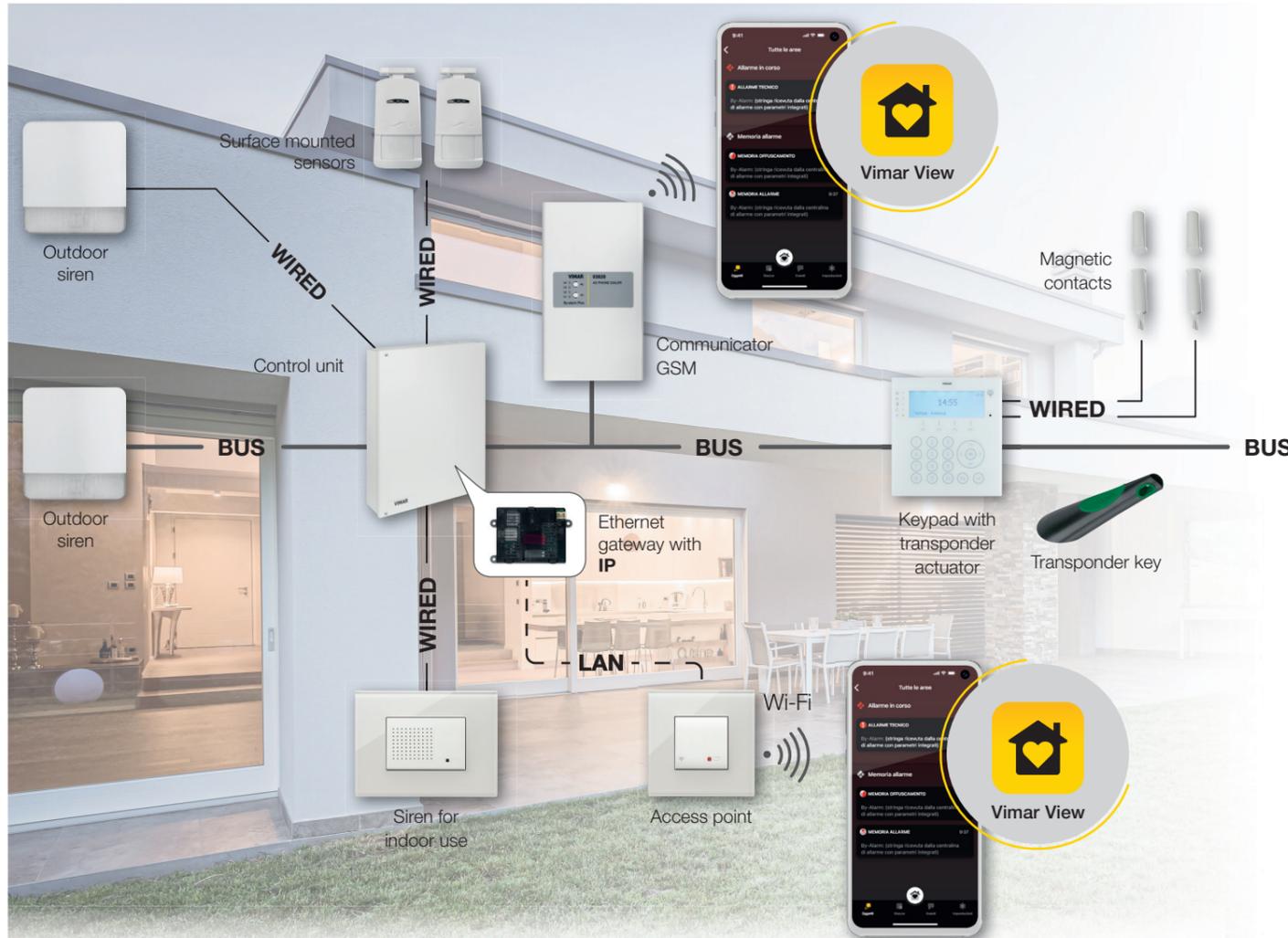


Some screens of the By-alarm Plus Manager 1.0.0 software or later

A stand-alone, simple and connected solution.

A simple but high-performance solution able to effectively identify and signal any breaking and entering or undesirable presence. It is very easy to install using a wired connection and BUS cable, and can be controlled remotely/locally from a smartphone via the **View** app.

WIRED CONNECTION AND BUS CABLE



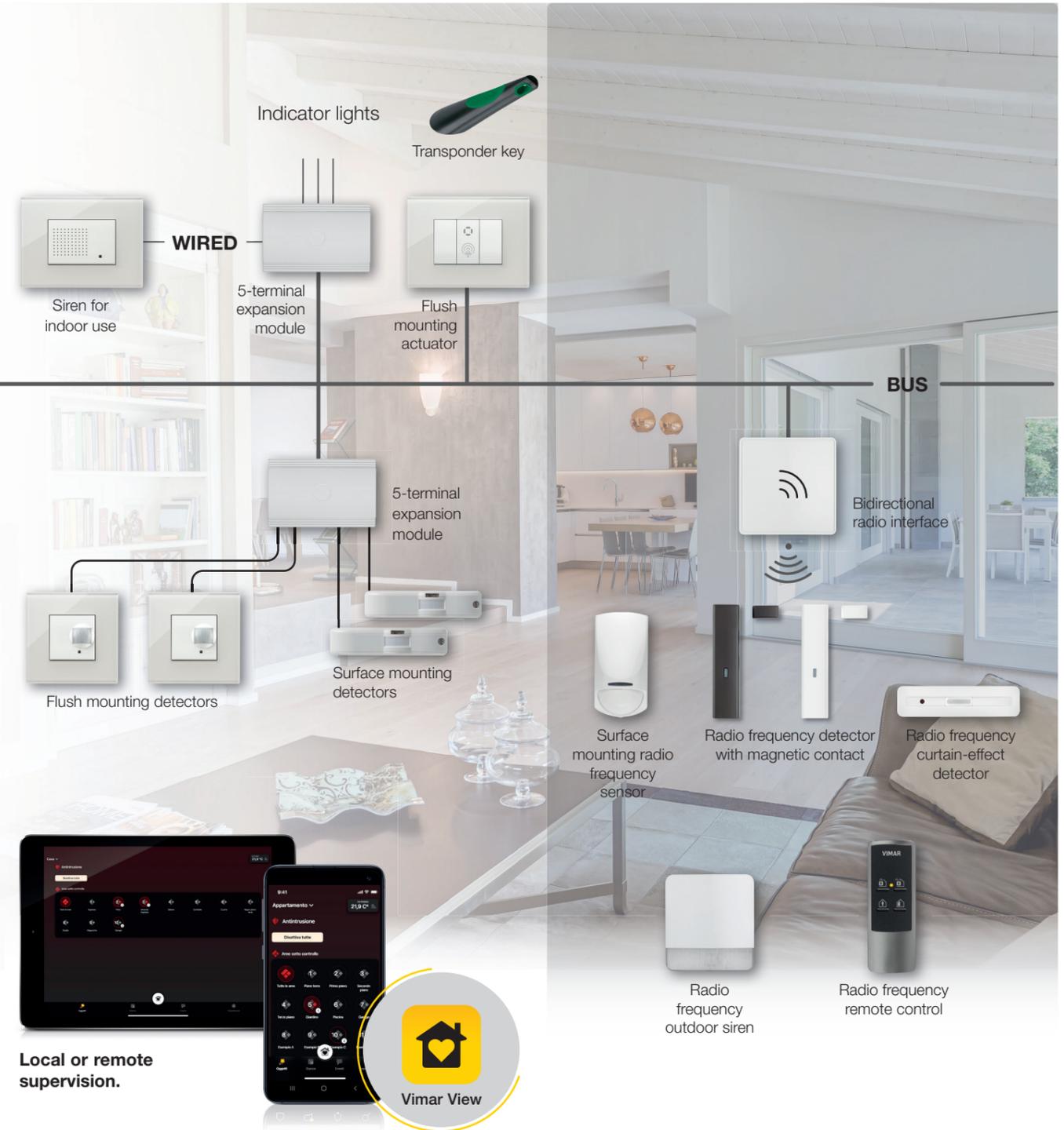
**Intuitive configuration.**  
In order to facilitate the work of the professionals installing it, the burglar alarm system can be configured using the user-friendly By-alarm Plus Manager 1.0.0 software or quickly and easily from the keypad.

A solution that can be expanded with a bus cable and/or via radio frequency.

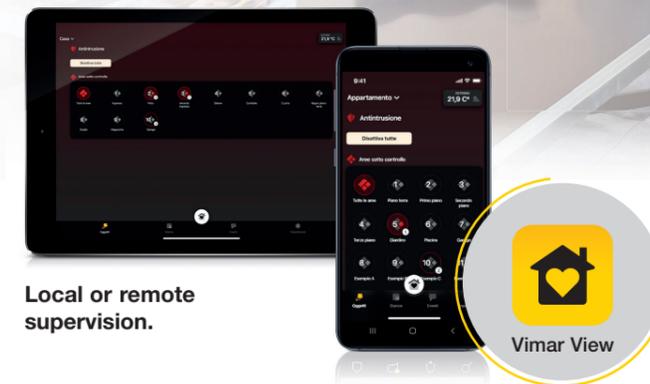
The stand-alone solution can be extended to other areas of the building depending on installation needs. Simply extend the BUS cable and/or connect it to a bidirectional radio extension interface for radio frequency control of a range of compatible alarm devices using a highly reliable protocol. In this way it is possible to alarm other zones without carrying out building work.

EXTENSION VIA BUS CABLE

AND/OR E.G.VOLTAGE VIA RADIO FREQUENCY



**Local or remote supervision.**



By-alarm Plus: burglar alarm system

An advanced solution, easily linked to the Elvox CCTV system.

By-alarm Plus can be quickly and easily connected to a video surveillance system. Simply connect a BUS cable to the expansion modules and then use a wired connection to connect them to both XVR/NVR and Elvox CCTV IP cameras fitted with alarm contacts or with the addition of the alarm expansion module which is read as a selection input by the recorders (code 46936.001, with 16 inputs and 6 outputs). This integration allows the receipt of notifications in the View and By-camera App and start recording on NVR/XVR only if the By-Alarm Plus system is in the armed state. To view the cameras on the View App from outside the network to which the video surveillance system is connected, you will need to have a **static network address** or alternatively use a **DYDNS** service; in any case, you will need to act on the router to grant external access via the rerouting of the ports.

BY-ALARM PLUS BURGLAR ALARM SYSTEM

INTEGRATION WITH ELVOX CCTV



By-alarm Plus: burglar alarm system

A solution that can be integrated and expanded with View Wireless and By-me Plus via the IP connection.

By-alarm Plus integrates with smart homes or connected homes for greater comfort, efficiency and security, whether you are inside or out. Moreover, installing an IP module in the By-me Plus home automation system ensures that connectivity is secure and the system can be supervised from a touch screen or remotely from a smartphone or tablet via the **View** app.

INTEGRATION WITH VIEW WIRELESS, BY-ME PLUS AND REMOTE SUPERVISION



**Control and monitoring**  
The View App allows the control of connected devices and the integration of all systems: **Connected thermostats, View Wireless, By-me Plus, Elvox Video door entry system, By-alarm Plus and Elvox CCTV**

**View App.**  
Allows full system management, monitored and supervised via PoE IP touch screens.

By-alarm Plus: burglar alarm system

Example: 80 m<sup>2</sup> flat with By-alarm Plus burglar alarm system with connected kit.

The example shows a By-alarm Plus burglar alarm system in an 80 m<sup>2</sup> flat, complete with the **connected kit OK03800.02**. Using kit devices, you can:

- manage the entire system from the control unit 03800 (up to 25 zones) with surface mounting enclosure 03814, installed in the technical room, with all system devices connected to it;
- system programming, activation/deactivation and partitioning using the 03817 backlit keypad installed at the entrance;
- the motion detector in the living room and corridor with dual technology detectors 01720 which, thanks to 2 detection modes with 2 levels of sensitivity, optimise detection ability and prevent false signals;
- The IP/LAN gateway 03812 enables control and management

from a smartphone, tablet or PoE IP touch screen supervisor via the View **App**.

The same type of system can be created using **kit OK03801.02** which contains control unit 03801, expandable up to 65 zones. The two connected kits can be extended with wired sensors, indoor and outdoor sirens, actuators, keyboards and expansion modules, either wired or in radio frequency.



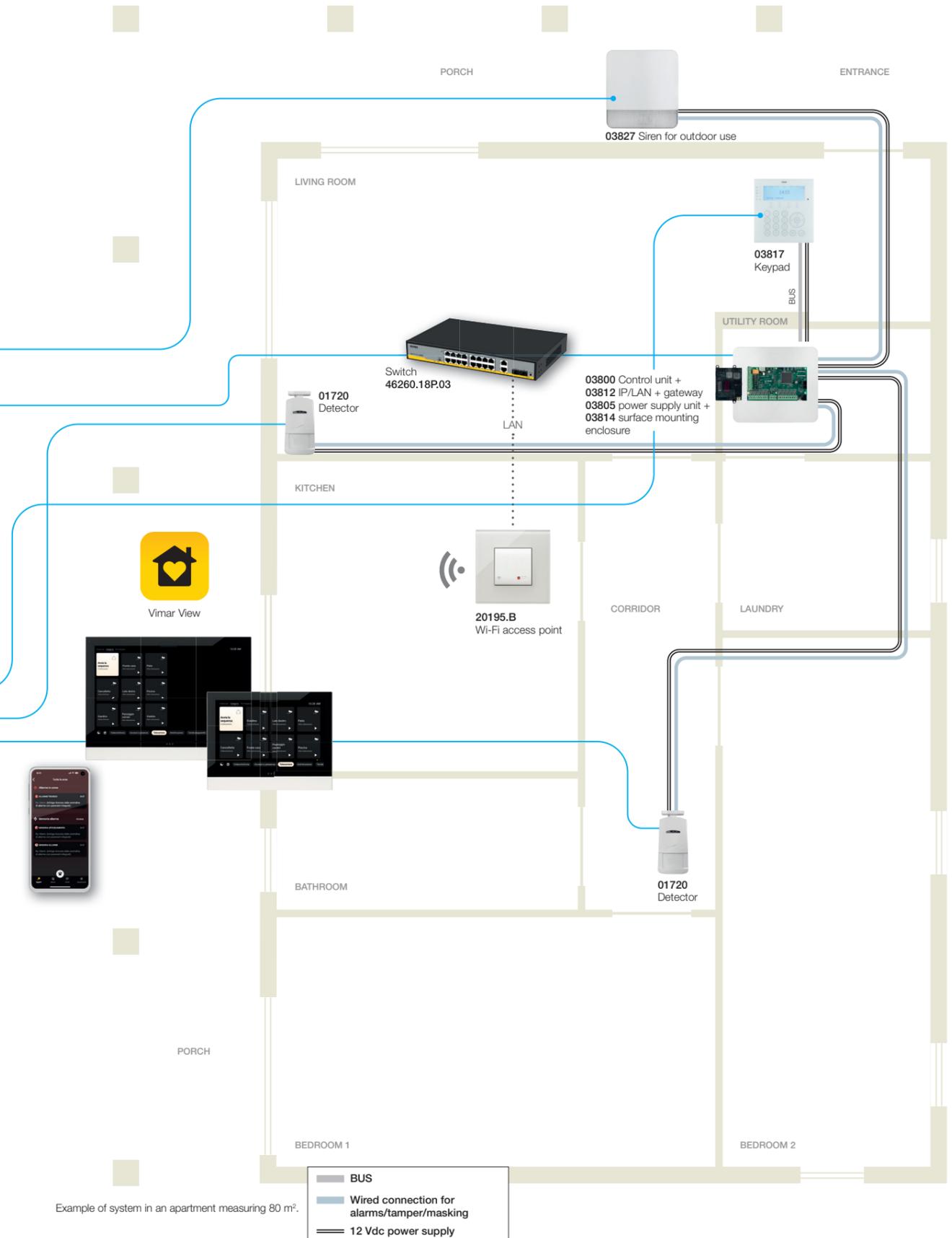
Devices included in the connected kit OK03800.02\*

Code	Description	Qty	Absorption (mA)
<b>System components</b>			
01720	Surface mounting PET immune detector	2	80
03817	Keypad with display	1	80
03827	Outdoor siren	1	140 (stand-by) or 220
03812	IP/LAN gateway	1	200
			Total power supplied with a 7 Ah battery for powering the system (mA)
03800+03805+03814	25-zone control unit + 230 V~ power supply unit + surface mounting enclosure	1	3200

\* The composition of the kit OK03801.02 is the same, but the control unit 03801 is expandable up to 65 zones and has 1 GSM communicator board (03810) and keypad with transponder actuator (03818)

By-alarm Plus: burglar alarm system

Typical system: 80 m<sup>2</sup> flat with By-alarm Plus burglar alarm system with connected kit.



Example of system in an apartment measuring 80 m<sup>2</sup>.

By-alarm Plus software



By-alarm Plus Manager 1.0.0 software for system configuration

Kit with IP connection



**OK03800**  
By-alarm Plus control unit kit, 25 zones, surface mounting, containing:  
 • 1 25-zone control unit board (03800)  
 • 1 230 V – 13 Vdc 3.2 A power supply unit (03805)  
 • 1 plastic box (03814)

**OK03800.01**  
By-alarm Plus control unit kit, 25 zones, flush mounting, containing:  
 • 1 25-zone control unit board (03800)  
 • 1 230 V – 13 Vdc 3.2 A power supply unit (03805)  
 • 1 24-module flush mounting switchboard adapter (03816)

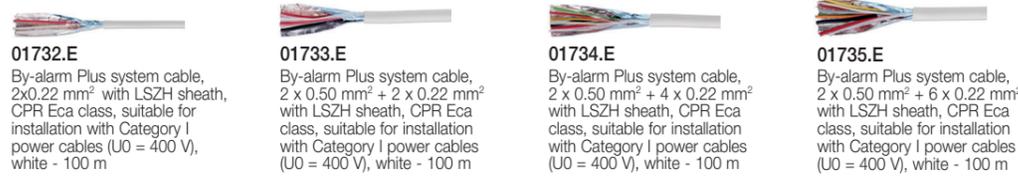
Preconfigured kits



**OK03800.02**  
By-alarm Plus control unit kit, 25 zones, surface mounting, containing:  
 • 1 25-zone control unit board (03800)  
 • 1 keypad with display (03817)  
 • 1 outdoor siren (03827)  
 • 2 dual technology surface mounting detectors (01721)  
 • 1 burglar alarm system gateway (03812)  
 • 1 230 V – 13 Vdc 3.2 A power supply unit (03805)  
 • 1 plastic box (03814)

**OK03801.02**  
By-alarm Plus control unit kit, 65 zones, surface mounting, containing:  
 • 1 65-zone control unit (03801)  
 • 1 Communicator for sending/receiving text messages (03820)  
 • 1 keypad with display + transponder (03818)  
 • 1 outdoor siren (03827)  
 • 2 dual technology surface mounting detectors (01721)  
 • 1 burglar alarm system gateway (03812)  
 • 1 230 V – 13 Vdc 3.2 A power supply unit (03805)  
 • 2 transponder keys (03825.Y)  
 • 1 plastic box (03814)

Cables



**01732.E**  
By-alarm Plus system cable, 2x0.22 mm<sup>2</sup> with LSZH sheath, CPR Eca class, suitable for installation with Category I power cables (U0 = 400 V), white - 100 m

**01733.E**  
By-alarm Plus system cable, 2 x 0.50 mm<sup>2</sup> + 2 x 0.22 mm<sup>2</sup> with LSZH sheath, CPR Eca class, suitable for installation with Category I power cables (U0 = 400 V), white - 100 m

**01734.E**  
By-alarm Plus system cable, 2 x 0.50 mm<sup>2</sup> + 4 x 0.22 mm<sup>2</sup> with LSZH sheath, CPR Eca class, suitable for installation with Category I power cables (U0 = 400 V), white - 100 m

**01735.E**  
By-alarm Plus system cable, 2 x 0.50 mm<sup>2</sup> + 6 x 0.22 mm<sup>2</sup> with LSZH sheath, CPR Eca class, suitable for installation with Category I power cables (U0 = 400 V), white - 100 m

System components



**03814**  
Surface mounting plastic box for 25- and 65-zone control unit boards.  
Dim. 350x310x85 mm

**03815**  
Surface mounting metal box for 25-, 65- and 125-zone control unit boards.  
Dim. 375x465.6x92.2 mm

**03816**  
24-module switchboard adapter box for flush mounting box V53324 or V53724 and 25- and 65-zone control unit boards.  
Dim. 344.9x444.9 mm

**V53324**  
24-module flush-mounting back box (GW 650 °C) for masonry walls.  
Dim. 316x423x80 mm

**V53724**  
As above, for hollow walls

Control panels



**03801**  
By-alarm Plus control unit, expandable to 25 zones

**03801**  
By-alarm Plus control unit expandable to 65 zones

**03802**  
As above, expandable to 125 zones

Digital keypad and outdoor siren



**03817**  
Keypad with LCD display, 12 Vdc power supply unit, 23 backlit keys, 5 status LEDs, surface mounting.  
Dim. 140.3x150.3x21.6 mm

**03818**  
Keypad with LCD display and transponder actuator, 2 In/Out zones/terminals, 12 Vdc, 23 backlit keys, 5 status LEDs, surface mounting.  
Dim. 140.3x150.3x21.6 mm

**03826**  
Outdoor siren, control unit connection via BUS, surface mounting.  
Dim. 218x237x54.8 mm

**03827**  
As above, with wired connection to any burglar alarm control unit

System components



**03805**  
230 V~ 50/60 Hz power supply unit with 13.8 Vdc 3.2 A output

**03806**  
230 V~ 50/60 Hz power supply unit with 13.8 Vdc 6.2 A output

**03812**  
Burglar alarm system gateway with IP/LAN for connection to Vimar Cloud, smartphone, tablet and supervision touch screen

**03810**  
GSM communicator module to send/receive text messages, voice messages and alerts with the SIA-IP protocol from version 1.1.0 on

**03820**  
Communicator to send/receive text messages, voice messages and alerts with the SIA-IP protocol from version 1.1.0 on



**03822**  
Isolated interface for BUS signal regeneration

**ZBA1**  
Rechargeable 12 VDC 7 Ah buffer battery, for power supply units 03805 and 03806

**03823**  
As above, with power supply unit

Expansion and voice synthesis modules for control units



**03808**  
5-terminal input/output expansion board configurable for volt-free contacts

**03819**  
5-terminal input/output expansion board configurable for volt-free contacts

**03809**  
Relay interface board with 1 28 Vdc 7 A changeover contact

**03813**  
Voice synthesis module for automatic transmission of communications, alarms faults or anomalies. Italian language

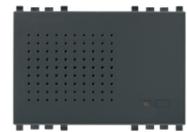
# SECURITY

## By-alarm Plus: burglar alarm system



EIKON	LINEA	ARKÉ	PLANA
-------	-------	------	-------

### Siren for indoor use



**20496**  
Indoor siren, grey - 3-module.  
Depth: 37 mm



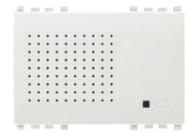
**30526.G**  
Indoor siren, black - 3-module.  
Depth: 34.2 mm



**19496**  
Indoor siren, grey - 3-module.  
Depth: 36.5 mm



**14496**  
Indoor siren, white - 3-module.  
Depth: 36 mm



**20496.B**  
Indoor siren, white - 3-module.  
Depth: 37 mm



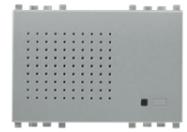
**30526.B**  
Indoor siren, white - 3-module.  
Depth: 34.2 mm



**19496.B**  
Indoor siren, white - 3-module.  
Depth: 36.5 mm



**14496.SL**  
Indoor siren, Silver - 3-module.  
Depth: 36 mm



**20496.N**  
Indoor siren, Next - 3-module.  
Depth: 37 mm



**30526.C**  
Indoor siren, beige - 3-module.  
Depth: 34.2 mm



**19496.M**  
Indoor siren, Metal - 3-module.  
Depth: 36.5 mm

### Connector/shutter



**03824**  
Unit to be combined with Eikon, Linea, Arké and Plana adapters  
Depth: 35.7 mm



**03825.G**  
Transponder key for actuator, green



**03825.Y**  
Transponder key for actuator, yellow

### Adapters for actuator/ partitioner



**20477**  
grey.  
1 module



**20477.B**  
white.  
1 module



**20477.N**  
Next.  
1 module



**31528.G**  
black.  
1 module



**31528.B**  
white.  
1 module



**31528.C**  
beige.  
1 module



**19477**  
grey.  
1 module



**19477.B**  
white.  
1 module



**19477.M**  
Metal.  
1 module



**14477**  
white.  
1 module



**14477.SL**  
Silver.  
1 module

# SECURITY

## By-alarm Plus: burglar alarm system



EIKON	LINEA	ARKÉ	PLANA
-------	-------	------	-------

### Passive infrared and microwave presence detector



**20479**  
Presence detector, grey - 2 modules.  
Depth: 26.5 mm



**20479.B**  
Presence detector, white - 2 modules.  
Depth: 26.5 mm



**30529.G**  
Presence detector, black - 2 modules.  
Depth: 30.8 mm



**30529.B**  
Presence detector, white - 2 modules.  
Depth: 30.8 mm



**19479**  
Presence detector, grey - 2 modules.  
Depth: 26.2 mm



**19479.B**  
Presence detector, white - 2 modules.  
Depth: 26.2 mm



**14479**  
Presence detector, white - 2 modules.  
Depth: 25.5 mm



**14479.SL**  
Presence detector, Silver - 2 modules.  
Depth: 25.5 mm



**20479.N**  
Presence detector, Next - 2 modules.  
Depth: 26.5 mm



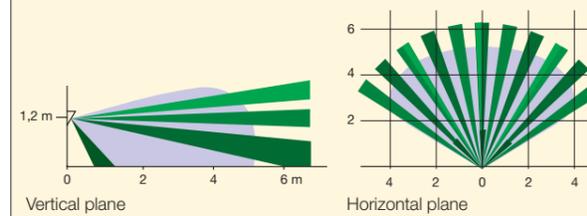
**30529.C**  
Presence detector, beige - 2 modules.  
Depth: 30.8 mm



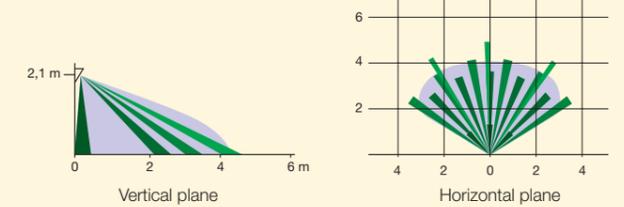
**19479.M**  
Presence detector, Metal - 2 modules.  
Depth: 26.2 mm

### Detection range of the infrared detector

#### 1. Flush mounted installation at 1.2 m



#### 2. Installation with support art. 00802 at a height of 2.1 m and with the detector orientated at the smallest elevation angle (installation not IMQ-security system certified).



Detection area: ■ Infrared ■ Microwave

### Common accessories for Eikon, Arké and Plana



**00802.14**  
Orientable support for presence detector, grey



**00805.14**  
Flush mounting adapter for orientable support, grey



**00800.14**  
Surface mounting frame for orientable support, grey



**00802**  
Orientable support for presence detector, white



**00805**  
Flush mounting adapter for orientable support, white



**00800**  
Surface mounting frame for orientable support, white



**00802.20**  
Orientable support for presence detector, Next/Silver



**00805.20**  
Flush mounting adapter for orientable support, Next/Silver



**00800.20**  
Surface mounting frame for orientable support, Next/Silver

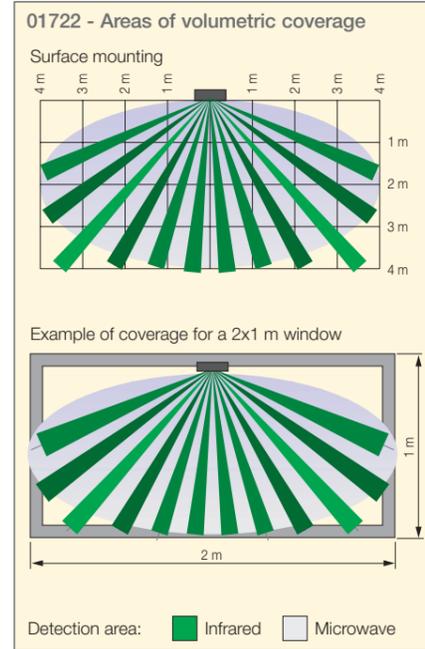
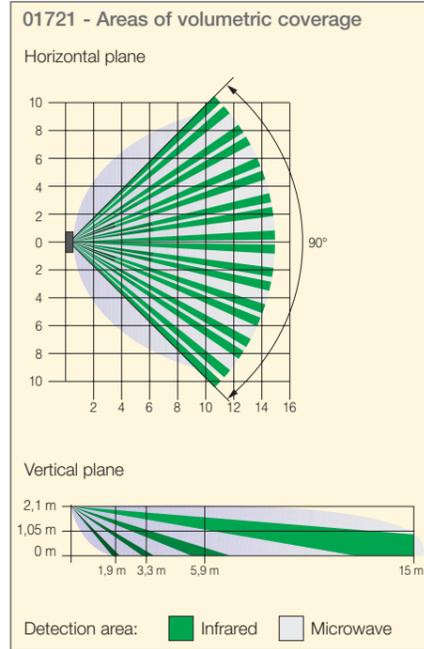
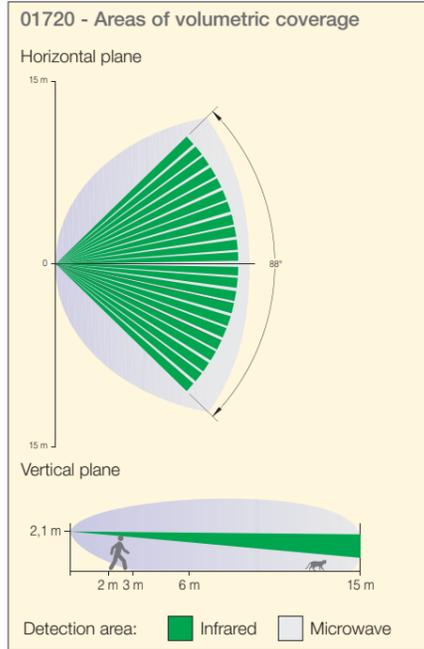
Indoor and surface mounting detectors



**01720**  
Dual technology passive infrared and microwave detector, PET immune, surface mounting

**01721**  
Dual technology passive infrared and microwave detector, anti-masking and anti-crawl, surface mounting

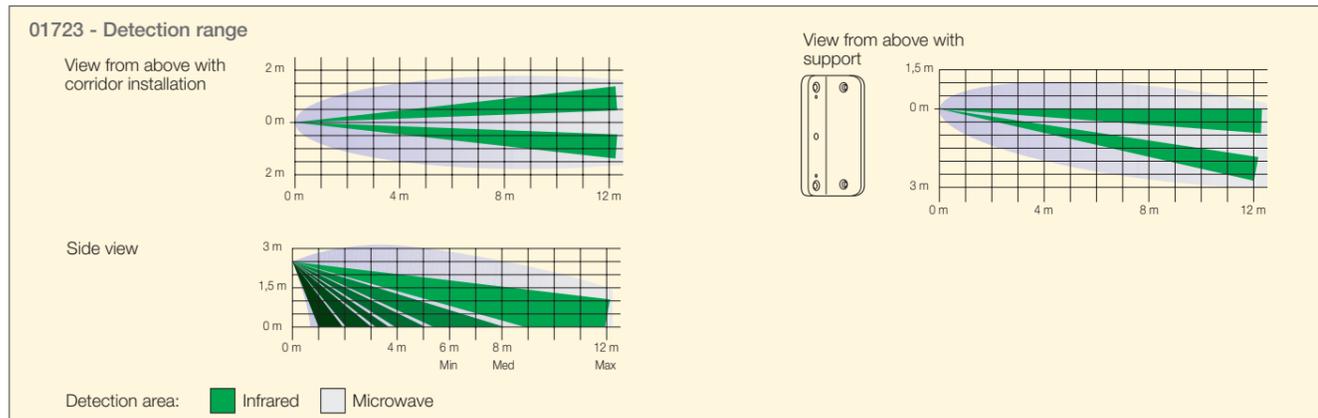
**01722**  
Dual technology curtain-effect detector, for entrances and windows, surface mounting



Outdoor and surface mounting detectors



**01723**  
Dual technology passive infrared and microwave curtain-effect detector, IP54 for outdoor entrances and windows, surface mounting



Outdoor and surface mounting detectors



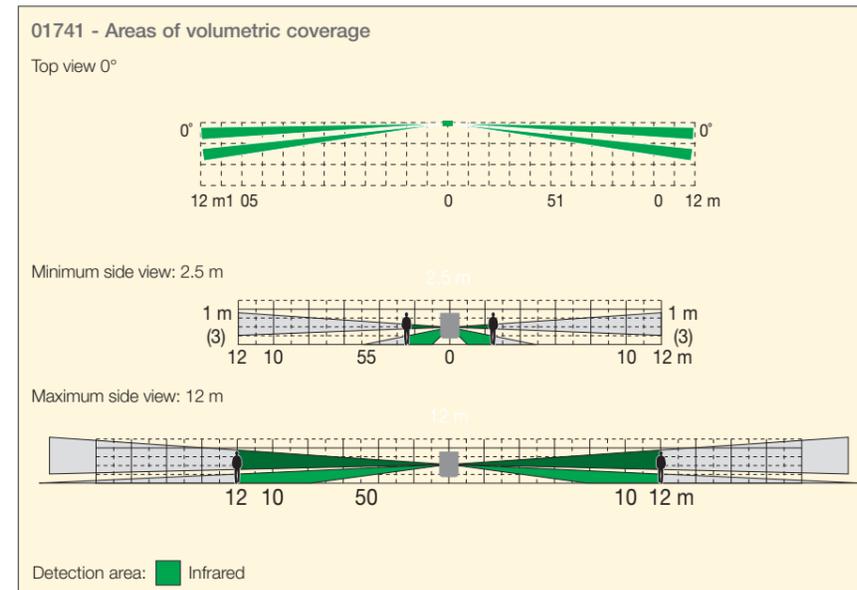
**01740**  
Curtain-effect detector, 2/5 meters for protecting entrances, PET immune, surface mounting



**01741**  
By-alarm Plus passive infrared detector for the protection of building exteriors, independent 12-metre curtain-effect detection on each side (left and right), with anti-masking, PET immune, IP55, 2 NO and NC 28 VDC 0.1 A relay outputs per output, 9.5-18 VDC 34 mA 12 V power supply, surface mounting, for outdoor use



**01741.S**  
By-alarm Plus frame for 01741



Rivelatori da esterno e da parete

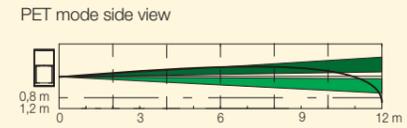
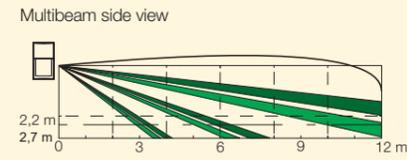
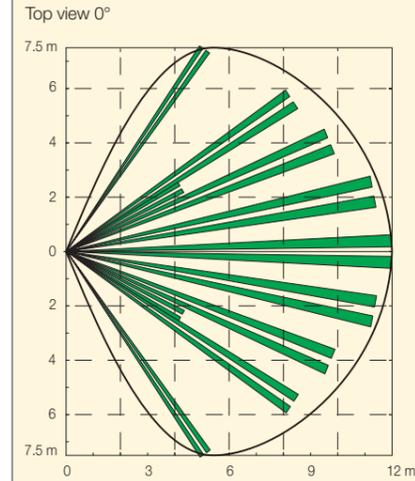


**01742**  
By-alarm Plus passive infrared and microwave dual technology detector, with anti-blinding, 120° coverage up to 12m, high (2.2-2.7 metres) or low (0.8-1.2 metres) mounting, can be set for PET immunity, IP55, 1 NO and NC 28 VDC 0.1 A relay output, 9.5-16 VDC power supply with 30 mA 12V, surface mounting, for outdoor use



**01742.S**  
By-alarm Plus frame for 01742

01742 - Areas of volumetric coverage



Detection area: ■ Infrared



**01743**  
By-alarm Plus barrier kit consisting of TX/RX active infrared pair (AIR) with outdoor range of 60 metres, with 4 selectable channels to create a column barrier comprising several stacked detectors, IP65, 1 NO/ NC 28 VDC 0.2A relay output for alarm, 1 NC 28 VDC 0.2A relay output to prevent false alarms due to adverse weather conditions (fog, rain, snow), 10.5-28 VDC power supply with 48 mA 12V surface, pole, column mounting, for outdoor use



**01743.H**  
By-alarm Plus heater for 01743

Dispositivi di rilevamento per antintrusione e allarmi tecnici



**01724**  
Water detector for protection against flooding, floor mounting



**01823**  
Magnetic contact in a metal enclosure for visible installation



▲ **01824**  
Magnetic contact in a metal enclosure for up-and-over doors



**01825**  
Electromechanical rope sensor for shutters and roller shutters



**01826**  
Electromechanical inertial contact for windows and doors



**01820**  
Magnetic contact for flush mounting installation



**01821**  
Metal magnetic contact for flush mounting installation



**01822**  
Magnetic contact for visible installation

By-alarm Plus: burglar alarm system

Extension kit, 868 MHz radio frequency



**0K03831**  
By-alarm Plus radio extension kit, surface mounting, containing:  
• 1 RF interface (03832),  
• 2 infrared detectors (03836),  
• 2 white RF magnetic contacts (03833.B),  
• 2 surface mounting RF remote controls (03839)

Expansion modules for 868 MHz radio frequency



**03831**  
Transceiver, BUS connection to the control unit, 2 antennas for horizontal and vertical polarisation with antenna-diversity, plastic enclosure

**03832**  
Transceiver board, BUS connection to the control unit, 2 antennas for horizontal and vertical polarisation with antenna-diversity, plastic enclosure

**03840**  
Repeater to extend radio coverage, 2 antennas for horizontal and vertical polarisation with antenna-diversity, plastic enclosure

Remote control and outdoor siren, 868 MHz radio frequency



**03839**  
Remote control with 4 buttons, power supply with 3 V CR2032 lithium battery included

**03830**  
Outdoor siren, control unit connection via radio, surface mounting.  
Dim. 218x237x54.8 mm

**00907**  
Non-rechargeable 3.6 V 14500 mA lithium battery for radio frequency siren

Detection devices for burglar alarm systems and technical alarms, 868 MHz radio frequency



**03833.B**  
Vertical and horizontal magnetic contact for doors and windows, power supply with 1 x 1.5V AA alkaline battery included, white

**03833.M**  
Vertical and horizontal magnetic contact for doors and windows, power supply with 1 x 1.5V AA alkaline battery included, brown

**03834**  
Magnetic contact and shock/tilt sensor, power supply with 1 CR2 3V lithium battery, white

By-alarm Plus: burglar alarm system

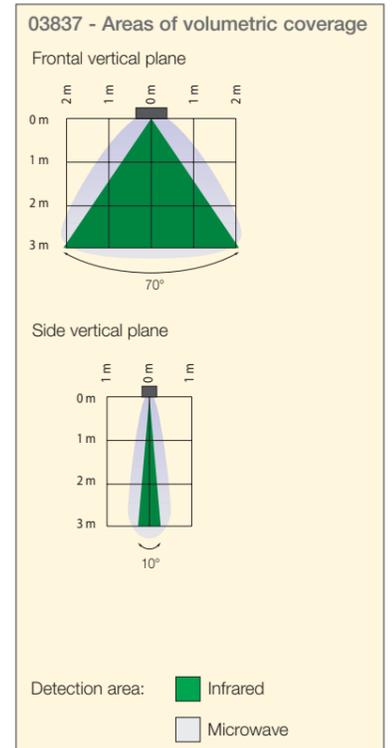
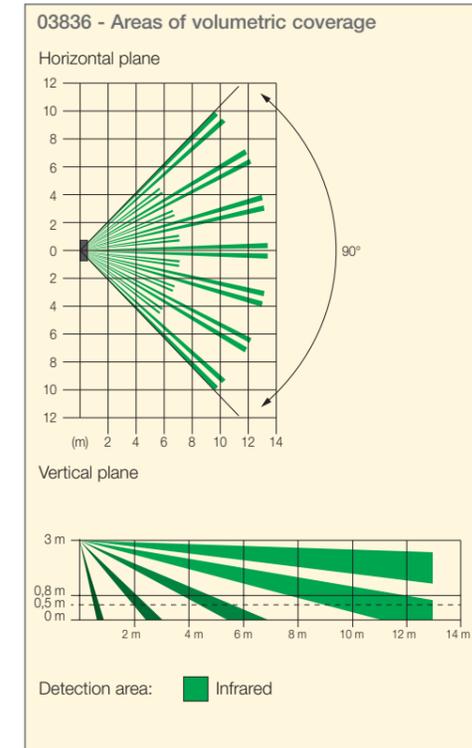
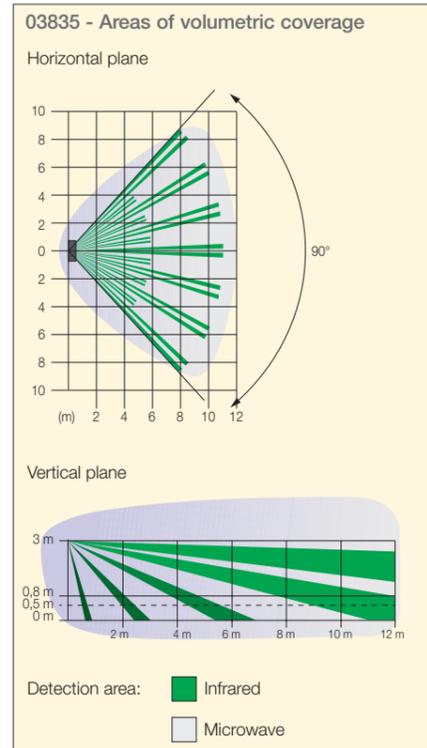
Surface mounting indoor detectors, 868 MHz radio frequency



**03835**  
Dual technology passive infrared + microwave detector, PET immune, power supply with 3V CR17450 lithium battery included, white

**03836**  
Passive infrared detector, PET immune, power supply with 3V CR17450 lithium battery included, white

**03837**  
Curtain-effect detector, power supply with 3 V CR17450 lithium battery included



## Absorptions and dimensions

## BUS devices

Code	Description	Power input	Dimensions
03817	LED keypad with display	80 mA	140.3x150.3x21.6 mm (LxHxD)
03818	LED keypad with display and transponder actuator		
03826	BUS outdoor siren	20 mA (stand-by) - 150 mA with internal battery charging	218x237x54.8 mm (LxHxD)
03808	5-terminal input/output expansion board	20 mA	58.9x106.9x22 mm (LxHxD)
03819	5-terminal input/output expansion module	20 mA	80x126x27 (LxHxD)
03809	1-relay interface board	30 mA	46x34x21.9 mm (LxHxD)
03810	GSM communicator module	70 mA (stand-by) - 540 mA max (during call)	108x67x23.5 mm (LxHxD)
03820	GSM communicator module, protected enclosure	70 mA (stand-by) - 540 mA max (during call)	110.5x193.9x29 mm (LxHxD)
03813	Voice synthesis module	20 mA	20x20x11.7 mm (LxHxD)
03824	1-module actuator for EIKON, LINEA, ARKÉ and PLANA	20 mA (without key) - 50 mA (with key)	22.4x43x35.7 mm (LxHxD)
03831	Radio frequency transceiver interface	from 30 mA to 50 mA	126.8x126.8x34.9 mm (LxHxD)
03832	Radio frequency transceiver interface board	from 30 mA to 50 mA	102.6x122.6x21.5 mm (LxHxD)
03840	Radio repeater	from 30 mA to 50 mA - Buffer battery: 4 x 1.5 V AA alkaline batteries	126.8x126.8x34.9 mm (LxHxD)

## Stand-alone devices

Code	Description	Power supply absorptions and voltages	Dimensions
03827	Wired outdoor siren	140 mA (stand-by) - 220 mA (during operation), 13.8 VDC Battery that can be accommodated: 12 VDC 2.1 Ah flammability class UL94-HB	218x237x54.8 mm (LxHxD)
20496...	EIKON indoor siren	18 mA (stand-by) - 110 mA (during acoustic alarm signalling), 12 VDC	67.3x49x46.5 mm (LxHxD)
30526...	LINEA indoor siren		67.2x49x47.9 mm (LxHxD)
19496...	ARKÉ indoor siren		67.2x49x47.9 mm (LxHxD)
14496...	PLANA indoor siren		67.3x49x46.5 mm (LxHxD)
20479...	EIKON IR+microwave presence detector	15 mA (disarmed) - 28 mA max, 12 VDC	44.8x49x43.5 mm (LxHxD)
30529	LINEA IR+microwave presence detector		44.7x52.8x43.6 mm (LxHxD)
19479...	ARKÉ IR+microwave presence detector		44.7x49x43.5 mm (LxHxD)
14479...	PLANA IR+microwave presence detector		44.8x49x43.5 mm (LxHxD)
01720	Surface mounting PET immune presence detector	30 mA (stand-by) - 40 mA max, 12 VDC	60.9x115.9x93.3 mm (LxHxD)
01721	Surface mounting presence detector without anti-crawl	40 mA max, 12 VDC	110x26x31 mm (LxHxD)
01722	Surface mounting curtain-effect presence detector	40 mA max, 12 VDC	110x26x31 mm (LxHxD)
01723	Surface mounting curtain-effect presence detector, IP54	60 mA (stand-by) - 70 mA max, 12 VDC	71.5x155.7x103 mm (LxHxD)
01739	Surface mounting curtain-effect presence detector, 12 m+12 m, PET immune, IP55	38 mA max, 10-28 VDC	55x233x69 mm (LxHxD)
01740	Surface mounting curtain-effect presence detector, PET immune	20 mA max, 9.5-18 VDC	35x155x42.5 mm (LxHxD)
01741	IR detector 12+12 m, PET immune, IP55	34 mA, 12 VDC	92,8x200,7x53 (LxAxP)
01742	DT detector, PET immune, IP55	30 mA, 12 VDC	78x145,5x60,6 (LxAxP)
01743	IR barrier 60 m, IP65	10,5-28 VDC	65x170x69,5 (LxAxP)
01724	Floor water detector	3.5 mA (rated) - 5 mA max, 12 VDC rated (5 ÷ 16 VDC)	51.7x16x12 mm (LxHxD)
03822	Isolator/repeater for BUS	110 mA, 9.5-15 VDC	126.1x80.1x27 mm (LxHxD)
03823	Isolator/repeater for BUS with power supply unit	130 mA, 9.5-15 VDC	171.3x80.1x27.5 mm (LxHxD)
03812	IP/LAN (Ethernet) gateway	200 mA max, power supply voltage from control unit	107.2x73.7x24.8 mm (LxHxD)

## Radio frequency devices

Code	Description	Power supply	Dimensions
03839	RF remote control	3 V CR2032 lithium battery (average battery life 3 years)	31.35x86.4x15.2 mm (LxHxD)
03830	RF outdoor siren	See the device instructions sheet	218x237x54.8 mm (LxHxD)
03833.B 03833.M	RF magnetic detector for doors and windows	1.5 V LR6 AA alkaline battery (average battery life 4 years)	Sensor 25.8x109.6x26.5 mm (LxHxD) Magnet 12.9x26.1 mm (LxH)
03834	Magnetic contact and shock/tilt sensor	3 V CR2 lithium battery	Sensor 35x58x23 mm (LxHxD) Magnet 13x40x14 mm (LxHxD)
03835	RF passive infrared+ microwave presence detector	3 V CR17450 lithium battery (average battery life 3 years)	60.2x120.5x47.6 mm (LxHxD)
03836	RF passive infrared RF presence detector	3 V CR17450 lithium battery (average battery life 3 years)	60.2x120.5x47.6 mm (LxHxD)
03837	RF curtain-effect detector	3 V CR17450 lithium battery (average battery life 3 years)	138.1x35.2x34.3 mm (LxHxD)

## Control unit specifications

Control unit	03800	03801	03801
<b>Standard specifications</b>			
<b>Entry/exit zones</b>	10 (expandable to 25)	10 (expandable to 65)	10 (expandable to 125)
	With single, double or triple balancing (with sensor masking recognition)		
<b>Programmable relay outputs</b>	1		
<b>Programmable 12 V outputs</b>	3		
<b>Open-collector outputs</b>	2		
<b>Areas</b>	5 max	10 max	20 max
	inputs that can be associated with areas in order to manage 20 different subsystems		
<b>Central programming</b>	From PC and By-alarm Plus Manager 1.3 software (for Windows operating systems). Using a USB connection from either a local or remote network via the gateway art. <b>03812</b>		
<b>Codes</b>	1 installer code		
	50 user codes	100 user codes	200 user codes
<b>Activation</b>	5 arming/disarming modes for each area (TOTAL, PARTIAL A, PARTIAL B, ... PARTIAL D). Areas can be armed/disarmed on recognising the user PIN, transponder key or remote control, or from a text message. Programmable time switch for arming/disarming areas		
<b>Clock</b>	Weekly clock with a total of 32 operations per week for automation/auto-arming with exception management. Possibility of switching on and off, code and keypad restriction and macro activation. Timed and status-based activation of active outputs		
<b>Telephone alerts</b>	Voice synthesis module art. <b>03813</b> with voice protocol for automatic communication in order to send all alarm and control panel functions to private users. Communicator art. <b>03810</b> or art. <b>03820</b> to send all the protocols over a GSM network and all control unit alarm and control functions via text messages		
<b>Radio system</b>	868 Mhz transceivers art. <b>03831</b> or art. <b>03832</b> with antenna-diversity (2 antennas) and frequency-hopping. OTA (Over the air) updates.		
<b>Connection distance between the control unit inputs and sensors/contacts</b>	100 m max		
<b>BUS length</b>	600 m max (sum of all laid BUS cable sections). Another 600 m is possible with the isolator/repeater module art. <b>03822</b> or art. <b>03823</b>		
<b>Power supply</b>	230 V 50/60 Hz with power supply unit art. <b>03805</b> for 13 VDC 3.2 A or art. <b>03806</b> for 13 VDC 6.2 A		
<b>Environmental conditions</b>	-10° C/+40° C, maximum humidity 75% non-condensing		
<b>Enclosure</b>	In plastic box art. <b>03814</b> for surface mounting (supplied in kit versions). In metal box art. <b>03815</b> for surface mounting. In switchboard adaptor box art. <b>03816</b> for flush mounting in conjunction with boxes art. <b>V53324</b> or art. <b>V53724</b>		
<b>Security class</b>	IMQ Grade 3 certification for the wired system. IMQ Grade 2 certification for the system via radio. (EN 50131-3, EN 50131-6).		
<b>Environment class</b>	II (EN 50131-3, EN 50131-6)		
<b>Additional components</b>	Up to 20 keypads art. <b>03817</b> or art. <b>03818</b> (version with transponder)		
<b>Control keypads</b>	Can be connected to the BUS, with direct indication via power supply, system and fault LEDs		
<b>Sirens</b>	Up to 5 art. <b>03826</b> can be connected to the BUS or 1 wired siren art. <b>03927</b> or 1 radio outdoor siren art. <b>03830</b>		
<b>Actuators</b>	Up to 20 actuators art. <b>03824</b> , can be connected to the BUS		
<b>Expansions</b>	Up to 50 art. <b>03819</b> or art. <b>03808</b> with 5 terminals and single, double or triple balancing (with sensor masking recognition) can be connected to the BUS. Up to 5 radio frequency transceivers art. <b>03831</b> or art. <b>03832</b> , can be connected to the BUS. Up to 4 repeaters art. <b>03840</b> can be connected in cascade to extend the radio signal		
<b>Relay interface</b>	Art. <b>03809</b> to convert an open-collector output from an expansion or control unit zone into a volt-free contact		
<b>Communicators</b>	1 art. <b>03810</b> or art. <b>03820</b>		
<b>Isolators</b>	5 art. <b>03822</b> or art. <b>03823</b>		
<b>Batteries</b>	12 VDC 7 Ah lead battery for installation in box art. <b>03814</b> , art. <b>03815</b> and art. <b>03816</b> . 12 VDC 18 Ah lead battery for installation in box art. <b>03815</b>		

Index

---

By-alarm Plus

37

**Elvox CCTV**

**59**

**Elvox TVCC**

Typical systems	68
DORI system	70
IP product range	71
AHD product range	94
Wi-Fi special cameras	114

### CCTV system supervision with CVM CCTV Manager software.

**OPERATING SYSTEM REQUIREMENTS**

- Windows 7 SP1 32 bit/64 bit Professional/Ultimate or above
- Windows 8 32 bit/64 bit Professional or above
- Windows 10 32 bit/64 bit Professional or above

**HARDWARE REQUIREMENTS**

- Intel(R) Core (TM) i5 7500 3.0Ghz CPU or above
- 4 GB DDR3 memory or above
- HDD SATA 500 GB or above
- Independent graphics board; NV GT430, AMD HD6570 or higher, GDDR5 512 MB or higher
- 1000 Mbps network card or above

**INSTALLATION EXAMPLE**

For up to **64 devices** (XVR/NVR/IP cameras) and up to **256 video streams**. With the new **H.265+** and **H.265S** video compression standards, archiving capacity has increased for the same storage and video signal transmission smoothness. NVR integrate the **combined video analysis events** function, which generates alarms by combining two different simultaneous events that can be selected from the video analysis functions and alarm input (physical contact) to limit false alarms.

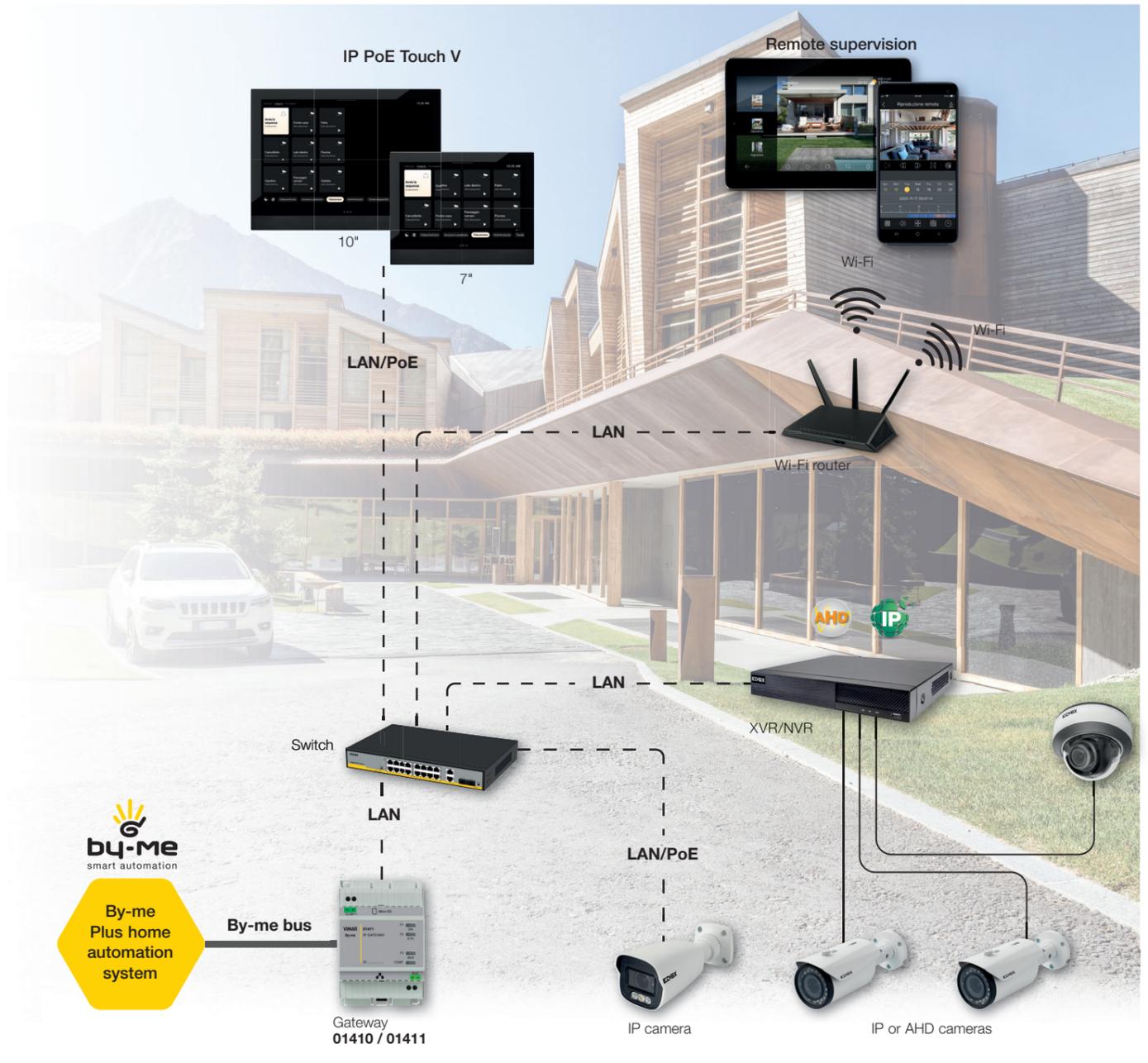


### Integration with By-me Plus.

The **CCTV** system with both **analogue AHD or digital IP technology** integrates natively into the Vimar View IoT Smart Systems platform, without the need to install a specific gateway (except for the XVR for AHD cameras). For stand-alone IP cameras (not connected to XVR/NVR) and for IP/AHD cameras connected to NVR/XVR, integration makes it possible to view live streaming. These functions are available both locally and remotely via the View app. To use all the main DVR/NVR management functions on touch screens, the **dedicated CCTV function** can be activated from the customise/application management menu available for By-camera mobile devices. Integration is not just sharing the user interface, but also applies to the various subsystems, for instance the cameras in the CCTV system can be associated with zones of the By-alarm Plus burglar alarm system (where present) to allow video checking in the event of an alarm. This ensures all-round comfort.

**INSTALLATION EXAMPLE**

Integrating the By-me Plus system with Elvox CCTV



## DORI system.

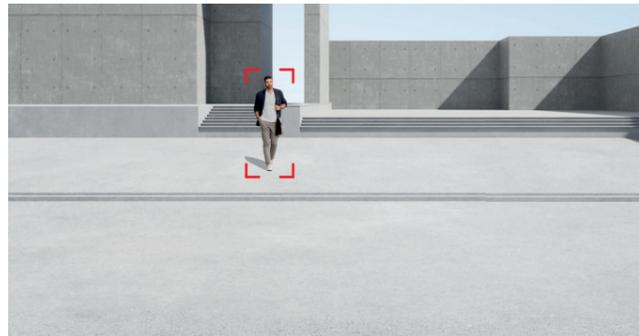
The **DORI system** (which is based on the International IEC EN62676-4: 2015 Standard) defines the various levels of detail in relation to specific recording needs, simplifying the selection of video surveillance cameras suited to individual needs or to the type of installation, the reference value is measured in **Pixel Per Metre** (PPM) which varies according to the recording distance and the camera lens and sensor combination; it is divided into 4 classes:

- **Detection** (- 25 PPM), designed to determine the presence of a person or a vehicle in the scene;
- **Observation** (- 62 PPM), designed to provide further details about the subject being recorded, such as the type of clothing worn, without neglecting the surrounding area;
- **Recognition** (- 125 PPM), designed to determine with great accuracy whether a subject being recorded is the same as someone already seen beforehand;
- **Identification** (- 250 PPM), designed to identify a person without any doubt.

### Detection



### Observation



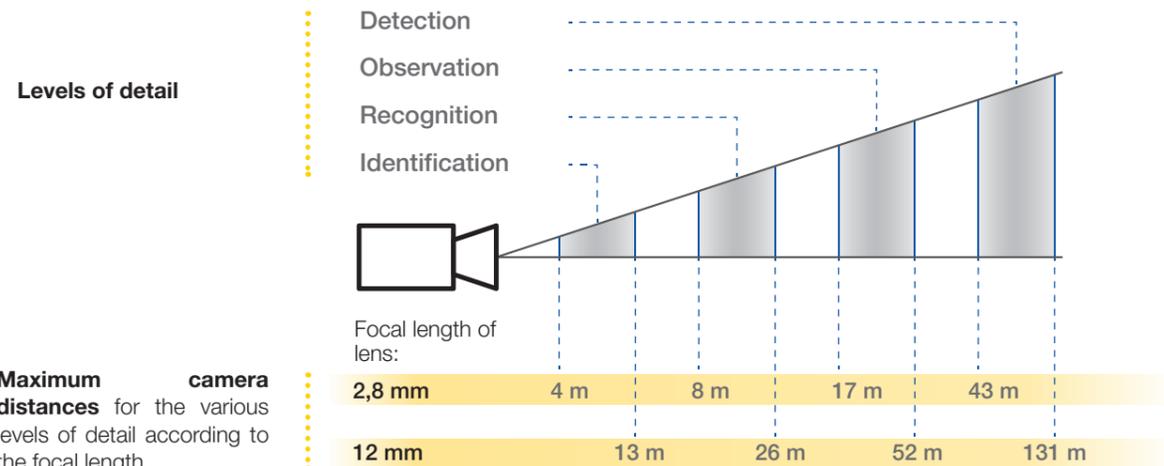
### Recognition



### Identification



SAMPLE GRAPH WITH DORI SYSTEM PARAMETERS



Maximum camera distances for the various levels of detail according to the focal length



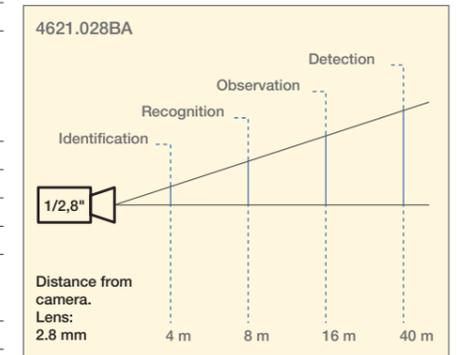
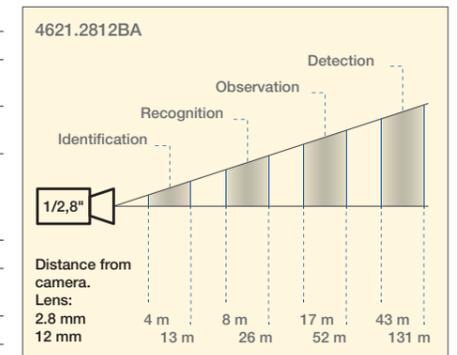
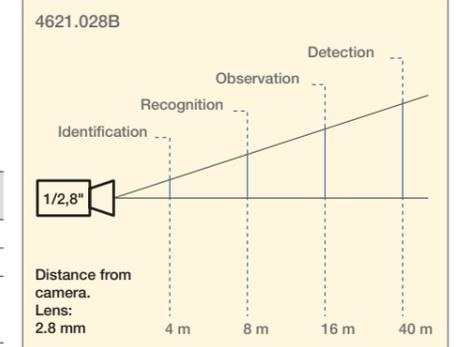
## Bullet IP 2 Mpx cameras



Code	Δ 4621.028B	Δ 4621.2812BA	4621.2812LPR motor-driven
Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Resolution	<b>2 Mpx</b> - 1920 x 1080	<b>2 Mpx</b> - 1920 x 1080	<b>2 Mpx</b> - 1920 x 1080
Sensitivity	0.0035 lux @F1.2, AGC ON; 0 lux (IR LED ON)	<b>0.008 lux</b> @F1.6, AGC ON; 0 lux (IR LED ON)	<b>0.005 lux</b> @F1.6, AGC ON; 0 lux (IR LED ON)
Video compression	H.264, H.265, MJPEG	H.264, H.265, H.265+, MJPEG	H265+, H265, H264+, H264, MJPEG
Day & night	ICR	ICR	ICR
Lens	2.8 mm @ F1.6 (105°)	2.8-12 mm @ F1.6 (102°-33°)	2.8-12 mm @ F1.6 (103°-32°)
Primary frame rate	25 Fps (1920 x 1080) 25 Fps (1280 x 720)	25 Fps (1920 x 1080) 25 Fps (1280 x 720)	30 Fps (1080p, 720p) <b>60 Fps (1080p, 720p) **</b>
Secondary frame rate	25 Fps (704 x 576) 25 Fps (480 x 240) 25 Fps (352 x 288)	25 Fps (704 x 576) 25 Fps (640 x 480) 25 Fps (352 x 288)	30 Fps (1280 x 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)
Bit Rate	64 Kbps ~ 6 Mbps	128 kbps ~ 4 Mbs	64 Kbps ~ 6 Mbps
SD card	<b>Yes, not included (128 GB max)</b>	<b>Yes, not included (256GB max)</b>	<b>Yes, not included (256GB max)</b>
In / out audio	1/0	1/0	1/1
In / out alarm	0/0	0/0	1/1
CVBS video output	No	No	Yes
Smart video analysis	<b>Video anomaly, line crossing, abandoned or removed object, area intrusion</b>	<b>Video anomaly, line crossing, abandoned or removed object, area intrusion</b>	<b>Number plate reading</b>
Functions	3D-DNR, motion, HLC, BLC	3D-DNR, motion, HLC, BLC	3D-DNR, motion, HLC, BLC
WDR	Digital WDR (90 dB)	Digital WDR (90 dB)	Digital WDR (90 dB)
ROI	8	8	8
Zone Privacy	4	4	4
Supported browsers	Internet Explorer, Edge (IE compatibility)	Internet Explorer, Edge, Firefox, Chrome and Safari	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control
Smart IR	20 - 30 m	20 - 30 m	50 - 70 m
IP degree	IP67	IP67	IP67
Temperature range	<b>-30°C / +60°C</b>	<b>-30°C / +60°C</b>	<b>-30° C / +60°C</b>
Power supply/consumption	12 Vdc 290 mA, 3.5 W IEEE802.3af PoE	12 Vdc 580 mA, 7 W IEEE802.3af PoE	12 VDC 900 mA 11 W IEEE802.3af PoE
Dimensions mm	75 x 75 x 168	81 x 81 x 218	280 x 100 x 89
Weight (g)	435	680	1115
Pole bracket	46917.005	46917.005	46917.005
Contact box	46922.040	46922.040	46922.041
Notes	RTSP*, multi-stream. ONVIF compatible	RTSP*, multi-stream. ONVIF compatible	ONVIF compatible profile G S T- HTTP POST

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.  
\*\* HFR mode: capture every detail, can record to SD card with 2 Mpx resolution and high frame rates, up to 50 fps, ideal function for still images.

## DORI system parameters





Dome 2 Mpx IP cameras

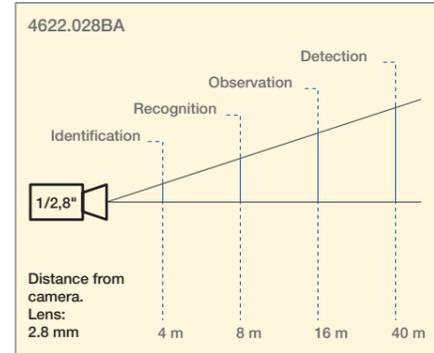


NDAA Built-in microphone

Code	▲ 4622.028BA
Sensor	1/2.8" CMOS
Resolution	2 Mpx - 1920 x 1080
Sensitivity	0.008 lux @F1.6, AGC ON; 0 lux (IR LED ON)
Video compression	H.264, H.265, H.265+, MJPEG
Day & night	ICR
Lens	2.8 mm @ F1.6 (107°)
Primary frame rate	25 Fps (1920 x 1080) 25 Fps (1280 x 720)
Secondary frame rate	25 Fps (704 x 576) 25 Fps (640 x 480) 25 Fps (352 x 288)
Bit Rate	128 Kbps ~ 4 Mbps
SD card	Yes, not included (256 GB max)
In / out audio	1/0 (built-in MIC)
In / out alarm	0/0
CVBS video output	No
Smart video analysis	Video anomaly, line crossing, abandoned or removed object, area intrusion
Functions	3D-DNR, motion, HLC, BLC
WDR	Digital WDR (90 dB)
ROI	8
Zone Privacy	4
Supported browsers	Internet Explorer, Edge, Firefox, Chrome and Safari
Smart IR	20 - 30 m
IP degree	IP67
Temperature range	-30°C / +60°C
Power supply/consumption	12 VDC 370 mA, 4.5 W IEEE PoE 802.3af
Dimensions mm	ø 95 x 83
Weight (g)	430
Contact box	46922.040
Notes	RTSP*, multi-stream. ONVIF compatible profile S.

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.

DORI system parameters



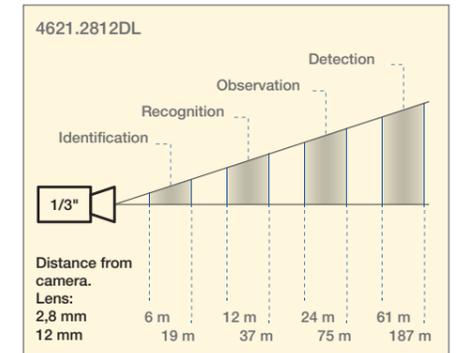
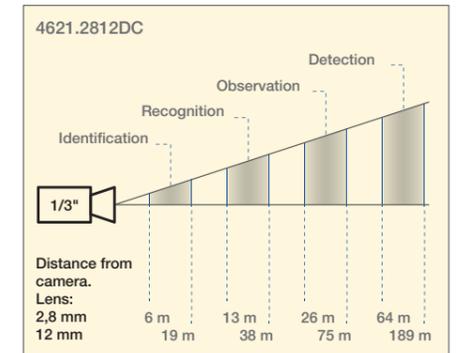
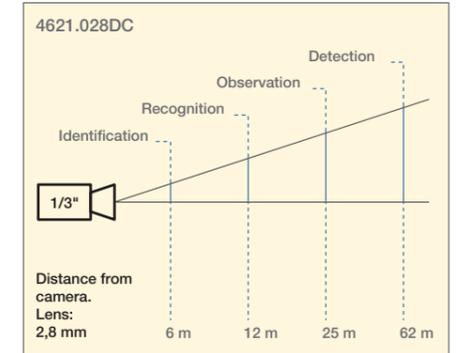
Bullet IP 4 Mpx cameras



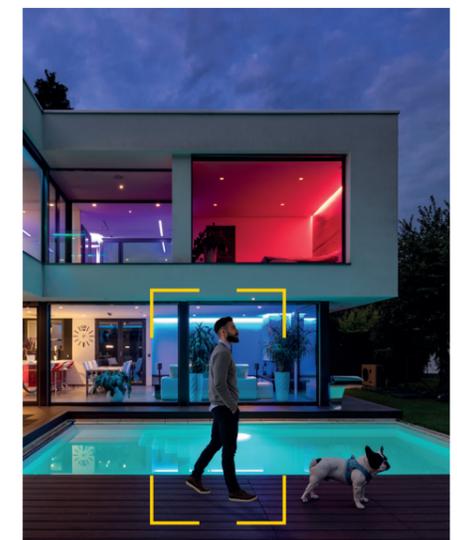
Code	4621.028DC	4621.2812DC motor-driven	▲4621.2812DL motor-driven
Sensor	1/3" CMOS	1/3" CMOS	1/2.9" CMOS
Resolution	4 Mpx - 2560 x 1440	4 Mpx - 2560 x 1440	4 Mpx - 2688x1520
Sensitivity	0.005 lux @F1.6, AGC ON; 0 lux (IR LED ON)	0.005 lux @F1.6, AGC ON; 0 lux (IR LED ON)	0.0005 lux @F1.0, AGC ON; 0 lux (IR LED ON)
Video compression	H.264, H.265, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.265+, H.265, H.264+, H.264, MJPEG
Day & night	ICR	ICR	ICR
Lens	2.8 mm @ F1.6 (94°)	2.8-12 mm @ F1.6 (92° - 31°) Motor-driven	2.8-12 mm @ F1.6 (101° - 33°) Motor-driven
Primary frame rate	25 Fps (2560 x 1440) 25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720)	25 Fps (2560 x 1440) 25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720)	25 Fps (2560 x 1440) 25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720)
Secondary frame rate	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)
Bit Rate	64 Kbps ~ 6 Mbps	64 Kbps ~ 6 Mbps	64 Kbps ~ 8 Mbps
SD card	Yes, not included (256 GB max)	Yes, not included (256 GB max)	Yes, not included (256 GB max)
In / out audio	1/0 (built-in MIC)	1/0 (built-in MIC)	1/0 (built-in MIC)
In / out alarm	0/0	0/0	0/0
CVBS video output	No	No	No
Smart video analysis	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, abandoned or removed object, area intrusion, enter area, exit area
Functions	WDR, Smart IR, 3D-DNR, Privacy Mask, Motion, HLC, BLC, SMD	WDR, Smart IR, ROI, 3D-DNR, Privacy Mask, Motion, HLC, BLC, SMD, Defog	WDR, ROI, 3D-DNR, mask, motion, HLC, BLC, defog, SMD
WDR	Real WDR (120 dB)	Real WDR (120 dB)	Real WDR (120 dB)
ROI	8	8	8
Zone Privacy	4	4	4
Supported browsers	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control
White light Smart IR	20 - 30 m	30 - 50 m	30 - 50 m (without IR)
IP degree	IP67	IP67	IP67
Temperature range	-30°C / +60°C	-30°C / +60°C	-30°C / +60°C
Power supply/consumption	12 VDC 330 mA, 4 W IEEE802.3af PoE	12 VDC 580 mA, 7 W IEEE802.3af PoE	12Vdc 750mA 9W IEEE802.3af PoE
Dimensions mm	75 x 75 x 168	81 x 81 x 218	81 x 81 x 218
Weight (g)	435	640	640
Pole bracket	46917.005	46917.005	46917.005
Contact box	46922.040	46922.040	46922.040
Notes	RTSP*, multi-stream. ONVIF compatible profile G M S T - HTTP POST	RTSP*, multi-stream. ONVIF compatible profile G M S T - HTTP POST	RTSP*, multi-stream. ONVIF compatible profile G M S T - HTTP POST

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.

DORI system parameters



Example





Bullet IP 4 Mpx cameras



7-22 mm

Color



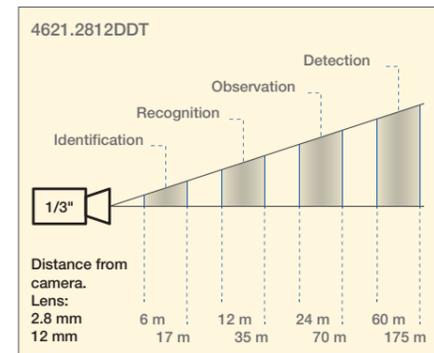
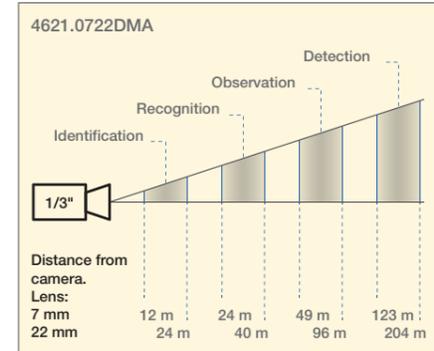
Deterrent effect

Code	4621.0722DMA	4621.2812DDT motorised
Sensor	1/3" CMOS	1/3" CMOS
Resolution	4 Mpx - 2592 x 1520	4 Mpx - 2592 x 1520
Sensitivity	0,005 lux @F1.6, AGC ON; 0 lux (IR LED ON)	0.03 lux @F1.6, AGC ON; 0 lux (IR LED ON)
Video compression	H.264, H.265, MJPEG	H.264, H.264+, H.264S, H.265, H.265+, H.265S, MJPEG
Day & night	ICR	ICR
Lens	7-22 mm @ F1.6 (42,5° - 16,7°)	2.8-12 mm @ F1.4 (93° - 30°) Motorised
Main frame rate	25 Fps (2592 x 1520) 25 Fps (2560 x 1440) 25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720) <b>50 Fps (1920 x 1080) **</b> <b>50 Fps (1280 x 720) **</b>	25 Fps (4 Mpx) 25 Fps (2K) 25 Fps (3 Mpx) 25 Fps (1920 x 1080) <b>50 Fps (1920 x 1080) **</b> <b>50 Fps (1280 x 720) **</b>
Secondary frame rate	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF)
Bit Rate	64 Kbps ~ 8 Mbps	64 Kbps ~ 8 Mbps
SD card	Si non inclusa (128 GB max)	Yes, not included (256 GB max)
In/Out audio	1/1	1/1 (built-in SPEAKER)
In/Out alarm	1/1	1/1
CVBS output video	Si	No
Intelligent video analysis	Anomalia video, attraversamento linea, intrusione area, entra nell'area, esci dall'area, conteggio veicoli/persone, riconoscimento volto	Video anomaly, line crossing, area intrusion, enter area, exit area
Functions	3D-DNR, motion, HLC, BLC	3D-DNR, motion, HLC, BLC, defog
WDR	Real WDR (120 dB)	Real WDR (120 dB)
ROI	8	8
Zone Privacy	4	4
Supported browsers	Internet Explorer, Edge (compatibilità IE)	Edge, Firefox, Chrome and Safari
Smart IR	70 - 100 m	30 - 40 m
IP degree	IP67	IP66
Temperature range	-30°C ~ +60°C	-30°C ~ +60°C
Power supply/consumptions	12 Vdc 840 mA, 10 W PoE IEEE802.3af	12 VDC 1 A, 12 W IEEE PoE 802.3af
Dimensions mm	100 x 89 x 280	81 x 81 x 218
Weight (g)	1'115	680
Pole bracket	46917.005	46917.005
Contact box	46922.041	46922.040
Notes	RTSP*, multi-stream. Compatible ONVIF profilo S.	RTSP*, multi-stream. ONVIF compatible profile S.

\* RTSP: funzione per collegamento diretto al sistema domotico By-me Plus, come telecamera aggiuntiva per impianti di videocitofonia IP o come videoverifica in app View con il sistema By-alarm Plus.

\*\* Modalità HFR: cogliere ogni dettaglio, consente di registrare su SD card in risoluzione 2 Mpx ad elevati fotogrammi, fino a 50 fps, funzione ideale per fermo-immagini.

DORI system parameters



Dome 4 Mpx IP cameras

Color



NDAA

Built-in microphone

Color



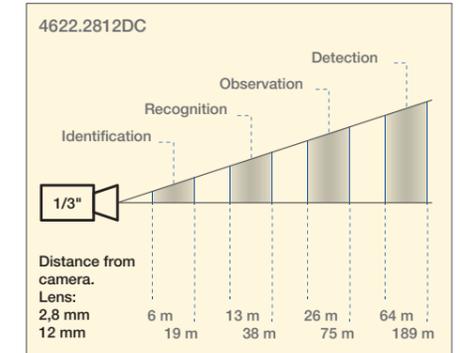
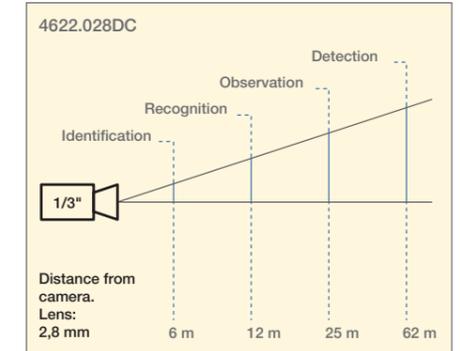
NDAA

Built-in microphone

Code	4622.028DC	4622.2812DC motor-driven
Sensor	1/3" CMOS	1/3" CMOS
Resolution	4 Mpx - 2560 x 1440	4 Mpx - 2560 x 1440
Sensitivity	0.005 lux @F1.6, AGC ON; 0 lux (IR LED ON)	0.004 lux @F1.6, AGC ON; 0 lux (IR LED ON)
Video compression	H.264, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG
Day & night	ICR	ICR
Lens	2.8 mm @ F1.6 (94°)	2.8 - 12 mm @ F1.6 (92° - 31°) Motor-driven
Primary frame rate	25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720)	25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720)
Secondary frame rate	25 Fps (1280 x 720) 25 Fps (704 x 576) 25 Fps (640 x 480) 25 Fps (352 x 288)	25 Fps (1280 x 720) 25 Fps (704 x 576) 25 Fps (640 x 480) 25 Fps (352 x 288)
Bit Rate	64 Kbps ~ 6 Mbps	64 Kbps ~ 6 Mbps
SD card	Yes, not included (256GB max)	Yes, not included (256GB max)
In / out audio	1/0 (built-in MIC)	1/0 (built-in MIC)
In / out alarm	0/0	0/0
CVBS video output	No	No
Smart video analysis	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, abandoned or removed object, area intrusion
Functions	WDR, smart IR, 3D-DNR, ROI, privacy mask, motion, HLC, BLC, SMD	WDR, smart IR, 3D-DNR, ROI, privacy mask, motion, HLC, BLC, SMD
WDR	Real WDR (120 dB)	Real WDR (120 dB)
ROI	8	8
Zone Privacy	4	4
Supported browsers	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control
Smart IR	20 - 30 m	30 - 50 m
IP degree	IP67	IP67
Temperature range	-30°C / +60°C	-30°C / +60°C
Power supply/consumption	12 VDC 330 mA, 4 W IEEE802.3af PoE	12 VDC 580 mA, 7 W IEEE802.3af PoE
Dimensions mm	ø 95 x 83	ø 112 x 100
Weight (g)	430	625
Contact box	46922.040	46922.041
Notes	RTSP*, multi-stream. ONVIF Profile G M S T Compatible - HTTP POST	RTSP*, multi-stream. ONVIF Profile G M S T Compatible

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.

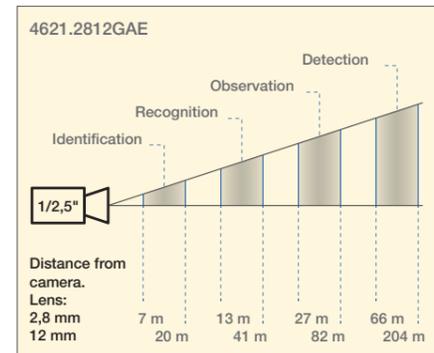
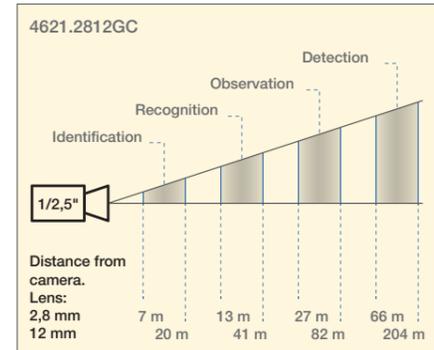
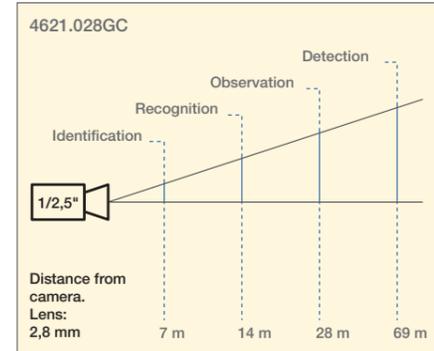
DORI system parameters



Bullet IP 6 Mpx cameras



DORI system parameters



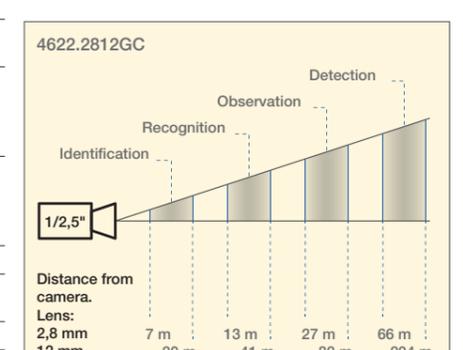
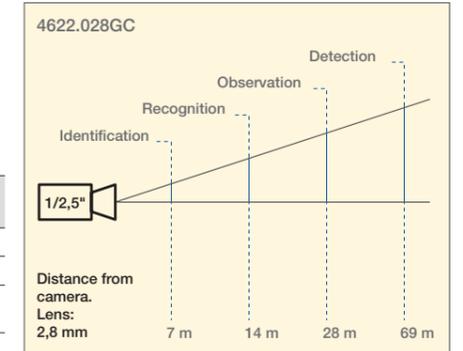
Code	4621.028GC	4621.2812GC motor-driven	4621.2812GAE motor-driven
Sensor	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS
Resolution	6 Mpx - 3200 x 1800	6 Mpx - 3200 x 1800	6 Mpx - 3296 x 1856
Sensitivity	0.008 lux @F1.6, AGC ON; 0 lux (IR LED ON)	0.007 lux @F1.6, AGC ON; 0 lux (IR LED ON)	0.008 lux @F1.6, AGC ON; 0 lux (IR LED ON)
Video compression	H.264, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG
Day & night	ICR	ICR	ICR
Lens	2.8 mm @ F1.6 (104°) Motor-driven	2.8-12 mm @ F1.6 (108° - 36°) Motor-driven	2.8-12 mm @ F1.6 (109° - 37°) Motor-driven
Primary frame rate	25 Fps (3200 x 1800) 25 Fps (2880 x 1624) 25 Fps (2688 x 1520) 25 Fps (1920 x 1080)	25 Fps (3200 x 1800) 25 Fps (2880 x 1624) 25 Fps (2688 x 1520) 25 Fps (1920 x 1080)	25 Fps (3296 x 1856) 25 Fps (3200 x 1800) 25 Fps (2880 x 1624) 25 Fps (2688 x 1520) 25 Fps (1920 x 1080)
Secondary frame rate	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)
Bit Rate	64 Kbps ~ 8 Mbps	64 Kbps ~ 8 Mbps	64 Kbps ~ 10 Mbps
SD card	Yes, not included (256GB max)	Yes, not included (256GB max)	Yes, not included (256GB max)
In / out audio	1/0 (built-in MIC)	1/0 (built-in MIC)	1/1 (built-in MIC)
In / out alarm	0/0	1/1	1/1
CVBS video output	No	No	Yes
Smart video analysis	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, abandoned or removed object, area intrusion, enter area, exit area, vehicle/person count, heat map, metadata, face recognition, crowd density, vagabond, illegal parking, audio anomaly
Functions	3D-DNR, motion, HLC, BLC, Defog	WDR, smart IR, ROI, 3D-DNR, mask, motion, HLC, BLC, SMD, Defog	3D-DNR, motion, HLC, BLC, defog
WDR	Real WDR (120 dB)	Real WDR (120 dB)	Real WDR (120 dB)
ROI	8	8	8
Zone Privacy	4	4	4
Supported browsers	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control	Internet Explorer, Edge, Firefox, Chrome and Safari
Smart IR	20 - 30 m	30 - 50 m	50 - 70 m
IP degree	IP67	IP67	IP67
Temperature range	-30°C / +60°C	-30°C / +60°C	-30°C / +60°C
Power supply/consumption	12 VDC 330 mA, 4 W IEEE802.3af PoE	12 VDC 670 mA, 8 W IEEE802.3af PoE	12 VDC 830 mA, 10 W IEEE802.3af PoE
Dimensions mm	75 x 75 x 168	81 x 81 x 218	280 x 100 x 89
Pole bracket	46917.005	46917.005	46917.005
Contact box	46922.040	46922.040	46922.041
Weight (g)	435	640	1115
Notes	RTSP*, multi-stream. ONVIF compatible profile S - HTTP POST	RTSP*, multi-stream. ONVIF compatible profile S - HTTP POST	RTSP*, multi-stream. ONVIF compatible profile S - HTTP POST

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.

Dome 6 Mpx IP cameras



DORI system parameters



Code	4622.028GC	4622.2812GC motor-driven
Sensor	1/2.5" CMOS	1/2.5" CMOS
Resolution	6 Mpx - 3200 x 1800	6 Mpx - 3200 x 1800
Sensitivity	0.008 lux @F1.6, AGC ON; 0 lux (IR LED ON)	0.008 lux @F1.6, AGC ON; 0 lux (IR LED ON)
Video compression	H.264, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG
Day & night	ICR	ICR
Lens	2.8 mm @ F1.6 (104°)	2.8-12 mm @ F1.6 (108° - 36°) Motor-driven
Primary frame rate	25 Fps (3200 x 1800) 25 Fps (2880 x 1624) 25 Fps (2688 x 1520) 25 Fps (1920 x 1080)	25 Fps (3200 x 1800) 25 Fps (2880 x 1624) 25 Fps (2688 x 1520) 25 Fps (1920 x 1080)
Secondary frame rate	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)
Bit Rate	64 Kbps ~ 8 Mbps	64 Kbps ~ 8 Mbps
SD card	Yes, not included (256GB max)	Yes, not included (256GB max)
In / out audio	1/0 (built-in MIC)	1/0 (built-in MIC)
In / out alarm	0/0	0/0
CVBS video output	No	No
QR CODE	Yes	Yes
Smart video analysis	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, abandoned or removed object, area intrusion
Functions	WDR, smart IR, 3D-DNR, ROI, privacy mask, motion, HLC, BLC, SMD	WDR, smart IR, 3D-DNR, ROI, privacy mask, motion, HLC, BLC, SMD
WDR	Real WDR (120 dB)	Real WDR (120 dB)
ROI	8	8
Zone Privacy	4	4
Supported browsers	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control
White light Smart IR	20 - 30 m	30 - 50 m
IP/IK degree	IP67	IP67
Temperature range	-30°C / +60°C	-30°C / +60°C
Power supply/consumption	12 VDC 330 mA, 4 W IEEE802.3af PoE	12 VDC 670 mA, 8 W IEEE802.3af PoE
Dimensions mm	ø 95 x 83	ø 112 x 100
Weight (g)	430	625
Contact box	46922.040	46922.041
Notes	RTSP*, multi-stream. ONVIF Profile G M S T Compatible - HTTP POST	RTSP*, multi-stream. ONVIF Profile G M S T Compatible - HTTP POST

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.



Dome and Mini Dome 6 Mpx IP cameras



NDAA Metadata  
Built-in microphone

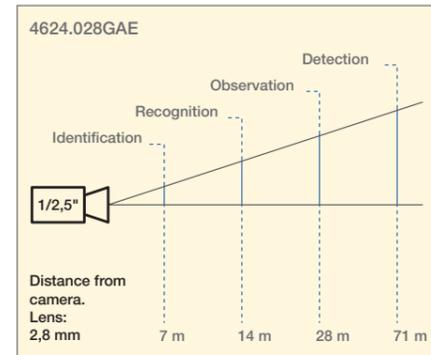
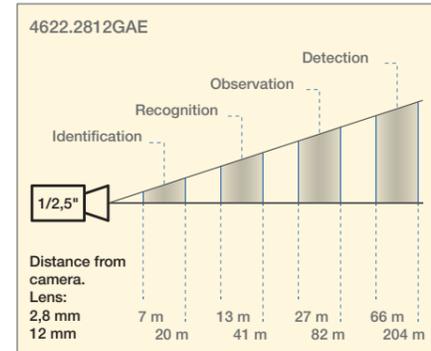


NDAA Metadata  
Built-in microphone

Code	4622.2812GAE	4624.028GAE
Sensor	1/2.5" CMOS	1/2.5" CMOS
Resolution	6 Mpx - 3296 x 1856	6 Mpx - 3296 x 1856
Sensitivity	0.008 lux @F1.4, AGC ON; 0 lux (IR LED ON)	0.008 lux @F1.6, AGC ON; 0 lux (IR LED ON)
Video compression	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.265, H.265+, MJPEG
Day & night	ICR	ICR
Lens	2.8-12 mm @ F1.6 (108° - 36°) Motor-driven	2.8 mm @ F1.6 (104°)
Primary frame rate	25 Fps (3296 x 1856) 25 Fps (3200 x 1800) 25 Fps (2880 x 1624) 25 Fps (2688 x 1520) 25 Fps (1920 x 1080)	25 Fps (3296 x 1856) 25 Fps (3200 x 1800) 25 Fps (2880 x 1624) 25 Fps (2688 x 1520) 25 Fps (1920 x 1080)
Secondary frame rate	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)	25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)
Bit Rate	64 Kbps ~ 8 Mbps	64 Kbps ~ 10 Mbps
SD card	Yes, not included (256GB max)	Yes, not included (256GB max)
In / out audio	1/1 (built-in MIC)	1/1 (built-in MIC)
In / out alarm	1/1	1/1
CVBS video output	Yes	No
QR CODE	Yes	Yes
Smart video analysis	Video anomaly, line crossing, abandoned or removed object, area intrusion, enter area, exit area, vehicle/person count, heat map, metadata, face recognition, crowd density, vagabond, illegal parking, audio anomaly	Video anomaly, line crossing, abandoned or removed object, area intrusion, enter area, exit area, vehicle/person count, heat map, metadata, face recognition, crowd density, vagabond, illegal parking, audio anomaly
Functions	3D-DNR, motion, HLC, BLC, defog	3D-DNR, motion, HLC, BLC, defog
WDR	Real WDR (120 dB)	Real WDR (120 dB)
ROI	8	8
Zone Privacy	4	4
Supported browsers	Internet Explorer, Edge, Firefox, Chrome and Safari	Internet Explorer, Edge, Firefox, Chrome and Safari
Smart IR	30 - 50 m	20 m
IP/IK degree	IP67 / IK10	IP66 / IK10
Temperature range	-30°C / +60°C	-30°C / +60°C
Power supply/consumption	12 VDC 750 mA, 9 W IEEE802.3af PoE	12 VDC 500 mA, 6 W IEEE802.3af PoE
Dimensions mm	ø 141 x 100	ø 110 x 62
Weight (g)	930	424
Pole bracket	46917.005	46917.005
Contact box	46922.042	46922.042
Notes	RTSP*, multi-stream. ONVIF compatible profile S. - HTTP POST	RTSP*, multi-stream. ONVIF compatible profile S. - HTTP POST

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.

DORI system parameters



Bullet IP 8 Mpx cameras



Color  
NDAA Built-in microphone  
4K

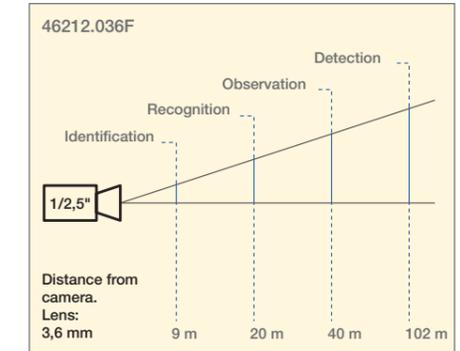
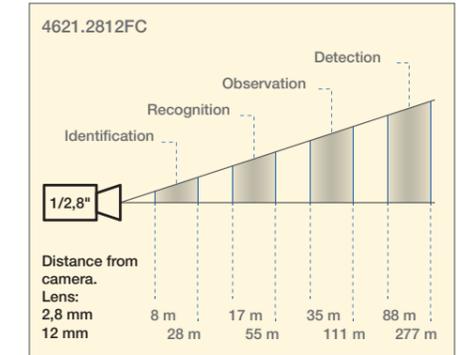
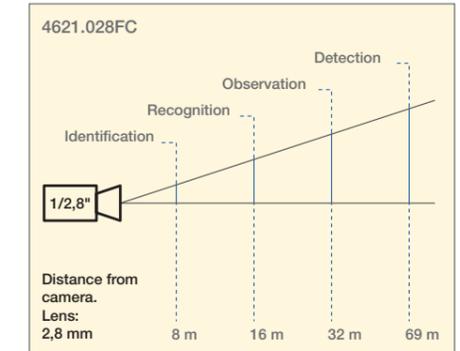


Color  
NDAA Built-in microphone  
4K

Code	4621.028FC	4621.2812FC motor-driven
Sensor	1/2.8" CMOS	1/2.8" CMOS
Resolution	8 Mpx - 3840 x 2160	8 Mpx - 3840 x 2160
Sensitivity	0.02 lux @F1.6, AGC ON; 0 lux (IR LED ON)	0.02 lux @F1.6, AGC ON; 0 lux (IR LED ON)
Video compression	H.264+, H.264, H.265, H.265+, MJPEG	H.264+, H.264, H.265, H.265+
Day & night	ICR	ICR
Lens	2.8 mm @ F1.6 (106°)	2.8-12 mm @ F1.6 (97° - 34°) Motor-driven
Primary frame rate	20 Fps (3840 x 2160) 25 Fps (2560 x 1440) 25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720)	20 Fps (3840 x 2160) 25 Fps (2560 x 1440) 25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720)
Secondary frame rate	25 Fps (1920 x 1080) 25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)	25 Fps (1920 x 1080) 25 Fps (1280 x 720) 25 Fps (D1) 25 Fps (CIF) 25 Fps (480 x 240)
Bit Rate	64 Kbps ~ 12 Mbps	64 Kbps ~ 12 Mbps
SD card	Yes, not included (256 GB max)	Yes, not included (256 GB max)
In / out audio	1/0 (built-in MIC)	1/0 (built-in MIC)
In / out alarm	0/0	0/0
CVBS video output	No	No
Smart video analysis	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, abandoned or removed object, area intrusion
Functions	WDR, Smart IR, 3D-DNR, ROI, Privacy Mask, Motion, HLC, BLC, SMD	WDR, Smart IR, 3D-DNR, ROI, Privacy Mask, Motion, HLC, BLC, SMD
WDR	Real WDR (120 dB)	Real WDR (120 dB)
ROI	8	8
Zone Privacy	4	4
Supported browsers	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control
White light Smart IR	30 - 50 m	30 - 50 m
IP degree	IP67	IP67
Temperature range	-30°C / +60°C	-30°C / +60°C
Power supply/consumption	12 VDC 500 mA, 6 W IEEE802.3af PoE	12 VDC 500 mA, 6 W IEEE802.3af PoE
Dimensions (mm)	80 x 80 x 218	80 x 80 x 218
Weight (g)	640	640
Pole bracket	46917.005	46917.005
Contact box	46922.040	46922.040
Notes	RTSP*, multi-stream. ONVIF compatible profile G M S T - HTTP POST	RTSP*, multi-stream. ONVIF compatible profile G M S T - HTTP POST

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.

DORI system parameters



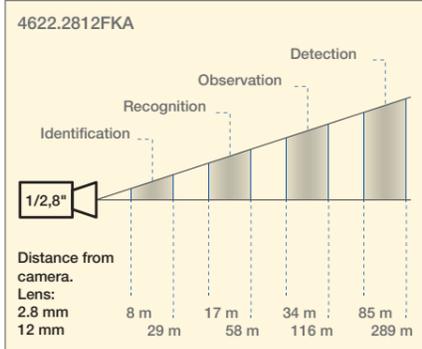
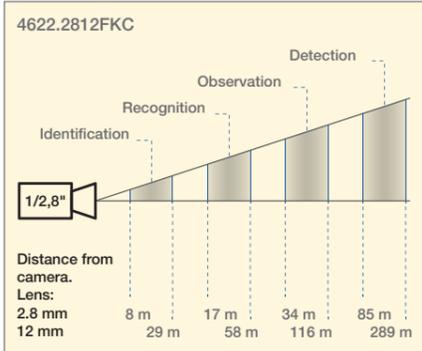
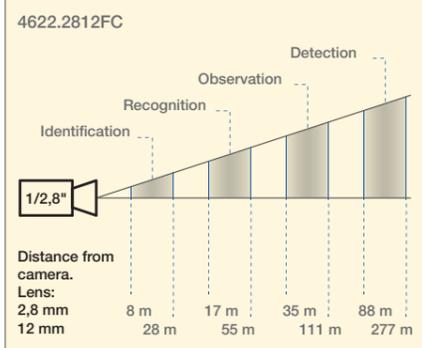
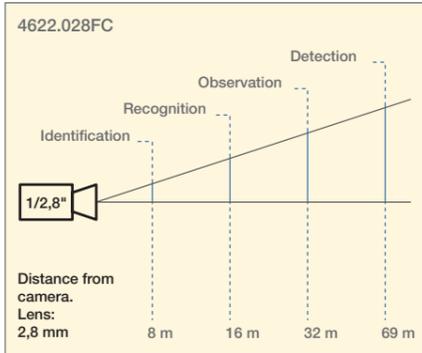
Dome 8 Mpx IP cameras



Code	4622.028FC	4622.2812FC motor-driven	4622.2812FKC motor-driven	4622.2812FKA motor-driven
Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Resolution	8 Mpx - 3840 x 2160			
Sensitivity	0.02 lux @F1.6, AGC ON; 0 lux (IR LED ON)	0.02 lux @F1.6, AGC ON; 0 lux (IR LED ON)	0.02 lux @F1.6, AGC ON; 0 lux (IR LED ON)	0.02 lux @F1.6, AGC ON; 0 lux (IR LED ON)
Video compression	H.264, H.265+, H.265, H.265+, MJPEG	H.264, H.265+, H.265, H.265+, MJPEG	H.265+, H.265, H.264+, H.264, MJPEG	H.264, H.265, H.265+, MJPEG
Day & night	ICR	ICR	ICR	ICR
Lens	2.8 mm @ F1.6 (106°)	2.8 - 12 mm @ F1.6 (97° - 34°) motor-driven	2.8-12 mm @ F1.6 (97° - 36°) motor-driven	2.8-12 mm @ F1.6 (102° - 32°) motor-driven
Primary frame rate	20 Fps (3840 x 2160) 25 Fps (3072 x 2048) 25 Fps (2592 x 1944) 25 Fps (2592 x 1520) 25 Fps (2560 x 1440) 25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720)	20 Fps (3840 x 2160) 25 Fps (3072 x 2048) 25 Fps (2592 x 1944) 25 Fps (2592 x 1520) 25 Fps (2560 x 1440) 25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720)	20 Fps (3840 x 2160) 25 Fps (3072 x 2048) 25 Fps (2592 x 1944) 25 Fps (2592 x 1520) 25 Fps (2560 x 1440) 25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720)	20 Fps (3840 x 2160) 25 Fps (3072 x 2048) 25 Fps (2592 x 1944) 25 Fps (2592 x 1520) 25 Fps (2560 x 1440) 25 Fps (2304 x 1296) 25 Fps (1920 x 1080) 25 Fps (1280 x 720)
Secondary frame rate	25 Fps (1280 x 720) 25 Fps (704 x 480) 25 Fps (480 x 240)	25 Fps (1280 x 720) 25 Fps (704 x 480) 25 Fps (480 x 240)	25 Fps (1280 x 720) 25 Fps (704 x 480) 25 Fps (480 x 240)	25 Fps (1280 x 720) 25 Fps (704 x 480) 25 Fps (480 x 240)
Bit Rate	64 Kbps ~ 12 Mbps			
SD card	Yes, not included (256 GB max)	Yes, not included (128 GB max)	Yes, not included (256GB max)	Yes, not included (256GB max)
In / out audio	1/0 (built-in MIC)	1/0 (built-in MIC)	1/0 (built-in MIC)	1/1 (built-in MIC)
In / out alarm	0/0	0/0	0/0	1/1
CVBS video output	No	No	No	Yes
Smart video analysis	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, area intrusion	Video anomaly, line crossing, area intrusion
Functions	WDR, smart IR, 3D-DNR, ROI, privacy mask, motion, HLC, BLC, SMD	WDR, smart IR, 3D-DNR, ROI, privacy mask, motion, HLC, BLC, SMD	Real WDR, smart IR, ROI, 3D-DNR, mask, SMD, HLC, BLC, Defog	3D-DNR, motion, HLC, BLC, defog, corridor
WDR	Real WDR (120 dB)			
ROI	8	8	8	8
Zone Privacy	4	4	4	4
Supported browsers	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control	Internet Explorer, Edge (IE compatibility)
Smart IR	20 - 30 m	30 - 50 m	30 - 50 m	30 - 50 m
IP/IK degree	IP67	IP67	IP67 / IK10	IP67 / IK10
Temperature range	-30°C / +60°C	-30°C / +60°C	-30°C / +60°C	-30°C / +60°C
Power supply/consumption	12 VDC 500 mA, 6 W IEEE802.3af PoE	12 VDC 750 mA, 9 W IEEE802.3af PoE	12 Vdc 830 mA, 10 W IEEE802.3af PoE	12 Vdc 700 mA, 8.4 W IEEE802.3af PoE
Dimensions (mm)	ø 95 x 83	ø 112 x 100	ø 141 x 100	ø 141 x 100
Weight (g)	430	625	930	930
Contact box	46922.040	46922.041	46922.042	46922.042
Notes	RTSP*, multi-stream. ONVIF Profile G M S T Compatible - HTTP POST	RTSP*, multi-stream. ONVIF Profile G M S T Compatible - HTTP POST	RTSP*, multi-stream. ONVIF compatible profile S T G M - HTTP POST	RTSP*, multi-stream. ONVIF compatible

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.

DORI system parameters



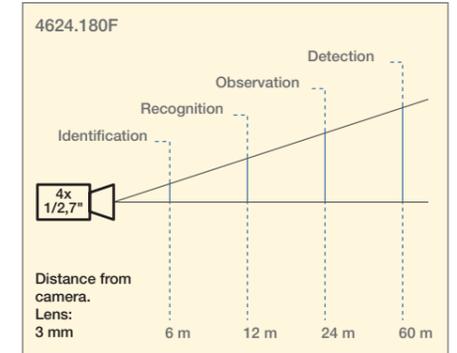
Special cameras



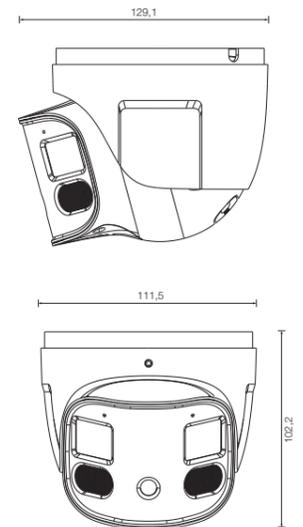
Code	4624.180F
Sensors	1/2.7" CMOS
Resolution	2 x 4 Mpx - 4640 x 1760
Sensitivity	0.0032 lux @F1.6, AGC ON; 0 lux (IR LED ON)
Video compression	H.264, H.265, H.265+, MJPEG
Day & night	ICR
Lens	2 x 3 mm @ F1.6 (180°)
Primary frame rate	25 Fps 4640x1760 25 Fps 3632x1632 25 Fps 3200x1200
Secondary frame rate	25 Fps 2048x768 25 Fps 1920x720 25 Fps 1200x448
Bit Rate	64 Kbps ~ 10 Mbps
SD card	Yes, not included (256 GB max)
In / out audio	1/1 (built-in the microphone and speaker)
In / out alarm	1/1
CVBS Video Output	No
Smart video analysis	Video anomaly, line crossing, abandoned or removed object, area intrusion
Functions	WDR, smart IR, 3D-DNR, ROI, Privacy Mask, Motion, HLC, BLC, SMD
WDR	DWDR (90 dB)
ROI	8
Zone Privacy	4
Supported browsers	Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control
Smart IR	20 m
IP/IK degree	IP66
Temperature range	-30°C / +60°C
Power supply/consumption	12 VDC - 830 mA 10 W IEEE PoE 802.3 af
Dimensions mm	Ø 110 x 102
Weight (g)	680
Contact box	46922.041
Notes	Multi-stream. ONVIF compatible profile S T G M - HTTP POST

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.

DORI system parameters



Dimensions in mm (4624.180F)



Panoramic Camera (4624.180F)



180° panoramic shot



Special cameras

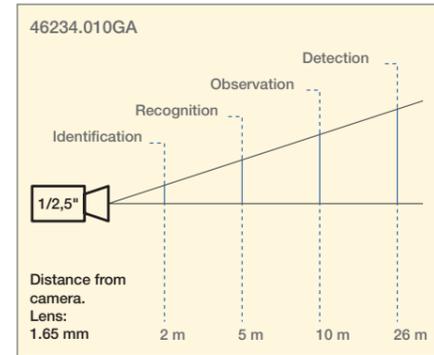


Viewing 360°  
NDA  
Built-in microphone

Code	46234.010GA
Sensor	1/2,5" CMOS
Resolution	6 Mpx - 3296 x 1856 (2160 x 2160 panoramica)
Sensitivity	0,01 lux @F2.0, AGC ON; 0 Lux (IR LED ON)
Video compression	H.264, H.265, H.265+, MJPEG
Day & night	ICR
Lens	1,65 mm @ F2 angolo di visione: 180° (parete) / 360° (soffitto)
Main frame rate	1) Fisheye+panorama+3 PTZ Fisheye view: 25 Fps (2160 x 2160/ 1440 x 1440) Panoramic view: 25 Fps (3200 x 1800/ 1920 x 1080) 3PTZ view: 25 Fps (1280 x 720) x 3 2) Fisheye+4 PTZ Fisheye view: 25 Fps (2160 x 2160/ 1440 x 1440) 4PTZ view: 25 Fps (960 x 540) x 4 3) Fisheye+4 PTZ Fisheye view: 25 Fps (2160 x 2160/ 1440 x 1440) 4PTZ fusion view: 25 Fps (960 x 540) x 4
Secondary frame rate	25 Fps (960 x 960) 25 Fps (480 x 480)
Bit Rate	64 kbps ~ 10 Mbps
SD card	Si non inclusa (256 GB max)
In/Out audio	1/1 (MIC integrato)
In/Out alarm	1/1
CVBS output video	Si
QR CODE	Si
Intelligent video analysis	Attraversamento linea, entra nell'area, esci dall'area, conteggio, mappa calore, densità folla
Functions	3D-DNR, motion, HLC, BLC
WDR	WDR (120 dB)
ROI	8
Zone Privacy	4
Supported browsers	Internet Explorer, Edge (compatibilità IE)
Smart IR	10 - 20 m
IP degree	IP67
Temperature range	-10° C ~ +50° C
Power supply/consumptions	12 Vdc 750 mA, 9 W PoE IEEE802.3af
Dimensions mm	ø 130 x 39
Weight (g)	432
Contact box	46922.019
Notes	RTSP*, multi-stream. Compatibile ONVIF profilo S.

\* RTSP: function for direct connection to the By-me Plus home automation system without the use of NVR or as an additional camera for IP video door entry systems.

DORI system parameters



Bracket for IP Fisheye camera



46922.019  
Bracket with contact box for IP Fisheye cameras for surface or ceiling mounting



Special camera - Thermal

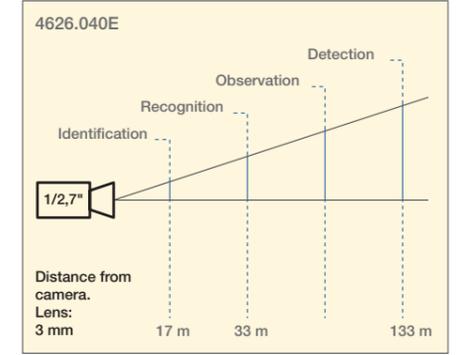


Thermal vision  
Deterrent effect

Code	▲4626.040E	
Optical module	Sensor	1/2,7" CMOS
	Resolution	2592x1944
	Lens	4 mm (81°)
Thermal module	Sensitivity	"0.02 lux@F1.6, AGC ON 0 lux IR LED ON"
	Sensor	12µm
	Resolution	256x192
	NETD	≤50mK (@25°C, F#=1.0)
Video compression	H.265 / H.264 / MJPEG	
	Day & night	ICR
Primary frame rate	Optical	25 Fps (2592 x 1944)
		25 Fps (2592 x 1520)
		25 Fps (2560 x 1440)
		25 Fps (1920 x 1080)
Secondary frame rate	Optical	25 Fps (720P)
		25 Fps (D1)
Thermal	25 Fps (CIF)	
	25 Fps (1280 x 720)	
Bit Rate	128Kbps ~ 8Mbps	
SD card	Yes, not included (256 GB max)	
In / out audio	1/0 (built-in Speaker)	
In / out alarm	1/1	
CVBS video output	No	
Smart video analysis	Optical	Abandoned object, Line crossing, Enter/Exit area, Intrusion, Counting line, Regional statistics, Vagabond, Illegal parking
	Thermal	Line crossing, Enter/Exit area, Intrusion
Functions	"WDR, smartIR, ROI, 2D/3DDNR, mask, motion, HLC, BLC, defog, Visual and sound alarm"	
WDR	Real (120dB)	
ROI	8	
Zone Privacy	4	
Supported browsers	"Browser IE, Google Chrome, Edge, Firefox, Safari, CMS for remote control"	
Smart IR	IR 20-30m	
IP / IK degree	IP66	
Temperature range	- 30°C ~ 60°C	
Power supply/consumption	"12 VDC 750 mA, 9 W IEEE PoE 802.3af	
Dimensions mm	81x81x218mm	
Weight (g)	640	
Contact box	46922.040	
Notes	"RTSP", multi-stream. ONVIF compatible profile G M S T" - HTTP POST	

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.

DORI system parameters



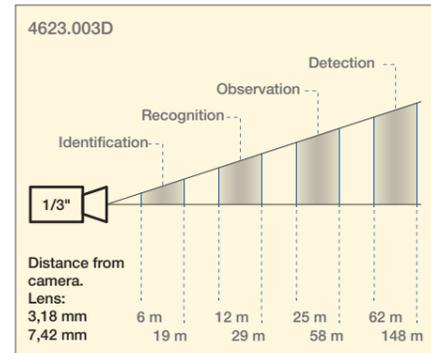
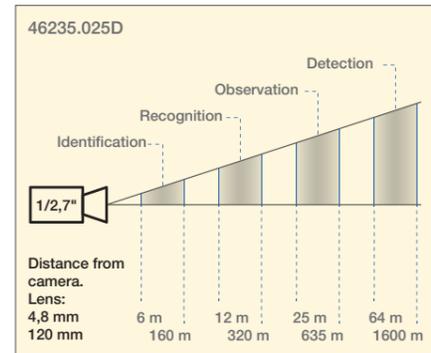
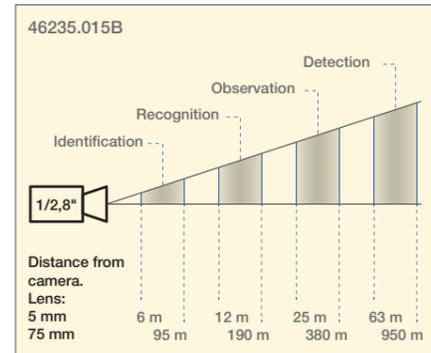
PTZ (Speed Dome) IP 2 and 4 Mpx cameras



Code	46235.015B	46235.025D	▲4623.003D
Sensor	1/2.8" CMOS	1/2.7" CMOS	1/2.7" CMOS
Resolution	<b>2 Mpx</b> - 1920 x 1080	<b>4 Mpx</b> - 2560 x 1440	<b>4 Mpx</b> - 2688 x 1520
Sensitivity	0.005lux (colour) / 0.001lux (B/W) @F1.6, AGC ON; 0 lux (IR LED ON)	0.01lux (colour) / 0.002lux (B/W) @F1.6, AGC ON; 0 lux (IR LED ON)	<b>0.02lux @F1.6</b> , AGC ON - B/W: <b>0.004Lux @F1.6</b> AGC ON - <b>0 lux IR LED ON</b>
Video compression	H.264, H.265, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H265+, H265, H264+, H264, MJPEG
Day & night	Auto / Manual / Timing	Auto / Manual / Timing	ICR
Lens	15x Optical Zoom (5 - 75 mm)	25x Optical Zoom (4.8 - 120 mm)	<b>3X Optical Zoom (3.18 - 7.42 mm)</b>
Viewing angle	54° Wide - 4° Tele	55° Wide - 2.4° Tele	113.6° Wide - 4.3° Tele
Primary frame rate	25 Fps (1920 x 1080)	25 Fps (2560 x 1440)	25 Fps (2688x1520)
	25 Fps (1280 x 720)	25 Fps (1920 x 1080)	25 Fps (2560x1440)
		25 Fps (1280 x 720)	25 Fps (2048x1536)
			25 Fps (1920x1080)
			25 Fps (1280x960)
Secondary frame rate	25 Fps (1280 x 720)	25 Fps (1280 x 720)	25 Fps (704x576)
	25 Fps (704 x 576)	25 Fps (704 x 576)	25 Fps (480x240)
	25 Fps (480 x 240)	25 Fps (480 x 240)	25 Fps (480x240)
	25 Fps (352 x 288)	25 Fps (352 x 288)	25 Fps (352x288)
			25 Fps (352x288)
Bit Rate	64 kbps / 4 Mbps	64 kbps / 8 Mbps	64Kbs ~ 16Mbs
Pan/Tilt limit	360° Continuous, -5° to 90° auto Flip	360° Continuous, -10° to 90° auto Flip	-
Rotation speed	Pan/Tilt: 0.1~80°/s Preset speed: 80°/s	Pan/Tilt: 0.1~80°/s Preset speed: 80°/s	-
Preset	360	360	-
Patrol/Pattern	8/4	8/4	-
SD card	<b>Yes, not included (256 GB max)</b>	<b>Yes, not included (256 GB max)</b>	<b>Yes, not included (256 GB max)</b>
In / out audio	0/0	1/1	<b>1/1 (built-in MIC)</b>
In / out alarm	0/0	1/1	1/1
CVBS video output	No	No	No
Smart video analysis	<b>Video anomaly, line crossing, area intrusion, vehicle/person count</b>	<b>Video anomaly, line crossing, area intrusion, vehicle/person count, face detection and recognition</b>	<b>Line crossing, area intrusion, anomaly - Enter/exit area</b>
Functions	3D-DNR, BLC, HLC, smart tracking, defog	3D-DNR, BLC, HLC, smart tracking	WDR 120dB, Defog, BLC, HLC, 3D DNR, Smart tracking
WDR	WDR (120 dB)	WDR (120 dB)	Real WDR (120 dB)
Supported browsers	Internet Explorer, Edge (IE compatibility)	Edge, Firefox, Chrome and Safari	Google Chrome, Edge, Firefox, Safari, CVM
Smart IR	up to 150 m	up to 160 m	<b>20 m</b>
IP degree	IP66	IP66	IP67 / IK10
Temperature range	<b>-30°C / +55°C</b>	<b>-30°C / +55°C</b>	<b>-30°C / +55°C</b>
Power supply/consumption	12 VDC, 22 W IEEE802.3at PoE	12 VDC, 22 W IEEE802.3at PoE	12 VDC 12 W PoE+ (IEEE 802.3at)
Dimensions (mm)	ø 173 x 247 camera only	ø 173 x 268 camera only	ø 116 x 75
Weight (g)	2,100	2,100	460
Notes	Multi-stream. Wall bracket included. ONVIF compatible profile S. - HTTP POST	Multi-stream, database max 10,000 faces. Surface mounting bracket and power supply unit included. ONVIF compatible profile S. - HTTP POST	RTSP*, multi-stream. ONVIF compatible profile G M S T - HTTP POST

\* RTSP: function for direct connection to the By-me Plus home automation system, as an additional camera for IP video door entry systems or as video checking in View App with the By-alarm Plus system.

DORI system parameters



Bracket for PTZ cameras



Overvoltage protection



▲ 46264.002  
Passive overvoltage protection for Ethernet line with or without PoE. RJ45 in/out connection.

Keypad for PTZ control



▲ 46916.001  
RS485 keypad for PTZ control and DVR management, multi-protocol, 8 devices in cascade (in-out) 4-line display, 3-axis control, 12V power supply unit.

46916.005  
Control keypad for Speed Dome cameras, with 3-axis function, Pelco D, Pelco P Protocol, standard 12 Vdc 2 A power supply unit. Dimensions: 220x130x90 mm



PoE Ethernet switch



Code	46260.5P.03	46260.10P.03	46260.18P.03
Standard PoE	802.3af/at	802.3af/at	802.3af/at
Ports	5	10	18
Downlink Ports	4 10/100/1000 (PoE+)	8 10/100/1000 (PoE+)	16 10/100/1000 (PoE+)
Uplink Ports	1 10/100/1000	2 10/100/1000	2 10/100/1000
Network standards	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3x	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3x	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3x
Switching capacity	10 Gbit/s	20 Gbit/s	20 Gbit/s
Packet forwarding speed	7.44 Mp/s	14.88 Mp/s	14.88 Mp/s
Switching type	Store and Forward	Store and Forward	Store and Forward
Buffer memory	No	1 M	1 M
MAC address list	2K	2K	2K
Transient surge immunity	4 kV: IEC61000-4-5	4 kV: IEC61000-4-5	4 kV: IEC61000-4-5
Electrostatic discharge (ESD) protection	6 kV (contact discharge) 8 kV (air discharge) According to: IEC61000-4-2	6 kV (contact discharge) 8 kV (air discharge) According to: IEC61000-4-2	6 kV (contact discharge) 8 kV (air discharge) According to: IEC61000-4-2
PoE Power Output (per port)	44-57 VDC 30 W max	44-57 VDC 30 W max	44-57 VDC 30 W max
Overall PoE Power	60 W max	140 W max	185 W max
PoE mode	End-Span	End-Span	End-Span
PoE power supply	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)
Power supply/consumption	input: 100-240 VAC, 1.4 A	input: 100-240 VAC, 3 A	input: 100-240 VAC, 4 A
Absorbed power	3.79 W	6.5 W	12.9 W
Operating temperature	0° C / +40° C	0° C / +40° C	0° C / +40° C
Operating humidity (non-condensing)	10% / 90%	10% / 90%	10% / 90%
Dimensions (mm)	200 x 118 x 44	268 x 181 x 44	220 x 107 x 45
Weight (g)	670 g	1140 g	1780 g
Notes	CCTV Mode: Downlink ports only communicate with uplink ports	CCTV Mode: Downlink ports only communicate with uplink ports	CCTV Mode: Downlink ports only communicate with uplink ports



NVR PoE Real Time compliant with NDAA



NDAA



NDAA



NDAA

Model	46NVR.04PSN	46NVR.08PSN	46NVR.08PN
Video input	4 Ch	8 Ch	8 Ch
PoE ports	4	8	8
Hard disk drive	1 TB Professional	1 TB Professional	1 TB Professional
Fisheye camera	No	No	No
Recording resolution	Real time 6 Mpx <b>4 CH @ 25 Fps per CH</b>	Real time 6 Mpx <b>8 CH @ 25 Fps per CH</b>	Real time 8 Mpx <b>8 CH @ 25 Fps per CH</b>
Video compression	H.264 - H.265 - H.265+ - H.265S	H.264 - H.265 - H.265+ - H.265S	H.264 - H.265 - H.265+ - H.265S
Operating mode	Pentaplex	Pentaplex	Pentaplex
Input/Output Bandwidth	40/40 (Mbps)	64/64 (Mbps)	80/80 (Mbps)
Video output	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
In / out audio	0 / 0	0 / 0	1 / 1
VGA/HDMI resolution	1080p / 1080p	1080p / 1080p	1080p / 4K
In / out alarm	- / - (46936.001)	- / - (46936.001)	- / - (46936.001)
Network interface	1 RJ45 - 100Mbps	1 RJ45 - 100Mbps	1 RJ45 - 10/100/1000Mbps
Hard disk interface	1 SATA (max 10 TB)	1 SATA (max 8 TB)	1 SATA (max 10 TB)
USB interface	2	2	2
RS485	No	No	No
PTZ control	Yes	Yes	Yes
CVM	Yes	Yes	Yes
QR CODE	Yes	Yes	Yes
Control via smartphone	Android, iPhone	Android, iPhone	Android, iPhone
Video analysis	Yes *	Yes *	Yes *
Privacy filter	Yes	Yes	Yes
Interface	mouse	mouse	mouse, remote control
Power supply/consumption (not including PoE and HDD)	+48 V 9 W (single power supply unit)	+48 V 9 W (single power supply unit)	+48 V 15 W (single power supply unit)
Operating temperature	-10 °C ~ +50 °C	-10 °C ~ +50 °C	-10 °C ~ +50 °C
Cooling fan	No	No	No
Dimensions (mm)	255 x 222 x 42	255 x 222 x 42	300 x 248 x 52
Weight (kg)	1 (not including HDD)	1 (not including HDD)	1.2 (not including HDD)
Notes			

Note: NVRs are also compatible with browsers other than Explorer without the need to install plug-ins (Edge, Firefox, Chrome, Safari and Opera).  
 Plug&Play: these PoE NVRs allow direct Ply&Play connection to the cameras, i.e. camera power supply and auto-configuration.  
 \* Compatible with cameras with smart video analysis.

USB alarm expansion



Code	46936.001		
Connection type	USB	Operating temperature	- 10°C ~ 50°C
Alarm inputs	16	Operating humidity	10% ~ 90%
Alarm outputs	6	Power supply	5V / 1A
USB	USB2.0 x 1	Consumption	≤ 5W

By-camera App available from the Vimar website or Apple Store and Google Play

NVR Real Time compliant with NDAA



NDAA



NDAA



With face database NDAA

Model	46NVR.16PN	46NVR.16N	46NVR.32N
Video input	16 Ch	16 Ch	32 Ch
PoE ports	16	No	No
Hard disk drive	2 TB Professional	2 TB Professional	2 TB Professional
Fisheye camera	No	No	No
Recording resolution	Real time 8 Mpx <b>16 CH @ 25 Fps per CH</b>	Real time 8 Mpx <b>16 CH @ 25 Fps per CH</b>	12 Mpx <b>32 CH @ 20 Fps per CH</b> Real time 9 Mpx <b>32 CH @ 25 Fps per CH</b>
Video compression	H.264 - H.265 - H.265+ - H.265S	H.265S - H.265+ - H.264 - H.265	H.264 - H.265 - H.265+ - H.265S
Operating mode	Pentaplex	Pentaplex	Pentaplex
Input/Output Bandwidth	160/160 (Mbps)	144/144 (Mbps)	320/320 (Mbps)
Video output	1 HDMI, 1 VGA	1 HDMI, 1 VGA	2 HDMI, 1 VGA
In / out audio	1 / 1	1 / 1	1 / 1
VGA / HDMI resolution	1080p / 4K	1080p / 4K	1080p / 4K - 1080p
In / out alarm	- / - (46936.001)	4 / 4 (46936.001)	8 / 4 (46936.001)
Network interface	1 RJ45 - 1000Mbps	<b>1 RJ45</b> - 10/100/1000Mbps	<b>2 RJ45</b> - 10/100/1000Mbps
Hard drive interface	2 SATA (max 10 TB)	<b>2 SATA (max 10 TB)</b>	<b>2 SATA (max 10 TB)</b>
USB interface	2	<b>2 x 2.0</b>	<b>3 (2x 2.0 + 1 x 3.0)</b>
RS485	No	Yes	Yes
PTZ control	Yes	Yes	Yes
CVM	Yes	Yes	Yes
QR CODE	Yes	Yes	Yes
Control via smartphone	Android, iPhone	Android, iPhone	Android, iPhone
Video analysis	Yes *	Yes *	Yes *
Privacy filter	Yes	Yes	Yes
Interface	mouse, remote control	mouse, remote control	mouse, remote control
Power supply/consumption (not including PoE and HDD)	+48 V 15 W (single power supply unit)	+12 V / 10 W	+12 V / 25 W
Operating temperature	-10 °C ~ +50 °C	0 °C ~ +50 °C	0 °C ~ +50 °C
Cooling fan	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Dimensions (mm)	380 x 268 x 45	380 x 268 x 45	380 x 268 x 45
Weight (kg)	2 (not including HDD)	1.5 (not including HDD)	1.5 (not including HDD)
Notes	1 rack unit	1 rack unit	1 rack unit

\* Compatible with cameras with smart video analysis.

USB alarm expansion



Code	<b>46936.001</b>		
Connection type	USB	Operating temperature	- 10°C ~ 50°C
Alarm inputs	16	Operating humidity	10% ~ 90%
Alarm outputs	6	Power supply	5V / 1A
USB	USB2.0 x 1	Consumption	≤ 5W

NVR Real Time



NDAA RAID Function  
With face database

Model	46NVR.64N
Video input	64 Ch
PoE ports	No
Hard disk drive	<b>Not included</b>
Fisheye camera	Compatible
Recording resolution	Real time 16 Mpx <b>64 CH @ 25 Fps per CH</b>
Video compression	H.264 - H.265 - H.265+ - H.265S
Operating mode	Pentaplex
Input/Output Bandwidth	640/640 (Mbps)
Video output	4 HDMI, 1 VGA
In / out audio	1 / 1
VGA / HDMI resolution	1080p / 8K - 1080p
In / out alarm	16 / 4 (46936.001)
Network interface	<b>2 RJ45</b> - 10/100/1000Mbps
Hard drive interface	<b>8 SATA (max 10 TB for HDD)</b> <b>2 E-SATA (max 10 TB for HDD)</b>
USB interface	<b>3 (2x 2.0 + 1 x 3.0)</b>
RS485	No
PTZ control	Yes
CVM	Yes
QR CODE	Yes
Control via smartphone	Android, iPhone
Video analysis	Yes *
Privacy filter	Yes
Interface	mouse, remote control
Power supply/consumption (not including PoE and HDD)	<b>AC 100/240 V / 50 W</b> <b>(internal power supply unit)</b>
Operating temperature	-10 °C ~ +50 °C
Cooling fan	<b>Yes</b>
Dimensions (mm)	445 x 436 x 100
Weight (kg)	4.5 (not including HDD)
Notes	2 rack units. <b>Raid configuration 0-1-5-6-10</b>

\* Compatible with cameras with smart video analysis.

USB alarm expansion



Code	<b>46936.001</b>		
Connection type	USB	Operating temperature	- 10°C ~ 50°C
Alarm inputs	16	Operating humidity	10% ~ 90%
Alarm outputs	6	Power supply	5V / 1A
USB	USB2.0 x 1	Consumption	≤ 5W

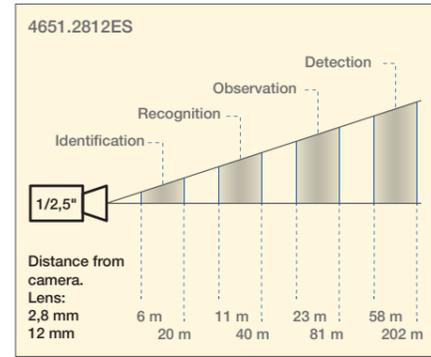
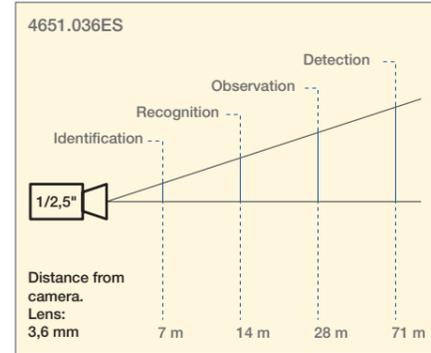
App **By-camera** disponibile nel sito Vimar o store Apple e Google Play

Bullet 5 Mpx AHD cameras



Model	4651.036ES	4651.2812ES
Sensor	1/2.5" CMOS	1/2.5" CMOS
Actual Pixels	2592 x 1944	2592 x 1944
Resolution	<b>5 Mpx (2560 x 1936) 20 Fps</b> , selectable: 4 Mpx (2688 x 1520) 25 Fps, 2 Mpx (1920 x 1080) 25 Fps	<b>5 Mpx (2560 x 1936) 20 Fps</b> , selectable: 4 Mpx (2688 x 1520) 25 Fps, 2 Mpx (1920 x 1080) 25 Fps
Sensitivity	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Lens	<b>3.6 mm</b>	<b>2.8 - 12 mm</b>
Viewing angle	<b>79°</b>	<b>94° - 35°</b>
Day & Night	Ext / Auto / B&W / Colour	Ext / Auto / B&W / Colour
Video output	<b>AHD / CVBS / TVI / CVI</b>	<b>AHD / CVBS / TVI / CVI</b>
Functions	2D-DNR, WB, BLC, D-WDR, flip, mirror	2D-DNR, WB, BLC, D-WDR, flip, mirror
S/N ratio	≥ 42 dB	≥ 42 dB
Joystick	No	No
OSD via CoC	Yes	Yes
Smart IR	<b>15 m</b>	<b>30 m</b>
IP protection	IP66	IP66
Temperature range	<b>-30°C ~ +60°C</b>	<b>-30°C ~ +60°C</b>
Power supply/consumption	12 V 400 mA	12 V 400 mA
Dimensions (mm)	84 x 70 x 167	90 x 69 x 193
Weight (g)	490	510
Pole bracket	46917.004	46917.004
Contact box	46922.030 and 46922.033	46922.030 and 46922.033

DORI system parameters



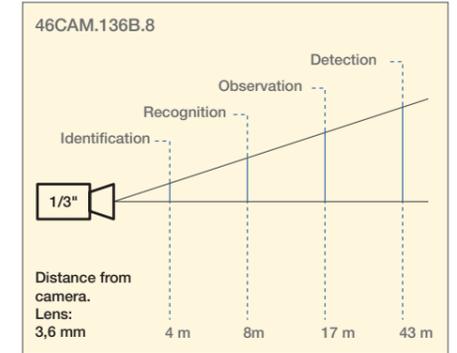
Bullet 1080p CVBS / AHD cameras



Model	46CAM.136B.8
Sensor	1/3" CMOS
Actual Pixels	1928 x 1088
Resolution	25/30 fps@1080p
Sensitivity	0 Lux (IR ON)
Lens	<b>3,6 mm</b>
Viewing angle	<b>79°</b>
Day & Night	Ext / Auto / B&W / Colour
Video output	<b>CVBS / AHD / CVI / TVI</b>
Functions	2D-DNR, WB, BLC, D-WDR, flip, mirror
S/N ratio	≥ 52 dB
Joystick	No
OSD via CoC	Yes
Smart IR	<b>15 m</b>
IP protection	IP67
Temperature range	<b>-20° C ~ 70° C</b>
Power supply/consumption	12 Vdc SELV - 260 mA
Dimensions (mm)	155 x 69 x 79
Weight (g)	270 g
Pole bracket	46917.004
Contact box	46922.030 and 46922.033

La telecamera può essere utilizzata come telecamera supplementare nei kit videocitofonici stand alone (K429..) collegandola alla targa 42920.P.\*

DORI system parameters



\*Kit videocitofonici stand alone



K429...

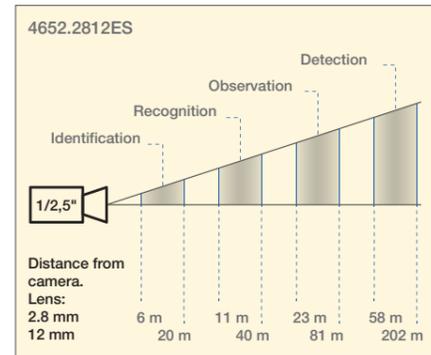
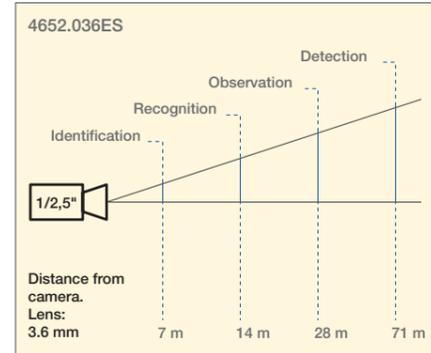
K429...

Dome 5 Mpx AHD cameras



Model	4652.036ES	4652.2812ES
Sensor	1/2.5" CMOS	1/2.5" CMOS
Actual Pixels	2592 x 1944	2592 x 1944
Resolution	<b>5 Mpx (2560 x 1936) 20 Fps</b> , selectable: 4 Mpx (2688 x 1520) 25 Fps, 2 Mpx (1920 x 1080) 25 Fps	<b>5 Mpx (2560 x 1936) 20 Fps</b> , selectable: 4 Mpx (2688 x 1520) 25 Fps, 2 Mpx (1920 x 1080) 25 Fps
Video output	<b>AHD / CVBS / TVI / CVI</b>	<b>AHD / CVBS / TVI / CVI</b>
Sensitivity	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Day & Night	Ext / Auto / B&W / Colour	Ext / Auto / B&W / Colour
Lens	<b>3.6 mm</b>	<b>2.8-12 mm</b>
Viewing angle	<b>79°</b>	<b>94° - 35°</b>
S/N ratio	≥ 42 dB	≥ 42 dB
Joystick	No	No
Functions	2D-DNR, WB, BLC, D-WDR, flip, mirror	2D-DNR, WB, BLC, D-WDR, flip, mirror
OSD via CoC	Yes	Yes
Smart IR	15 m	<b>30 m</b>
IP Protection	IP66	IP66
Temperature range	<b>-30°C ~ +60°C</b>	<b>-30°C ~ +60°C</b>
Power supply/consumption	12 V 250 mA	<b>12 V 400 mA</b>
Dimensions (mm)	ø 94 x 80	ø 120 x 100
Weight (g)	320	550
Pole bracket	46917.004	46917.004
Contact box	46922.030	46922.031, 46922.032 and 46922.033

DORI system parameters

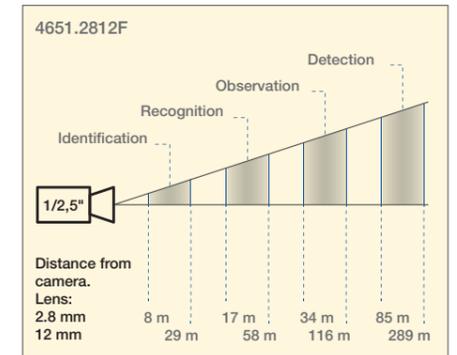
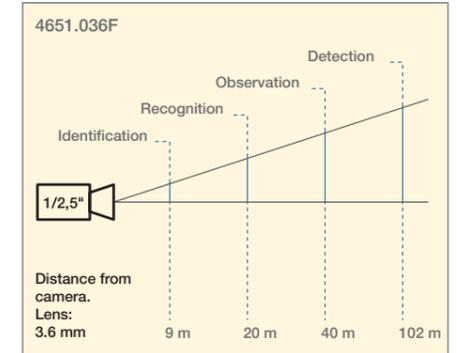


Bullet 8 Mpx AHD cameras



Model	4651.036F	4651.2812F
Sensor	1/2.5" CMOS	1/2.5" CMOS
Actual pixels	3840 x 2160	3840 x 2160
Resolution	<b>8 Mpx - (3840 x 2160) 15 Fps</b> , selectable: 5 Mpx - (2592 x 1944) 20 Fps 4 Mpx - (2688 x 1520) 25 Fps, 2 Mpx - (1920 x 1080) 25 Fps	<b>8 Mpx - (3840 x 2160) 15 Fps</b> , selectable: 5 Mpx - (2592 x 1944) 20 Fps 4 Mpx - (2688 x 1520) 25 Fps, 2 Mpx - (1920 x 1080) 25 Fps
Sensitivity	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Lens	<b>3.6 mm</b>	<b>2.8 - 12 mm</b>
Viewing angle	<b>88°</b>	<b>92° - 32°</b>
Day & Night	Ext / Auto / B&W / Colour	Ext / Auto / B&W / Colour
Video output	<b>AHD / CVBS / TVI / CVI</b>	<b>AHD / CVBS / TVI / CVI</b>
Functions	2D-DNR, WB, BLC, D-WDR, flip, mirror	2D-DNR, WB, BLC, D-WDR, flip, mirror
S/N ratio	≥ 42 dB	≥ 42 dB
Joystick	No	No
OSD via CoC	Yes	Yes
Smart IR	15 m	<b>30 m</b>
IP Protection	IP66	IP66
Temperature range	<b>-30°C ~ +60°C</b>	<b>-30°C ~ +60°C</b>
Power supply/consumption	12 V 400 mA	12 V 400 mA
Dimensions (mm)	84 x 70 x 167	90 x 69 x 193
Weight (g)	490	510
Pole bracket	46917.004	46917.004
Contact box	46922030 and 46922.033	46922030 and 46922.033

DORI system parameters

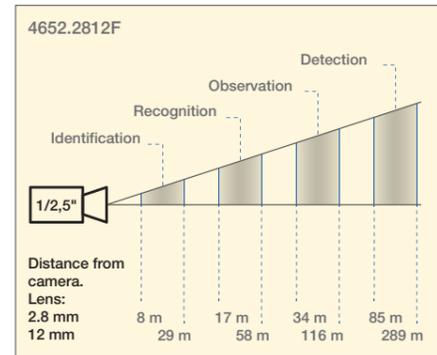
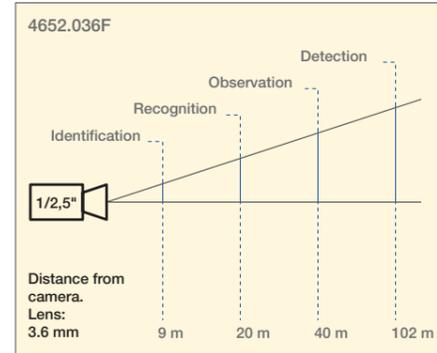


Dome AHD 8 Mpx cameras



Model	4652.036F	4652.2812F
Sensor	1/2.5" CMOS	1/2.5" CMOS
Actual pixels	3840 x 2160	3840 x 2160
Resolution	<b>8 Mpx - (3840 x 2160) 15 Fps</b> , selectable: 5 Mpx - (2592 x 1944) 20 Fps 4 Mpx - (2688 x 1520) 25 Fps, 2 Mpx - (1920 x 1080) 25 Fps	<b>8 Mpx - (3840 x 2160) 15 Fps</b> , selectable: 5 Mpx - (2592 x 1944) 20 Fps 4 Mpx - (2688 x 1520) 25 Fps, 2 Mpx - (1920 x 1080) 25 Fps
Video output	<b>AHD / CVBS / TVI / CVI</b>	<b>AHD / CVBS / TVI / CVI</b>
Sensitivity	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Day & Night	Ext / Auto / B&W / Colour	Ext / Auto / B&W / Colour
Lens	<b>3.6 mm</b>	<b>2.8 - 12 mm</b>
Viewing angle	<b>88°</b>	<b>92° - 32°</b>
S/N ratio	≥ 42 dB	≥ 42 dB
Joystick	No	No
Functions	2D-DNR, WB, BLC, D-WDR, flip, mirror	2D-DNR, WB, BLC, D-WDR, flip, mirror
OSD via CoC	Yes	Yes
Smart IR	15 m	<b>30 m</b>
IP protection	IP66	IP66
Temperature range	<b>-30°C ~ +60°C</b>	<b>-30°C ~ +60°C</b>
Power supply/consumption	12 V 250 mA	<b>12 V 400 mA</b>
Dimensions (mm)	ø 94 x 80	ø 120 x 100
Weight (g)	320	550
Pole bracket	46917.004	46917.004
Contact box	46922.030	46922.031, 46922.032 and 46922.033

DORI system parameters

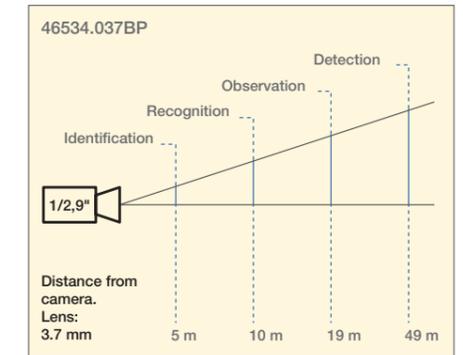
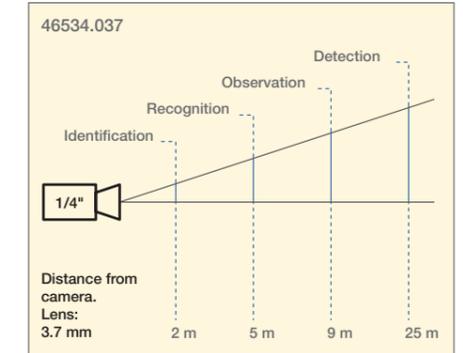


Special cameras



Model	Δ 46534.037	Δ 46534.037BP
Sensor	1/4" CMOS	1/2.9" CMOS
Actual pixels	1296 (H) x 732 (V)	1985 x 1105
Horizontal resolution	720p 25Fps	1080p 25Fps
Video output	AHD	AHD
Sensitivity	1 Lux	0.01 Lux Colour / 0.001 Lux B&W
Day & night	Electronic ICR	Colour/B&W
Lens	3.7 mm	3.7 mm
Viewing angle	52°	67°
S/N ratio	50 dB	52 dB
OSD	No	No
CVBS output	No	No
Joystick	No	No
Functions	AGC, BLC, NR	2D, 3DNR, BLC, HSBL, LSC, D-WDR, WB, AGC, DPC, mirror, motion, privacy, defog
CoC	No	Yes
Smart IR	No	No
IP degree	No	IP55
Temperature range	-10°C ~ +50°C	-30 °C ~ +45°C
Power supply/consumption	12 V 100 mA	12 V 95 mA
Dimensions (mm)	150 x 30 x 60	45 x 39 x 24
Weight (g)	166	<b>74</b>

DORI system parameters



# SECURITY

**ELVEX** CCTV : video surveillance system



DVR AHD 8 Mpx



Model	46XVR.ES04	46XVR.ES08
Video compression	H.264 - H.265	H.264 - H.265
Operating mode	Pentaplex	Pentaplex
Video input *	BNC x 4 *	BNC x 8 *
Video output	HDMI: 1920 x 1080, 1280 x 1024, 1024 x 768 VGA: 1920 x 1080, 1280 x 1024, 1024 x 768 BNC: CVBS (MAIN or SPOT)	HDMI: 1920x1080, 1280x1024, 1024x768 VGA: 1920x1080, 1280x1024, 1024x768 BNC: CVBS (MAIN or SPOT)
Audio input/output	RCA x 1 / RCA x 1	RCA x 1 / RCA x 1
AHD/TVI/CVI recording resolution	8MP Lite 8fps 5MP Lite 12fps 4MP Lite/1080p 12fps 1080p Lite/720p/WD1 25fps	8MP Lite 8fps 5MP Lite 12fps 4MP Lite/1080p 12fps 1080p Lite/720p/WD1 25fps
Number of IP cameras that can be connected to DVR (via external switch)	<b>2 in addition to the 4 analogue cameras</b>	<b>4 in addition to the 8 analogue cameras</b>
IP camera recording resolution	5 Mpx 25 fps	5 Mpx 25 fps
Input/output alarm	(46936.001)	(46936.001)
OSD camera control over coaxial	Yes	Yes
Network interface	1 RJ45 - 100 Mbps	1 RJ45 - 100 Mbps
Hard drive interface	1 SATA (max 10 TB)	1 SATA (max 10 TB)
HDD	1 TB Professional	1 TB Professional
USB interface	2 USB 2.0	2 USB 2.0
RS485 PTZ control	Yes	Yes
QR CODE	Yes	Yes
Control via Smartphone	Android and iPhone with App By-Camera	Android and iPhone with App By-Camera
OTA Firmware Update	Yes	Yes
Video analysis with analogue cameras (XVR function)	Line crossing, area intrusion	Line crossing, area intrusion
Video analysis with IP cameras ** (if present)	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, abandoned or removed object, area intrusion
Privacy filter	Yes	Yes
Interface	mouse, remote control	mouse, remote control
Power supply/ consumptions	12V / 15W	12V / 15W
Operating temperature	-10 / + 50°C	-10 / + 50°C
Cooling fans	No	No
Dimensions (mm)	255 x 222 x 42	255 x 222 x 42
Weight (kg)	1.12	1.15
Notes	RTSP ***	RTSP ***

**Note:** with the **1.3.8** firmware, XVRs (46XVR.ES04, 46XVR.ES08 and 46XVR.E16) are also compatible with browsers other than Explorer without the need to install plug-ins (Edge, Firefox, Chrome, Safari and Opera).

\* Not compatible with 3 Mpx AHD cameras.

\*\* Compatible with cameras with smart video analysis.

\*\*\* **RTSP:** function for direct connection to the By-me Plus home automation system or as an additional camera for IP video door entry systems.

**By-camera** App available from the Vimar website or Apple Store and Google Play

# SECURITY

**ELVEX** CCTV : video surveillance system



DVR AHD 8 Mpx



Model	Δ 46XVR.FS04	Δ 46XVR.FS08	46XVR.FS16
Video compression	H.264 - H.265	H.264 - H.265	H.264 - H.265
Operating mode	Pentaplex	Pentaplex	Pentaplex
Video input	BNC x 4	BNC x 8	BNC x 16
Video output	HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024 VGA: 1920 x 1080, 1280 x 1024, 1024 x 768 BNC: CVBS (MAIN or SPOT)	HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024 VGA: 1920 x 1080, 1280 x 1024, 1024 x 768 BNC: CVBS (MAIN or SPOT)	HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024 VGA: 1920 x 1080, 1280 x 1024, 1024 x 768 BNC: CVBS (MAIN or SPOT)
Audio input/output	RCA x 1 / RCA x 1	RCA x 1 / RCA x 1	RCA x 1 / RCA x 1
AHD/TVI/CVI recording resolution	4K (1 channel only) 7fps 4K Lite/5 Mpx/4 Mpx/3 Mpx 12fps 5 Mpx Lite 20fps 4 Mpx Lite/1080p 25fps	4K 8fps 4K Lite/5 Mpx/4 Mpx/3 Mpx 12fps 5 Mpx Lite 20fps 4 Mpx Lite/1080p 25fps	4K 8fps 4K Lite/5 Mpx/4 Mpx/3 Mpx 12fps 5 Mpx Lite 20fps 4 Mpx Lite/1080p 25fps
Number of IP cameras that can be connected to DVR (via external switch)	<b>2 in addition to the 4 analogue cameras</b>	<b>8 in addition to the 8 analogue cameras</b>	<b>8 in addition to the 16 analogue cameras</b>
IP camera recording resolution	8 Mpx 20 fps 5 Mpx 25 fps	8 Mpx 25 fps	8 Mpx 25 fps
Input/output alarm	(46936.001)	(46936.001)	(46936.001)
OSD camera control over coaxial	Yes	Yes	Yes
Network interface	1 RJ45 - 100 Mbps	1 RJ45 - 100 Mbps	1 RJ45 - 1000 Mbps
Hard drive interface	1 SATA (max 10 TB)	1 SATA (max 10 TB)	2 SATA (max 10 TB per HDD)
HDD	1 TB Professional	1 TB Professional	2 TB Professional
USB interface	2 USB 2.0	2 USB 2.0	2 USB 2.0
RS485 PTZ control	Yes	Yes	Yes
QR CODE	Yes	Yes	Yes
Control via Smartphone	Android and iPhone with App By-Camera	Android and iPhone with App By-Camera	Android and iPhone with By-Camera App
OTA Firmware Update	Yes	Yes	Yes
Video analysis with analogue cameras (XVR function)	Line crossing, area intrusion	Line crossing, area intrusion	Line crossing, area intrusion
Video analysis with IP cameras ** (if present)	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, abandoned or removed object, area intrusion	Video anomaly, line crossing, abandoned or removed object, area intrusion
Privacy filter	Yes	Yes	Yes
Interface	mouse, remote control	mouse, remote control	mouse, remote control
Power supply/ consumptions	12V / 15W	12V / 15W	12 V / 22 W
Operating temperature	-10 / + 50°C	-10 / + 50°C	-10 / + 50°C
Cooling fans	No	Yes	Yes
Dimensions (mm)	255 x 222 x 42	255 x 234 x 42	380 x 268 x 45
Weight (kg)	1.12	1.25	2.2
Notes	RTSP ***	RTSP ***	RTSP ***

**Note:** XVRs (46XVR.FS04 and 46XVR.FS08) are also compatible with browsers other than Explorer without the need to install plug-ins (Edge, Firefox, Chrome, Safari and Opera).

\*\* Compatible with cameras with smart video analysis.

\*\*\* **RTSP:** function for direct connection to the By-me Plus home automation system or as an additional camera for IP video door entry systems.

## USB alarm expansion



Code	46936.001				
Connection type	USB	USB	USB2.0 x 1	Power supply	5V / 1A
Alarm inputs	16	Operating temperature	- 10°C ~ 50°C	Consumption	≤ 5W
Alarm outputs	6	Operating humidity	10% ~ 90%		

**By-camera** App available from the Vimar website or Apple Store and Google Play

IP CCTV kit - 4, 8 and 16 channels



**46KIT.028DC**

CCTV kit consisting of:

- 1 NDAA conforming 4-channel NVR, H.265 compression, 4ch@6Mpx HD Real Time recording, built-in PoE switch with 4 ports and Plug&Play configuration, remote viewing and control with QRCODE. Professional 1 TB HDD
- 2 **4621.028DC**: colour Day & Night cameras, 4 Mpx, mechanical IR filter, with fixed 2.8 lens
- 1 **46927.003**: 'Area under video surveillance' sign

**46KIT.2812DC**

CCTV kit consisting of:

- 1 NDAA compliant 8-channel NVR, H.265 compression, 8ch@6Mpx Real Time recording, built-in 8-port PoE at switch, remote control and viewing, remote connection with QRCODE, 1 TB professional HDD, Plug&Play configuration
- 2 **4621.2812DC**: colour Day & Night cameras, 4 Mpx, mechanical IR filter, with 2.8-12 mm varifocal lens
- 1 **46927.003**: 'Area under video surveillance' sign

AHD CCTV kit - 4 and 8 channels



**46554.036E**

CCTV kit consisting of:

- 1 **46XVR.ES04**: Hybrid DVR with 4+2 AHD/IP/CVBS channels, compatible with 2 additional IP cameras, professional 1 TB HDD, Pentaplex, H,265, CoC, supports AHD and IP up to 5Mpx;
- 2 **4651.036ES**: Bullet 5 Mpx AHD cameras with 3.6 mm fixed lens, D&N with mechanical IR filter;
- 2 **46902.010**: 12 Vdc - 1A plug-in power supply units;
- 1 **46927.001**: 'Area under video surveillance' sign.

**46558.2812E**

CCTV kit consisting of:

- 1 **46XVR.ES08**: Hybrid DVR with 8+4 AHD/IP/CVBS channels, compatible with 4 additional IP cameras, professional 1 TB HDD, Pentaplex, H,265, CoC, supports AHD and IP up to 5Mpx;
- 2 **4651.2812ES**: Bullet 5 Mpx AHD cameras with 2.8-12 mm varifocal lens, D&N with mechanical IR filter;
- 2 **46902.010**: 12 Vdc - 1A plug-in power supply units;
- 1 **46927.001**: 'Area under video surveillance' sign.

Professional monitors for 24/7 Video surveillance



Code	46910.H10B	46910.H22B	46910.43K	46910.43K.1
Screen	10.1" LED Backlit Monitor	22" LED Backlit Monitor	43" LED Backlit Monitor	43" LED Backlit Monitor
Resolution	1920 x 1080	1920 x 1080	3840 x 2160	3840 x 2160
Profile ratio	16:10	16:9	16:9	16:9
Brightness (NIT)	330 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	390 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>
Contrast ratio	1000:1	1000:1	1000:1	1000:1
Viewing angle	178° x 178°	170° x 170°	178° x 178°	178° x 178°
Response time	5 ms	5 ms	6 ms	5 ms
Video inputs	HDMI x 2 VGA x 1 BNC x 1 in BNC x 1 out	HDMI x 1 VGA x 1	HDMI v2.0 x 1 HDMI v1.4 x 2 DP x 1	HDMI v2.0 x 3 1 x USB DP x 1
Audio input/output	1	1	1 output	1 output
Power supply	12 VDC 12 W with standard power supply unit	12 VDC 15 W with standard power supply unit	100 - 240 VAC 75 W	100 - 240 VAC 40 W
Vesa fixing	Yes	Yes	Yes	Yes
Table support bracket	Yes	Yes	Yes, metal	Yes
Dimensions (mm)	260 x 185 x 43	490 x 298 x 42	970 x 560 x 100	962x551x92
Weight (kg)	2	2.6	16.8	6.5

Passive transducers (AHD)



**46862.001.01**

Balun video passive transducer for video transmission on twisted pair, BNC connector for connection to the camera or DVR, screw connection for the cable

**46862.A01.01**

Balun passive video transducer for video transmission over twisted pair, BNC connector with 14 cm of cable for connection to the camera or DVR, screw connection for the cable

**46862.B02**

Pair of passive video transducers for video transmission over twisted pair, BNC connector for connection to the camera or DVR, one transducer with 14 cm of cable, screw connection for the cable

**46862.B01**

Pair of Balun passive video transducers (transmitter/receiver) for video transmission over twisted pair, BNC connector for the video, jack for the power supply, cable connection with RJ45 connector, maximum distance attainable with Cat. 5 cable 50 m, compatible with PAL/ NSC/SECAM, built-in electrostatic discharge protection

Connectors and cables



**46904.C01**  
Male BNC crimp connector for RG59 coaxial cables

**46904.S01**  
Male BNC solder connector for coaxial cable with metal body and cable outlet coil

**46904.M01**  
Male BNC connector for coaxial cable with screw terminals

**46905.M01**  
Plug connector for 12 VDC power supply with screw terminals

**46905.M02**  
Female plug connector for 12 VDC power supply with screw terminals

**46904.V01**  
Male BNC connector for coaxial cable, screw terminals, metal body

Power supply units



**46902.010**  
Switching-mode power supply unit, 100 – 240 Vac 50/60 Hz, integrated Europlug 2P plug, output with standard jack connector  
12 Vdc 1 A, maximum power 12 W



**46901.015**  
Flush mounting switching mode power supply unit, 100 – 240 Vac 50/60 Hz power supply, 12 Vdc 1.5 A output with standard jack connector, maximum power 18 W, installation in switchboards, junction boxes or watertight enclosures

Accessories



**46264.001.01**  
IEEE802.3af/at standard PoE 10/100 Ethernet Extender, up to 100 m connection, max 3 devices per section



**Δ 46264.002**  
Passive overvoltage protection for Ethernet line with or without PoE. RJ45 in/out connection



**46936.001**  
USB alarm expansion module for NVR and XVR, 16 inputs and 6 outputs

Tastiere per controllo PTZ e DVR



**46916.005**  
Control keypad for Speed Dome cameras, with 3-axis Pelco D, Pelco P Protocol, standard 12 Vdc 2 A power supply unit. Dimensions: 220x130x90 mm



**Δ 46916.004**  
IP keypad for controlling IP PTZ, controls 10 devices simultaneously, 3-axis control. Standard 12 Vdc power supply unit.

Microfono e accessori



**46964.003**  
Microphone for audio applications, compatible with the entire range of cameras powered at 12Vdc

Cables



**0002.060.E**  
75 ohm coaxial cable, cable ø 3 mm, with PVC sheath, CPR Eca class, suitable for installation with Category I power cables (U0 = 400 V), grey - 200 m spool



**0002.063.E**  
Video system cable, 2x0.35 mm<sup>2</sup> + 75 ohm coaxial cable, with PVC sheath, CPR Eca class, suitable for installation with Category I power cables (U0 = 400 V), grey - 200 m spool



**0002.163.E**  
Video system cable, 2x0.75 mm<sup>2</sup> + 75 ohm coaxial cable, with PVC sheath, CPR Eca class, suitable for installation with Category I power cables (U0 = 400 V), grey - 200 m spool



**46364.E.100**  
Coaxial cable for indoor laying, ø 3.3 mm, with LSZH sheath, CPR Eca class, suitable for installation with Category I power cables (U0 = 400 V), brown - 100 m spool



**46364.E.500**  
Coaxial cable for outdoor laying, ø 6.3 mm, with LSZH sheath, CPR Eca class, suitable for installation with Category I power cables (U0 = 400 V), brown - 500 m spool

Maximum recommended transmission distance

Resolution	Coaxial cable				Network cable	
	RG59	0002.163.E (coaxial with power supply)	46364.E.100 (high-quality 3.3 mm coaxial for indoor laying)	46364.E.500 (high-quality 6.3 mm coaxial for outdoor laying)	Passive baluns (in the analogue range)	Active baluns (in the analogue range)
720p AHD	400 m	40 m @ 700 mA *	300 m	400 m	300 m	Use not allowed
1080p AHD	300 m	40 m @ 700 mA *	200 m	300 m	250 m	Use not allowed
3 Mpx	200 m	40 m @ 700 mA *	150 m	250 m	200 m	Use not allowed
4 Mpx	200 m	40 m @ 700 mA *	150 m	250 m	100 m	Use not allowed
5 Mpx	150 m	40 m @ 700 mA *	100 m	200 m	100 m	Use not allowed
4K	150 m	40 m @ 700 mA *	100 m	200 m	100 m	Use not allowed

Exceeding these distances may progressively degrade the signal quality.  
\* Limit due to the power supply

Brackets and supports for Bullet and Dome IP cameras



**46922.040**  
Bracket with contact box for Dome and Bullet IP cameras for surface or ceiling mounting.



**46922.041**  
Bracket with contact box for Dome and Bullet IP cameras for surface or ceiling mounting.



**46922.042**  
Bracket with contact box for Dome varifocal IP cameras for surface or ceiling mounting.



**46922.019**  
Bracket with contact box for Fisheye IP cameras for surface or ceiling mounting



**46917.005**  
Pole bracket suitable for IP cameras

Brackets and supports for Bullet and Dome AHD cameras



**46922.030**  
Bracket with contact box for Bullet AHD cameras 46516.213E and 46516.650B for surface or ceiling mounting.



**46922.031**  
Contact box for Dome varifocal AHD cameras for surface or ceiling mounting.



**46922.032**  
Bracket for Dome varifocal AHD cameras for surface or ceiling mounting.



**Δ 46922.033**  
Contact box for AHD cameras suitable to contain wiring and power supply unit, IP66



**46917.004**  
Pole bracket for cameras Fixed and variable focus AHD

EDVEX CCTV : compatibility table for boxes and cameras

Bullet IP cameras

Bullet IP cameras		 46917.005 Pole bracket	 46922.014 Bracket with contact box	 46922.040 Bracket with contact box	 46922.041 Bracket with contact box
	4621.028B	X		X	
	4621.028DC	X		X	
	4621.028GC	X		X	
	4621.2812BA	X		X	
	4621.2812ESA	X		X	
	4621.2812DDT	X		X	
	4621.2812DC	X		X	
	4621.2812DL	X		X	
	4621.2812GC	X		X	
	4621.028FC	X		X	
	4621.2812FC	X		X	
	4621.0722DMA	X			X
	4621.2812GAE	X			X
4621.2812LPR	X			X	
	46212.036F		X		
	46917.005			X	X

EDVEX CCTV : compatibility table for boxes and cameras

Dome IP cameras

Dome IP cameras		 46917.005 Pole bracket	 46922.040 Bracket with contact box	 46922.041 Bracket with contact box	 46922.042 Bracket with contact box	 46922.019 Bracket with contact box
	4622.028BA		X			
	4622.028DC		X			
	4622.2812DC			X		
	4622.028GC		X			
	4622.2812GC			X		
	4622.028FC		X			
	4622.2812FC			X		
	4622.2812EMS			X		
	4624.028GAE	X			X	
	4622.2812FKC				X	
	4622.2812FKA				X	
	4622.2812GAE				X	
	46917.005		X	X	X	X

**EDVEX** CCTV : compatibility table for boxes and cameras

Special cameras

Special cameras		 46917.005 Pole bracket	 46922.040 Bracket with contact box	 46922.041 Bracket with contact box	 46922.042 Bracket with contact box	 46922.019 Bracket with contact box
 4626.040E			X			
 4624.180F				X		
 46234.010GA						X

Bullet AHD cameras

Bullet AHD cameras		 46917.004 Pole bracket	 46922.015 Bracket with contact box	 46922.030 Bracket with contact box	 46922.033 Bracket with contact box
 4651.036ES		X		X	X
 4651.036F		X		X	X
 4651.2713BLM		X		X	X
 4651.2812ES		X		X	X
 4651.2812F		X		X	X
 46917.004			X	X	

**EDVEX** CCTV : compatibility table for boxes and cameras

Dome AHD camera box compatibility

Dome AHD cameras		 46917.004 Pole bracket	 46922.030 Bracket with contact box	 46922.031 Bracket with contact box	 46922.032 Surface mounting bracket	 46922.033 Bracket with contact box
 4652.036ES		X	X			
	4652.036F	X	X			
 4652.2812ES		X		X	X	X
	4652.2812F	X		X	X	X
 46917.004			X	X		

Video analysis functions 1



NVR	Cameras									
46NVR.04PSN / 46NVR.08PSN	List 1:			List 2:						
46NVR.08PN / 46NVR.16PN	4621.028B	4621.2812GAE	46235.025D	4623.003D	4621.028B	4622.2812GAE	4623.003D			
46NVR.64N	4621.028BA	4622.028BA	4621.028DC	4622.028GC	4621.028BA	4624.028GAE	4622.028GC			
46NVR.64	4621.2812BA	4622.2812FKA	4621.2812DC	4622.2812GC	4621.2812BA	4621.2812LPR	4622.2812GC			
46NVR.32N	4621.0722DMA	4622.2812GAE	4621.2812DL	4621.028FC	4621.2812DA	4626.040E	4621.028FC			
	4621.2812DA	4624.028GAE	4622.028DC	4621.2812FC	4621.2812ESA	4621.028DC	4621.2812FC			
	4621.2812DDT	46234.010GA	4622.2812DC	4622.2812FC	4621.2812GAE	4621.2812DC	4622.2812FC			
	4621.2812ESA	4626.040E	4621.2812GC	4622.2812FKC	4622.028BA	4621.2812DL	4622.2812FKC			
	46235.015B		4621.028GC	4624.180F	46235.015B	4622.028DC	4624.180F			
				4622.2812DC	4621.2812GC	4621.028GC	4621.028GC			

DVR/XVR	Cameras	
46540.H16	No	No
46XVR.ES04 / 46XVR.ES08	List 1	List 2
46XVR.FS04 / 46XVR.FS08		
46XVR.FS16		

Software	Cameras	
CVM-Elvox	No	No
CVM CCTV Manager	List 1	List 2

Other	Cameras	
Standalone mode	List 1	List 2

Video analysis functions 2



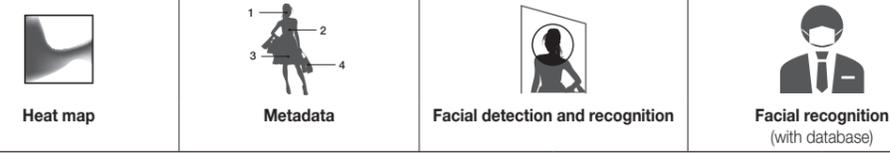
NVR	Cameras				
46NVR.04PSN / 46NVR.08PSN	List 3:		List 4:		List 5:
46NVR.08PN / 46NVR.16PN	4621.028B	4621.2812GAE	46235.025D	4623.003D	4621.0722DMA
46NVR.64N	4621.028BA	4622.028BA	4621.028DC	4622.028GC	4621.2812DDT
46NVR.64	4621.2812BA	4622.2812FKA	4621.2812DC	4622.2812GC	4621.2812GAE
	4621.0722DMA	4622.2812GAE	4621.2812DL	4621.028FC	4622.2812GAE
	4621.2812DA	4624.028GAE	4622.028DC	4621.2812FC	4624.028GAE
	4621.2812DDT	46234.010GA	4622.2812DC	4622.2812FC	46234.010GA
	4621.2812ESA	4626.040E	4621.2812GC	4622.2812FKC	4623.003D
	46235.015B		4621.028GC	4624.180F	4626.040E
				4621.2812DL	4624.028GAE

DVR/XVR	Cameras		
46540.H16	No	No	No
46XVR.ES04 / 46XVR.ES08	List 3	List 4	No
46XVR.FS04 / 46XVR.FS08			
46XVR.FS16			

Software	Cameras		
CVM-Elvox	No	No	No
CVM CCTV Manager	List 3	List 4	List 5

Other	Cameras		
Standalone mode	List 3	List 4	List 5

Video analysis functions 3



NVR	Cameras					
46NVR.04PSN / 46NVR.08PSN	List 6: 4621.2812DDT 4621.2812GAE 4622.2812GAE 4624.028GAE 46234.010GA	List 7: 4621.2812DDT 4621.2812GAE 4622.2812GAE 4624.028GAE	List 8:			
46NVR.08PN / 46NVR.16PN			4621.0722DMA	4624.028GAE		
46NVR.64			4621.2812DDT	46235.025D		
			4621.2812GAE	46235.180PAN		
			4621.2812GAE	4622.2812GAE		
			4621.2812GAE	4622.2812GAE		
46NVR.64N	List 6: 4621.2812DDT 4621.2812GAE 4622.2812GAE 4624.028GAE 46234.010GA	List 7: 4621.2812DDT 4621.2812GAE 4622.2812GAE 4624.028GAE	List 8:			
			4621.0722DMA	4624.028GAE	4621.0722DMA	4624.028GAE
			4621.2812DDT	46235.025D	4621.2812DDT	46235.025D
			4621.2812GAE	46235.180PAN	4621.2812GAE	46235.180PAN
			4621.2812GAE	4622.2812GAE		
			4621.2812GAE	4622.2812GAE		
			4621.2812GAE	4622.2812GAE		

DVR/XVR	Cameras			
46540.H16	No	No	No	No
46XVR.ES04 / 46XVR.ES08	No	No	No	No
46XVR.FS04 / 46XVR.FS08				
46XVR.FS16				

Software	Cameras			
CVM-Elvox	No	No	No	No
CVM CCTV Manager			List 8	

Other	Cameras			
Standalone mode	List 6	List 7	List 8	46235.025D

Video analysis functions 4



NVR	Cameras	
46NVR.04PSN / 46NVR.08PSN	List 10: 4621.2812GAE 4622.2812GAE 4624.028GAE	List 11: 46234.010GA
46NVR.08PN / 46NVR.16PN		
46NVR.64N		
46NVR.64		

DVR/XVR	Cameras		
46540.H16	No	No	No
46XVR.ES04 / 46XVR.ES08	No	No	No
46XVR.FS04 / 46XVR.FS08			
46XVR.FS16			

Software	Cameras		
CVM-Elvox	No	No	No
CVM CCTV Manager			

Other	Cameras		
Standalone mode	List 10	List 10	List 11

NVR characteristics, with alarm input and camera compatibility

NVR	No. of channels	Alarms in/out	No. of PoE	Video analysis	Fisheye	Camera sensor (resolution)	
						up to 6 Mpx	up to 8 Mpx
46NVR.04PSN	4	46936.001	4	Yes	No	Yes	No
46NVR.08PN	8	46936.001	8	Yes	No	Yes	Yes
46NVR.08PSN	8	46936.001	8	Yes	No	Yes	No
46NVR.16PN	16	46936.001	16	Yes	No	Yes	Yes
46NVR.16N	16	46936.001	16	YES	No	Yes	Yes
46NVR.32N	32	46936.001	32	YES	No	Yes	Yes
46NVR.64 / 46NVR.64N	64	8 / 4	-	Yes	Yes	Yes	Yes

DVR/XVR characteristics, with alarm input and camera compatibility

DVR/XVR	No. of channels	Alarms in/out	Camera resolution					
			720p	1080p	3 Mpx	4 Mpx	5 Mpx	8 Mpx
46540.H16	16	4 / 1	Yes	Yes	No	No	No	No
46XVR.ES04	4	46936.001	Yes	Yes	No	Yes	Yes	Yes
46XVR.ES08	8	46936.001	Yes	Yes	No	Yes	Yes	Yes
46XVR.FS04	4	46936.001	No	Yes	Yes	Yes	Yes	Yes
46XVR.FS08	8	46936.001	No	Yes	Yes	Yes	Yes	Yes
46XVR.FS16	16	46936.001	No	Yes	Yes	Yes	Yes	Yes

IP camera characteristics, with alarm input

Bullet (varifocal)				Dome (varifocal)			
Cameras	Sensor (resolution)	Lens	Alarms in/out	Cameras	Sensor (resolution)	Lens	Alarms in/out
4621.0722DMA	4 Mpx (2592 x 1520)	7 - 22 mm (motorised)	1 / 1	4622.2812GAE	6 Mpx (3296 x 1856)	2.8 - 12 mm (motorised)	1 / 1
4621.2812DA	4 Mpx (2560 x 1440)	2.8 - 12 mm	1 / 1	4624.028GAE	6 Mpx (3296 x 1856)	2.8 mm	1 / 1
4621.2812DDT	4 Mpx (2592 x 1520)	2.8 - 12 mm (motorised)	1 / 1	4622.2812FKA	8 Mpx (3840 x 2160)	2.8 - 12 mm (motorised)	1 / 1
4621.2812GAE	6 Mpx (3296 x 1856)	2.8 - 12 mm (motorised)	1 / 1	4626.040E	8 Mpx (2592 x 1944)	3.2 mm (motorised)	1 / 1

Panoramic				PTZ			
Cameras	Sensor (resolution)	Lens	Alarms in/out	Cameras	Sensor (resolution)	Lens	Alarms in/out
4624.180F	2 x 4 Mpx (4640 x 1760)	2 x 3 mm	1 / 1	46235.025D	4 Mpx (2560 x 1440)	4.8 - 120 mm (motorised)	1 / 1
				4623.003D	4 Mpx (2688 x 1520)	3.18 - 7.42 mm (motorised)	1 / 1

Fisheye			
Cameras	Sensor (resolution)	Lens	Alarms in/out
46234.010GA	6 Mpx (3296 x 1856) (2160 x 2160 panoramic)	1.65 mm	1 / 1

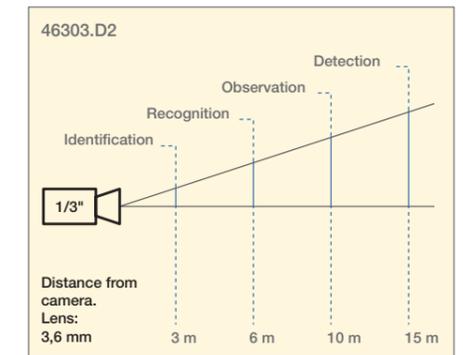
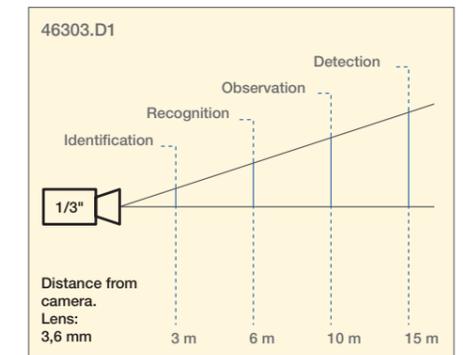
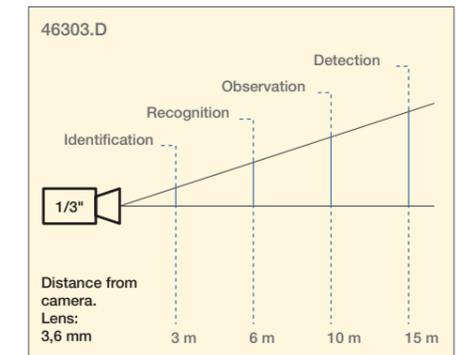
Wi-Fi special cameras



Code	46303.D	46303.D1	46303.D2
Sensor	1/3" CMOS Progressive scan, 4 Mpx	1/3" CMOS Progressive scan, 4 Mpx	1/3" CMOS Progressive scan, 4 Mpx
Resolution	2560 x 1440	2560 x 1440	2560 x 1440
Video compression	H.264 - H.265	H.264 - H.265	H.264 - H.265
Day & night	Auto(ICR)/Color/B&W	Auto/Colour/B&W	Auto(ICR)/Color/B&W
Lens	3,6 mm (95°)	3,6 mm (95°)	3,6 mm (120°)
Main frame rate	25 Fps (2560 x 1440)	25 Fps (2560 x 1440)	25 Fps (2560 x 1440)
Secondary frame rate	25 Fps (640 x 360)	25 Fps (640 x 360)	25 Fps (640 x 360)
Pan/Tilt limit	Pan: 0° ~ 50° Tilt: 0° ~ -350°	Pan: 0 ~ 355° Tilt: -30° ~ 77°	Pan: 0 ~ 350° Tilt: -90° ~ 30°
Wi-Fi	2,4 GHz & 5G (IEEE 802.11b/g/n/ax)	2,4 GHz & 5G (IEEE 802.11b/g/n/ax)	2,4 GHz & 5G (IEEE 802.11b/g/n/ax)
SD card	Yes, not included (256 GB max)	Yes, not included (256 GB max)	Yes, not included (256 GB max)
In/Out audio	1 integrated MIC and SPEAKER	1 integrated MIC and SPEAKER	1 integrated MIC and SPEAKER
In/Out alarm	No	No	No
Functions	Movement and acoustic detection, autotracking, people filter, 6 settable points and blanking of the video stream	Movement and acoustic detection, autotracking, people filter, 6 settable points and blanking of the video stream	Deterrent function with configurable white light and siren, movement and acoustic detection, autotracking, people filter
IR	10 m	10 m	10 m
IP/IK degree	-	-	IP65
Temperature range	0° C ~ +50° C	0° C ~ +50° C	-10° C ~ +50° C
Power supply/ consumptions	5Vdc - 560mA 2,9W	5 Vdc 700mA 3,5W	12 Vdc 500mA 6W
Dimensions in mm	Ø x 82 x 106	59 x 63 x 110	148 x 103 x 180
Weight (g)	188	161	530
Notes	Integrated omnidirectional antenna	Integrated omnidirectional antenna	Integrated omnidirectional antenna

\* RTSP: function for the connection to By-me Plus home automation system without using NVR or as additional camera for IP video entry systems.

DORI system parameters



View Camera app available on Vimar site or Apple and Google Play stores

Wi-Fi special cameras

Color



Micro+ Speaker  
Battery-powered  
Magnetic bracket

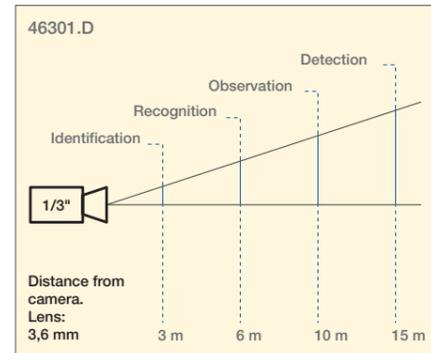
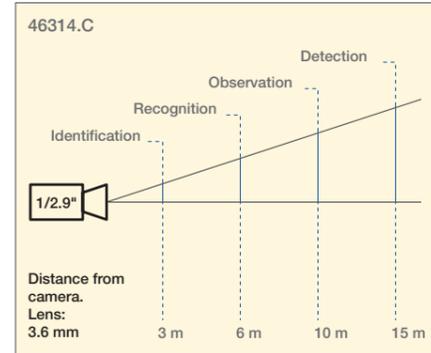
Color



Micro+ Speaker

Code	46314.C	46301.D
Sensor	1/2.9" CMOS Progressive scan, 3 Mpx	1/3" CMOS Progressive scan, 4 Mpx
Resolution	2304 x 1296	2560 x 1440
Video compression	H.265	H.264 - H.265
Day & night	Auto/Colour/B&W	Auto/Colour/B&W
Lens	3.6 mm (100°)	3.6 mm (95°)
Main frame rate	25 Fps (2304 x 1296)	25 Fps (2560 x 1440)
Secondary frame rate	25 Fps (640 x 360)	25 Fps (640 x 360)
Wi-Fi	2,4 GHz (IEEE 802.11b/g/n/ax)	2,4 GHz & 5 GHz (IEEE 802.11b/g/n/ax)
SD card	Yes, not included (256 GB max)	Yes, not included (256 GB max)
In/Out audio	1 integrated MIC and SPEAKER	1 integrated MIC and SPEAKER
In/Out alarm	No	No
Functions	Human body detection, color vision at night with configurable white light illuminator and siren	Deterrent function with configurable white light and siren, movement and acoustic detection, people filter and blanking of the video stream
IR	10 m	10 m
IP/IK degree	IP65	IP65
Temperature range	-10° C ~ +50° C	-10° C ~ +50° C
Power supply/ consumptions	5 Vdc - 600mA - 3W	12 Vdc 390mA - 4,7W
Dimensions in mm	52 x 62 x 98	133 x 64 x 62
Weight (g)	265	170
Notes	Integrated omnidirectional antenna	Integrated omnidirectional antenna

DORI system parameters



Wi-Fi special cameras

Color



Micro+ Speaker  
Battery-powered

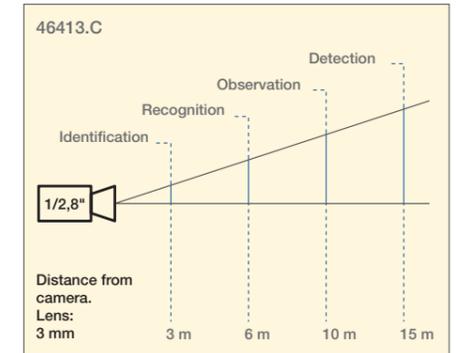
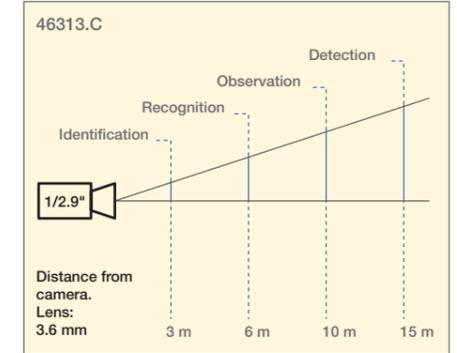
Color



Micro+ Speaker  
Battery-powered

Code	46313.C	46413.C
Sensor	1/2.9" CMOS Progressive scan, 3 Mpx	1/2.8" CMOS Progressive scan, 3 Mpx
Resolution	2304 x 1296	2304 x 1296
Video compression	H.265	H.265
Day & night	Auto/Colour/B&W	Auto/Colour/B&W
Lens	3,6 mm 100°	3 mm (120°)
Main frame rate	25 Fps (2304 x 1296)	25 Fps (2304 x 1296)
Secondary frame rate	25 Fps (640 x 360)	25 Fps (640 x 360)
Wi-Fi	2,4 GHz (IEEE 802.11b/g/n/ax)	4G LTE
SD card	Yes, not included (256 GB max)	Yes, not included (256 GB max)
In/Out audio	1 integrated MIC and SPEAKER	1 integrated MIC and SPEAKER
In/Out alarm	No	No
Functions	Human body detection, color vision at night with configurable white light illuminator and siren	Human body detection, color vision at night with configurable white light illuminator and siren
IR	10 m	10 m
IP/IK degree	IP65	IP65
Temperature range	-10° C ~ +50° C	-10° C ~ +50° C
Power supply/ consumptions	5 Vdc - 800mA 4W	5 Vdc - 900 mA 4,5 W
Dimensions in mm	158 x 103 x 200	158 x 103 x 200
Weight (g)	730	730
Notes	Integrated omnidirectional antenna	Integrated omnidirectional antenna

DORI system parameters



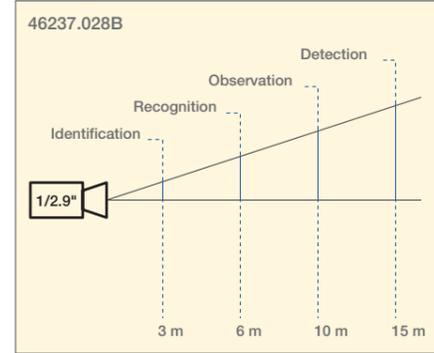
Wi-Fi special cameras

Micro+  
Speaker



Code	Δ 46237.028B
Sensor	1/2.9" CMOS Progressive scan, 3 Mpx
Resolution	2304 x 1296
Video compression	H.264 - H.265
Day & night	Auto/Colour/B&W
Lens	2,8 mm 101°
Main frame rate	25 Fps (2304 x 1296)
Secondary frame rate	25 Fps (640 x 360)
Wi-Fi	2,4 GHz (IEEE 802.11b/g/n)
SD card	Yes, not included (128 GB max)
In/Out audio	1 integrated MIC and SPEAKER
In/Out alarm	No
Functions	Deterrent function, movement and acoustic detection, colour night vision and blanking of the video stream
IR	10 m
IP/IK degree	IP65
Temperature range	-10° C ~ +50° C
Power supply/ consumptions	12 Vdc - 1 A, 4,5 W
Dimensions in mm	141 x 64 x 62
Weight (g)	235
Notes	Integrated omnidirectional antenna

DORI system parameters



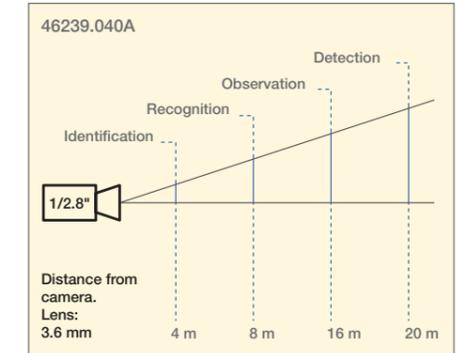
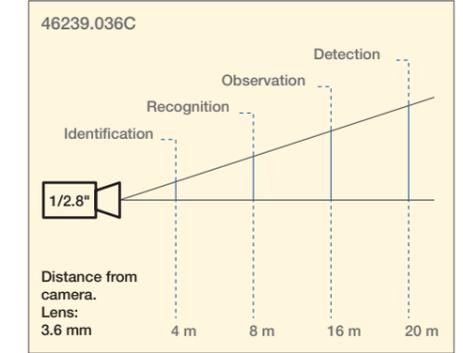
Wi-Fi special cameras

Micro+  
Speaker



Code	Δ 46239.036C	Δ 46239.040A
Sensor	1/2.8" CMOS Progressive scan, 3 Mpx	1/2.8" CMOS Progressive scan, 3 Mpx
Resolution	2304 x 1296	2304 x 1296
Video compression	H.264 - H.265	H.264 - H.265
Day & night	Auto/Colour/B&W	Auto/Colour/B&W
Lens	3,6 mm (110°)	3,6 mm (100°)
Main frame rate	25 Fps (2304 x 1296)	25 Fps (2304 x 1296)
Secondary frame rate	25 Fps (640 x 360)	25 Fps (640 x 360)
Pan/Tilt limit	Pan: 0 ~ 355° Tilt: -30° ~ 77°	Pan: 0 ~ 355° Tilt: -10° ~ 75°
Wi-Fi	2,4 GHz & 5G (IEEE 802.11b/g/n/ac)	2,4 GHz (IEEE 802.11b/g/n)
SD card	Yes, not included (128 GB max)	Yes, not included (128 GB max)
In/Out audio	1 integrated MIC and SPEAKER	1 integrated MIC and SPEAKER
In/Out alarm	No	No
Functions	Movement and acoustic detection and blanking of the video stream	Movement and acoustic detection and blanking of the video stream
IR	10 m	10 m
IP/IK degree	-	-
Temperature range	0° C ~ +50° C	0° C ~ +55° C
Power supply/ consumptions	5 Vdc - 1 A, 3,5W	5 Vdc 820 mA, 4,1 W
Dimensions in mm	59 x 63 x 110	ø 87 x 123
Weight (g)	161	185
Notes	Integrated omnidirectional antenna	Integrated omnidirectional antenna

DORI system parameters



**EDVEX** CCTV : Wi-Fi special cameras

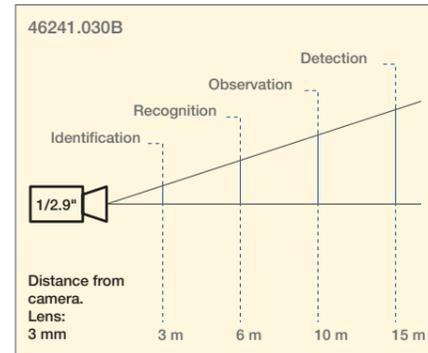
Wi-Fi special cameras



Code	<b>Δ 46241.030B</b>
Sensor	1/2.9" CMOS Progressive scan, 2 Mpx
Resolution	1920 x 1080
Video compression	H.264 - H.265
Day & night	Auto(ICR)/Color/B&W
Lens	3 mm (102°)
Main frame rate	25 Fps (1920 x 1080)
Secondary frame rate	25 Fps (640 x 360)
Pan/Tilt limit	Pan: 0 ~ 350° Tilt: -90° ~ -30°
Wi-Fi	2,4 GHz (IEEE 802.11b/g/n)
SD card	Yes, not included (128 GB max)
In/Out audio	1 integrated MIC and SPEAKER
In/Out alarm	No
Functions	Deterrent function, movement and acoustic detection and colour night vision
IR	10 m
IP/IK degree	IP65
Temperature range	-10° C ~ +50° C
Power supply/ consumptions	12 Vdc 1 A, 4,7 W
Dimensions in mm	148 x 103 x 108
Weight (g)	530
Notes	Integrated omnidirectional antenna

\* **RTSP**: function for the connection to By-me Plus home automation system without using NVR or as additional camera for IP video entry systems.

DORI system parameters



**Energia Positiva. Insieme**

