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ELVOX CCTV

ELVOX CCTV

VIDEOSURVEILLANCE SYSTEMS THAT ARE INCREASINGLY SOPHISTICATED FOR ULTRA-HIGH RESOLUTION MONITORING.

Protecting premises against intrusion from the outside and guaranteeing constant, round-the-clock control: these are the prerequisites on which the Vimar offering of building security products is based.

Different products that deliver the same high precision and reliability.

Our videosurveillance offering incorporates a broad range of solutions to meet any installation requirement. Advanced products designed to offer a practical response to the demands of installers and users, with the quality and high performance that Vimar has always guaranteed.

Video cameras

For the residential, tertiary and industrial sectors, with fixed focus or varifocal lenses and bullet or dome designs. The range of Elvox CCTV cameras combines simplified installation with high performance, delivering maximum efficiency and total security.

DVR / NVR

Various models for recording high-resolution images transmitted from video cameras. Each type offers different performance and signal transmission capabilities: DVRs interface directly with video cameras, whereas NVRs rely on IP technology.

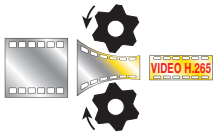
Monitors and accessories

The basic kit is complemented by a wide variety of equipment, including customised devices: from monitors and power supplies to transducers, brackets and cases. The package is of superior quality and made to measure for every application and requirement.

Two technologies for every type of installation.

To respond precisely to the different needs of the users who install them, the Vimar videosurveillance offering is available with two different technologies, IP and AHD, both offering high performance and a wide range of solutions in terms of resolution, ease of installation, configuration and management.
IP cameras from 2 to 8 Mpx (4K) ensure filming even in very low brightness, offering video analysis functions that scan images to detect abnormal behaviour, as well as H.265 video compression to optimise both data storage space in the NVR and data traffic over the network. NVRs are available with up to 64 channels.
The range of AHD video cameras from Full HD to 4 Mpx combines high resolution with the same easy installation as analogue cameras. Innovative video cameras, easily and quickly configurable by OSD. Versatile and complete solutions designed to keep everything under control with the utmost precision.

IP technology.
Full HD, 2K and up to 5 Mpx for maximum performance.



H.265 video compression.

For optimal management of the enormous data stream originating from the video cameras, in terms of data band, bit rate and space required for recording to HDD. The H.265 technology can transmit videos with 50% the bit rate compared to the H.264 standard.

Plug&Play configuration.

Simply by connecting the cameras to the integrated PoE switch, the NVR is capable of automatically configuring the addresses of those cameras and sending the video streams to the screen without requiring any further configuration by the user.

Power over Ethernet.

A range offering quick installation using Power over Ethernet (PoE) that allows the use of a single cable to transmit signals and to power the camera.

Total visibility.

Wide Dynamic Range technology improves images with strong brightness contrasts, ensuring visibility remains high in the event of strong backlighting.

Mini Dome cam

With a resolution of 4 Mpx, it is characterized by a sophisticated design and compact dimensions, suitable for both indoor and outdoor installations even in hard conditions thanks to the IK10 certification. It has an integrated environmental microphone.

Fisheye cam

It is designed to control large areas and it can be installed on the ceiling and placed on the table for a view of 360 ° and on the wall for a 180 ° panoramic view. Thanks to the powerful "dewarping" algorithm, the image can be set as desired, even from a smartphone.

New video cameras and new features: even better performance.

Low Light video cameras.

New 2 Mpx Bullet and Dome cameras for indoor and outdoor applications with 3,6 mm fixed lens and 2,8-12 mm varifocal lens.

They are characterised by high light sensitivity and capture clear images and colours, even in low light conditions. Sensitivity: colour 0,002 Lux; B/W 0,0002 Lux.

Standard video camera

Low Light video camera

Video analysis: new features

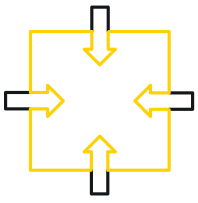
In videosurveillance systems, video analysis allows prompt detection of security breaches and suspicious behaviour, to prevent incidents at an early stage. Video analysis automatically generates events and this information can be used to home in on people, cars and other objects detected in video footage, helping to establish what action to take, such as alerting security guards or initiating a recording.

Video analysis offers many advantages, such as:

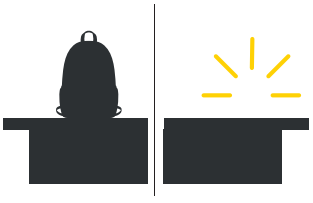
- **Cost reduction and time saving**: less footage is uploaded to the network, which reduces data traffic and storage space and makes monitoring and searching through footage easier.
- **Increased efficiency**: automatic video monitoring detects security breaches and allows the operator to prevent incidents, rather than react to them after the event.

Video analysis applications

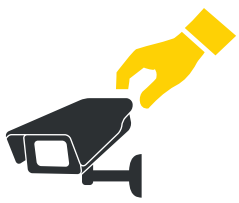
Line crossing



Area intrusion



Left or removed object



Technical faults (failure or tampering)

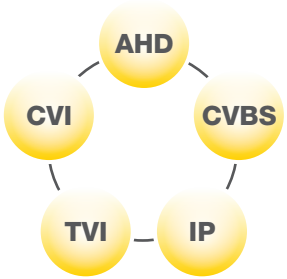
The system records information:
- whenever **a person crosses a line or a virtual area** (defined in the graphic interface);
- whenever **an object is removed from** the camera's area of coverage;
- whenever the **camera has been damaged or is malfunctioning**;

all generated events are communicated to the NVR, which starts recording or activates the alarm.

AHD technology. Ultra-high resolution analogue up to 4 Mpx.

High resolution over long distances.

Cameras with 4 Mpx (2560x1440 pixel), 3 Mpx (2048x1536 pixel), 1080p (1920 x 1080 pixel) and 720p (1280 x 720 pixel) resolution, for transmitting 4 Mpx HD resolution signals with no latency over distances of up to 400 m (720p) using a standard RG59 coaxial cable.



Multi-tecnology AHD DVRs

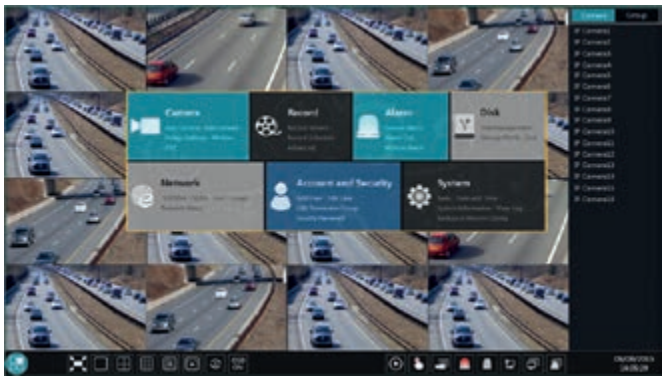
The multi-technology DVR enables the possibility to select the input technology for each channel between: AHD, CVBS, IP, TVI and CVI.
The AHD 4 Mpx and 1080p DVR enables also the connection of additional IP cameras to hybrid channels.

Easy to configure.

The functions are already preset to achieve perfect visibility in all conditions. The 1080p video cameras fits to the cable an AHD/CVBS to make installation easier. The 4 Mpx, 3 Mpx and 1080p video cameras can be configured via the OSD control fitted to the cable or directly through the 4 Mpx and 1080p DVR interface, by means of the new CsC (Control on Coaxial) function.

Wide range of lenses.

A complete range of fixed focus and varifocal Bullet and Dome cameras with easy access to zoom and focus controls, as well as new fixed focus 2,8 mm and varifocal 2,7 to 13,5 mm video cameras. The DVRs all have a professional Hard Disk from 1 TB, record in up to 4 Mpx resolution, and can be controlled from home automation systems (e.g. By-me and Well-contact Plus KNx) using the CCTV Controller application.

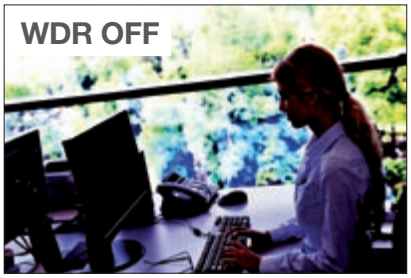


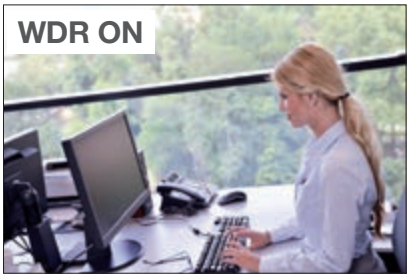
DVRs with new user interfaces.

The AHD 4 Mpx DVRs come with a new, more modern and practical graphic interface, just like the IP range NVRs.

Total visibility.

WDR and 3DNR, configurable functions guaranteeing perfect visibility and well-defined contours, correcting images in the event of strong backlighting, overexposure or darkness.



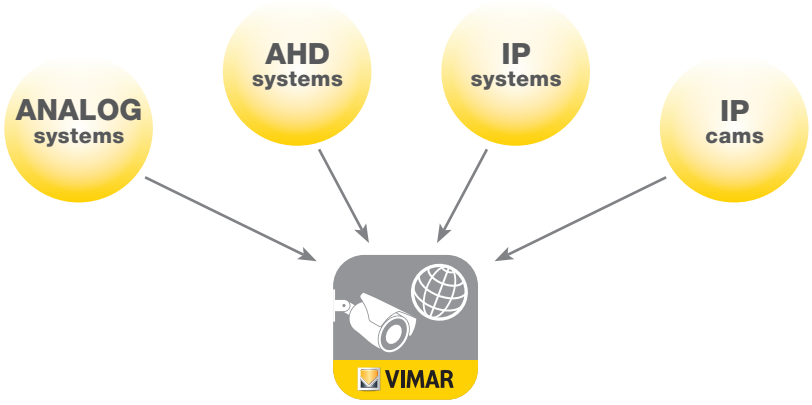


NEW BY-CAMERA APP, FOR AHD AND IP SYSTEM VIDEOSURVELLANCE.

The **By-camera** app manages new and existing CCTV systems, both IP and AHD technology.

Customisable app.

From the app it is possible take action on the settings of DVR / NVR video recorders and create favorite screens. The favorite screens can be made in a single screen with video streams coming from different systems of different technology:, analog, AHD, IP and IP cameras.



Vertical and horizontal orientation.

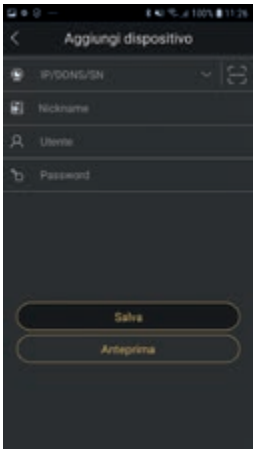
The app works both on smartphones and on tablets, and visualizes the screens both vertically and horizontally, to allow an optimal view of the shots.

Notifications

By the app, you receive in real time the notifications about the events on your smartphone and by e-mail.

By-camera app, available for iOS and Android systems downloadable from Apple and Google Play stores.

Download on the App Store GET IT ON Google Play



QR CODE

Internet
DDNS

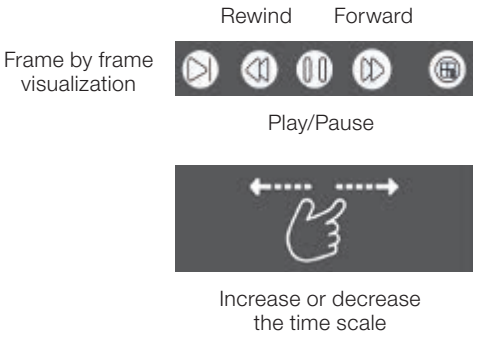
IP STATIC

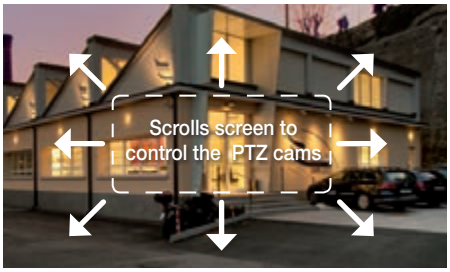
Immediate connection.

Immediate access to the system, remotely and without router configuration. It is necessary to scan the QR-code by the app to visualize the video streaming of the cameras. In the advanced mode, it is possible to enter the IP address both static and dynamic and the configuration of own router.

Simplified playing.

It is easy to navigate through the recordings thanks to simple and intuitive interface, from the time scale differentiated for event to the definition of the color.



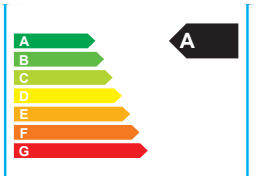


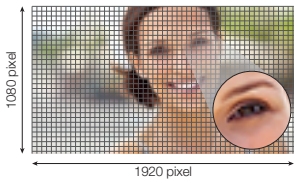
Cams remote control.

From smartphone it is possible to control and operate the motorised and the PTZ cameras.

RANGE OF MONITOR. HIGH QUALITY OF VIEWING WITH HD AND FULL HD RESOLUTION.

Professional monitors suitable for intensive use are available in sizes from 19,5” to 23,6” with 16:9 aspect ratio. Versions that support HDMI, VGA and CVBS BNC connections, to use for videosurveillance systems integrating AHD and IP technology.





Energy rating.

The new range of monitors have an A-class energy rating.

Full HD resolution.

19,5”/23,6” monitors with Full HD resolution (1920 x 1080 pixel).

THE QUALITY OF OUR SYSTEMS IS BASED ON A COMMON PLATFORM.

Whether IP or AHD, all Vimar videosurveillance solutions are underpinned by a series of common features that make them highly effective, easy to use, quick to install, flexible and versatile, thus ensuring a better quality of life and better work results.

Plug&Play configuration.

No configuration is required for any of the technologies. Easy installation guaranteed, for every technology.

QR Code.

Immediate remote access from your DVR/NVR via tablet and smartphone. Simply scan the QR Code using the dedicated App and you can access the camera video streaming from anywhere, without having to configure the router.

CVM Software.

One single centralisation software for remotely monitoring and managing up to 256 DVR/NVRs of all four Elvox TVCC technologies

Multimedia Video Touch Screen 10”.

All Elvox CCTV technologies are managed from the Multimedia Video Touch Screen used in home automation systems (By-me and Well-contact Plus KNx).

Continuous security.

Every DVR/NVR has a specific hard disk for videosurveillance applications, designed for continuous operation, 24 hours a day, 7 days a week.

SEAMLESS COMPATIBILITY HAS ITS BENEFITS.

The extensive range of Elvox CCTV products integrates perfectly with other Vimar security systems, so that homes are protected against intrusion and unwanted access, safe from environmental damage and responsive to technical alarms - because your safety and security are our highest priority.

By-alarm - Professional and highly flexible anti-intrusion system.

Thanks to the By-alarm intrusion detection alarm system, protecting spaces against intrusion and developing a solution that mirrors everyone's real protection needs is easy and intuitive. Available in the standalone version, and easily expandable with a vast range of devices. Its high quality is assured by CEI EN 50131 certification (Grade 2).

By-alarm Manager app

Video Door app

Elvox door entry systems, in tune with the future.

Advanced solutions based on innovative technology that ensure security and clarity, simultaneously combining user-friendly operation with a system that is simple to install. Not to mention a sharp focus on design and typically stylish Italian production, which provides essential added value. With Due Fili Plus technology, there is scope for the creation of systems handling up to 484 entrance panels, 6400 indoor units and 128 porter switchboards. Audio and video signals are reproduced with ultra-high fidelity up to a distance of 1200 metres between the entrance panel and indoor station.

IP technology enables it to go beyond the limits of traditional video door entry systems. Performance is enhanced, and audio and video signal quality is guaranteed and protected, whatever the size of the building complex. For efficient, high-performance communication.

Elvox gates - Motors for gates and shutters.

An extensive range of automation systems for sliding or swing gates, up-and-over doors, road barriers, rolling doors and roller shutters.
Elvox automatic gate systems have been designed to give the best in terms of quality, performance and safety. All products comply with European safety standards and further benefit from the use of materials that guarantee high performance levels and durability, a design that enhances the product's aesthetic appeal and the application of precise and reliable mechanics. For truly perfect access control.

By-gate app

By-gate Pro app

By-me: automation for the home and small tertiary sectors.

By-me is automation according to Vimar: a range of smart, intercommunicating products designed to improve everyday life, reduce power consumption and perform complex operations with minimal user intervention.
Inside an automated building, the various functions communicate with each other in a comprehensive and continuous way, offering countless possibilities to facilitate both large and small daily actions, while ensuring even greater energy efficiency, safety, comfort and control.

By-web app

By-phone app

VIEW: VIMAR ENERGY on the WEB.

Smart products and interconnected systems.

What is VIEW? VIEW is a range of stylistically matching smart products and interconnected systems that are also compatible with other manufacturers' products, all conceived with the aim of increasing simplicity for users and offering them an intuitive experience, working towards total control of their homes and a smart lifestyle.

In line with this premise, VIEW is Vimar's vision of the digital world and of the Internet of Things, which forms the guiding principle for the ongoing development of smart solutions, all connected to each other, to the Internet and to the user by means of state-of-the-art digital technologies. VIEW looks to the future, today.

Full control via APP.

All you need is your smartphone to manage and supervise your home and the objects in it, easily and instantly.

CONNECTED SYSTEMS AND PRODUCTS

SOLUTIONS OFFERING COMFORT, SAFETY AND ENERGY EFFICIENCY

ADDED VALUE SERVICES

VIEW

IoT smart life

PARTNERSHIPS WITH STANDARD PROTOCOLS AND THIRD-PARTY SYSTEMS

STYLISTICALLY MATCHING PRODUCTS AND USER INTERFACES

INTEGRATION BETWEEN VARIOUS SYSTEMS FOR A SINGLE USER EXPERIENCE

A host of benefits that reflect the needs of a modern lifestyle.

CONNECTED SYSTEMS AND PRODUCTS

Vimar has created a whole range of systems that share a contemporary styling approach and wireless products utilizing technologies that are intuitive, reliable and precise.

CONNECTED SYSTEMS

By-me
Home automation

Well-contact Plus
Building automation

Elvox Door entry

By-alarm
Burglar alarm system

Elvox CCTV

Call-way
Emergency call system

Elvox Gates

CONNECTED PRODUCTS

ClimaCrono
Wi-Fi thermostat

ClimaPhone
GSM thermostat

Stand alone
sound system

Radio frequency
devices

Wi-Fi access point

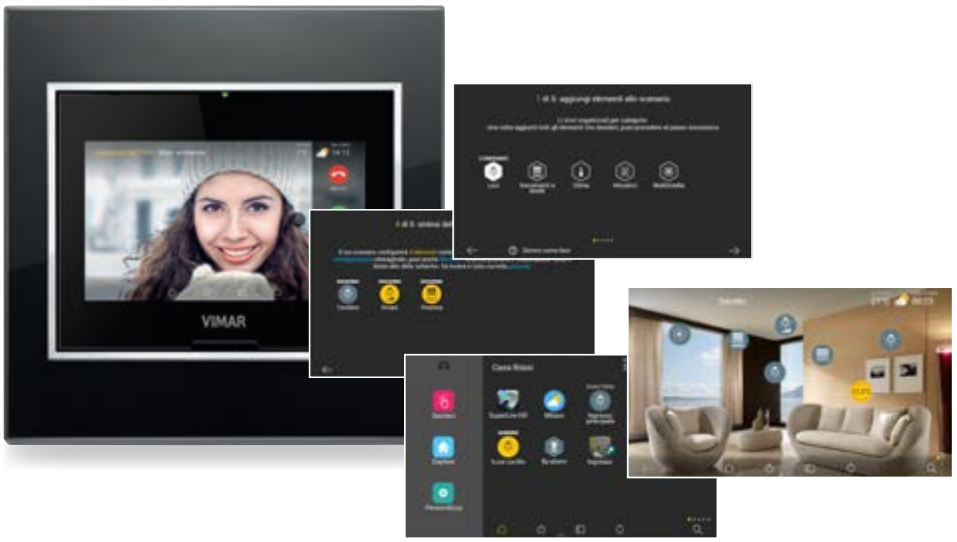
Wi-Fi cameras

SOLUTIONS OFFERING COMFORT, SAFETY AND ENERGY EFFICIENCY

Effective, complete and suitable for all types of buildings, the solutions supported by View have been designed to provide maximum comfort and security. And all while ensuring the highest level of energy efficiency.

STYLISTICALLY MATCHING PRODUCTS AND USER INTERFACES

As with all Vimar products, View solutions are aesthetically coordinated right down to the last detail, in line with our philosophy that technology and style should always go hand-in-hand.



INTEGRATION BETWEEN VARIOUS SYSTEMS FOR A SINGLE USER EXPERIENCE

Smart products and interconnected systems also integrate seamlessly with products by other manufacturers, thus making life easier by providing a single user experience.

PARTNERSHIPS WITH STANDARD PROTOCOLS AND THIRD-PARTY SYSTEMS

In order to offer a comprehensive, fully integrated service, maximum synergy and partnership between Vimar protocols and those of leading brands in other production segments are guaranteed by specific international standards.

Friends of hue
personal wireless lighting

ADDED VALUE SERVICES

Vimar supports sector professionals through training courses, dedicated technical assistance, a toll-free phone number and personalised consultancy services. These activities are aimed at increasing the levels of expertise, safety and quality in their work.

Videosurveillance system

General features

CVM control software

CVM-ELVOx (Central Video Management) software is an advanced application for centralised monitoring and management of DVRs and NVRs.
This software makes it possible to monitor up to 256 DVR/NVR machines over the local network or Internet, even with mixed technology (AHD-IP), via an interface that is fully configurable according to the user's needs.
The user interface provides access to all DVR/NVR configurations:

- enable and adjust motion detection features;
- manage time settings and recording modes;
- export footage;
- manage user permissions etc.;
- alarm notification system with pop-up windows showing footage from the camera affected;
- flexible choice of layouts;
- use graphic maps to personalise and facilitate the effective monitoring of very large premises, or the centralised monitoring of remotely dispersed sites by a single operator.

Operating system requirements:

Windows 7 (32bit/64bit, SP1 support), Directx 11.0 or later
Windows 8 (32bit/64bit), Directx 11.0 or later

Hardware requirements:

CPU	Intel Core Duo, 2,6 GHz or higher
Memory	2 GB or more
HDD	250 GB or more
Graphics card	Dedicated graphics card 512 MB graphics memory or higher

Installation examples

Function

Multi-window management: the multi-monitor client system allows multiple windows to be displayed at the same time, increasing the number of viewable cameras and enabling simultaneous management of maps, video playback and settings.

Live viewing: display up to 100 video cameras from multiple DVRs/NVRs in a single window, control PTZ via the LIVE interface by means of manual movements or adjusting preset positions.
Video cameras can be organised into logical groups for easier management (e.g. "Perimeter cameras", "Goods unloading area", etc.).
The image quality of the primary and secondary stream can be changed to adapt to bandwidth requirements.
The software can be programmed to display individual cameras or groups of cameras cyclically without the need for operator intervention.
If an alarm event occurs, a full screen pop-up will appear with images of the video camera that triggered the alarm.
Images can also be captured using the "snapshot" function during live video playback.

Two-way audio: the operator can open a speak/listen audio channel with the DVR/NVR over the IP connection, with independent activation of transmission and reception. This function can be used to interact with a local operator or broadcast messages over a PA system by activating a connection with the audio input and output of the DVR/NVR.

Remote control of DVR/NVR digital outputs and inputs: the graphic interface can be used to remotely activate - both automatically and manually - the digital outputs of the DVR to remotely operate devices, such as turning on lights or opening access points.

Device management: add and remove devices via the CVM application, either manually or by automatically searching for devices connected to the internal network. Modify device characteristics (such as network settings for all devices, image settings for video cameras, and recording and motion detection alarm settings for DVRs/NVRs), either centrally using the CVM dashboard or by adjusting the internal configuration parameters of the device itself. It is also possible to create and modify the parameters of camera groups to provide timed panoramic playback of selected cameras, all within the same window.

Graphic maps: insert graphic maps specifying the positions of cameras and sensors controlled by the DVR, in order to clearly identify the field of coverage. Alarms are indicated by the flashing of the corresponding camera/sensor icon and a pop-up window showing a live image of the event. In addition to zooming in on the map, a hierarchical view of multiple maps can be created to obtain more detail.

Footage recording: digitised video streams from each source can be recorded to a local or network disk. Recording is programmable and can be scheduled to perform centralised backup of multiple devices, thereby allowing a redundant copy to be created for security purposes.

Footage playback: simultaneous playback of up to 25 channels in sync with each other, including from multiple devices. Footage searches can be performed by time period or by retrieving the alarm event (motion detection or alarm input) from the logs list.
To facilitate searching for events, alarms on the video stream are colour coded: green for data from manual recordings, yellow for footage recorded following a movement event, blue for scheduled recordings, and red for recordings triggered by an outdoor sensor.

Manage multiple accounts: create unlimited user profiles in the system, each with customised access permissions (show or hide certain devices, graphic maps, lock access to recordings or to PTZ controls, etc.). In addition, user operations are logged under the user's account name (live view, PTZ control) for a configurable period.

Main software screen

Live viewing function

Graphic maps function

Device manager function

Footage recording function

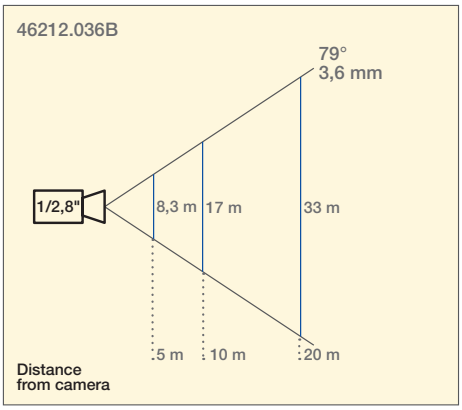
Footage playback function

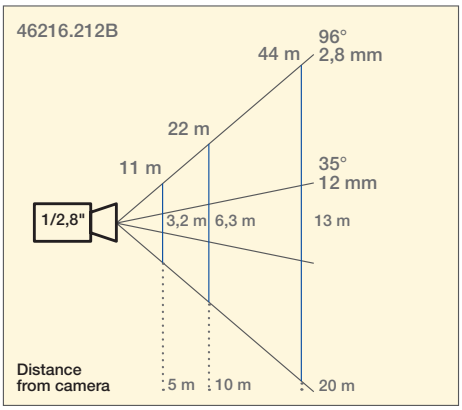
IP Bullet cameras - 2 Mpx

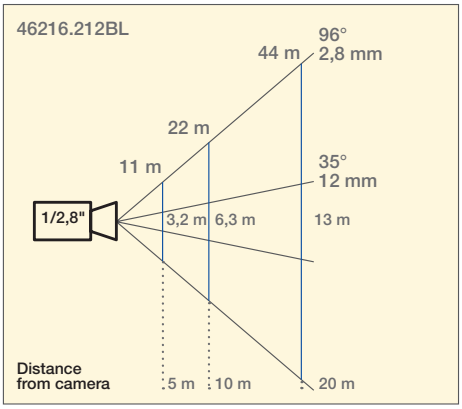
Models	46212.036B	46216.212B	46216.212BL
Sensor	1/2,8" CMOS progressive scan, 2 Mpx	1/2,8" CMOS progressive scan, 2 Mpx	1/2,8" CMOS high sensibility sensor, 2 Mpx
Resolution	1920 x 1080	1920 x 1080	1920 x 1080
Sensitivity	0,1 Lux@F1,2 (AGC ON); 0 LUx (IR LED ON)	0,1 Lux@F1,2 (AGC ON); 0 LUx (IR LED ON)	Color 0.002 lux @F1.2, AGC ON B&W 0.0002 Lux @ F1.2, AGC ON
Video compression	H.264	H.264	H264-MJPEG
Day & night	ICR	ICR	ICR
Lens	3,6 mm @F1,6 view angle: 79°	2,8 - 12 mm @F1,4 view angle: 96° - 35°	2,8-12 mm
Main frame rate	30 Fps (1920 x 1080) 30 Fps (1280 x 720)	30 Fps (1920 x 1080) 30 Fps (1280 x 720)	30 Fps (1920x 1080) (1280x720)
Secondary frame rate	30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)	30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)	30 Fps (704x576) (480x240) (352x288)
Bit Rate	256 kbps ~ 5 Mbs	256 kbps ~ 5 Mbs	128 kbps ~ 6 Mbs
SD card	No	No	No
Audio in/out	0/0	0/0	0/0
In/out alarm	0/0	0/0	0/0
CVBS output video	No	No	No
Function	WDR, Smart-IR, ROI, 3DNR, Mask, Motion	WDR, Smart-IR, ROI, 3DNR, Mask, Motion	D-WDR, 3D-DNR, ROI Privacy Mask, Motion
Compatibility	ONVIF	ONVIF	ONVIF
IR range	20 - 30 m	20 - 30 m	20 - 30 m
Protection rating IP	IP66	IP66	IP66
Operating temperature	-10° C / +50° C	-10° C / +50° C	-10° C / + 50° C
Power supply / consumption	12 Vdc / PoE 420 mA 5 W	12 Vdc / PoE 420 mA, 5 W	12 Vdc / PoE 500 mA, 6 W
Dimensions (mm)	87 x 87 x 219	87 x 87 x 219	87 x 87 x 219
Weight (g)	635	635	635
Notes	RTSP*, multi-stream. Bracket included. Installable with 46922.014 contact box	RTSP*, multi-stream. Bracket included. Installable with 46922.014 contact box	RTSP*, multi-stream. Bracket included. Installable with 46922.014 contact box

*** RTSP:** function for connecting directly to the By-me home automation system without using NVR or as additional cam for IP video entry system.

Shooting range







Low Light cameras (46216.212BL)

Standard cam shooting

Low Light cam shooting

The Low Light cameras are characterized by the highest sensitivity to light and ensure sharp color images even in even in low light conditions.
Sensitivity: colors 0,002 Lux; B/W 0,0002 Lux.

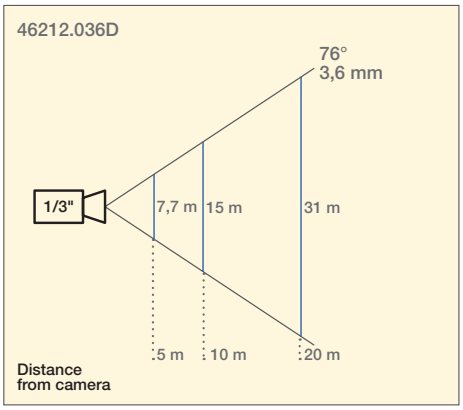
▲ New article Δ Available while stocks last * Not to be used in European Countries

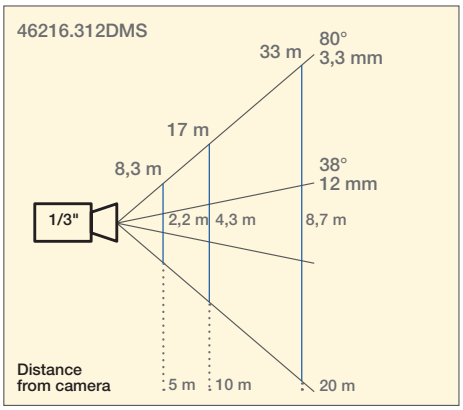
IP Bullet cameras - 4 Mpx

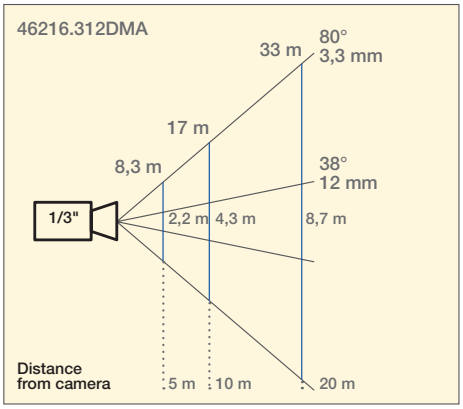
Models	46212.036D	46216.312DMS motorised	46216.312DMA motorised
Sensor	1/3" CMOS progressive scan, 4 Mpx	1/3" CMOS progressive scan, 4 Mpx	1/3" CMOS progressive scan, 4 Mpx
Resolution	2592 × 1520	2592 × 1520	2592 x 1520
Sensitivity	0.05 lux @F1.2, AGC ON; 0 lux (IR led ON)	0.05 lux @F1.2, AGC ON; 0 lux (IR led ON)	0.05 lux@F1.2, AGC ON; 0 Lux (IR led ON)
Video compression	H264 - H265	H264 - H265	H264 -H265
Day & night	ICR	ICR	ICR
Lens	3,6 mm @ F1.6 view angle: 76°	Motorised: 3.3 ~ 12 mm @ F1.4 view angle: 80° ~ 38°	Motorised: 3,3 - 12 mm @F1.4 view angle: 80° - 38°
Main frame rate	20 Fps (2592 x 1520) 20 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280x 720)	20 Fps (2592 x 1520) 20 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280x 720)	30 Fps (2592 x 1520) 30 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280x 720)
Secondary frame rate	30 Fps (1280x 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)	30 Fps (1280x 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)	30 Fps (1280x 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)
Bit Rate	128 kbps ~ 8 Mbs	128 kbps / 8 Mbs	128 kbps / 9 Mbs
SD card	No	No	Yes not included (128GB max)
Audio in/out	0/0	0/0	1/1
In/out alarm	0/0	0/0	1/1
CVBS output video	No	No	Si
Function	-	-	Line crossing, area intrusion, left and removed object and faults
Compatibility	WDR, smart IR, ROI, 3DNR, Mask, Motion, Defog	WDR, Smart IR, ROI, 3DNR, Mask, Motion, Defog	Real WDR, Smart IR, ROI, 3DNR, Mask, Motion, HLC, BLC, Defog
IR range	ONVIF	ONVIF	ONVIF
Protection rating IP	20 - 30 m	20 - 30 m	30 - 50 m
Operating temperature	IP66	IP66	IP66
Power supply / consumption	-10° C / +50° C	-10° C / +50° C	-10° C / +50° C
Dimensions (mm)	12 Vdc / PoE - 450 mA 5,4 W	12 Vdc / PoE - 660 mA 8 W	12 Vdc / PoE - 650 mA 7,8 W
Weight (g)	87 x 87 x 219	87 x 87 x 219	109 x 109 x 264
Notes	635	635	1115
Note	RTSP*, multi-stream, Bracket included. Installable with 46922.014 contact box	RTSP*, multi-stream, Bracket included. Installable with 46922.014 contact box	RTSP*, multi-stream. Bracket included. Installable with 46922.013 contact box.

*** RTSP:** function for connecting directly to the By-me home automation system without using NVR or as additional cam for IP video entry system.

Shooting range

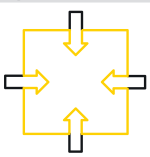




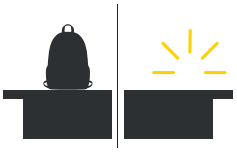


Video analysis applications (46216.312DMA)

Line crossing



Area intrusion



Left and removed object

Technical fault (failure or tampering)

The system records the information:
- if a person crosses a line or a virtual area (defined in the graphical interface);
- if an object is removed within the camera shooting area;
- if the camera has been damaged or is malfunctioning;

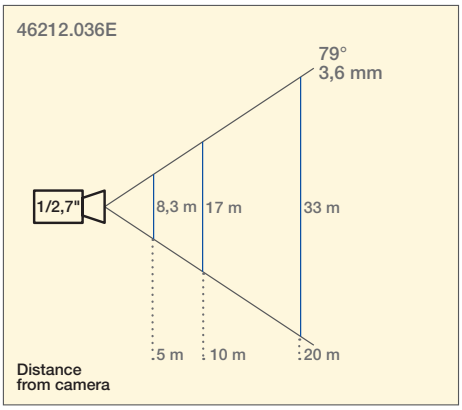
all the events generated are notified to the NVR, activating the recording or the alarm

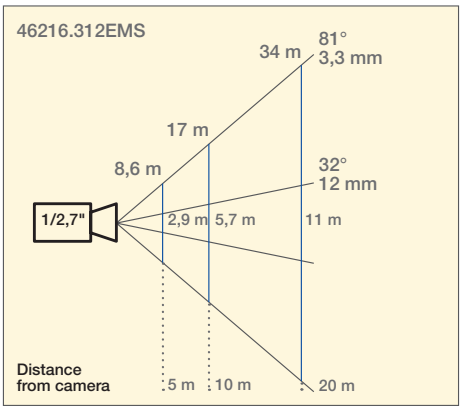
IP Bullet cameras - 5 Mpx

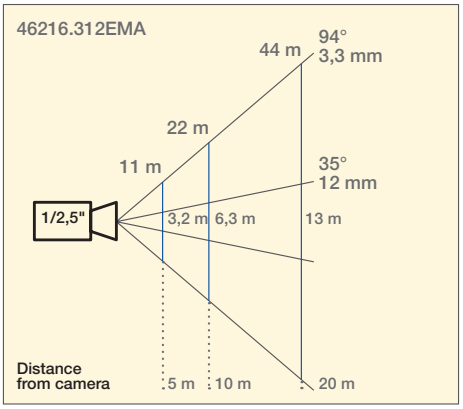
Models	▲ 46212.036E	▲ 46216.312EMS motorised	▲ 46216.312EMA motorised
Sensor	1/2,7" CMOS progressive scan, 5 Mpx	1/2,7" CMOS progressive scan, 5 Mpx	1/2,5" CMOS progressive scan, 5 Mpx
Resolution	2592 x 1944	2592 x 1944	2592 x 1944
Sensitivity	0.013 lux @F1.2, AGC ON; 0 lux (IR led ON)	0.013 lux @F1.2, AGC ON; 0 lux (IR led ON)	0.036 lux@F2.0, AGC ON; 0 Lux (IR led ON)
Video compression	H264 - H265 - MJPEG	H264 - H265 - MJPEG	H264 - H265 - MJPEG
Day & night	ICR	ICR	ICR
Lens	3,6 mm @ F2.0 view angle: 79°	Motorised 3.3 ~ 12 mm @ F1.4 view angle: 81° ~ 32°	Motorised 3,3 - 12 mm @F1.4 view angle: 94° - 35°
Main frame rate	20 Fps (2592 x 1944) 30 Fps (2592 x 1520) 30 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280X 720)	20 Fps (2592 x 1944) 30 Fps (2592 x 1520) 30 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280X 720)	30 Fps (2592 x 1944) 30 Fps (2592 x 1520) 30 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280X 720)
Secondary frame rate	30 Fps (1280X 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 X 240)	30 Fps (1280X 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 X 240)	15 Fps (1280X 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 X 240)
Bit Rate	128 kbps ~ 10 Mbs	128 kbps ~ 10 Mbs	128 kbps ~ 10 Mbs
SD card	No	No	Yes not included (128GB max)
Audio in/out	0/0	0/0	1/1
In/out alarm	0/0	0/0	1/1
CVBS output video	No	No	Sì
Smart video analysis	-	-	Linre crossing, area intrusion, left and removed object, technical fault
Function	WDR, Smart IR, ROI, 3D DNR, Mask, Motion, HLC, BLC, Defog, Corridor	WDR, Smart IR, ROI, 3D DNR, Mask, Motion, HLC, BLC, Defog, Corridor	Real WDR, Smart IR, ROI, 3D DNR, Mask, Motion, HLC, BLC, Defog, Corridor
Compatibility	ONVIF	ONVIF	ONVIF
IR range	20 - 30 m	20 - 30 m	30 - 50 m
Protection rating IP	IP66	IP66	IP66
Operating temperature	-20° C / +60° C	-20° C / +60° C	-20° C / +60° C
Power supply / consumption	12 Vdc / PoE - 480 mA 5,8 W	12 Vdc / PoE - 730 mA 8,8 W	12 Vdc / PoE - 790 mA 9,5 W
Dimensions (mm)	87 x 87 x 219	87 x 87 x 219	109 x 109 x 264
Weight (g)	630	630	1115
Notes	RTSP*, multi-stream. Bracket included. Installable with 46922.014 contact box	RTSP*, multi-stream. Bracket included. Installable with 46922.014 contact box	RTSP*, multi-stream. Bracket included. Installable with 46922.013 contact box

*** RTSP:** function for connecting directly to the By-me home automation system without using NVR or as additional cam for IP video entry system.

Shooting range







Video analysis applications (46216.312EMA)

Line crossing

Area intrusion

Left and removed object

Technical fault (failure or tampering)

The system records the information:
- if a person crosses a line or a virtual area (defined in the graphical interface);
- if an object is removed within the camera shooting area;
- if the camera has been damaged or is malfunctioning;

all the events generated are notified to the NVR, activating the recording or the alarm

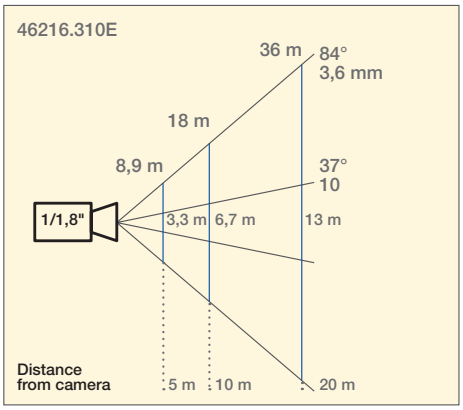
▲ New article - for availability, please contact the sales network ▲ New article Δ Available while stocks last * Not to be used in European Countries

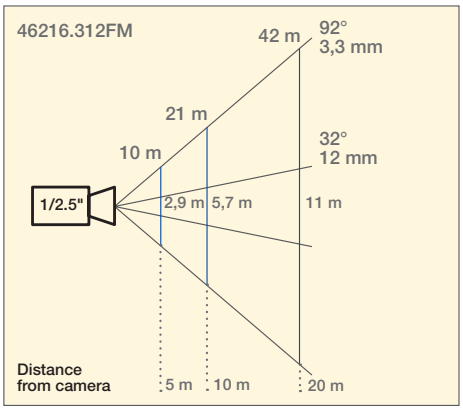
IP Bullet varifocal cameras - 5 and 8 Mpx

Models	46216.310E	46216.312FM motorised
Sensor	High sensibility sensor, 1/1,8" Sony CMOS progressive scan, 5 Mpx	1/2,5" CMOS progressive scan, 8 Mpx
Resolution	2592 x 1944	3840 × 2160
Sensitivity	Colors: 0,01 Lux@F1,2, AGC ON; 0 Lux (IR LED ON)	0.01 lux@F1.2, AGC ON; 0 Lux (IR led ON)
Video compression	H.264 - H.265	H.265 - H.264
Day & night	ICR	ICR
Lens	3,6 - 10 mm @F1,4 view angle: 84° - 37°	motorised 3,3 - 12 mm @F1.4, view angle: 92° - 32°
Main frame rate	30 Fps (2592 x 1944) 30 Fps (2560 x 1440) 30 Fps (1920 x 1080)	30 Fps (3840 × 2160) 30 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280x 720)
Secondary frame rate	30 Fps (1280 x 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)	30 Fps (1920 x 1080) 30 Fps (1280x 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)
Bit Rate	128 kbps / 9 Mbs	128 kbps / 9 Mbs
SD card	Yes, not included (64 GB max)	Yes, not included (128 GB max)
Audio in/out	1/1	1/1
In/out alarm	1/1	1/1
CVBS output video	Yes	Si
Function	WDR, Smart IR, ROI, 3DNR, Mask, Motion	WDR, smart IR, ROI, 3DNR, Mask, Motion, HLC, BLC, Defog
Compatibility	ONVIF	ONVIF
IR	30 - 50 m	30 - 50 m
Protection rating IP	IP66	IP66
Operating temperature	-10° C / +50° C	-20° C / + 60° C
Power supply /consumption	12 Vdc / PoE - 600 mA 7,2 W	12 Vdc / PoE - 760 mA 9,2 W
Dimensions (mm)	109 x 109 x 264	109 x 109 x 264
Weight (g)	1115	1115
Notes	RTSP*, multi-stream. Bracket included. Installable with 46922.013 contact box	RTSP*, multi-stream. Bracket included. Installable with 46922.013 contact box

* **RTSP:** function for connecting directly to the By-me home automation system without using NVR or as additional cam for IP video entry system.

Shooting range



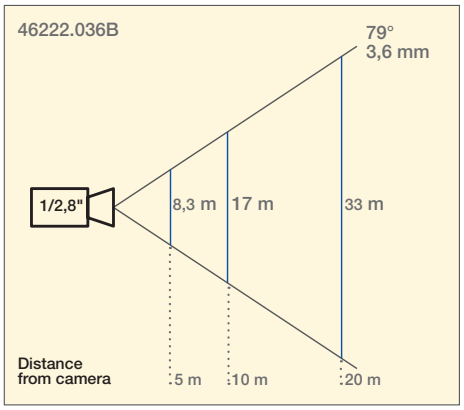


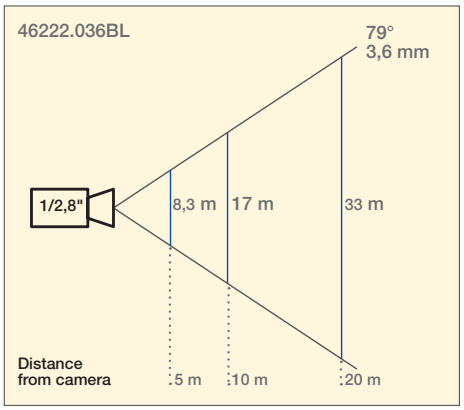
IP Dome cameras - 2 Mpx

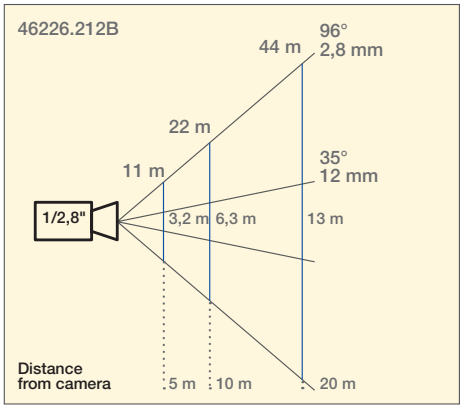
Models	46222.036B	46222.036BL	46226.212B
Sensor	1/2,8" CMOS progressive scan, 2 Mpx	1/2,8" CMOS high sensibility sensor, 2 Mpx	1/2,8" CMOS progressive scan, 2 Mpx
Resolution	1920 x 1080	1920 x 1080	1920 x 1080
Sensitivity	0,1 Lux@F1,2 (AGC ON); 0 LUx (IR LED ON)	Color 0.002 lux @F1.2, AGC ON B&W 0.0002 Lux @ F1.2, AGC ON	0,1 Lux@F1,2 (AGC ON); 0 LUx (IR LED ON)
Video compression	H.264	H264-MJPEG	H.264
Day & night	ICR	ICR	ICR
Lens	3,6 mm @F1,6 view angle: 79°	3,6 mm @F1,6 view angle: 79°	2,8 - 12 mm @F1,4 view angle: 96° - 35°
Main frame rate	30 Fps (1920 x 1080) 30 Fps (1280 x 720)	30 Fps (1920x 1080) (1280x720)	30 Fps (1920 x 1080) 30 Fps (1280 x 720)
Secondary frame rate	30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)	30 Fps (704x576) (480x240) (352x288)	30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)
Bit Rate	256 kbps / 5 Mbs	128 kbps / 6 Mbs	256 kbps / 5 Mbps
SD card	No	No	No
Audio in/out	0/0	0/0	0/0
In/out alarm	0/0	0/0	0/0
CVBS output video	No	No	No
Function	WDR, Smart-IR, ROI, 3DNR, Mask, Motion	D-WDR, 3D-DNR, ROI, Privacy Mask, Motion	WDR, Smart-IR, ROI, 3DNR, Mask, Motion
Compatibility	ONVIF	ONVIF	ONVIF
IR	10 - 20 m	10 - 20 m	20 - 30 m
Protection rating IP/IK	IP66	IP66	IP66
Operating temperature	-10° C / +50° C	-10° C / +50° C	-10° C / +50° C
Power supply / consumption	12 Vdc / PoE - 350 mA, 4,2 W	12 Vdc / PoE - 420 mA 5 W	12 Vdc / PoE - 420 mA 5 W
Dimensions (mm)	ø 108 x 95	ø 108 x 95	ø 130 x 115 mm
Weight (g)	405	405	710
Notes	RTSP*, multi-stream. Installable with 46922.014 contact box	RTSP*, multi-stream. Installable with 46922.014 contact box	RTSP*, multi-stream. Installable with 46922.014 contact box

*** RTSP:** function for connecting directly to the By-me home automation system without using NVR or as additional cam for IP video entry system.

Shooting range







Low Light cameras (46222.036BL)

Standard cam shooting

Low Light cam shooting

The Low Light cameras are characterized by the highest sensitivity to light and ensure sharp color images even in even in low light conditions.
Sensitivity: colors 0,002 Lux; B/W 0,0002 Lux.

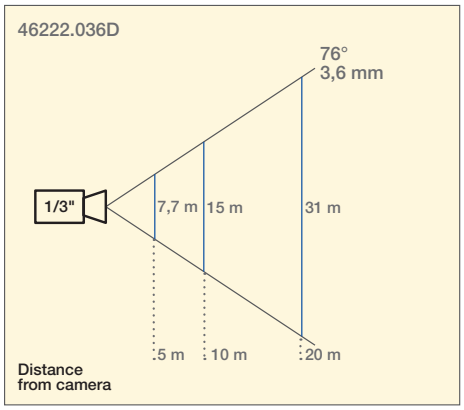
▲ New article Δ Available while stocks last * Not to be used in European Countries

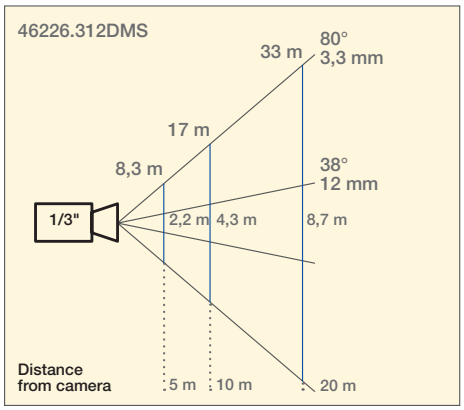
IP Dome cameras - 4 Mpx

Models	46222.036D	46226.312DMS motorised
Sensor	1/3" CMOS progressive scan, 4 Mpx	1/3" CMOS progressive scan, 4 Mpx
Resolution	2592 × 1520	2592 × 1520
Sensitivity	0.05 lux @F1.2, AGC ON; 0 lux (IR led ON)	0.05 lux @F1.2, AGC ON; 0 lux (IR led ON)
Video compression	H.264 - H.265	H.264 - H.265
Day & night	ICR	ICR
Lens	3,6 mm @ F1.6 view angle: 76°	Motorised 3.3 ~ 12 mm @ F1.4 view angle: 80° - 38°
Main frame rate	20 Fps (2592 x 1520) 20 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280x 720)	20 Fps (2592 x 1520) 20 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280x 720)
Secondary frame rate	30 Fps (1280x 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)	30 Fps (1280x 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)
Bit Rate	128 kbps / 8 Mbps	128 kbps / 8 Mbps
SD card	No	No
Audio in/out	0/0	0/0
In/out alarm	0/0	0/0
CVBS output video	No	No
Function	-	-
Compatibility	WDR, smart IR, ROI, 3DNR, Mask, Motion, Defog	WDR, Smart IR, ROI, 3DNR, Mask, Motion, Defog
IR	ONVIF	ONVIF
Protection rating IP/IK	10 - 20 m	20 - 30 m
Operating temperature	IP 66	IP66
Power supply / consumption	-10° C / +50°C	-10° C / +50° C
Dimensions (mm)	12 Vdc / PoE - 350 mA 4,2 W	12 Vdc / PoE - 640 mA 7,7 W
Weight (g)	ø 108 x 95 mm	ø 130 x 115
Notes	405	710
Note	RTSP*, multi-stream. Bracket included. Installable with 46922.014 contact box	RTSP*, multi-stream. Bracket included. Installable with 46922.014 contact box

* **RTSP:** function for connecting directly to the By-me home automation system without using NVR or as additional cam for IP video entry system.

Shooting range



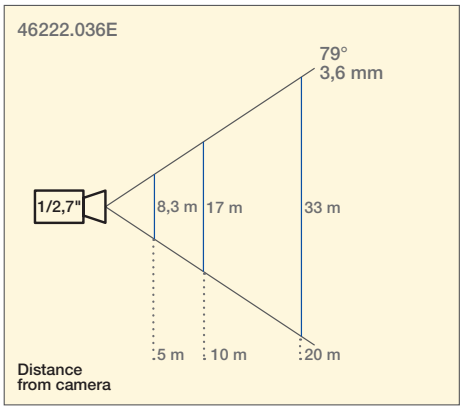


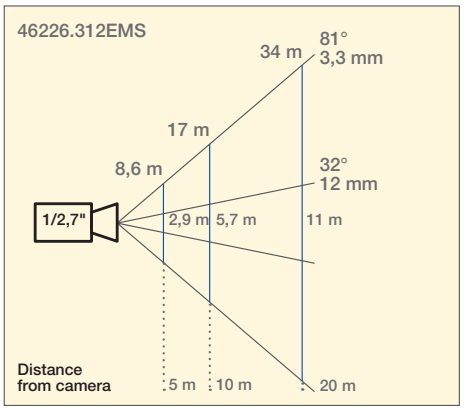
IP Dome cameras - 5 Mpx

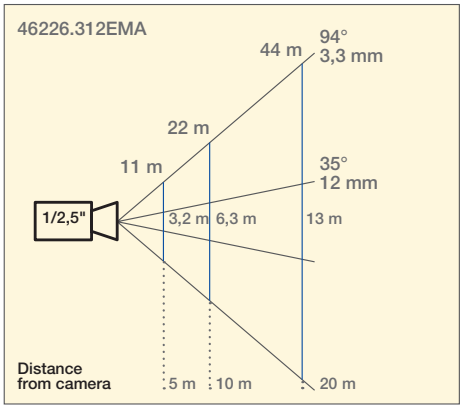
Models	▲ 46222.036E	▲ 46226.312EMS motorised	▲ 46226.312EMA motorised
Sensor	1/2,7" CMOS progressive scan, 5 Mpx	1/2,7" CMOS progressive scan, 5 Mpx	1/2,5" CMOS progressive scan, 5 Mpx
Resolution	2592 x 1944	2592 x 1944	2592 x 1944
Sensitivity	0.013 lux @F1.2, AGC ON; 0 lux (IR led ON)	0.013 lux @F1.2, AGC ON; 0 lux (IR led ON)	0.036 lux@F2.0, AGC ON; 0 Lux (IR led ON)
Video compression	H264 - H265 - MJPEG	H264 - H265 - MJPEG	H264 - H265 - MJPEG
Day & night	ICR	ICR	ICR
Lens	3,6 mm @ F2.0 view angle: 79°	Motorised 3.3 ~ 12 mm @ F1.4 view angle: 81° - 32°	Motorised 3,3 - 12 mm @F1.4 view angle: 94° - 35°
Main frame rate	20 Fps (2592 x 1944) 30 Fps (2592 x 1520) 30 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280X 720)	20 Fps (2592 x 1944) 30 Fps (2592 x 1520) 30 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280X 720)	30 Fps (2592 x 1944) 30 Fps (2592 x 1520) 30 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280X 720)
Secondary frame rate	30 Fps (1280X 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 X 240)	30 Fps (1280X 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 X 240)	15 Fps (1280X 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 X 240)
Bit Rate	128 kbps ~ 10 Mbs	128 kbps ~ 10 Mbs	128 kbps ~ 10 Mbs
SD card	No	No	Yes, not included (128 GB max)
Audio in/out	0/0	0/0	1/1
In/out alarm	0/0	0/0	1/1
CVBS output video	No	No	Si
Smart video analysis	-	-	Linre crossing, area intrusion, left and removed object, technical fault
Function	WDR, Smart IR, ROI, 3D DNR, Mask, Motion, HLC, BLC, Defog, Corridor	WDR, Smart IR, ROI, 3D DNR, Mask, Motion, HLC, BLC, Defog, Corridor	Real WDR, Smart IR, ROI, 3D DNR, Mask, Motion, HLC, BLC, Defog, Corridor
Compatibility	ONVIF	ONVIF	ONVIF
IR range	10 - 20 m	20 - 30 m	20 - 30 m
Protection rating IP/IK	IP 66	IP66	IP66 / IK10
Operating temperature	-20° C / +60°C	-20° C / +60°C	-20° C / +60°C
Power supply / consumption	12 Vdc / PoE - 340 mA 4,1 W	12 Vdc / PoE - 660 mA 8 W	12 Vdc / PoE - 680 mA 8,2 W
Dimensions (mm)	ø 108 x 95 mm	ø 130 x 115	ø 150 x 114
Weight (g)	405	690	1260
Notes	RTSP*, multi-stream. Bracket included. Installable with 46922.014 contact box	RTSP*, multi-stream. Bracket included. Installable with 46922.014 contact box	RTSP*, multi-stream. Bracket included. Installable with 46922.012.01 contact box

*** RTSP:** function for connecting directly to the By-me home automation system without using NVR or as additional cam for IP video entry system.

Shooting range

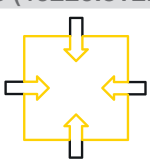






Video analysis applications (46226.312EMA)

Line crossing


Area intrusion

Left and removed object

Technical fault (failure or tampering)

The system records the information:
- if a person crosses a line or a virtual area (defined in the graphical interface);
- if an object is removed within the camera shooting area;
- if the camera has been damaged or is malfunctioning;

all the events generated are notified to the NVR, activating the recording or the alarm

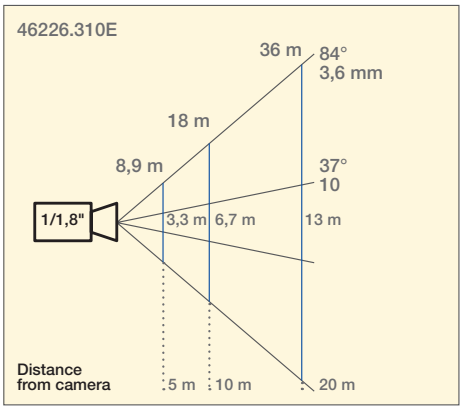
▲ New article - for availability, please contact the sales network ▲ New article Δ Available while stocks last * Not to be used in European Countries

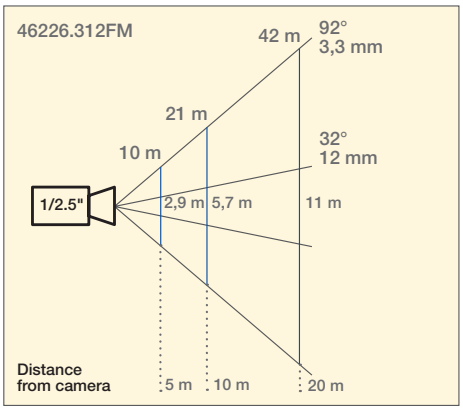
IP Dome cameras for outdoor - 5 and 8 Mpx

Models	46226.310E	▲46226.312FM motorised
Sensor	high sensibility sensor, 1/1,8" Sony CMOS progressive scan, 5 Mpx	1/2,5" CMOS progressive scan, 8 Mpx
Resolution	2592 x 1944	3840 x 2160
Sensitivity	Color: 0,01 Lux@F1,2, AGC ON; 0 Lux (IR LED ON)	0.01 lux@F1.2, AGC ON; 0 Lux (IR led ON)
Video compression	H.264 - H.265	H.265 - H.264
Day & night	ICR	ICR
Lens	3,6 - 10 mm @F1,4 view angle: 84° - 37°	mortorised 3,3 - 12 mm @F1.4 view angle: 92° - 32°
Main frame rate	30 Fps (2592 x 1944) 30 Fps (2560 x 1440) 30 Fps (1920 x 1080)	30 Fps (3840 x 2160) 30 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280x 720)
Secondary frame rate	30 Fps (1280 x 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)	30 Fps (1920 x 1080) 30 Fps (1280x 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)
Bit Rate	128 kbps / 9 Mbps	128 kbps / 9 Mbps
SD card	Si non inclusa (64 GB max)	Si non inclusa (128 GB max)
Audio in/out	1/1	1/1
In/out alarm	1/1	1/1
CVBS output video	Yes	Yes
Function	WDR, Smart IR, ROI, 3DNR, Mask, Motion	WDR, Smart IR, ROI, 3DNR, Mask, Motion, HLC, BLC, Defog
Compatibility	ONVIF	ONVIF
IR	20 - 30 m	20 - 30 m
Protection rating IP/IK	IP66 / IK10	IP66 / IK10
Operating temperature	-10° C / +50° C	-20° C / +60° C
Power supply / consumption	12 Vdc / PoE - 500 mA 6 W	12 Vdc / PoE - 640 mA 7,7 W
Dimensions (mm)	ø 150 x 114	ø 150 x 114
Weight (g)	1260	1260
Notes	RTSP*, multi-stream. Bracket included. Installable with 46922.012.01 contact box	RTSP*, multi-stream. Bracket included. Installable with 46922.012.01 contact box

* **RTSP:** function for connecting directly to the By-me home automation system without using NVR or as additional cam for IP video entry system.

Shooting range





IP Mini Dome cameras - 4 Mpx and 5 Mpx Fisheye

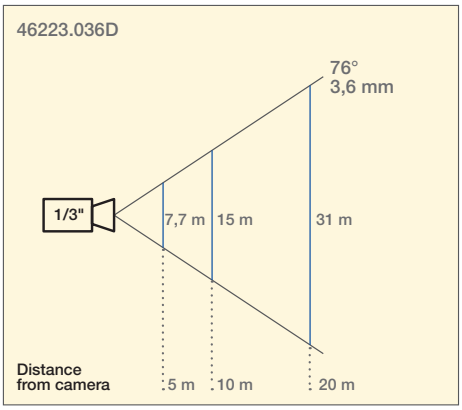
With MIC

View 360°

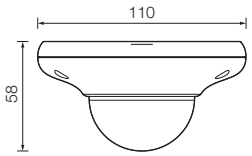
Models	46223.036D	▲46234.010E**
Sensor	1/3" CMOS progressive scan, 4 Mpx	1/2,9" CMOS progressive scan, 5 Mpx
Resolution	2592 x 1520	3096×2202 (2160×2160 landscape)
Sensitivity	0.05 lux@F1.2, AGC ON; 0 Lux (IR led ON)	0.024 lux@F1.2, AGC ON; 0 Lux (IR led ON)
Video compression	H.264 - H.265	H.264 - H.265
Day & night	ICR	ICR
Lens	3,6 mm @ F1.6 view angle: 76°	1,07 mm @ F2.5 view angle: 180° (wall) 360° (ceiling)
Main frame rate	30 Fps (2592 x 1520) 30 Fps (2560 x 1440) 30 Fps (2304 x 1296) 30 Fps (1920 x 1080) 30 Fps (1280 x 720)	**1) Fisheye + landscape + 3 PTZ** 30 Fps (2160 x 2160/1920 x 1920/1440 x 1440) 30 Fps (1920 x 1080) 30 Fps (960 x 540) x 3 **2) Fisheye + 4 PTZ** 30 Fps (2160 x 2160/1920 x 1920/1440 x 1440) 30 Fps (960 x 540) x 4
Secondary frame rate	30 Fps (1280x 720) 30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)	30 Fps (960 x 960) 30 Fps (960 x 540) 30 Fps (704 x 576) 30 Fps (480 x 480) 30 Fps (480 x 240)
Bit Rate	128 kbps / 9 Mbps	128 kbps / 10 Mbps
SD card	Yes (not included) (128 GB max)	Yes (not included) (128 GB max)
Audio in/out	1/0 (MIC built-in)	1/1 (MIC built-in)
In/out alarm	0/0	1/1
CVBS output video	YES	YES
Function	Real WDR, Smart IR, ROI, 3DNR, Mask, Motion, HLC, BLC, Defog	WDR, ROI, 3D-DNR, Mask, Motion, HLC, BLC
Compatibility	ONVIF	ONVIF
IR	10 m	20-30 m
Protection rating IP/IK	IP66 / IK10	IP54
Operating temperature	-10° C / +50° C	-10° C / +50° C
Power supply / consumption	12 Vdc / PoE - 240 mA 3 W	12 Vdc / PoE - 880 mA 10,6 W
Dimensions (mm)	ø 110 x 58	ø 130 x 39
Weight (g)	349	432
Notes	RTSP*, multi-stream	RTSP*, multi-stream. Installable with 46922.019 bracket with contact box

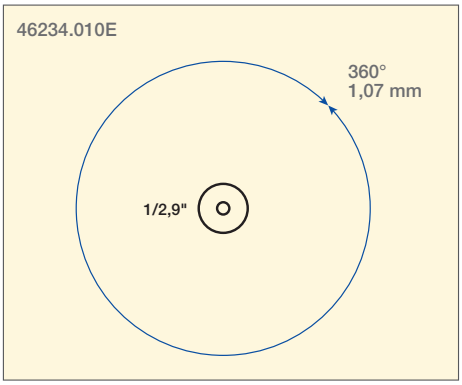
*** RTSP:** function for connecting directly to the By-me home automation system without using NVR or as additional cam for IP video entry system.
**** The Fisheye 46234.010E cam is suitable for NVR: 46241.F32H, 46241.H32P, 46214.H64.**

Shooting range

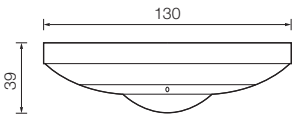


Dimensions in mm





Dimensions in mm



Bracket for IP Fisheye cameras

▲46922.019
Bracket with contact box for IP Fisheye cam for wall and ceiling fixing

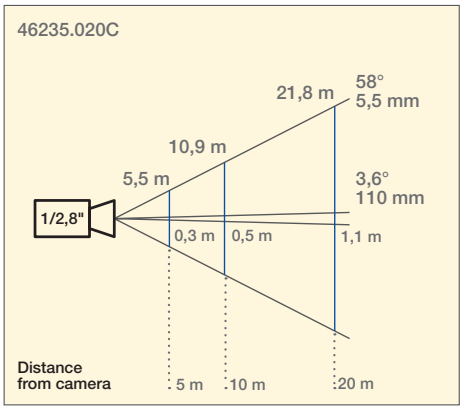
▲ New article Δ Available while stocks last * Not to be used in European Countries

IP PTZ (Speed Dome) cameras - 3 Mpx

Models	46235.020C
Sensor	1/2,8" CMOS progressive scan, 3 Mpx
Resolution	2048 x 1536
Sensitivity	0 Lux (IR LED ON)
Video compression	H.264 - H.265
Day & night	ICR
Lens	Zoom 20x (5,5 - 110 mm)
Main frame rate	58° Wide - 3,6° Tele
Secondary frame rate	30 Fps (2048 x 1536) 30 Fps (1920 x 1080) 30 Fps (1280 x 720)
Bit Rate	30 Fps (D1) 30 Fps (CIF) 30 Fps (480 x 240)
SD card	64 kbps / 8 Mbps
Audio in/out	360° continued 0° a 90° auto Flip
In/out alarm	255
CVBS output video	8/4
Function	RS485
Compatibility	Yes (not included) (128 GB max)
IR	1/1
Protection rating IP/IK	7/1
Operating temperature	Yes (video test)
Power supply / consumption	WDR, Smart-IR, DeFog, BLC, 3D DNR
Dimensions (mm)	ONVIF
Weight (g)	Progressive smart IR with zoom up to 100 m
Notes	IP66
Range temperatura	-20° C / +60° C
Alimentazione/consumi	24 Vac (65 W with IR and activated heater)
Dimensioni (mm)	ø 216 x 349 only camera
Peso netto telecamera (g)	5000
Note	RTSP*, multi-stream. Bracket and supply unit included.

*** RTSP:** function for connecting directly to the By-me home automation system without using NVR.
Keypad, see page 43.

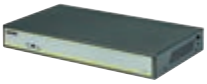
Shooting range



Bracket for PTZ cameras

46917.002
Pole bracket for
Speed Dome (PTZ)
and IP Bullet cameras

PoE Switch ethernet



Models	46260.5P.02	46260.10P.02	46260.16P.02
PoE Standard	802.3af/at (PSE)	802.3af/at (PSE)	IEEE802.3af/at (PSE)
Ports	5	10	16
Downlink ports	4 10/100/1000 BASE-T (**PoE+**)	8 10/100/1000 BASE-T (**PoE+**)	16 10/100 BASE-Tx (**PoE+**)
Uplink ports	1 10/100/1000 BASE-T	2 10/100/1000 BASE-T	2 10/100/1000 Base+T+1, 1000 Base-x (combo)
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 802.3z
Switching capacity	10 Gbit/s	20 Gbit/s	7,2 Gbit/s
Packet switching	7,44 Mp/s	14 Mp/s	5,36 Mp/s
Exchange type	Store and Forward	Store and Forward	-
Buffer	-	1 M	2,75 M
MAC addresses	2K	4K	4K
Immunity to transitional overvoltage	6 kV: IEC61000-4-5	6 kV: IEC61000-4-5	6 kV: IEC61000-4-5
Protenction from electro-static discharge (ESD)	6 kV (discharge to contact) 8 kV (discharge to air) Conform to: IEC61000-4-2	6 kV (discharge to contact) 8 kV (discharge to air) Conform to: IEC61000-4-2	6 kV (discharge to contact) 8 kV (discharge to air) Conform to: IEC61000-4-2
PoE Power Output (per port)	54 Vdc 30 W max	54 Vdc 30 W max	54 Vdc 30 W max
Total PoE Power	60 W max	120 W max	180 W max
PoE mode	End-Span	End-Span	End-Span
PoE supply	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)
Voltage/ consumptions	input: 100-240 Vac, 2 A output: 54 Vdc, 1,11 A	input: 100-240 Vac, 2 A output: 54 Vdc, 1,11 A	100-240 Vac, 2 A
Power absorbed	5 W	5 W	-
Operating temperature	-10° C / +55° C	-10° C / +45° C	-10° C / +45° C
Operating humidity (without condensation)	5% / 95%	5% / 95%	5% / 95%
Dimensions (mm)	135 x 85,6 x 27	200 x 101,8 x 27	442 x 285 x 44,5
Weight (g)	315 g	500 g	
Notes	CCTV mode: the downlink ports transmit to the uplink ports, only	CCTV mode: the downlink ports transmit to the uplink ports, only	CCTV mode: the downlink ports transmit to the uplink ports, only

▲ New article Δ Available while stocks last * Not to be used in European Countries

H.265 Real Time NVR - up to 8 Mpx

Models	46241.H04	46241.H08	46241.H16
Input video	4 Ch	8 Ch	16 Ch
PoE ports	4	8	-
Hard disk	1 TB professional	1 TB professional	2 TB professional
Recording resolution	Real Time 5 Mpx 4 CH @ 100 Fps	Real Time 8 Mpx 8 CH @ 200 Fps	Real Time 8 Mpx 16 CH @ 400 Fps
Video compression	H.264 - H.265	H.264 - H.265	H.264 - H.265
Operating mode	PENTAPLEX	PENTAPLEX	PENTAPLEX
Output video	1 HDMI	1 HDMI, 1 VGA	1 HDMI, 1 VGA
in/out audio	- / 1	1 / 1	1 / 1
VGA/HDMI resolution	- / 1080p	1080p / 4K	1080p / 4K
in/out alarm	-	-	-
Network interface	1 RJ45 10/100 Mbps	1 RJ45 10/100 Mbps	1 RJ45 10/100/1000 Mbps
Hard disk interface	1 SATA (max 6 TB)	1 SATA (max 6 TB)	2 SATA (max 6 TB)
Plug & Play	Yes (on intergrated PoE switch, 4 PoE AF ports)	Yes (on integrated PoE switch, 8 PoE AF ports)	-
USB interface	2	2	2
RS485	No	No	No
PTZ control	Yes	Yes	Yes
CVM	Yes	Yes	Yes
QR CODE	Yes	Yes	Yes
Smartphone control	Android, iPhone	Android, iPhone	Android, iPhone
Video analysis	-	Yes*	Yes*
Privacy filter	Yes	Yes	Yes
Interface	Mouse, remote control	Mouse, remote control	Mouse, remote control
Voltage/ consumptions (PoE and HDD excluded)	48 V 1,25 A / 5 W (per supply unit)	48 V 2,5 A / 5W (per supply unit)	12 V 4 A / 15 W
Operating temperature	0° C / +50° C	0° C / +50° C	0° C / +50° C
Cooling fan	No	No	No
Dimensions (mm)	300 x 248 x 52	300 x 248 x 52	380 x 269 x 52
Weight (g) HDD excluded	1000	1200	1500
Notes			1 rack unit

PENTAPLEX: the DVR/NVR manages in real time, searchs recorded images, BackUp (images copy), remote visualization (e.g. from internet).
* Suitable for cams with smart video analysis

By-camera app is available on Vimar site or Apple and Google Play stores

H.265 Real Time NVR - up to 8 Mpx

Models	46241.F32H	46241.H32P	46241.H64
Input video	32 Ch	32 Ch	64 Ch
PoE ports	-	16	-
Hard disk	2 TB professional	2 TB Professional	Not included
Recording resolution	Real Time 8 Mpx 32 CH @ 800 Fps	8 Mpx 32 CH @ 800 Fps	Real Time 8 Mpx 64 CH @ 1600 Fps
Video compression	H.264 - H.265	H.264 - H.265	H.264 - H.265
Operating mode	PENTAPLEX	PENTAPLEX	PENTAPLEX
Output video	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 - 1080
in/out alarm	-	16 / 4	8 / 4
Network interface	1 RJ45 10/100/1000 Mbps	1 RJ45 10/100/1000 Mbps	2 RJ45 10/100/1000 Mbps
Hard disk interface	2 SATA (max 6 TB)	4 SATA (max 6 TB)	8 SATA (max 6 TB) 2 E-SATA
Plug & Play	-	Yes (on integrated PoE switch, 16 PoE AF ports)	-
USB interface	2	2	3
RS485	No	Yes	Yes
PTZ control	Yes	Yes	Yes
CVM	Yes	Yes	Yes
QR CODE	Yes	Yes	Yes
Smartphone control	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
Voltage/ consumptions (PoE and HDD excluded)	12 V 4 A / 15 W	110/230 Vac / 30 W (inner supply unit)	110/230 V / 15 W (inner supply unit)
Operating temperature	0° C / +50° C	0° C / +50° C	0° C / +50° C
Cooling fan	Yes	Yes	Yes
Dimensions (mm)	380 x 269 x 52	440 × 390 × 70	430 x 450 x 90
Weight (g) HDD excluded	1500	4540	4500
Notes	1 rack unit	1,5 rack units	2 rack units

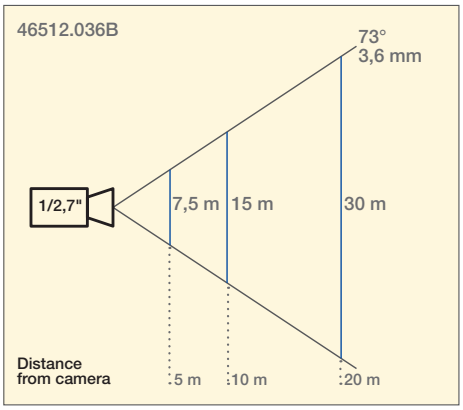
PENTAPLEX: the DVR/NVR manages in real time, searchs recorded images, BackUp (images copy), remote visualization (e.g. from internet).
* Suitable for cams with smart video analysis

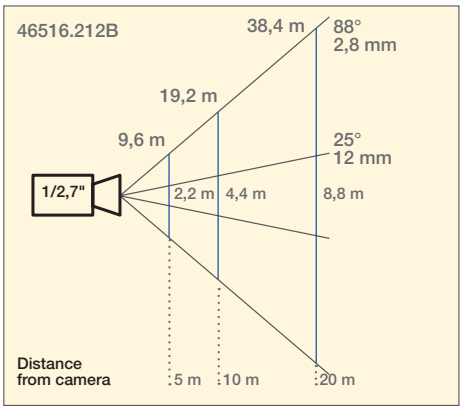
By-camera app is available on Vimar site or Apple and Google Play stores

AHD Bullet cameras - 2 Mpx (Full-HD)

Model	46512.036B	46516.212B
Sensor	1/2,7" CMOS 2 Mpx	1/2,7" CMOS 2 Mpx
Actual pixels	1928 x 1088	1928 x 1088
Resolution	1080p	1080p
Sensitivity	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Day & night	ICR mechanical	ICR mechanical
Lens	3,6 mm	2,8 - 12 mm
S/N Ratio	50 dB	50 dB
Shutter speed (PAL)	AUTO	AUTO
OSD	Yes (switch on cable)	Yes (switch on cable)
Control over coaxial (CsC)	Yes, for OSD menu	Yes
CVBS output video	Yes (signal switch by OSD)	Yes (signal switch by OSD)
Function	2DNR, Smart-IR, D-WDR, WHITE-BALANCE, AGC, BLC	2DNR, Smart-IR, D-WDR, WHITE-BALANCE, AGC, BLC
IR range	35 LED, 30 m	4 LED Array, 50 m
Protection rating IP	IP66	IP66
Operating temperature	-20° C / +60° C	-20° C / +60° C
Power supply / consumption	12 V 250 mA	12 V 700 mA
Dimensions (mm)	182 x 112 x 76	261 x 118 x 80
Weight (g)	510	865
Notes	Installable with pole bracket 46917.004 and contacts box 46922.015	Installable with pole bracket 46917.004 and contacts box 46922.015

Shooting range

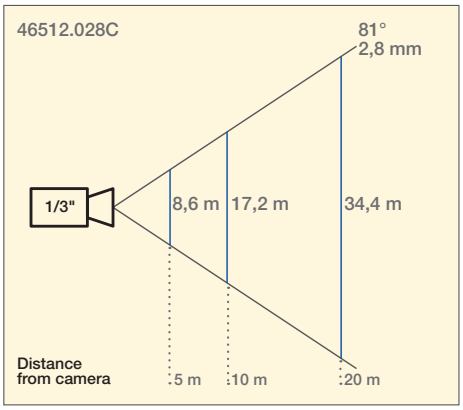


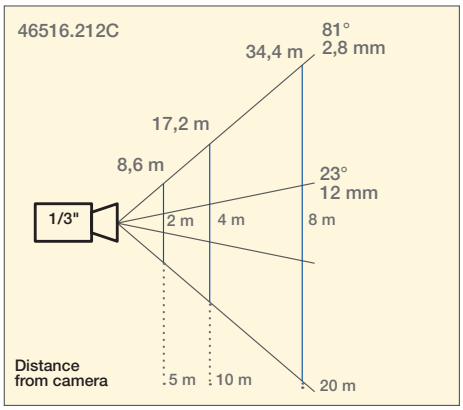


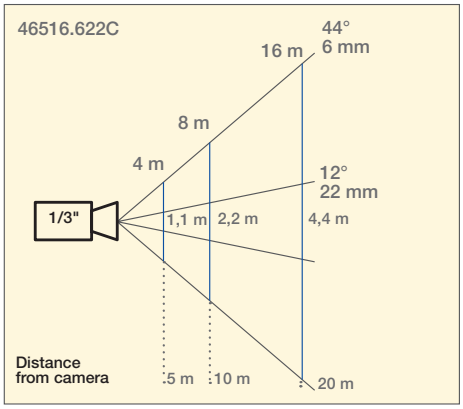
AHD Bullet cameras - 3 Mpx

Models	46512.028C	46516.212C	46516.622C
Sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS
Actual pixels	2304 (H) x1536 (V)	2304 x 1536	2304 x 1536
Resolution	3 Mpx	3 Mpx	3 Mpx
Video output	AHD	AHD	AHD
Sensitivity	0 Lux (IR LED ON)	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Day & night	Mechanical ICR	Mechanical ICR	ICR Mechanical
Lens	2,8 mm	2,8 - 12 mm	6 - 22 mm
S/N Ratio	41 dB	41 dB	41 dB
Shutter speed (PAL)	AUTO, FLK, 1/25 s - 1/50000 s	AUTO, FLK, 1/25 s - 1/50000 s	AUTO, FLK, 1/25 s - 1/50000 s
Joystick	Yes	Yes	Yes
Control over coaxial (CsC)	Yes, for OSD menu	Yes, for OSD menu	Yes, for OSD menu
CVBS output	No	No	No
Function	2DNR, Smart-IR, BLC, HSBLC, D-WDR, WHITE-BAL, AGC, DPC, Mirror	2DNR, Smart-IR, BLC, HSBLC, D-WDR, WHITE-BAL, AGC, DPC, Mirror	2DNR, Smart-IR, BLC, HSBLC, D-WDR, WHITE-BAL, AGC, DPC, Mirror
IR range	30 m	50 m	50 m
Protection rating IP	IP66	IP66	IP66
Operating temperature	-20 / +60° C	-20 / +60° C	-20 / +60° C
Power supply / consumption	12 V 350 mA	12 V 250 mA	12 V 700 mA
Dimensions (mm)	ø 67 x 228	ø 76 x 306	ø 76 x 306
Weight (g)	403	744	744
Notes	Installable with pole bracket 46917.004 and contacts box 46922.015	Installable with pole bracket 46917.004 and contacts box 46922.015	Installable with pole bracket 46917.004 and contacts box 46922.015

Shooting range





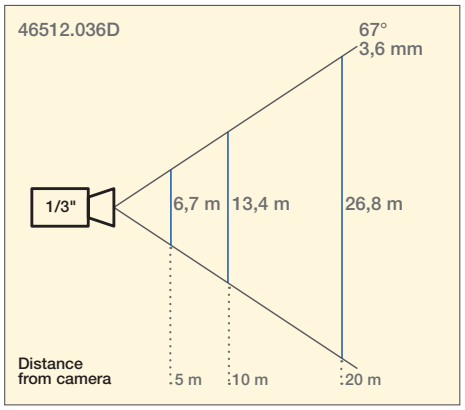


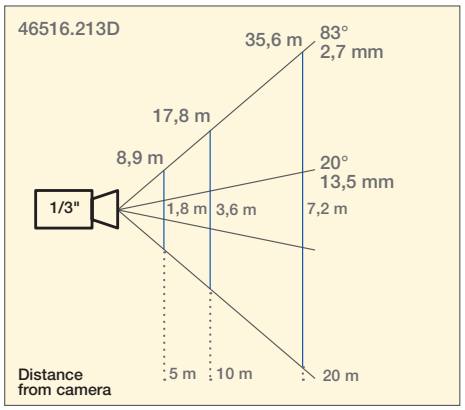
▲ New article Δ Available while stocks last * Not to be used in European Countries

AHD Bullet cameras - 4 Mpx

Models	46512.036D	46516.213D
Sensor	1/3" CMOS	1/3" CMOS
Actual pixels	2688 (H) x1520 (V)	2688 x 1520
Resolution	4 Mpx	4 Mpx
Video output	AHD	AHD
Sensitivity	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Day & night	Mechanical ICR	Mechanical ICR
Lens	3,6 mm	2,7 - 13,5 mm
S/N Ratio	50 dB	50 dB
Shutter speed (PAL)	AUTO, FLK, 1/25 s - 1/50000 s	AUTO, FLK, 1/25 s - 1/50000 s
Joystick	Yes	Yes
Control over coaxial (CsC)	Yes, for OSD menu	Yes, for OSD menu
CVBS output	No	No
Function	2DNR,Smart-IR,BLC,HSBLC, D-WDR, WHITE-BAL, AGC, DPC, Mirror	2DNR,Smart-IR,BLC,HSBLC, D-WDR, WHITE-BAL, AGC, DPC, Mirror
IR range	30 m	50 m
Protection rating IP	IP66	IP66
Operating temperature	-20° C /+60° C	-20° C / +60° C
Power supply / consumption	12 V 350 mA	12 V 250 mA
Dimensions (mm)	ø 67 x 228	ø 76 x 306
Weight (g)	403	744
Notes	Installable with pole bracket 46917.004 and contacts box 46922.015	Installable with pole bracket 46917.004 and contacts box 46922.015

Shooting range

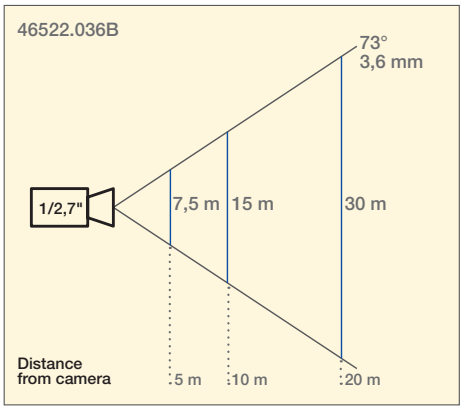


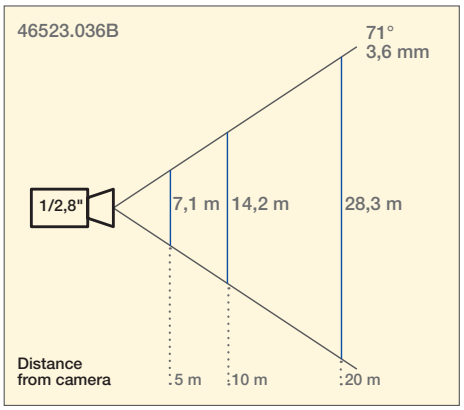


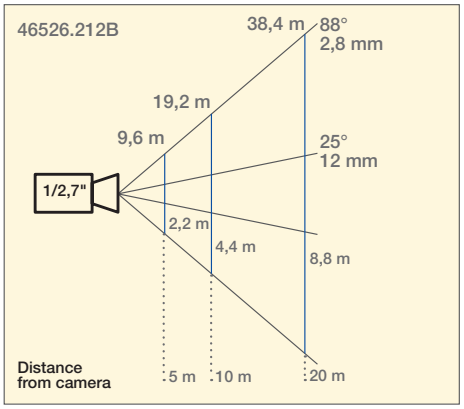
AHD Dome cameras - 2 Mpx (Full-HD)

Models	Δ 46522.036B	46523.036B	Δ 46526.212B
Sensor	1/2,7" CMOS, 2 Mpx	1/2,8" CMOS, 2 Mpx	1/2,7" CMOS 2 Mpx
Actual pixels	1928 x 1088	1984 x 1105	1928 x 1088
Resolution	1080p	1080p	1080p
Sensitivity	0 Lux (IR LED ON)	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Day & night	Mechanical ICR	Mechanical ICR	Mechanical ICR
Lens	3,6 mm	3,6 mm	2,8 - 12 mm
S/N Ratio	50 dB	50 dB	50 dB
Shutter speed (PAL)	AUTO	AUTO/FLICKER 1/25 - 1/50.000 s x2 - x30	AUTO
Control over coaxial (CsC)	Yes, for OSD menu	Yes, for OSD menu	Yes, for OSD menu
CVBS output	Yes (signal switch by OSD)	Yes (signal switch by OSD)	Yes (signal switch by OSD)
Function	2DNR, Smart-IR, D-WDR WHITE-BALANCE, AGC, BLC	2DNR, 3DNR, Smart-IR, BLC, HSBLC, D-WDR, WHITE-BAL, AGC, Defect, Defog, Motion, Alarm, Privacy, Mirror, V-Flip, Rotate, Neg-img, Freeze	2DNR, Smart-IR, D-WDR WHITE-BALANCE, AGC, BLC
IR range	20 LED, 20 m	10 LED, 5 m	35 LED, 30 m
Protection rating IP	IP66	IP66	IP66
Operating temperature	-20° C / +60° C	-10° C / +50° C	-20° C / +60° C
Power supply / consumption	12 V 250 mA	12 V 300 mA	12 V 300 mA
Dimensions (mm)	ø 94 x 70	50 x 54 x 54	ø 120 x 80
Weight (g)	570	300	1000
Notes	Installable with pole bracket 46917.004 and contacts box 46922.015		Installable with pole bracket 46917.004 and contacts box 46922.015

Shooting range





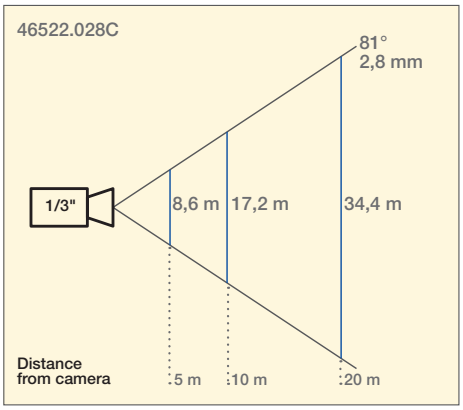


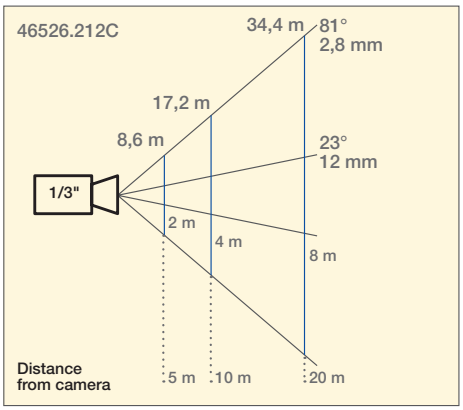
▲ New article Δ Available while stocks last * Not to be used in European Countries

AHD Dome cameras - 3 Mpx

Models	46522.028C	46526.212C
Sensor	1/3" CMOS	1/3" CMOS
Actual pixels	2304 (H) x1536 (V)	2304 x 1536
Resolution	3 Mpx	3 Mpx
Video output	AHD	AHD
Sensitivity	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Day & night	Mechanical ICR	Mechanical ICR
Lens	2,8 mm	2,8-12 mm
S/N Ratio	41 dB	41 dB
Shutter speed (PAL)	AUTO, FLK, 1/25 s - 1/50000 s	AUTO , FLK 1/25 s - 1/50000 s
Joystick	Yes	Yes
Control over coaxial (CsC)	Yes, for OSD menu	Yes, for OSD menu
CVBS output	No	No
Function	2DNR, Smart-IR, BLC,HSBLC, D-WDR, WHITE-BAL, AGC, DPC, Mirror	2DNR, Smart-IR, BLC, HSBLC, D-WDR, WHITE-BAL, AGC,DPC, Mirror
IR range	20 m	30 m
Protection rating IP	IP66	IP66
Operating temperature	-20° C / +60° C	-20 / + 60 °C
Power supply / consumption	12 V 150 mA	12 V 250 mA
Dimensions (mm)	ø 94 x70	ø 120 x 80
Weight (g)	392	713
Notes	Installable with pole bracket 46917.004 and contacts box 46922.015	Installable with pole bracket 46917.004 and contacts box 46922.015

Shooting range

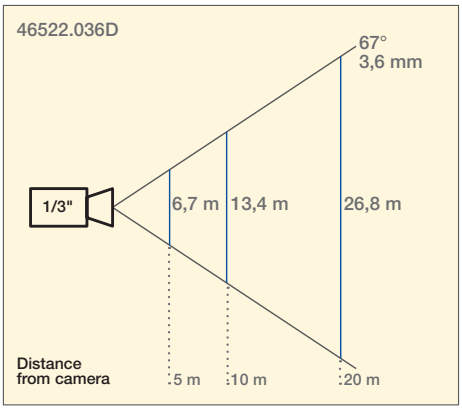


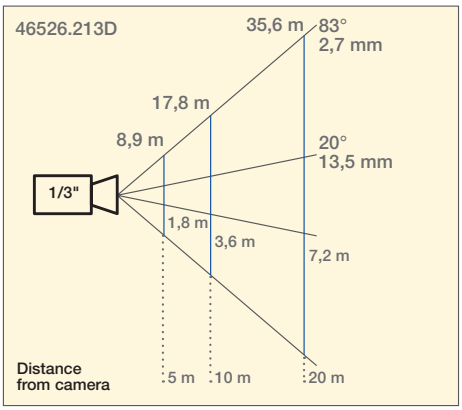


AHD Dome cameras - 4 Mpx

Models	46522.036D	46526.213D
Sensor	1/3" CMOS	1/3" CMOS
Actual pixels	2688 (H) x1520 (V)	2688 x 1520
Resolution	4 Mpx	4 Mpx
Video output	AHD	AHD
Sensitivity	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Day & night	Mechanical ICR	Mechanical ICR
Lens	3,6 mm	2,7-13,5 mm
S/N Ratio	50 dB	50 dB
Shutter speed (PAL)	AUTO, FLK, 1/25 s - 1/50000 s	AUTO , FLK 1/25 s - 1/50000 s
Joystick	Yes	Yes
Control over coaxial (CsC)	Yes, for OSD menu	Yes, for OSD menu
CVBS output	No	No
Function	2DNR, Smart-IR, BLC,HSBLC, D-WDR, WHITE-BAL, AGC, DPC, Mirror	2DNR, Smart-IR, BLC, HSBLC D-WDR, WHITE-BAL, AGC,DPC, Mirror
IR range	20m	30 m
Protection rating IP	IP66	IP66
Operating temperature	-20° C / +60° C	-20° C / +60° C
Power supply / consumption	12 V 150 mA	12 V 250 mA
Dimensions (mm)	ø 94 x70	ø 120 x 80
Weight (g)	392	713
Notes	Installable with pole bracket 46917.004 and contacts box 46922.015	Installable with pole bracket 46917.004 and contacts box 46922.015

Shooting range

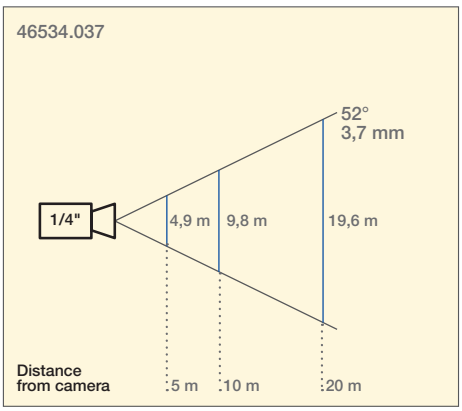




Camouflage cameras

Models	46534.037
Sensor	1/4" CMOS
Actual pixels	1296 (H) x 732 (V)
Horizontal resolution	720p
Sensitivity	1 Lux
Day & night	Electronic ICR
Lens	3,7 mm
S/N Ratio	50 dB
Shutter speed (PAL)	AUTO
OSD	No
CVBS output	No
Function	AGC, BLC, NR
IR	No
Protection rating IP	No
Operating temperature	-10° C ~ +50° C
Power supply / consumption	12 V 100 mA
Dimensions (mm)	150 x 30 x 60
Weight (g)	166

Shooting range



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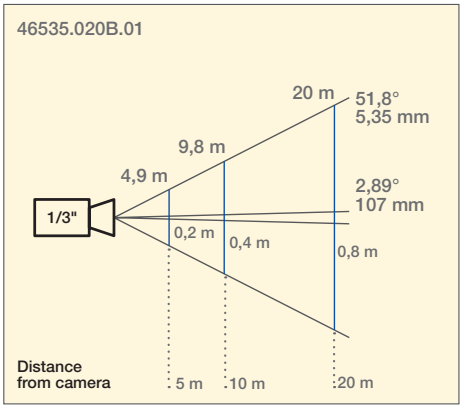
AHD Speed Dome (PTZ) cameras for outdoor

Models	46535.020B.01
Sensor	1/3" CMOS 2 Mpx
Actual pixels	1984 x 1225
Resolution	1080p - 25/30 fps
Sensitivity	0 Lux (IR LED ON)
Zoom	Zoom 20x (5,35 - 107 mm)
View angle	51,85° Wide - 2,89° Tele
Day & night	Mechanical
Control over coaxial (CsC)	Yes
Video output	AHD/TVI/CVI/CVBS
Function	OSD, ATR, 2D DNR, BLC, DeFog
S/N Ratio	> 50 dB
Pan/Tilt limit	360° continued 0° at 90° auto Flip
Preset	220
Patrol/Pattern	8/4
Privacy	8 zones
Control	RS485
In/out alarm	4/1
IR range	150 m
Protection rating IP	IP66
Operating temperature	-40° C / + 60° C
Supply unit	24 Vac 3 A (standard)
Dimensions (mm)	ø 210 x 330
Weight (g)	4600

Keypad, see page 45

Shooting range



Brackets and supports for AHD PTZ cameras

46918.220
Ceiling bracket for
Speed Dome (PTZ) 20x

46918.003B
Pole bracket for
Speed Dome (PTZ)

46918.004B
Corner box for
Speed Dome (PTZ)

46922.351
Surface mounting contacts box
for Speed Dome (PTZ)

Hybrid 1080p DVRs, controllable by 10" multimedia video touch screen (21553.2)

Models	Δ 46540.F04	Δ 46540.F08	46540.H16
Video input	4 BNC, AHD/IP/TVI/CVI/CVBS +1 IP (max 5 Ch IP)	8 BNC, AHD/IP/TVI/CVI/CVBS +1 IP (max 9 Ch IP)	16 BNC, AHD/IP/TVI/CVI/CVBS +4 IP (max 12 Ch IP)
PoE ports	Not included	Not included	Not included
HDD	1 TB Professional	1 TB Professional	1 TB Professional
Recording resolution	FullHD 1080p: 12,5 Fps 1080p LITE (AHD) or HD 720p (AHD) or WD1 (analog): 25 Fps	FullHD 1080p: 12,5 Fps 1080p LITE (AHD) or HD 720p (AHD) or WD1 (analog): 25 Fps	FullHD 1080p: 12,5 Fps 1080p LITE (AHD) or HD 720p (AHD) or WD1 (analog): 25 Fps
IP cameras recording resolution	1 Ch 1080p 25 Fps 720p 25 Fps	1 Ch 3 Mpx 12 Fps 1080p 25 Fps 720p 25 Fps	4 Ch 3 Mpx 12,5 Fps 1080p 25 Fps 720p 25 Fps
VGA/HDMI resolution	1080p (1920 x 1080)	1080p (1920x1080)	1080p (1920x1080)
Video compression	Standard H.264 High Profile	Standard H.264 High Profile	Standard H.264 High Profile
Operating mode	PENTAPLEX	PENTAPLEX	PENTAPLEX
Video output	1 HDMI, 1 VGA, 1 BNC	1 HDMI, 1 VGA, 1 BNC	1 HDMI, 1 VGA, 1 BNC
Audio in/out	4 RCA/1 RCA	4 RCA/1 RCA	4 RCA/1 RCA
Alarm in/out	4/1	4/1	4/1
OSD camera control over coaxial (CsC)	Yes	Yes	Yes
Network interface	1 RJ45 - 10/100 Mbps	1 RJ45 - 10/100 Mbps	1 RJ45 - 10/100 Mbps
Hard disk interface	1 SATA 3 TB max	1 SATA 3 TB max	2 SATA 3 TB max
USB interface	2	2	2
RS485 PTZ control	Yes	Yes	Yes
CVM	Yes	Yes	Yes
QR CODE	Yes	Yes	Yes
Smartphone control	Android and iPhone	Android and iPhone	Android and iPhone
Video analysis	No	No	No
Privacy filter	Yes	Yes	Yes
Interface	Mouse, remote control	Mouse, remote control	Mouse, remote control
Power supply / consumption (excluded HD)	12 V 2 A 6 W	12 V 3 A 8 W	12 V 4 A 15 W
Operating temperature	0° C / +50 °C	0° C / +50 °C	0° C / +50 °C
Cooling fan	-	-	-
Dimensions (mm)	300 x 248 x 52	300 x 248 x 52	380 x 268 x 52
Weight (g) excluded HDD	1100	1100	1800

1080p LITE: the DVR stores flowing video (25 fps), reducing the pixel quantity.

By-camera app is available on Vimar site or Apple and Google Play stores

Download on the App Store

GET IT ON Google Play

▲ New article

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Hybrid 4Mpx DVRs, controllable by 10" multimedia video touch screen (21553.2)

Models	46540.D04	46540.D08	46540.D16
Video input	4 BNC, AHD/IP/TVI/CVI/CVBS +1 IP (max 5 Ch IP)	8 BNC, AHD/IP/TVI/CVI/CVBS +4 IP (max 12 Ch IP)	16 BNC, AHD/IP/TVI/CVI/CVBS +4 IP (max 12 Ch IP)
PoE ports	Not included	Not included	Not included
HDD	1 TB Professional	1 TB Professional	2 TB Professional
AHD storing resolution	4 Mpx/3 Mpx 12,5 Fps 1080p/720p/WD1 25 Fps	4 Mpx/3 Mpx 12,5 Fps 1080p/720p/WD1 25 Fps	4 Mpx/3 Mpx 12,5 Fps 1080p/720p/WD1 25 Fps
TVI storing resolution	1080p/720p 25Fps	1080p/720p 25Fps	1080p/720p 25Fps
CVI storing resolution	1080p/720p 25Fps	1080p/720p 25Fps	1080p/720p 25Fps
IP cameras recording resolution	1 Ch 3 Mpx 12,5 Fps 1080p/960p/720p 25 Fps	4 Ch 4 Mpx/3 Mpx/1080p/960p/720p 25 Fps	4 Ch 4 Mpx/3 Mpx/1080p/960p/720p 25 Fps
Video compression	Standard H.264 High Profile	Standard H.264 High Profile	Standard H.264 High Profile
Operating mode	PENTAPLEX	PENTAPLEX	PENTAPLEX
Video output	1 HDMI 1920x1080, 1280x1024 1 VGA 1920x1080, 1280x1024 1 BNC (spot oppure CVBS)	1 HDMI 4K, 1920x1080, 1280x1024 1 VGA 1920x1080, 1280x1024 1 BNC (spot oppure CVBS)	1 HDMI 4K, 1920x1080, 1280x1024 1 VGA 1920x1080, 1280x1024 1 BNC (spot oppure CVBS)
Audio in/out	RCA x 4/RCA x 1	RCA x 4/RCA x 1	RCA x 4/RCA x 1
Alarm in/out	4/1	4/1	4/1
OSD camera control over coaxial (CsC)	Yes	Yes	Yes
Network interface	1 RJ45 - 10/100 Mbps	1 RJ45 - 10/100 Mbps	1 RJ45 - 10/100 Mbps
Hard disk interface	1 SATA (max 6 TB)	2 SATA (max 6 TB)	2 SATA (max 6 TB)
USB interface	2 USB 2.0	1 USB 2.0 front panel 1 USB 3.0 rear panel	1 USB 2.0 front panel 1 USB 3.0 rear panel
RS485 PTZ control	Yes	Yes	Yes
CVM	Yes	Yes	Yes
QR CODE	Yes	Yes	Yes
Smartphone control	Android and iPhone	Android and iPhone	Android and iPhone
Video analysis	Yes*	Yes*	Yes*
Privacy filter	Yes	Yes	Yes
Interface	Mouse, remote control	Mouse, remote control	Mouse, remote control
Power supply / consumption (excluded HD)	12 V / 5 W	12 V / 15 W	12 V / 18 W
Operating temperature	-10 / + 50 °C	-10 / + 50 °C	-10 / + 50 °C
Cooling fan	Yes	Yes	Yes
Dimensions (mm)	300 x 248 x 52	380 x 268 x 52	380 x 268 x 52
Weight (g) excluded HDD	1100	1600	1800

* Suitable for cams with smart video analysis

By-camera app is available on Vimar site or Apple and Google Play stores

TVCC AHD kit - 4- and 8-channel

46550.412B

TVCC kit with:
1 46540.F04: DVR AHD **4-channel** HD or Full HD Real Time, H.264, 1 TB professional
2 46512.036B: Bullet AHD **Full HD 1080p** cameras, **3,6 mm fixed lens**
2 46902.015: 12 Vdc plug-power unit
1 RT03: 'Area videosorvegliata' warning sign

46550.412C

TVCC kit with:
1 46540.D04: DVR AHD **4-channel** 4 Mpx or Full HD Real Time, H.264, 1 TB professional
2 46512.028C: Bullet AHD **3 Mpx** cameras, **2,8 mm fixed lens**
2 46902.010: 12 Vdc plug-power unit
1 RT03: 'Area videosorvegliata' warning sign

46550.816C

TVCC kit with:
1 46540.D08: DVR AHD **8-channel** 4 Mpx or Full HD Real Time, H.264, 1 TB professional
2 46516.212C: Bullet AHD **3 Mpx** cameras, **2,8-12 mm varifocal lens**
2 46902.010: 12 Vdc plug-power unit
1 RT03: 'Area videosorvegliata' warning sign

46550.816B

TVCC kit with:
1 46540.F08: DVR AHD **8-channel** HD Real Time, H.264, 1 TB professional
2 46516.212B: Bullet AHD **Full HD 1080p** cameras, **2,8-12 mm varifocal lens**
2 46902.015: 12 Vdc plug-power unit
1 RT03: 'Area videosorvegliata' warning sign

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Monitor

Modelli	46910.H20A	46910.H24A
Schermo	19,5" LED Backlight Monitor	23,6" LED Backlight Monitor
Risoluzione	1920 x 1080	1920 x 1080
Rapporto profilo	16:9	16:9
Luminosità (NIT)	250 cd/m^2	250 cd/m^2
Rapporto del contrasto	500:1	500:1
Angolo di visione	170° x 160°	170° x 160°
Tempo di risposta	5 ms	5 ms
Ingressi video	HDMI x 1 VGA x 1 BNC x 1 in BNC x 1 out	HDMI x 1 VGA x 1 BNC x 1 in BNC x 1 out
Ingresso/uscita audio	1	1
Alimentazione	12 Vdc 30 W con alimentatore di serie	12 Vdc 30 W con alimentatore di serie
Attacco Vesa	Sì	Sì
Staffa appoggio tavolo	Sì	Sì
Dimensioni (mm)	485 x 375 x 50	570 x 425 x 50
Peso (kg)	2,8	3,8

Cables

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

0002.063.E
Cable for video systems, 2x0,35 mm^2 + 75 ohm coaxial cable, with PVC sheath, CPR Eca class, suitable for installation with I Category power supply cables (U0 = 400 V), grey - 200 m reel

0002.163.E
Cable for video systems, 2x0,75 mm^2 + 75 ohm coaxial cable, with PVC sheath, CPR Eca class, suitable for installation with I Category power supply cables (U0 = 400 V), grey - 200 m reel

46364.E.100
Coaxial cable for underground laying, ø 3,3 mm, with LSZH sheath, CPR Eca class, suitable for installation with I Category power supply cables (U0 = 400 V), brown - 100 m reel

46364.E.500
Coaxial cable for external laying, ø 6,3 mm with LSZH sheath, CPR Eca class, suitable for installation with I Category power supply cables (U0 = 400 V), brown - 500 m reel

Max recommended transmission distance

	Coaxial cable				Network cable	
Resolution	**RG59**	**0002.163.E** (coaxial+supply)	**46364.E.100** (3,3 mm high quality coaxial, internal)	**46364.E.500** (6,3 mm high quality coaxial, external)	**Passive Balun** (analog range)	**Active Balun** (analog range)
AHD 720p	400 m	40 m @ 700 mA (limit by supply)	270 m	500 m	200 m	Not allowable use
AHD 1080p	250 m	40 m @ 700 mA (limit by supply)	160 m	300 m	100 m	Not allowable use
3 Mpx	200 m	40 m @ 700 mA (limit by supply)	120 m	250 m	100 m	Not allowable use
4 Mpx	200 m	40 m @ 700 mA (limit by supply)	120 m	250 m	100 m	Not allowable use

If the limit distance is exceeded there is a progressive degeneration of the signal quality.

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Passive transducers (AHD)

46862.B02
Pair of passive transducer for video transmission on twisted cable, BNC connectors for camera or DVR connection, one transducer with 14 cm of cable, screw connection for cable

Keypad for PTZ and DVR control

46916.005
Keypad for Speed Dome cameras control, 3-axis. Pelco D, Pelco P protocols. Supply unit 12 Vdc 2 A (provided).
Dim.: 220x130x90 mm

46916.004
IP keypad for PTZ control, it controls simultaneously 10 devices, 3-axis control. Supply unit 12 Vdc (provided).
Dim.:41,7x26,5x17,5 mm

Power supplies

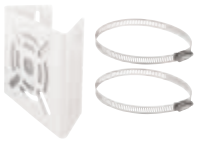
46902.010
Switching-mode power supply unit 100-240 Vac 50/60 Hz, with Europlug 2P plug and jack 12 Vdc 1 A, 12 W max power

46901.015
Switching power unit, for flush mounting, power supply 100-240 Vac 50/60 Hz, 12 Vdc 1,5 A jack, max power 18 W

Brackets and supports for AHD Bullet and Dome cameras

46922.015
Bracket with contacts box for fixed and varifocal Bullet AHD video cameras for surface mounting or ceiling mounting

46922.018
Bracket with contacts box for varifocal Dome AHD video cameras for surface mounting or ceiling mounting



46917.004
Pole bracket for fixed and varifocal AHD video cameras

Brackets and supports for IP Bullet and Dome cameras

▲46922.012.01
Bracket with contacts box for varifocal IP Dome video cameras for surface mounting or ceiling mounting

46922.013
Bracket with contacts box for varifocal IP Bullet and fixed Dome video cameras for surface mounting or ceiling mounting

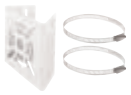
46922.014
Bracket with contacts box for IP Bullet and Dome fixed and varifocal video cameras for surface mounting or ceiling mounting

46917.002
Pole bracket suitable for Speed Dome (PTZ) and Bullet IP

Brackets for IP Fisheye cameras

▲46922.019
Staffa con scatola contatti per telecamere IP Fisheye per fissaggio a parete o soffitto

Box and AHD cameras matches

Bullet cams		**46917.004** pole bracket	**46922.015** Bracket with contacts box matches with 46917.004	Dome cams		 **46917.004** pole bracket	**46922.018** Bracket with contacts box
	46512.036B	x	x		46522.036B	x	
	46512.028C	x	x		46522.028C	x	
	46512.036D	x	x		46522.036D	x	
	46516.212B	x	x		46526.212B	x	x
	46516.212C	x	x		46526.212C	x	x
	46516.213D	x	x		46526.213D	x	x
					46523.036B		

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Box and IP cameras matches

Bullet cams		46922.013 Bracket with contacts box	46922.014 Bracket with contacts box	46917.002 pole bracket
	46212.036B		x	x
	46212.036D		x	x
	46212.036E		x	
	46216.312DMS		x	x
	46216.212B		x	x
	46216.212BL		x	x
	46216.312EMS		x	
	46216.310E	x		x
	46216.312DMA	x		x
	46216.312EMA	x		
	46216.312FM	x		x

Box and IP cameras matches

Dome cams		46922.012.01 Bracket with contacts box	46922.014 Bracket with contacts box
	46226.310E	x	
	46226.312EMA	x	
	46226.312FM	x	
	46222.036B		x
	46222.036BL		x
	46222.036D		x
	46222.036E		x
	46226.212B		x
	46226.312DMS		x
	46226.312EMS		x

AHD

DVR with alarm input and cam matching

DVR	Channels number	In/out alarm	Cam resolution			
			720p	1080p	3 Mpx	4 Mpx
46540.F04	4	4 / 1	Yes	Yes	-	-
46540.F08	8	4 / 1	Yes	Yes	-	-
46540.H16	16	4 / 1	Yes	Yes	-	-
46540.D04	4	4 / 1	Yes	Yes	Yes	Yes
46540.D08	8	4 / 1	Yes	Yes	Yes	Yes
46540.D16	16	4 / 1	Yes	Yes	Yes	Yes

Cams with alarm input

Cameras	Sensor (resolution)	Lens	In/out alarm
46535.020B.01	1/3" (1080p)	5,35 - 107 mm	4 / 1

IP

NVR with alarm input and cam matching

NVR	No. channel	Alarm in/out	No. PoE	Cam sensor (resolution)	
				Up to 5 Mpx (2592 x 1944)	**Up to 8 Mpx** (3840 × 2160)
46241.H04	4	-	4	Yes	No
46241.H08	8	-	8	Yes	Yes
46241.H16	16	-	-	Yes	Yes
46241.F32H	32	-	-	Yes	Yes
46241.H64	64	8 / 4	-	Yes	Yes
46241.H32P	32	16 / 4	16	Yes	Yes

Cams with alarm input

	Bullet				Dome			
	Cams	**Sensor** (resolution)	**Lens**	**Alarm in/out**	**Cams**	**Sensor** (resolution)	**Lens**	**Alarm in/out**
Varifocal	**46216.312DMA** H.265 - H.264	4 Mpx (2592 x 1520)	3,3 - 12 mm (motorised)	1 / 1	**46226.310E** H.265 - H.264	5 Mpx (2592 x 1944)	3,6 - 10 mm	1 / 1
	46216.310E H.265 - H.264	5 Mpx (2592 x 1944)	3,6 - 10 mm	1 / 1	**46226.312FM** H.265 - H.264	8 Mpx (3840 x 2160)	3,3 - 12 mm	1 / 1
	46216.312FM H.265 - H.264	8 Mpx (3840 x 2160)	3,3 - 12 mm	1 / 1				

PTZ			
Cams	**Sensor** (resolution)	**Lens**	**Alarm in/out**
46235.020C H.265 - H.264	3 Mpx (2048 x 1536)	5,5 - 110 mm	7 / 1

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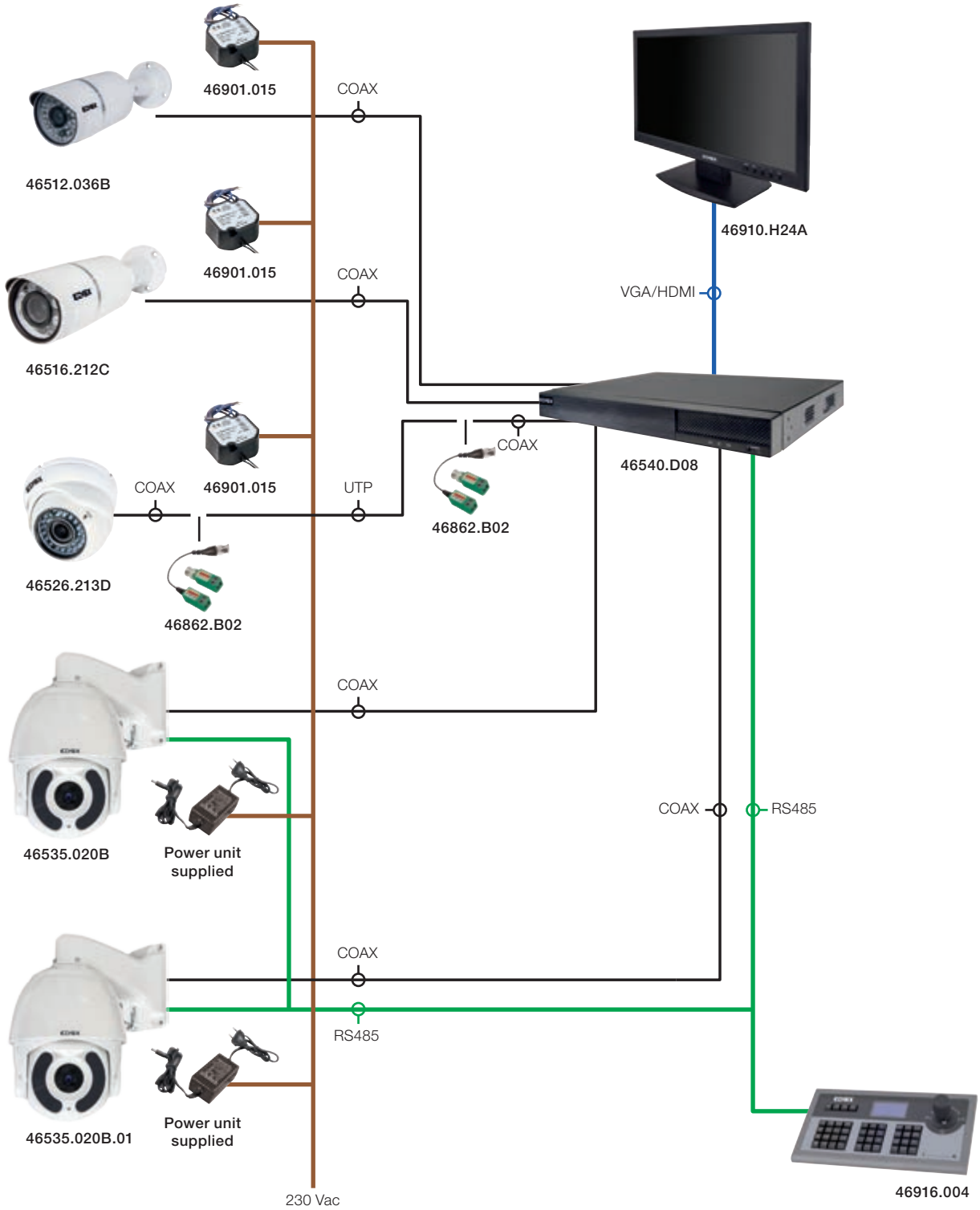
Types of installations: TVCC AHD systems

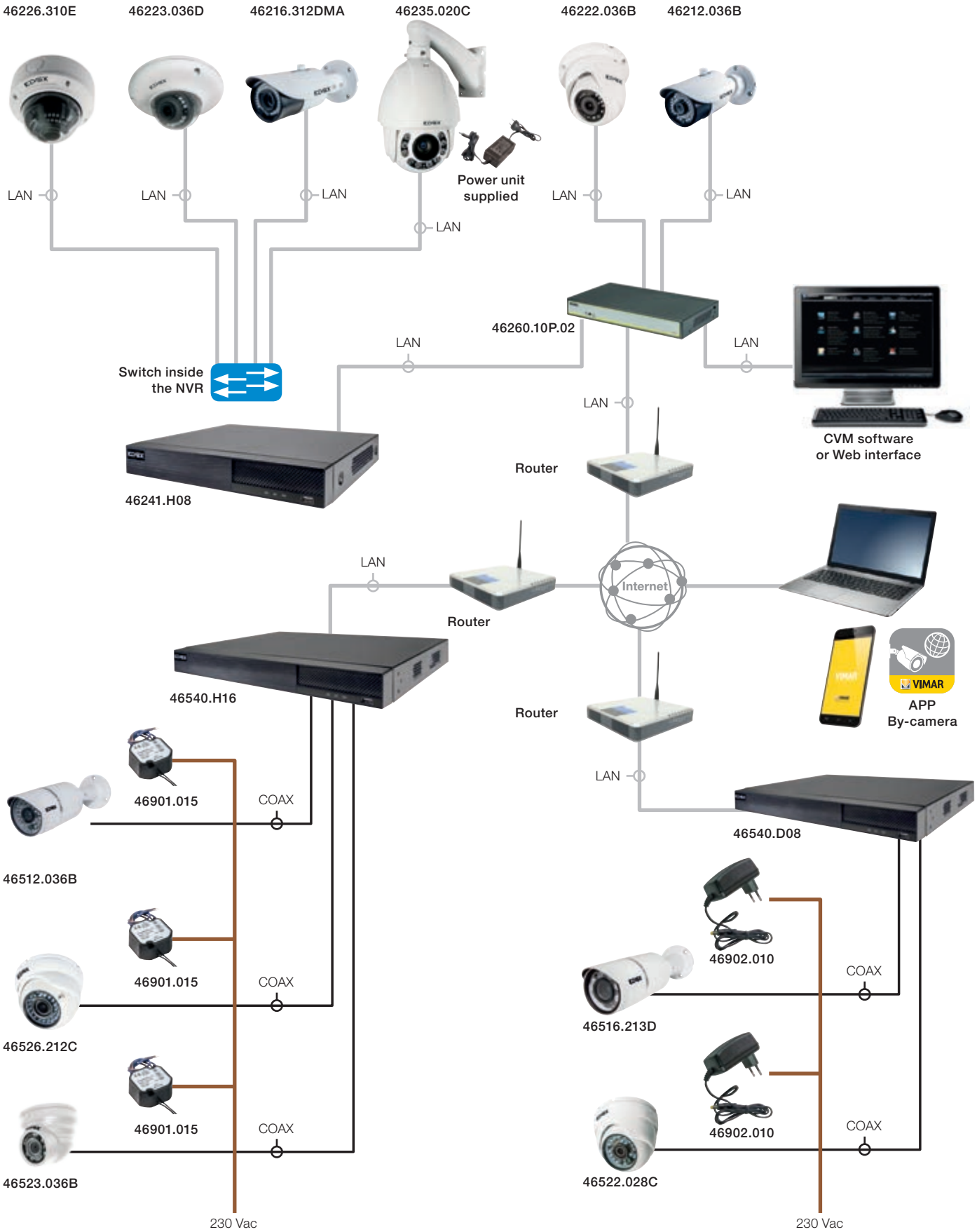
The example shows an AHD CCTV system with slewing control.



Videosurveillance system

Types of installations: CCTV system mixed IP and AHD

The example shows a CCTV system with the integration of AHD and IP technologies and centralization with DVR/NVR.



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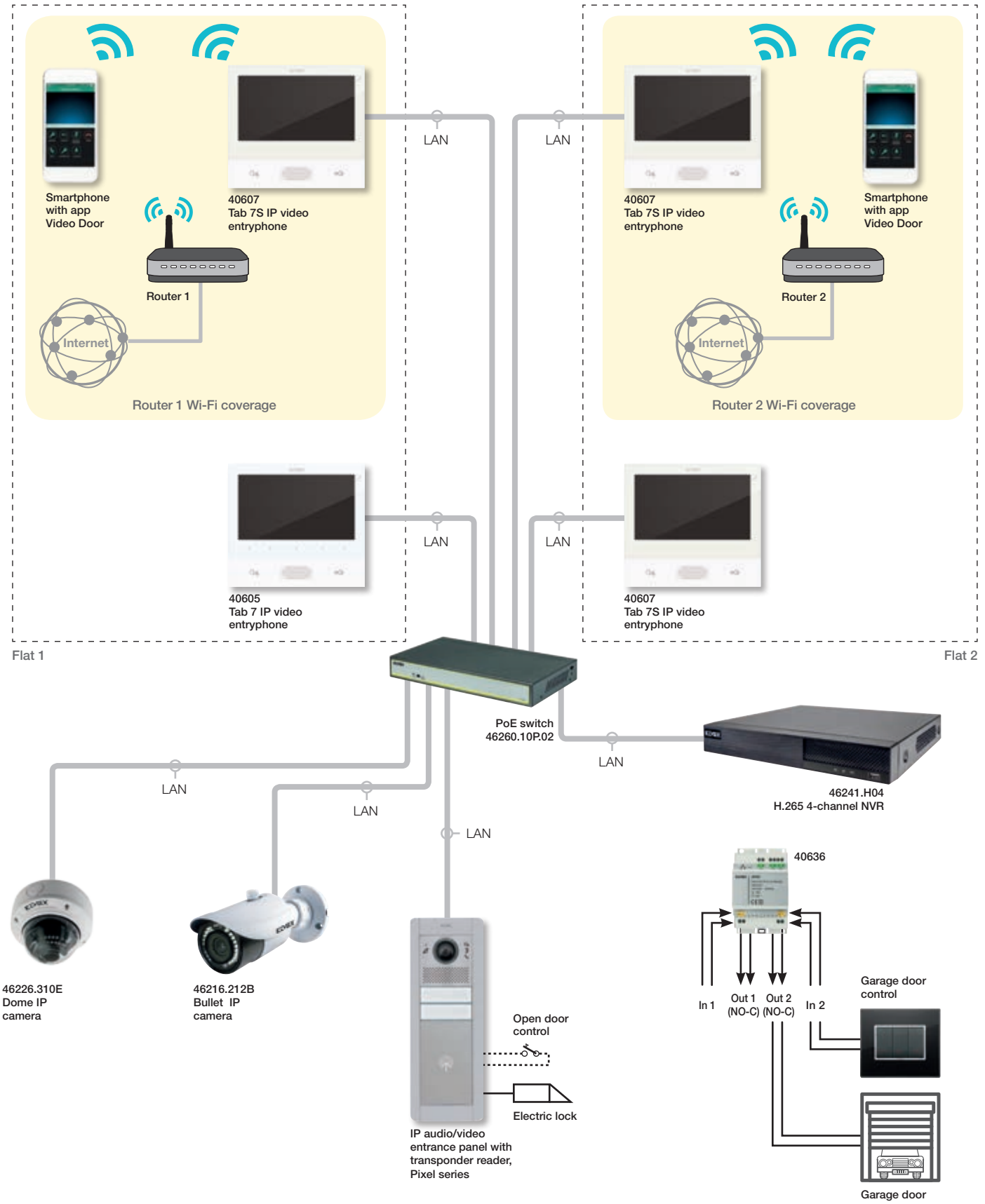
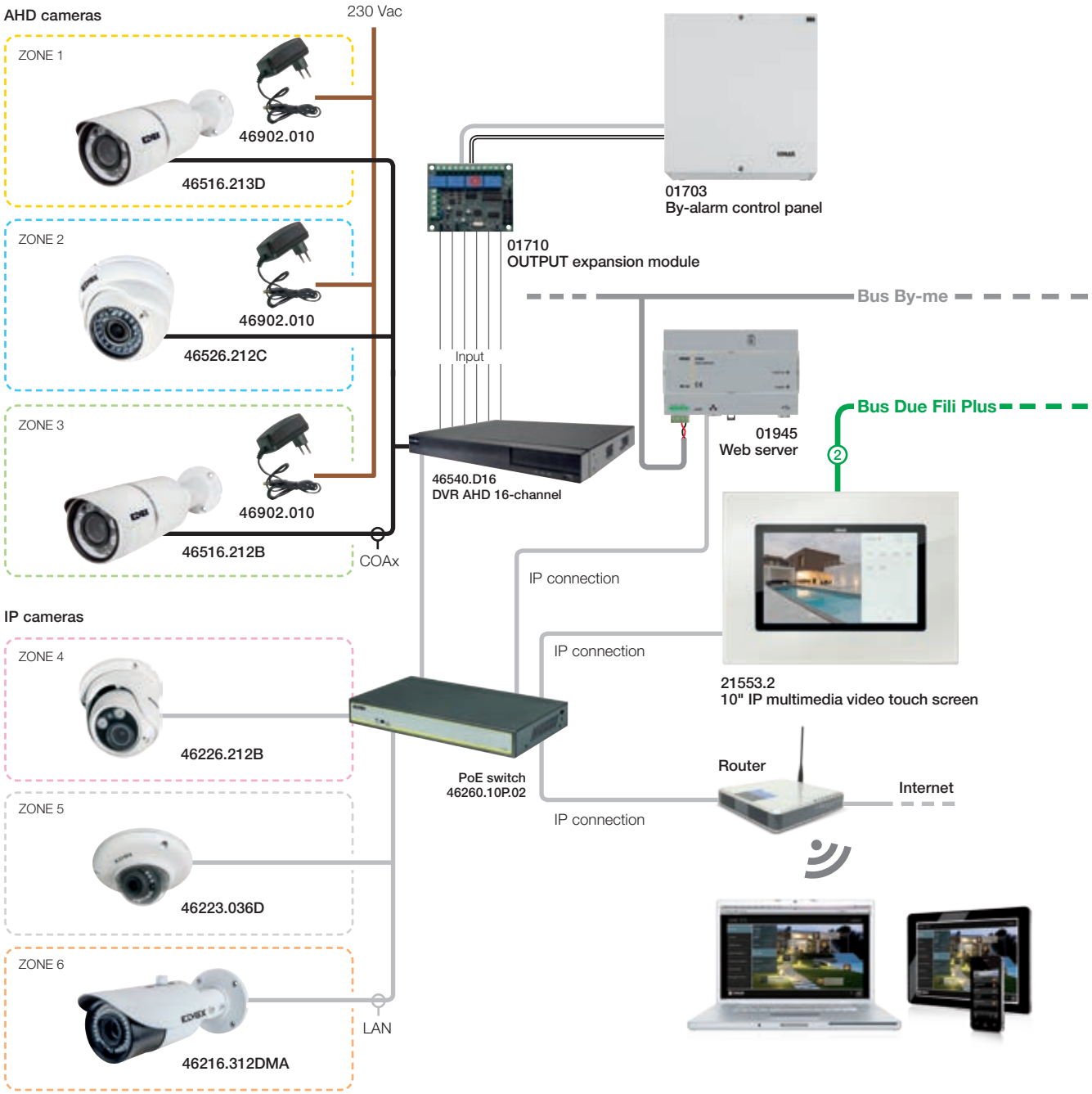
Types of installations: CCTV system integrated with the video door entry system



Note: example based on LAN network dedicated to the video door entry system. The passive cabling system and the active devices can change according to the type of the established network for the specific application.

Types of installations: CCTV system control from By-me and By-alarm systems

The example shows a CCTV system realized with IP cameras connected to an AHD DVR and Wi-Fi router by means of a switch.
The IP 10" multimedia video touchscreen, where the CCTV Controller is installed, enables the visualization and control of the IP cameras connected to Wi-Fi router.
In addition, through the "Telecamere" application it is possible displaying the images filmed from Due Fili Plus flush mounting cameras (1-module or 2-module) o from entrance panels.
Through the router, the images filmed from IP camers can be displayed into the smartphone or tablet, as long as they are provided of Superlive Plus app or into the PC provided with an internet browser.
In the system, the By-alarm control unit (01703) by means the OUTPUT expansion module (01710) is connected the DVR, when the By-alarm system detects an intrusion in the zone 2, an alarm is activated and the DVR will activate the recording of the images.



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