Roxie

40170
Outdoor station for Due Fili Plus Kit
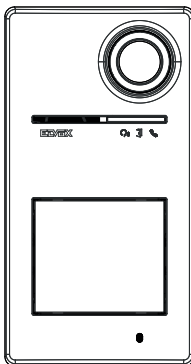
Index

1 General information

Outdoor station for Due Fili Plus system to be completed with push buttons (accessories), from 1 to 4 call buttons.

1.1 Warnings and advice

<u>Warnings for installation</u>:

For installation, refer to the instruction sheet in the package.

Make any system changes (replacement of outdoor stations, new wiring, etc.) with the outdoor station switched off.

Remove the protective film from the camera lens only once installation is complete.

<u>Maintenance</u>:

Clean using a soft cloth.

Do not pour water onto the appliance and do not use any type of chemical product.

<u>Warnings for the user</u>:

Do not open or tamper with the appliance.

In the event of faults, contact specialized personnel.

<u>Advice on system configuration</u>

If there is an IoT connected Gateway in the system and the entrance panel connectivity with the Bluetooth network of the View Wireless system is always guaranteed (there are no problems of signal coverage with the IoT connected Gateway or there is a system node near the entrance panel), having suitably configured the entrance panel with the View Wireless app you can open the lock from the View app via the home automation system. The IoT connected Gateway will automatically recognise the entrance panel as a possible opening in your home automation system. One example of use is an entrance panel on the landing outside the office.

If the connection of the entrance panel to the Bluetooth network of the View Wireless system is not guaranteed, then an independent access control video door entry system must be created with the app View Wireless app for the entrance panel/s (without connection to the IoT connected Gateway). One example of use is an entrance panel at the end of a path, far from the building and without a strong Bluetooth connections to the View Wireless system.

If you do not have a View Wireless home automation system but a By-Me home automation system with a video door entry gateway, the entrance panel will be added to the video door entry system.

If you have an indoor station connected via Wi-Fi network, you can control the functions supported by your video door entry indoor station via the View app (e.g., lock release from the app, self-start, …)

To configure the device from the app, follow the steps described in the "Configuration and commissioning procedure with standard Bluetooth technology", in the chapter "Configuration and commissioning procedure" of the View Wireless manual.
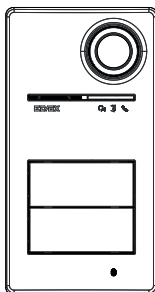
1.2   Accessories

• Push button kit (to be purchased separately):

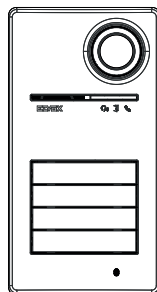| 40171	Push button kit for entrance panel 40170
40172	2 single push buttons kit for entrance panel 40170
40174	4 single push buttons kit for entrance panel 40170

1 push button	2 push buttons	4 push buttons
40170 + 40171	40170 + 40172	40170 + 40174

• Transponder keys for RFID reader:

40169 (*)	Ultralight 7 RFID tag kit
40175 (*)	EV2 5 RFID tag kit

*   **Note**: *the Ultralight 40169 tags cannot be acquired directly from an iOS smartphone.*
    To guarantee the correct operation with other Vimar access control devices, use the EV2 40175 tags.

• Card for RFID reader:

01817	MIFARE® DESFire® transponder card

2 Push button and signal functions

2.1 Front view
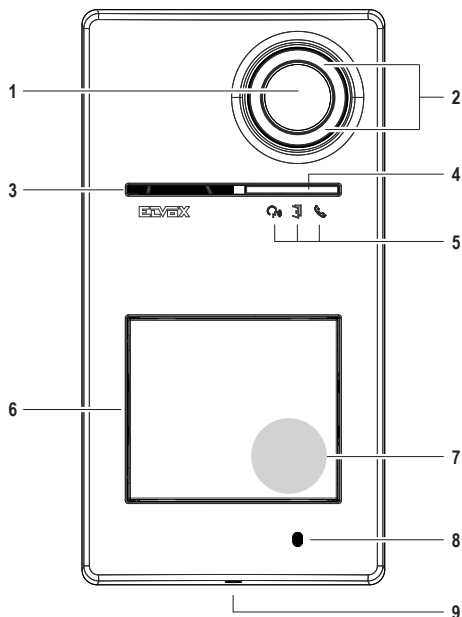
1 - Camera
2 - Camera Illuminator
3 - Speaker
4 - Brightness sensor
5 - Indicator LED
6 - Call button(s)
7 - Transponder card/key reading area
8 - Microphone
9 - Cover plate tightening screw (closes anti-clockwise)

2.2   Internal view (entrance panel open)
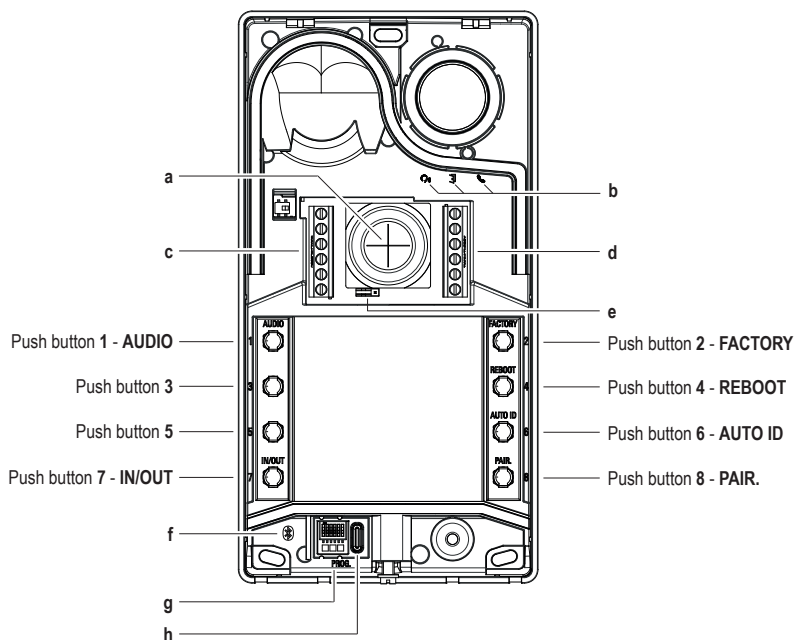
a -   Cable input
b -   Indicator LED
c-d - Connection terminal blocks
e -   NO/NC contact configuration jumper
f -   Blue LED
g -   Configuration dip switch
h -   Type C USB connector

Note: Hearing aid symbol on the electronic panel envisaged for possible future product developments. The function is not currently available.

3 Configurations

The outdoor station can be configured in the following ways:
1. Configuration via " View Wireless" App
2. Configuration via push buttons on the outdoor station
3. Configuration via dip-switch
4. Configuration with "SaveProg" system software

One of the new features of this outdoor station is the possibility to configure it with the "View Wireless" app. Configuration via the View Wireless app is used to programme most of the outdoor station parameters quickly and intuitively.

3.1 Configuration via " View Wireless" App

The "View Wireless" App is designed to configure a subset of parameters typical of a Due Fili Plus outdoor station and to manage the access control part.

Download the View Wireless App from the stores onto the tablet/smartphone you will be using for configuration.

When the device is powered for the first configuration, we recommend you search for any new firmware and perform the update.

For configuration operations on the Bluetooth system please see the instruction manual for the View Wireless App.

See configuration list in paragraph 3.1.2.

3.1.1 Bluetooth association with a smartphone (Bluetooth Provisioning)

This is the process for adding a new device to a Vimar device Bluetooth network.

The configuration envisages that the entrance panel is open and the push buttons removed from the base.
The procedure can be activated within 15 minutes from supplying electricity to the outdoor station.
Note: if the outdoor station has already been added to a View Wireless system and you need to change smartphone, simply use the same View Wireless account on the new smartphone; if, on the other hand, the View Wireless account has changed, you have to reset the outdoor station (factory default) and associate it again.
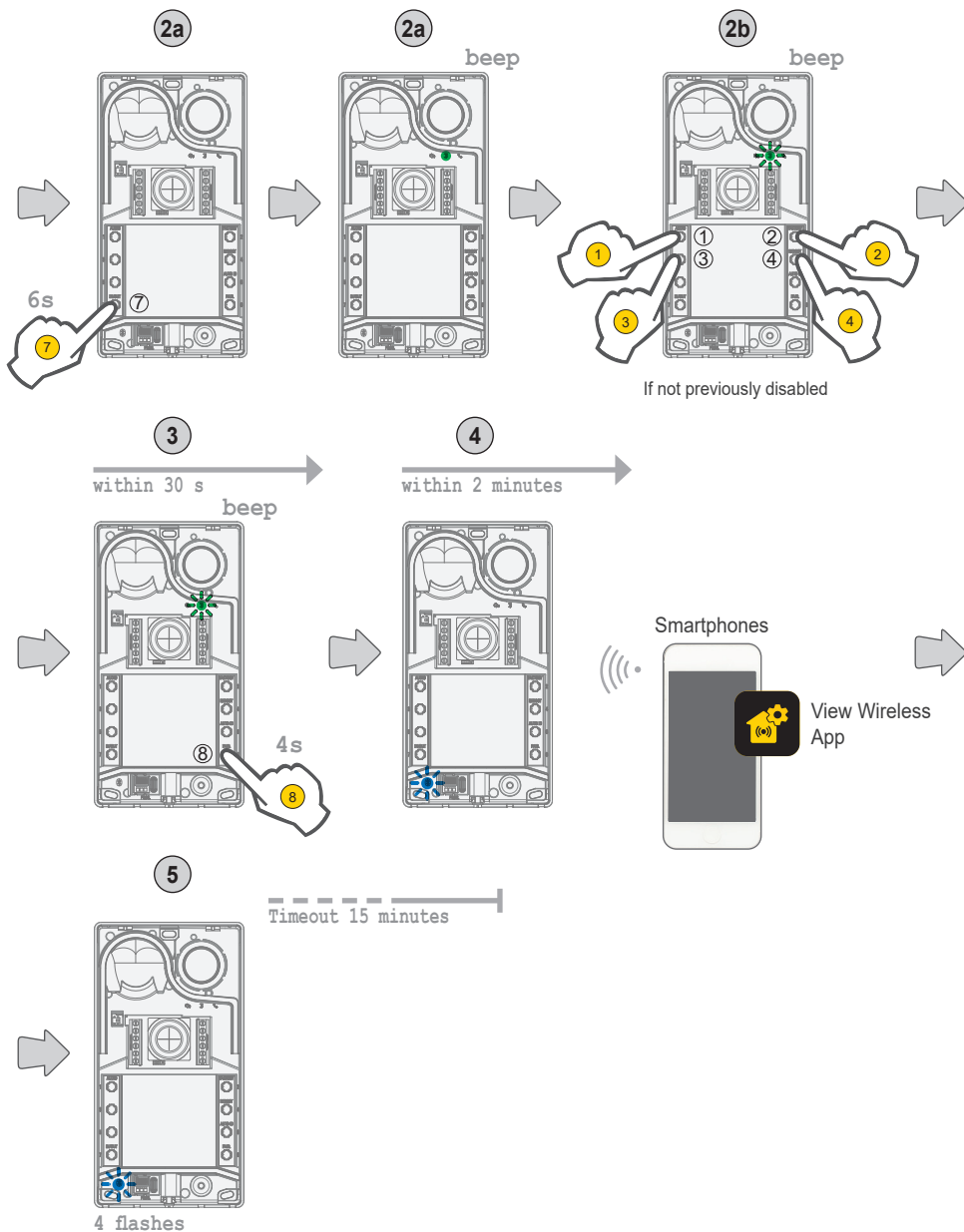
1. Remove and power the outdoor station.
2. Enter the configuration status:
   a. Press and hold down push button **7** for at least 6 seconds until the outdoor station emits a confirmation beep and the green LED is on steady.
   b. If not previously disabled, enter the access **PIN** (push buttons **1**, **2**, **3**, **4** by default). In the configuration status, the input is signalled by a beep and the flashing green LED
3. Within 30 seconds, press and hold down push button **8** for at least 4 seconds to start the Bluetooth association procedure of the outdoor station with a smartphone with the *View Wireless App installed*.
4. The blue LED starts flashing rapidly; at this stage the outdoor station enters the *"beaconing"* signalling phase which lasts 2 minutes and notifies the App of its availability to start the Bluetooth association procedure.
5. Once the "*Bluetooth association*" is complete, the blue LED flashes 4 times slowly in sequence.
   If the procedure is not launched, you will exit the "*beaconing*" signalling status after 2 minutes.

The duration of the scan by the App of devices available lasts 30 seconds.

Note: *we recommend changing the access PIN and keeping it enabled.*

1 Power the outdoor station.

2a

2a beep

2b beep

6s

⑦

①② ③④

If not previously disabled

3 within 30 s

beep

4 within 2 minutes

⑧ 4s

Smartphones

View Wireless App

5

Timeout 15 minutes

4 flashes

3.1.2   User configurations/Controls via app

3.1.2.1   Card programming
- Cards are programmed via the View Wireless app (with Administrator profile).

3.1.2.2   Outdoor station configurations

<u>Installer profile</u>

The following entrance panel parameters can be configured via the View Wireless app, with installer profile:

<u>System parameters</u>:
- Name, position and visibility

<u>Video door entry system parameters:</u>
- Number of push buttons
- Button and camera LED lighting management and brightness
- Answer, talk and self-start time
- Call tone enabling (ringtone on/off): ringtone cycles, melodies and volume
- Association of the relay actuation with the indoor station unlock door function and/or unlock door control (if active)
- Relay and unlock door control actuation time from indoor station
- Enabling of device voice message support, with related volume and language settings
- Enabling the access PIN (on/off)
- Setting the speaker and microphone audio levels
- Setting of the actuation from a valid card (lock, relay, lock+relay, remote actuation)
- Outdoor station ID configuration in the Due Fili Plus system
- Mapping of outdoor station push buttons
- Starting the automatic indoor station ID assignment procedure (function available only from master entrance panel)
- Common lock function
- Restarting the system

From the installer profile it is also possible to do the following on the outdoor station:
- Firmware updating and check
- The removal of the device, with subsequent reset of the related default parameters

<u>Administrator profile</u>

The following entrance panel parameters can be configured via the View Wireless app, with Administrator profile:
- Management of access cards: addition, management and deletion of cards.
- Button and camera LED lighting management and brightness
- Call tone enabling (ringtone on/off): ringtone cycles, melodies and volume
- Enabling of device support via voice messages, with related volume and language settings
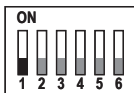- Firmware updating and check

From the installer profile it is also possible to manage the administrator profile by selecting the appropriate "Administrate" item at the end of the first installation procedure.

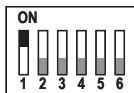## 3.2   Configurations via dip-switch

6 dip-switches are available with the configuration functions described in the following table:

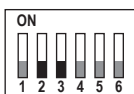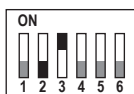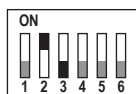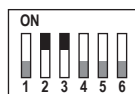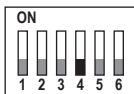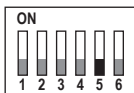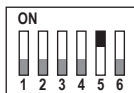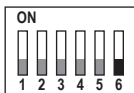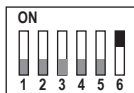|				
• Due Fili Plus ID settings	**ID1**	**ID2**		
• Selection of the number of call buttons	1 push button (default)	2 push buttons	1 push button	4 push buttons
• Selection of CA or PA operation	"CA"	"PA"		
• Main Video Source	Internal video	External video		
• Number of videos to display	Single video	Two videos		
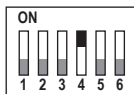
The SaveProg, app and dip-switch configuration sources have the same priority, the last settings prevail and work exclusively. In addition, changes of one source are not updated in real time on another.

Settings done from dip-switch are read continuously from the outdoor station (this does not depend on the configuration status).

If the settings from dip switch become obsolete (new programming by SaveProg or app), while the outdoor station is open and in standby a warning signal "dip-switches unreliable" will be given (see chapter "LED signalling"), which indicates any dip-switch configuration as unaligned.

The factory default configuration reset is managed as a forced programming: after a reset the dip-switches are not read (and are therefore invalidated).

3.3 Configurations via push button

The configuration envisages that the entrance panel is open and the push buttons removed from the base.

Configuration is done using push buttons **1**-**2**-**3**-**4**-**5**-**6**-**7**-**8**.

Red LED
Green LED
Blue LED
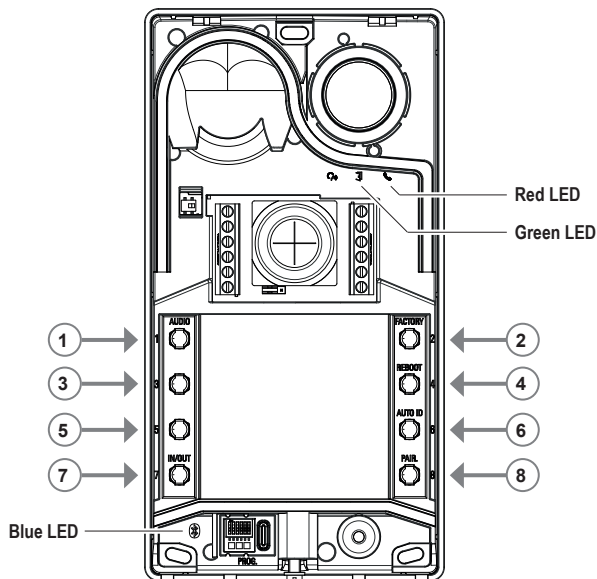
3.3.1 Access to push button configuration status

- **STARTING THE CONFIGURATION (push button 7 + PIN if enabled)**
  or **to enter the configuration status**:
    - **-** press and hold down push button **7** for at least 6 s, until the outdoor station emits a confirmation beep and the green LED is on steady.
    - **-** enter the access **PIN** where enabled (by default **1, 2, 3, 4**); the green LED starts to flash.

- *If the PIN is enabled, the device emits a beep, the backlighting LEDs come on and the "enter PIN" signal is enabled;*
  - o *the user enters the 4-digit PIN:*
    - *- if correct, the outdoor station emits an "input in configuration" beep and the green LED starts to flash. The status is configuration active.*
    - *- if incorrect, an "operation not permitted" beep is given and the red LED flashes. The status is standby.*
- *If the PIN is disabled, the device emits a beep and the green LED flashes (see chapter "Signalling during configuration"). The status is configuration active.*

- **EXIT (Push button 7 / timeout 30 s)**
  - o **to exit configuration mode:** press and hold down push button **7** (for at least 3 s) until acoustic/visual feedback of exiting the configuration status is given (the green LED stops flashing and a "beep" is emitted).

3.3.2 Configuration procedure via push buttons

To proceed with the following configurations, the device must be in configuration status, as described in the previous chapter 3.3.1.

3.3.2.1 Default reset

Deletes all the contents of the outdoor station configurations (including Bluetooth association and stored access control keys or cards) and resets to the factory default status.

1. Press push button **2** for at least 4 seconds.
2. Operation completed confirmed by a beep and a "confirm the operation" signal.

Works only within 1 minute after powering the outdoor station.

If the procedure is attempted after one minute, the red LED flashes and an "operation not permitted" beep is emitted.

Having restored the device to the factory default setting, the Bluetooth association procedure can be enabled in the following 15 minutes, as if the device had been powered up again.

3.3.2.2 Restarting the Due Fili Plus system

1. Press push button **4** for at least 4 seconds.
2. Operation completed confirmed by a beep and a "confirm the operation" signal.
3. On restarting the system, the outdoor station is also restarted.

Works only within 1 minute after powering the outdoor station.

If the procedure is attempted after one minute, the red LED flashes and an "operation not permitted" beep is emitted.

3.3.2.3   Starting the automatic indoor station ID assignment procedure

Requires that the number of users has been configured in advance (valid if the outdoor station is master).
1. Press push button **6** for at least 4 seconds.
2. Operation completed confirmed by a beep and a "confirm the operation" signal.
3. Press the first push button from which to start associating the IDs (from top to bottom) within 30 seconds, otherwise the device exits the configuration status. The device exits the configuration status also after pressing the push button.
4. The timeout for the automatic indoor station ID assignment procedure is after 30 minutes or can be exited by pressing push button **6** for 4 s (the "exit status" beep is emitted), after having returned to configuration mode pressing push button **7**.

If the outdoor station is not master, a visual and acoustic "operation not permitted" signal is given.

If not previously disabled

3.3.2.4   Fine Audio tuning

The audio adjustment described here is done from an open entrance panel, once closed the perceived audio result will differ.

• Press **1** for at least 4 seconds until the name plate label LEDs start to flash (starting audio configuration); at this point, the outdoor station goes to standby (out of configuration status).
• with outdoor station in talk following a call/self-start, pressing the following push buttons the setting will remain (at the limit stop a "set audio" beep will be emitted).
    a. **1 - 2** adjusts the speaker;
    b. **3 - 4** adjusts the microphone;
• The adjustment procedure ends when:
    - push button **7** is pressed;
    - a call from an indoor station is closed;
    - there is an outdoor station timeout (end of communication with the indoor station);

The audio level can be set according to 10 available levels.

Signalling during audio adjustment

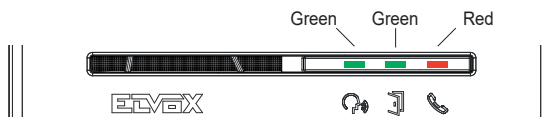| Audio level	(Green LED)	(Green LED)	(Red LED)
Level 1	0	0	0
Level 2	1	0	0
Level 3	1	1	0
Level 4	1	1	1
Level 5	2	1	1
Level 6	2	2	1
Level 7	2	2	2
Level 8	3	2	2
Level 9	3	3	2
Level 10	3	3	3
Key: **0** → LED off; **1** → LED flashing slowly; **2** → LED flashing quickly; **3** → LED on steady;			

3.4 Configurations using configuration software

The outdoor station can be configured in an advanced way using the SaveProg software.

SaveProg is PC software designed for advanced configuration of Due Fili Plus Systems.

For more information refer to the related software.

3.5 Signalling during configuration

Green   Green   Red

| Name	Duration (s)	Green LED (s)	Red LED (s)	Blue LED (s)
Input in configuration	2 s	0.5 s ON, 0.5 s OFF		
Entering the PIN	2 s	On steady		
Configuration		0.5 s ON, 0.5 s OFF		
Starting audio configuration	3 s	0.5 s ON, 0.5 s OFF		
Set audio	0.5 s			
Confirm the operation	1 s	1 s ON		
Output	1 s			
Operation not permitted	0.5 s		0.1 s ON, 0.1 s OFF	
Dip-switches unreliable			0.5 s ON, 0.5 s OFF	0.5 s ON, 0.5 s OFF
Signalling of an outdoor station available for a Bluetooth association with a Smartphone (Beaconing)				0.1 s ON, 0.1 s OFF
Signalling of an outdoor station Bluetooth association with a Smartphone completed				0.5 s ON, 0.5 s OFF
Outdoor station/BLE firmware not aligned				On steady

4   Operation

4.1   Video door entry functions

4.1.1   Calls to Indoor Stations

The outdoor station can mange up to 4 video door entry calls to 4 internal users.

Default correspondence of call buttons - ID code of the Due Fili Plus system

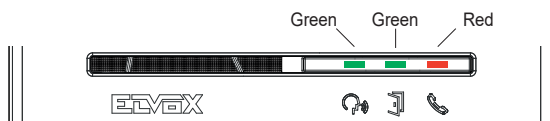| ID1	ID1 ID3	ID1 ID2 ID3 ID4
1 call button	2 call buttons	4 call buttons
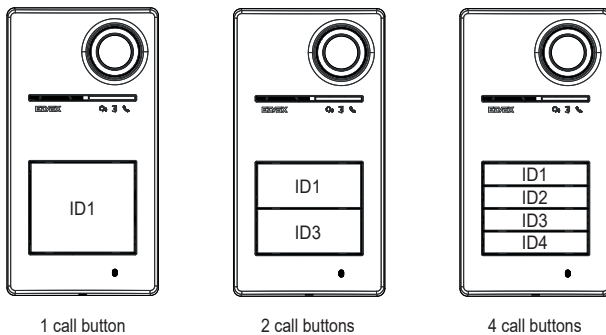
4.1.2   Lock release control and additional push buttons

An electrical lock connected directly to terminals **S+** and **S-** can be controlled and an additional local push button can be connected to release a door lock to terminals **CA+** and **CA-**.

Alternatively terminals **CA+** and **CA-** can be configured (via SaveProg and dip-switch) as the input of a sensor for signalling "Door open".

4.1.3   Signalling during normal video door entry system operation

Green   Green   Red

LED	Meaning
	Green LED: • Flashing → signalling call in progress (0.5 s on, 0.5 s off, cycle 1 s); • On → signals active communication;
	Green LED • On → during the lock actuation;
	Red LED • On → signals Bus busy; • Flashing → no communication as described in the following table "Flashing red LED":

Situation	Flash type and duration
Attempt to call with BUS busy	flashing for 2 s
Call to indoor station with user absent	fast flashing for 5 s
Call to indoor station busy	slow flashing for 5 s
The indoor station called does not exist	flashing for 1 s
Secondary ID assignment with parent > 50	flashing for 1 s

4.2   Access control

The outdoor station is equipped with an access control reader for keys or transponder cards.

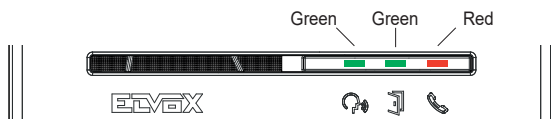The reader operates in the area indicated in the image below.

Transponder card/key reading area
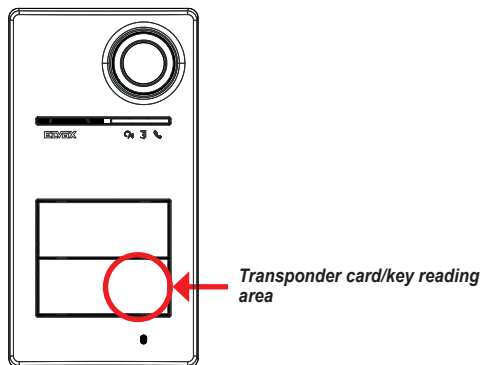
The keys/cards always activate the same actuation configured in the Due Fili Plus system. This may be the lock, relay or extensions envisaged by the system.

The **keys or transponder cards** are configured using the View Wireless app (with Administrator profile).

For more information refer to the "View Wireless" manual available at *www.vimar.com*.

Note: Opening of the entrance via Smartphone NFC is not guaranteed.

4.2.1   Access control signals

Green   Green   Red

LED	Meaning
	-
	Green LED • 3 flashes → access/remote actuation from card + "beep" and possibly voice message
	Red LED • 3 flashes → invalid card reading + "boop"

4.3 Video sources and switching

The outdoor station has two possible video sources that can be viewed on the indoor station during communication:
• the internal camera, "internal video"
• one input for CCTV type external camera, "external video"

Characteristics of the internal camera:
• Viewing angle H = 130°
• Resolution PAL 480 TVL
• Fps pal = 25/s
• Colour camera
• Lux Min <= 0.1

Characteristics of the external video:

An external camera can be connected to the specified terminals (**V-** and **V+**).
The electrical characteristics of the external video connection are:
• video termination in AC
• maximum length of the connectable cable 30 m

4.3.1 Video operation and configuration

During installation it is possible to configure the video source user mode, by selecting:
1. the main video signal, choosing between internal and external video;
2. the number of videos to display, either single or two videos;
Configuration is via dip-switch or SaveProg.

4.3.2 Video switching on indoor stations

If two videos were configured, during communication it is possible to switch the video displayed on the indoor station.
For Tab 5S Up 40515, Tab 7S Up 40517 indoor stations and in the related user app there is a specific button for switching the video signal.
For other indoor stations, both of the following options can be used:
• "pan/zoom" control;
• F1/F2.

4.4   Dusk/dawn function

Dusk/dawn function for automatically adjusting the lighting brightness according to the ambient light.
This adjustment affects the white LEDs lighting the recording area and the push button backlighting LEDs.

4.4.1   Brightness sensor

The brightness is automatically adjusted by an ambient light sensor.

4.4.2   Adjustment mode

The room and label LEDs function as explained below, with two adjustment modes, for app and SaveProg as described:

From app
  • in **day/night** mode (light/dark)
     o in the **light** the room and label LEDs *are off*; this mode configures the outdoor station with an intensity value 0, *automatically*; (No adjustment by the user).
     o in the **dark** the *room* and *label levels can be set independently*.
  • in **24h mode** (always on), the brightness values are set for the room LEDs and the label LEDs. It is also possible to switch both off completely.

From SaveProg
  • in **day/night** (light/dark):
     o in the **light** the *room* and *label levels can be set independently*.
     o in the **dark** the *room* and *label levels can be set independently*.
  • in **24h mode** (always on), the brightness values are set for the room LEDs and the label LEDs. It is also possible to switch both off completely.

Light/dark status
The brightness sensor sets the **day/night** (light/dark) status, the threshold of which is defined by default and cannot be modified by the user.

Note: if the adjustment is done from the app during a call, the LEDs are set at the next call.

Summary

Tools	day/night		24h
	"light" status	**"dark" status**	**"always" status**
App	• labels → 0 • room → 0	• labels → adjustable • room → adjustable	• labels → adjustable • room → adjustable
SaveProg	• labels → adjustable • room → adjustable	• labels → adjustable • room → adjustable	• labels → adjustable • room → adjustable

4.5   Voice messages

The device is equipped with voice messages, enabled from SaveProg and app.

By default they are disabled, and when enabled the default is Italian.

The possible messages are:

- Calling
- End of call
- Door open
- Auxiliary activation
- No answer
- Busy
- Speak

Voice message languages:

- Italian, English, French, German, Spanish, Greek, Portuguese, Russian, Swedish, Dutch, Polish, Arabic.

5   Firmware updating

The update takes place:
- from the PC, using FWUpdate in SaveProg, via USB connection (USB C connector)
  There are two firmwares to be updated via the FWUpdate software, to be executed in the correct order following the instructions given in the Software.
- via "View Wireless" app.

During the updating phase, the user feedback from the outdoor station is provided by the indicator LEDs. The voice synthesis can also be updated using SaveProg.
Refer to the guides in SaveProg and View Wireless for more details.

Outdoor station firmware update using the View Wireless App
- during the updating phase, only one updating channel should be active, either SaveProg or View Wireless
- do not disconnect the power supply to the outdoor station during the update and make sure your smartphone is fully charged
- stand no more than one metre from the outdoor station and refrain from performing operations on the same or on your smartphone during the updating phase (for instance disconnecting Bluetooth, killing Apps…).

Signalling during the updating phase (red LED)
- On steady, while the bootloader is active;
- Flashing (irregularly), during deletion and writing.

5.1   Signalling during updates

Green   Green   Red
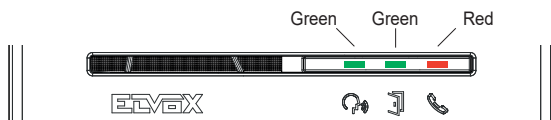
LED	Meaning
	Red LED • On steady → update in progress • Flashing (irregularly), during deletion and writing

$C \in$

VIMAR