# 2-WIRE SINGLE-FAMILY HANDS-FREE COLOUR KIT Ref. 1735/501





Installation and instruction manual



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### 1 WARNINGS

Read the notes in this manual carefully. This manual contains important information on safe installation, use and maintenance

#### **GENERAL WARNINGS**

- This device is only intended for the specifically designed use.
- All other use is improper. The manufacturer cannot be held responsible for damage deriving from improper, incorrect or unreasonable use.
- The system must be built in compliance with the regulations in force. All devices in the system must be exclusively used for the purpose for which they were designed.
- Provide a suitable cut-off and protection master switch upstream from the devices, with contacts open by at least 3 mm.
- Make sure that the plate data corresponds to the power specifications before connecting the device to the mains.
- Check that the devices are intact after removing them from the packaging. Keep the packaging (plastic bags, polystyrene etc.) away from children. Packaging is potentially dangerous.
- Keep the ventilation or cooling openings and slots free.
- Do not install the devices in environments exposed to rain or humidity. Use specific boxes if required.
- Disconnect the devices from the mains using the system switch before cleaning or maintenance.
- Disconnect power from the circuit breaker in the event of failure and/or malfunctioning of the device. Do not tamper with the device.
- Exclusively contact a service centre authorised by the manufacturer for repairs in case of infiltration of liquids or objects inside the appliance.
- Do not use power extension wires.
- Exclusively use the spare parts supplied by the manufacturer for repairs.
- Installers must make sure that user's information is applied to the connected devices. Keep this manual
  with the device at all times
- Failure to respect of these precautions can affect safety of the device.

### **INSTALLATION PRECAUTIONS**

- This kit must be powered using the specific power unit included in the kit.
- Position the components on vertical, smooth supports respecting the instructions contained in this
  manual

#### **CLEANING THE PARTS**

Use a soft cloth to remove dust and dirt. Do not use aggressive detergent liquids (petrol, solvents etc.) which could cause corrosion. Do not use spray products to clean the device.

The information contained in this manual is subject to change without prior notice. For updates to the manual and further information on the system, go the following link:



#### 2 DESCRIPTION

The **1735** system can be used to create video door phone systems **for from one-family to four-family houses** with only **two non-polarised wires** and a power supply unit. Starting from the basic kit, consisting of a outdoor station, a video door phone and a power supply unit, the system can be expanded up to its maximum capacity without adding further power units.

The **intercom service** between stations in the same apartment is active on the system. **Audio door phones** and **video door phones** can be added.

The basic kit 1730/501 contains:						
Outdoor station with colour camera	1735/51					
7" soft touch hands-free video door phone	1735/1					
Specific power unit.	1735/100					

Maximum expandability of the system						
Outdoor stations	Up to 2					
Calling buttons for each outdoor station	Up to 4					
Total audio and video door phone apartment stations	Up to 8					
Surveillance cameras for each outdoor station	1					
Power units for the whole system	1					
Optional video distributor	1					

#### By using the integrable accessories, the 1735 system can manage the following services:

- → Video surveillance from all apartments
- → Intercom calls between the devices present in an apartment
- → Access control using a magnetic key reader incorporated in the outdoor station
- → Activation of a **door lock** and **driveway** from all apartment stations.
- → Call forwarding from the outdoor station to a smartphone

Urmet integrable accessories:					
Recommended outdoor camera	3300/410				
Hands-free door phone.	1735/2				
Two or four button kit for outdoor station with name tags	1735/102-104				
Access control module	1730/65				
Five-key kit for users	1730/105				
Video distributor for simplified wiring and creating three- and four- family systems	1735/54				
WiFi module for call forwarding to smartphones	1730/67				
Accessory for flush-mounted outdoor station installation	1730/60				

### DEVICE PERFORMANCE AND OVERVIEW



3

#### **OUTDOOR STATION**

Wall-mounted with **rain cover** and **colour camera** as standard. Possibility of expanding two and four calling buttons using additional accessories Ref.**1735/102** and **1735/104**.

Connection of a local door opening contact (hall button). Activation of a 12V lock and a volt-free contact for the driveway.



#### VIDEO SURVEILLANCE

Outdoor station set-up for connection of an Urmet camera type Ref. 3300/410 or other brand with CVBS analogue video signal.

Possibility of monitoring the external perimeter using all the cameras present either with or without active audio. The external camera is powered by the outdoor station to which it is connected.



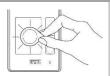
### **APARTMENT STATIONS**

7" colour video door phone Ref. 1735/1 and audio door phone Ref. 1735/2, both soft touch and hands-free. LED for identifying the call source.

Possibility of connecting up to 4 door units in parallel in the same apartment.

Intercom service between devices in the same apartment.

Set-up for connecting a floor call button.



#### ACCESS CONTROL

Set-up for inserting an access control module (Ref. 1730/65) for activating the lock inside the outdoor station.

**Programmable opening keys** with master keys supplied with the access control module.



#### CALL FORWARDING

With the WiFi interface Ref. 1730/67 inserted inside the video door phone, the service can be used to forward calls from the outdoor station to a smartphone and manage them using the **URMET VIEW** App.



#### **POWFR**

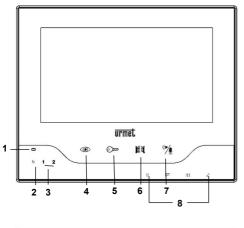
A **single power supply unit** for the entire system to support both the basic functions of the video door phone system and the available additional services.

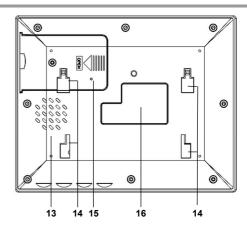


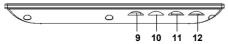
#### DISTRIBUTOR

Optional distributor to facilitate connection over long distances in extended installations (for details, see the relative table referring to a basic installation in this manual) and up to four families. It can be used either alongside a star or inout wiring or replace it.

### 4 VIDEO DOOR PHONE







### **ICONS AND FUNCTIONS**

1	Microphone	5	Open lock 🖭		
2	Ring tone mute LED 🤼	6	Activate additional contact ≝∜		
3	LEDs for outdoor station 1 or 2	7	Audio button 📆		
4	Turn camera on 🍩	8	Settings		
SETTINGS					

#### SETTINGS

9	Brightness - 🍟	11	Conversation volume
10	Colour	12	Call volume
REA	R VIEW		

#### REAR VIEW

13	Speaker	15	Slot for WiFi module
14	Bracket hooks	16	Terminal board / Dip-switch

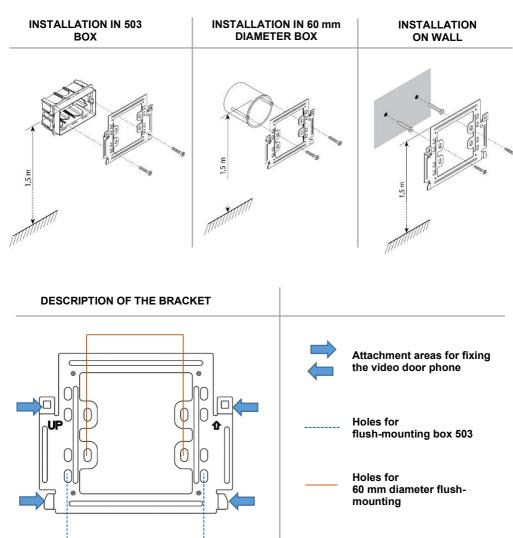
### TO MUTE THE RING TONE: Turn slider 12 all the way to the left.

FEATURES							
Video resolution	800 x 480 pixels	Button backlighting after activation	Automatic				
Display	7" TFT	Power voltage	26 Vdc				
Stand-by consumption	≤ 70 mA	Maximum consumption	≤ 300 mA				
Working temperature range	0° / +55° C	Dimensions and weight	195x155x16mm / 370 g				

### 4.1 VIDEO DOOR PHONE INSTALLATION

The video door phone includes a dedicated bracket for installation directly on the wall or in a flush-mounting box type **503** (recommended choice) or in a round **60 mm diameter** box.

Fix the bracket at a height of about 1.5 m from the ground with the appropriate anchor bolts. Use the available locations by placing the **UP** sign at the top:

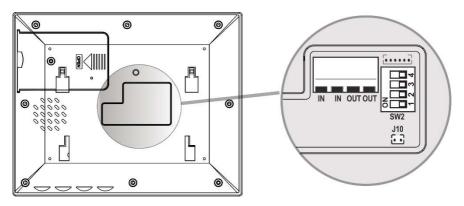


Note: When using a 503 box, fix the bracket through the last two holes at the bottom.

After fixing the bracket to the wall or to the flush-mounting box, place the video door phone on the areas of the bracket indicated by the arrows, then push the device downwards so that it hooks onto the bracket.

#### 4.2 CONNECTIONS

The video door phone connections and the configuration dip switches are located on the back of the video door phone (the **basic kit 1735/501** does not require any changes to the default configuration for installation).



#### **DESCRIPTION OF TERMINAL BOARD AND CONNECTOR J10**

#### **MEANING OF DIP SWITCHES**

1					
2	User number	3	End of line	4	Master / Slave

#### **DEFAULT DIP SWITCH POSITION**



1 and 2 -> User number = 1

3 → End of line = ON

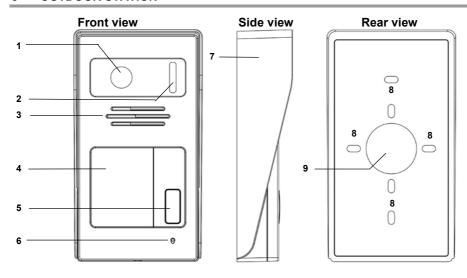
4 → Master

POWER OFF AND BACK ON AFTER EACH CHANGE TO THE DIP SWITCHES

If you want to expand the system to other apartment stations, see the instructions supplied with the relative device to be added (video door phone 1735/1 or door phone 1735/2).

The default dip switch position has been provided for typical uses of a basic kit.

### **5 OUTDOOR STATION**



### **FUNCTIONS**

1	Camera	4	Name tag	7	Rain hood

- 2 Courtesy LED 5 Call button 8 Wall fastening screw seat
- 3 Speaker 6 Microphone 9 Terminal board / Dip-switch

FEATURES							
Video resolution	700 TVL	Camera lens	1/4", 110°				
Power voltage	26 Vdc	Maximum consumption	≤ 270 mA				
Minimum light	0.05 LUX	Conversation time	120 seconds				
IP degree	54	Working temperature range	-10° / +55° C				
Dimensions	103x185x44mm	Weight	775 g				

FUNCTIONS AVAILABLE ON THE OUTDOOR STATION		
Opening of the electric lock on terminals SE+/SE-	12Vdc /Vac	
Normally-open volt-free contact on NO/NO terminals	1A @30Vdc	

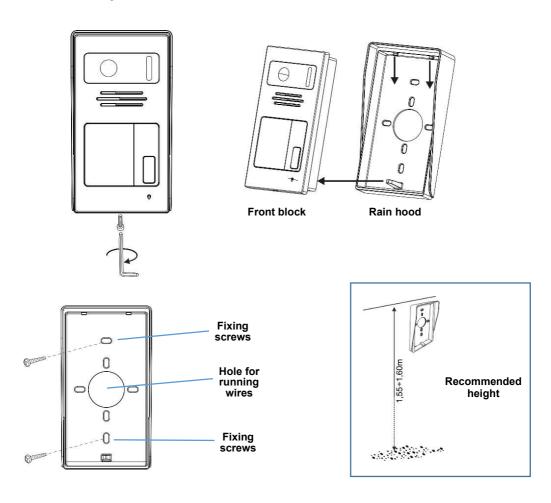
SUPPLEMENTARY SERVICE SET-UP	
Connection to external camera	Urmet Ref. 3300/410 or other CVBS camera *
Access control module connection	Ref. 1730/65

<sup>\*</sup> A mean current of 300mA, up to 500 mA peak and a voltage of 12 Vdc, are available on the outdoor station for powering a CCTV camera.

### **6 OUTDOOR STATION INSTALLATION**

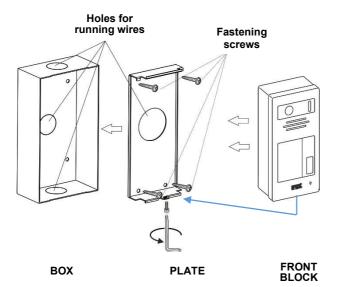
### 6.1 WALL-MOUNTED INSTALLATION

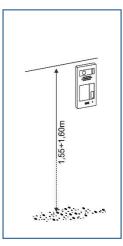
Undo the front block from the rain hood (see section 6.3 - Figures 1A, 1B and 1C) and fix it to the wall at the recommended height.



### 6.2 FLUSH-MOUNTED INSTALLATION

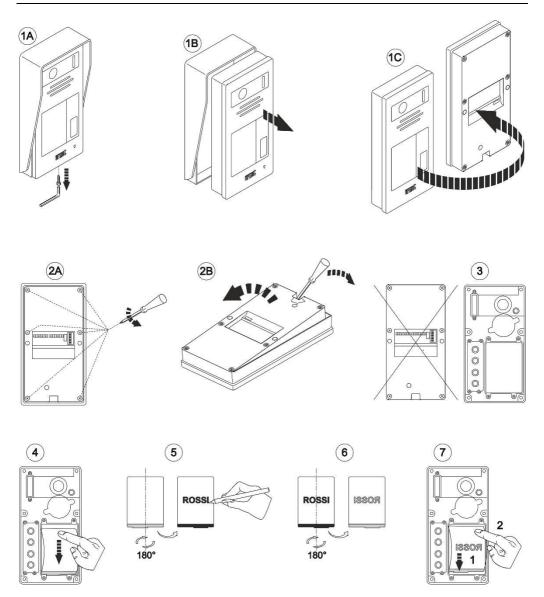
The accessory Ref. 1730/60, not included in the kit, is available for flush-mounted installation. It consists of a box to be recessed into the wall, on which there are several holes for running the wires a plate on which to screw the front block.





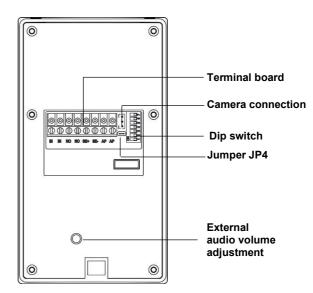
Recommended height

### 6.3 NAME TAG INSCRIPTION



### 7 CONNECTIONS

Connection and configurations are available on the rear side of the **front block**. To access the **connections** and **dip switches**, undo the screw holding the front block to the hood, as described above.



REAR SIDE OF THE FRONT BLOCK

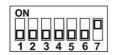
### **DESCRIPTION OF TERMINALS AND JUMPER JP4**

IN Innut	NO	Volt-free	SE+	Electric	AP	Pedestrian	JP4	Camera
IN Input	NO	contact	SE-	lock	AP	gate	JP4	activation

### **MEANING AND VALUE OF DIP SWITCHES**

	identifier 1. 2	300ms / 4 sec.	OFF / ON	PAL / NTSC	1. 2. 4	OFF / ON
1	Outdoor station	2 Lock control time	3 Key programming	Video standard	5 Total	7 Line closure

### **DEFAULT DIP SWITCH POSITION**



- 1 → Outdoor station identifier = 1
- 2 → Lock control time = 300 ms
- 3 → Key programming = **OFF** (see manual of the 1730/65 module)
- 4 → Video standard = PAL
- 5 and 6 → Total buttons = 1
- 7 → End of line = ON

POWER OFF AND BACK ON AFTER EACH CHANGE TO THE DIP SWITCHES AND JUMPERS

### **DEFAULT JUMPER JP4 POSITION: ON**

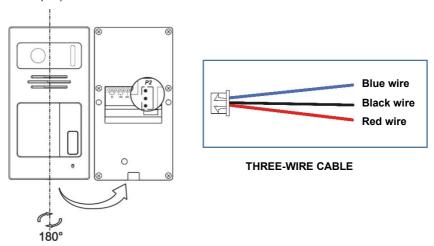
Jumper JP4 must be removed when adding an external camera. Otherwise keep it in the default position.

- See the instructions supplied with the individual devices to expand the system with another outdoor station (Ref. 1735/51) or with additional call buttons (2-4 button kit Ref. 1735/102-104) or for integrating the access control module (Ref. 1730/65).
- The default dip switch and jumper position has been provided for typical uses of a basic kit.

#### 8 INSTALLING THE EXTERNAL CAMERA

A camera can be integrated in the **1735** system to monitor the external environment. The camera can be picked from the Urmet CCTV catalogue with **CVBS** operating mode (**12Vdc** power, max. average consumption **300 mA**), for example a AHD DAY & NIGHT CAMERA 4MPX 2.8mm WITH IR LED, Ref. **3300/410**.

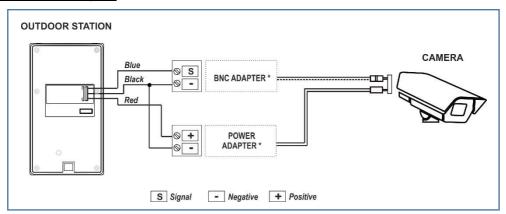
The outdoor station is supplied with a **3-wire cable** to be inserted in the **P2 connector** on the back (see the *Connections* chapter):



### **Outdoor station set-up**

- 1. Disconnect the power.
- 2. Remove the jumper JP4.
- 3. Insert the connector in the **P2** area and connect the 3 wires according to the diagram below.
- 4. Restore power.

### **Connection diagram**



Note: Make sure that the black cable is connected to the two negatives coming from the camera (video signal and power supply).

### \* Recommended accessories

To connect the wires coming from the outdoor station to those of the camera, we recommend the use of adapters of the type exemplified below. Use a 75  $\Omega$  coaxial cable for the video signal from the camera.

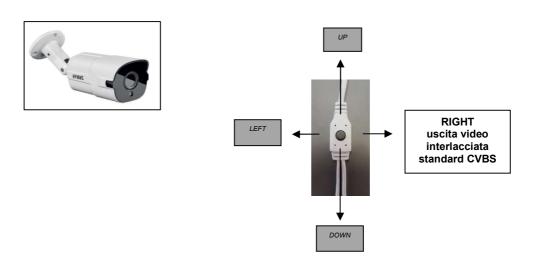




### Set-up for Urmet camera Ref. 3300/410 in CVBS

For operation with the 1735 system, CVBS video mode must be selected on the camera. To do this:

- Press the button on the video door phone several times (see the "Video surveillance" paragraph) until a blue screen (camera selected) appears on the video door phone.
- Keep the joystick located along the camera cable moved to the right, avoiding pressing it at the center.
- 3. When the image appears on the video door entry unit, release the joystick.



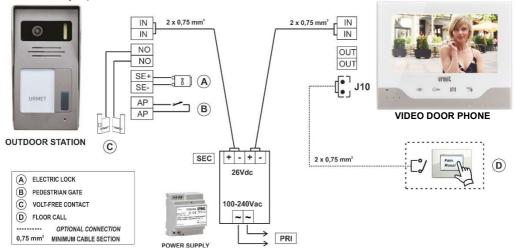
**Note**: If the operation described above is not successful, power the camera off and switch it back on again before repeating the operations.

Refer to the specific product manual for installation and configuration of a generic camera compatible with the specified features.

#### 9 1735 SYSTEM CONNECTION EXAMPLES

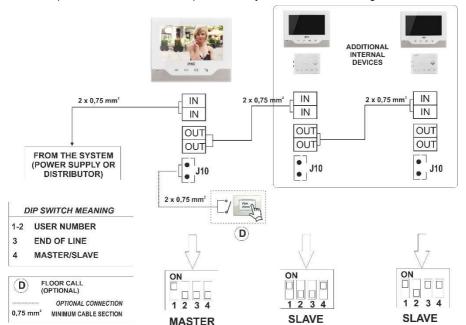
#### 9.1 BASIC KIT DIAGRAM

The 1735/501 kit is ready for installation using the following diagram. There is no need to modify the dip switches and jumpers on the devices.



### 9.2 CONNECTION OF 3 APARTMENT STATIONS IN PARALLEL

The following devices are needed for this installation: video door phones **1735/1** or door phones **1735/2**. The position of the dip switches of the video door phone already installed must be changed as shown below:



### 9.3 SUMMARY OF BASIC 1735/501 KIT FEATURES

See the next chapter for a detailed description of the individual functions.

	CALL FROM THE OUTDOOR STATION AND LIGHTING OF THE VIDEO DOOR PHONE DISPLAY	Press the call button on the outdoor station (see basic diagram for connecting the kit)
	OPENING THE PEDESTRIAN GATE	Press the indicated button with the video door phone display on
	ADDITIONAL SERVICE ACTIVATION (E.G. DRIVEWAY)	Press the indicated button with the video door phone display on
	VIDEO SURVEILLANCE FUNCTION	Switch on the display by pressing the indicated button
Fam. Rossi	FLOOR CALL	Via optional connection on connector J10 on the video door phone
AP AP	OPENING THE PEDESTRIAN GATE	By connecting the AP terminals to the outdoor station

### 9.4 SUMMARY OF DEFAULT SETTINGS

VIDEO DOOR PHONE DIP SWITCHES	ON	1 and 2 → User number = 1 3 → End of line = ON 4 → Master/Slave = Master
OUTDOOR STATION DIP SWITCHES	ON	1 → Identifier = 1 2 → Lock control time = 300 ms 3 → Key programming 4 → Video standard = PAL 5 and 6 → Total buttons = 1 7 → End of line = ON
JUMPER JP4	ON	External camera not connected

### 9.5 LED 1 AND 2 INDICATIONS ON BASIC SYSTEMS WITH KIT ONLY

On video door phone	
Receiving calls from the outdoor station	LED 1 slow flashing
When talking to the outdoor station	LED 1 on fixed
Receiving a floor call	LED 2 slow flashing
Press button  or audio/video activation	LED 1 on fixed
Press button 📜 after audio/video activation	LED 1 and 2 off

Note: See the instructions supplied with the individual product for additional video/audio door phones.

### 9.6 MAXIMUM DISTANCES BETWEEN DEVICES

with minimum cable cross-section area NOT less than 0.75 mm		
Between outdoor station and last video door phone	160 m	
Between outdoor station and power unit	60 m	
Between power unit and last video door phone	100 m	
Between outdoor station and additional external camera	30 m	

In systems designed to the limit of the permitted extension (in terms of distances and number of devices present), it is recommended to use cables with a cross-section area **greater than 0.75 mm²** to avoid, for example, interference on the display when running commands from the video door phone.

#### 9.7 DEFAULT SYSTEM DEL TIME

Call and talk time:	
Call answering waiting time from outdoor station	30 sec.
Conversation time with outdoor station	120 sec.

#### 10 ADDITION OF ACCESSORIES FOR SYSTEM EXPANSION

**Simplified dip-switch programming** is available to configure an extended system with additional accessories. Installation can be made easier with the optional use of a distributor Ref. **1735/54**, which can replace or supplement inlet-outlet or star wiring on device terminals.

A summary table of the dip switch configuration is available for each additional device.

The single-family system with basic kit does not require any configuration changes. It is already prepared for operation after the appropriate connection has been made.

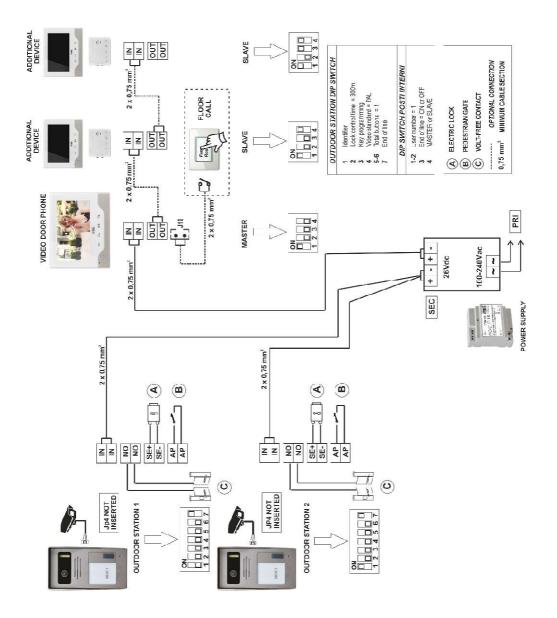
The system guarantees protection against short circuits in the shunt.

### 10.1 EXTENSION EXAMPLE: SINGLE-FAMILY SYSTEM WITH 2 OUTDOOR STATIONS

The following devices are needed for this installation: Outdoor Station Ref. 1735/51, Urmet camera Ref. 3300/410 or generic in CVBS mode (see details in the section dedicated to the outdoor station).

Video door phone Ref. 1735/1 or door phone 1735/2 for the second apartment station.

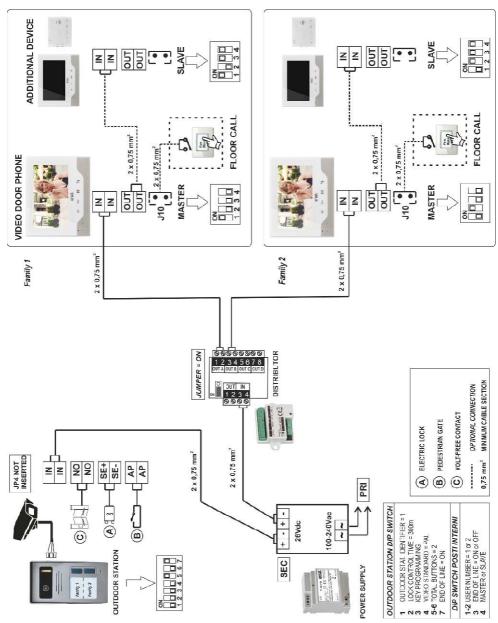
Remove jumper JP4 on the outdoor station to which the control camera is connected.



### 10.2 EXTENSION EXAMPLE. TWO-FAMILY SYSTEM WITH 2 USERS

The following devices are needed for this installation: 2-button kit with name tag for two **1735/102** users. Camera Urmet Ref. **3300/410** or generic camera in CVBS mode (see details in the section dedicated to the outdoor station). Video door phone Ref. **1735/1** or door phone **1735/2** for the second apartment station.

Remove jumper JP4 if the surveillance camera is connected.



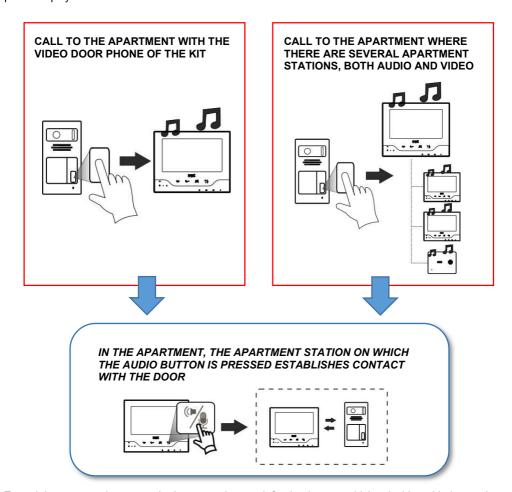
### 11 SYSTEM OPERATION

#### 11.1 EXTERNAL CALL

The kit video door phone emits the call tone and the display lights up when a call is received from door. In expanded systems with several apartment stations, all the devices present will emit the call tone and the display will light up on the video door phones.

After the call has been sent, LED 1 or 2 will start flashing, indicating the outdoor station from which the call has been forwarded. Up to **two outdoor stations** can be installed. In this case, the call from the first outdoor station will cause **LED 1**to flash, while the second will cause **LED 2** to flash.

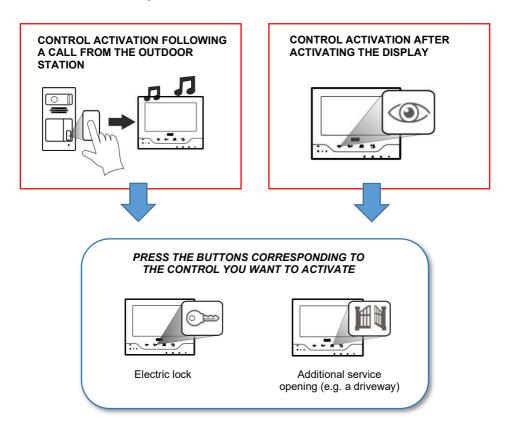
To start the conversation with the door, press the audio button. The LED that was flashing before will become fixed. On the other devices present, the LED will continue to flash to indicate busy status and the video door phone display will switch off.



To end the conversation, press the button again or wait for the timeout, which coincides with the maximum conversation time of **120 seconds**.

### 11.2 ACTIVATION OF CONTACTS ON THE OUTDOOR STATION

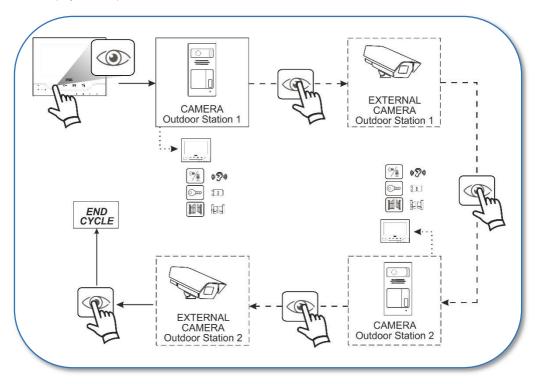
In stand-by mode, the controls (lock release) and (contact activation) are not active. With the display on, the two controls become operational.



The video door phone switches off after 2 minutes if no buttons are pressed.

#### 11.3 VIDEO SURVEILLANCE SYSTEMS

When not in use and without having received any call, the video door phones can display the external environment filmed by the outdoor station cameras and by any additional cameras. Use the camera power button to activate video surveillance. By pressing the button in succession, outdoor station 1, any external camera connected to it, outdoor station 2 (if present) and finally any external camera connected to it are displayed in sequence.



The continuous line indicates the sequence of operations that can be performed with the kit alone

The dotted line indicates the video surveillance cycle in a system extended to its maximum capacity (max. two outdoor stations, one control camera per outdoor station)

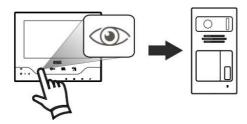
One last press of the dedicated button switches off the display of the video door phone.

When the system is standing by and a call is received from the outdoor station, the external camera connected to it can be displayed. Press the button on the video door phone to switch the display off. Press it again to display the camera of the outdoor station. Press a third time to display the external camera.

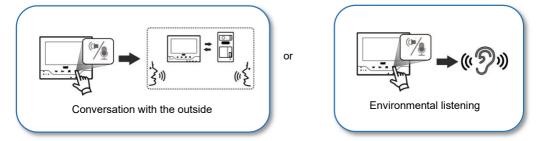
The call coming from the outdoor station always has a higher priority and can interrupt the vision of the other cameras.

#### 11.4 AUDIO LINE ACTIVATION

Press the **video surveillance button** on the video door phone to activate the audio line with the outdoor station.



After switching on the display, press the **audio button** on the video door phone to start a conversation or simply to activate environmental listening:

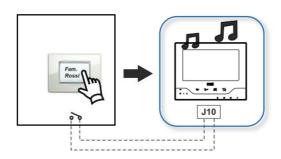


To close the audio line, press the same button again.

#### 11.5 FLOOR CALL

A button can be connected outside the apartment to ring the video door phone in the apartment.

The connection is made with the supplied cable on connector **J10** of the video door phone. Repeat the connection on connector **J10** for video door phones or on connector **J2** for audio door phones to obtain the call on the floor also on other apartment stations.

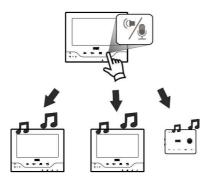


### 11.6 INTERCOM SERVICE BETWEEN APARTMENT STATIONS

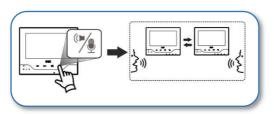
The system offers the possibility of establishing a conversation between the video or audio door phones in an apartment.

The service is only available if additional internal apartment stations are added.

With the system standing by, press the audio activation button, the other apartment stations present will ring at the same time:



Press the audio button on any of the ringing apartment stations to start the intercom conversation.



The call coming from the outdoor station always has a higher priority and can interrupt the intercom conversation in progress.

The tone of the intercom call is different from that of the call from the outdoor station.

## DIRECTIVE 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE).



The crossed-out wheelie bin symbol on the equipment or its packaging indicates that the product at the end of its useful life must be collected separately from other waste.

Therefore, any products that have reached the end of their useful life must be given to waste disposal centres specialising in separate collection of waste electrical and electronic equipment. As an alternative to autonomous disposal, the device you want to dispose of can be given back

to the retailer at the time of purchasing new similar equipment.

At electronic product retailers with a sales area of at least 400 m2, it is possible to return, without any obligation to buy, electronic products to dispose of with dimensions below 25 cm free of charge.

The separate collection for delivery the equipment to recycling, to treatment and environmentally compatible disposal helps avoid possible negative effects on the environment and health and promotes the reuse and/or recycling of materials that make up the equipment.

