



T5000EN

rev.0105

Video Kit  
digital installation

*Stadio Plus*

Instructions manual



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First of all we would like to thank and congratulate you for the purchase of this product manufactured by Golmar.

The commitment to reach the satisfaction of our customers is stated through the ISO-9001 certification and for the manufacturing of products like this one.

Its advanced technology and exacting quality control will do that customers and users enjoy with the legion of features this system offers. To obtain the maximum profit of these features and a properly wired installation, we kindly recommend you to expend a few minutes of your time to read this manual.

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## STARTING RECOMMENDATIONS

- Do not use excessive force when tightening the power supply connector screws.
- Install the equipment without the power connected. Disconnect from power before any system modification. Check that the input voltage is lower than 230V a.c.
- Before to connect the system, check the connections between door panel, monitors and telephones, and the transformer connection. Do always follow the enclosed information.
- Each time the power supply is restarted, or after a modification, the system will remain blocked during 45 seconds.
- Always use RG-59 or RG-11 coaxial cables. **Never use coaxial antenna cable.** In installations no longer than 100m., **Golmar RAP-5130** cable can be used.

- Microprocessed system with 3 common wires plus coaxial cable installation or 4 common wires plus twisted pair (only for kits /SC).
- Fully compatible with 'Stadio' audio systems of 4 common wires installation.
- Unlimited number of door panels being not necessary the use of switching units.
- Acoustic busy channel and call acknowledgement signals.
- d.c. lock releases activation.
- Timed door open activation.
- In Platea Plus monitors or T-940 Plus telephones:
  - wPrivacy on audio and video communications.
  - w'Video-Spy' function remaining the communication channel free.
  - wIntercommunication function with other monitor or telephone of the same apartment.
  - wInput for door bell apartment push button.
  - wDifferent call reception tones depending where the call is coming from: main or slave door panels, door bell push button, intercom, ...
  - wActivation of two auxiliary devices: secondary telecamera, courtesy light, ...
- wUp to 2 monitors and 1 telephone in the same apartment without additional power**

## SYSTEM OPERATION

- To make a call the visitor should press the push button corresponding to the apartment he wishes to contact. An acoustic tone will be heard confirming the call is in progress once the push button has been pressed. At this moment the call will be received at the monitor (telephone) in the dwelling. During the call the visitor can correct his call by pressing a push button corresponding to a different apartment, in which case the original call is cancelled.
- In systems with several access doors, the other(s) door panel(s) will be automatically disconnected: if a visitor tries to call from other door panel an acoustic tone will be heard confirming the system is busy.
- The call tone will be reproduced on the monitor during 3 seconds: after this time the picture will appear on the master monitor without the visitor being aware of this. To see the picture in a slave monitor press the ⊕ push button, disappearing the picture on the other monitor. If the call is not answered in 45 seconds, the system will be freed.
- To establish communication pick up the monitor (telephone) handset. The communication will last for one and a half minutes or until the handset is replaced. Once the communication has finished the system will be freed.
- To open the door, press the door release push button during call or communication progresses: with one press, the door release operates during 3 seconds. During the

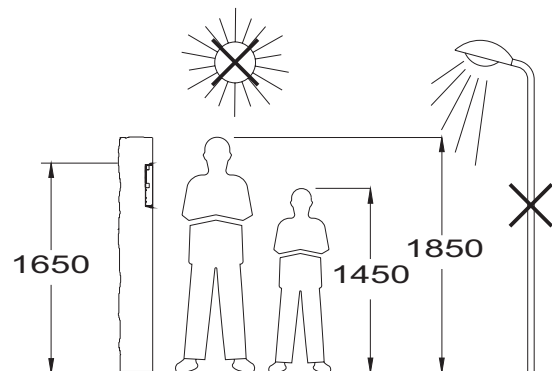
## IMPORTANT NOTICE

**One way systems are delivered fully programmed.**

**Wire the door panel push buttons as it is shown on page 18.**

**In case of two ways systems it will be only necessary to program the monitor which will be called through the left push button.**

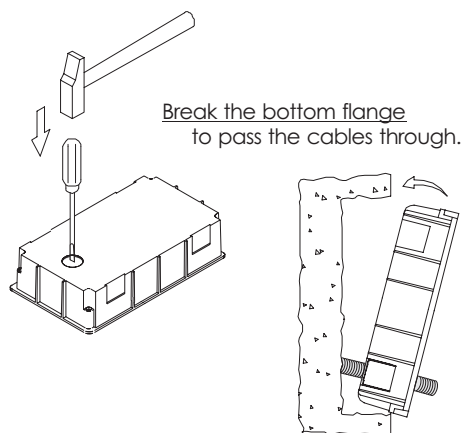
## Embedding box positioning.



The upper part of the door panel should be placed at 1,65m. height roughly.  
The hole dimensions are: 125(W) x 140(A) x 57(D) mm.

The door panel has been designed to be placed under most of the environmental conditions.  
However it's recommended to take additional cautions like rainproof covers. To obtain a good quality picture on video door entry systems, avoid direct incidence from light sources.

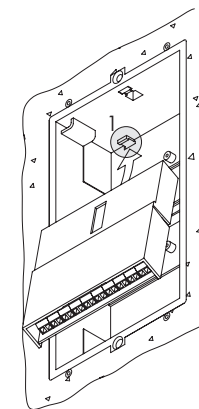
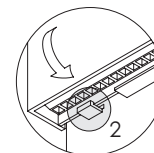
## Preparing the embedding box.



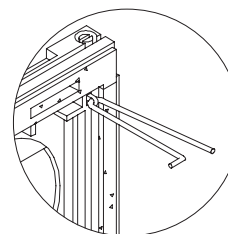
Pass the wiring through the hole made in the bottom part of the embedding box.  
Level and flush the embedding box.  
Once the embedding box is placed, remove the protective labels from the attaching door panel holes.

## Assembling the EL500 microprocessed circuit.

The EL500 circuit is to be assembled on the top of the embedding box. Insert the circuit in the top flanges of the embedding box (1). Push-in the circuit in the bottom flanges (2) by pressing the pcb board.



## Hold the door panel on the embedding box.

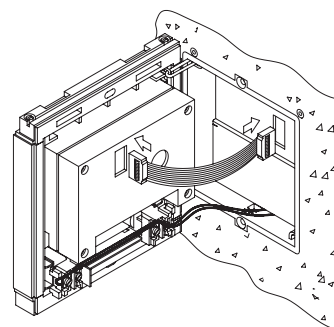
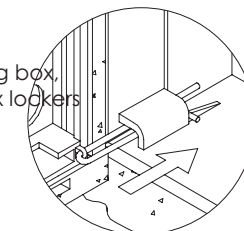


Select a direction to open the door panel; this selection should ease the door panel wiring.

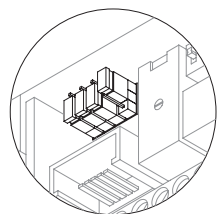
The opening direction will be settled through the hinges position, that must be passed through the header clips as shown.

For example, if the hinges are placed on both clips of the lower header, the door panel will open downwards; if they are placed on the right clips of both headers, the door panel will open to left.

To hold the door panel on the embedding box, insert the hinges in the embedding box lookers as shown.



Link the sound module with the EL500 microprocessed circuit by using the supplied flat cable.



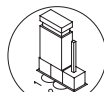
## Description of the configuration jumpers.

The JP1, JP2, JP3 and JP4 configuration jumpers (from left to right respectively) are placed on the left side of the EL500 circuit, and are accessible by opening the terminal connector protection cover.

Jumper JP1 loads the installation with a communications resistor. For a proper system operation, activate this resistor only in the closest door panel to the backbone installation or in the general entrance door panel (if exists).  
Factory default: enabled.

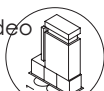


Enabled.



Disabled.

Jumper JP2 selects the type of cable to be used for the video signal: coaxial cable (RG-59 or RG-11) or twisted pair. Twisted pair video transmission requires the use of an EL560 module plugged in the CN4 connector.  
Factory default: depending on the kit model.



Coaxial.



Twisted pair.

Jumper JP3 selects the volume of the door panel acknowledgment signals (call in progress, system busy and door opened). If after starting the system it's considered that the volume is too high, modify the jumper position.  
Factory default: maximum.

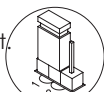


Maximum.



Minimum.

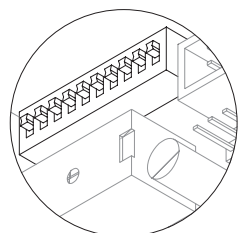
Jumper JP4 selects if the door panel has telecamera or not. In case of door panels without telecamera (EL540 sound module), change the jumper position.  
Factory default: with camera.



With camera

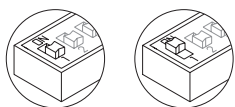


Without camera.



## Description of the configuration dip switch.

The SW1 configuration dip switch is accessible by opening the terminal connector protection cover.

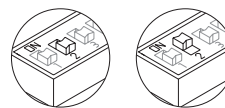


Switch number 1 allows to activate the autoswitch-on function (audio and video communication without previous call) at the door panel that has this switch to ON position. In systems with several door panels activate this function only in one of them; in systems with general entrance panel this function can be activated in one door panel of each internal chalet.

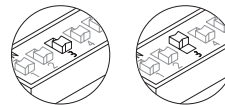
Continue

## Coming from previous page

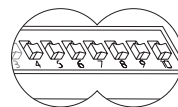
## Description of the configuration dip switch.



Set to ON the switch number 2 for monitor or telephones programming. Once the programming progress is finished return the switch to OFF position. The programming process is described on pages 14 (monitors) and 17 (telephones).



Set to OFF the switch number 3 in case of a master door panel. Each system must have only one master door panel; the rest must be slaves (ON). In systems with general entrance panel set as master one door panel of each internal chalet.



Switches number 4 to 10 set the building code. In systems with several door panels, set the same code in all the panels; in systems with general entrance panel, set different codes for each internal chalet. Valid codes are from 0 (factory default) to 99. To set the code use binary coding as shown on the next paragraph.

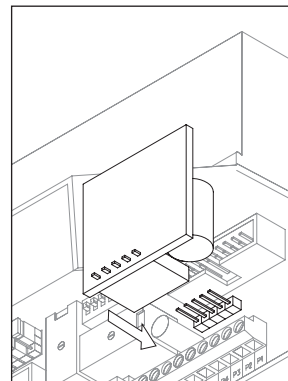
## Binary coding of the configuration dip switch.

The switches set to OFF have null value. The values of the switches set to ON are shown in the enclosed chart. The building code will be calculated as the sum result of the switches values set to ON.

Switch number	4	5	6	7	8	9	10
ON value:	64	32	16	8	4	2	1



Example:  $64+0+16+0+4+2+1=87$



## EL560 module for video installations with twisted pair

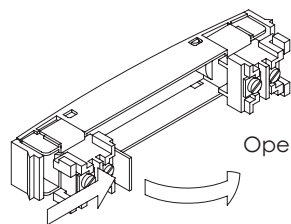
Kits /SC comes with the EL560 module plugged in the CN4 connector.

NOTE: on this type of installations the EL561 module must be plugged in all the monitors. Refer to the specific installation diagram.

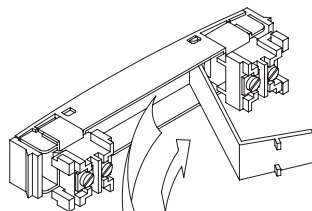
## DOOR PANEL INSTALLATION

7

**P**lace the nameplate labels.



Open the label holder.



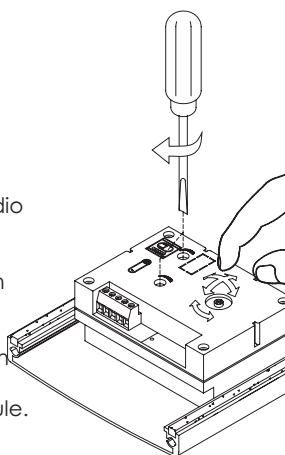
Place the label and close.

**F**inal adjustments.

If after starting the system it's considered that the audio volume isn't correct, proceed with the necessary adjustments as shown.

The telecamera has a pan and tilt mechanism built in to adjust the telecamera position.

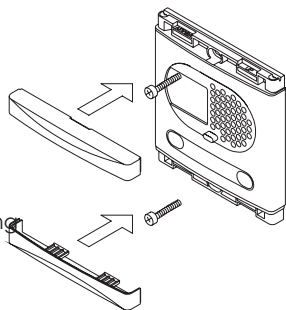
In case of low light conditions, an external illumination can be activated by connecting a R-3 relay between terminals '+H' and 'L2' of the sound module.



**C**lose the door panel.

Fix the door panel by using the supplied screws.

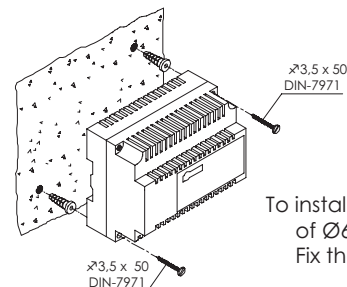
Finish the door panel assembly by pressing the closing heads.



8

## POWER SUPPLY INSTALLATION

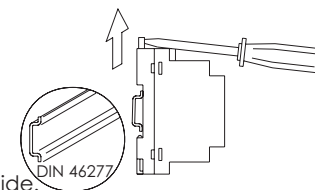
**I**nstalling the FA-805 power supply.



The power supply must be installed in a dry and protected place. It's recommended to protect the power supply by using a thermo-magnetic circuit breaker and to use a ground connection.

To install the power supply directly on the wall, drill two holes of Ø6mm. and insert the wallplugs. Fix the transformer with the specified screws.

The power supply can be installed on a DIN 46277 guide simply pressing it. To disassemble the power supply from the DIN guide, use a plain screwdriver to lever the flange as shown on the picture. The FA-805 power supply uses 7 units over DIN guide.

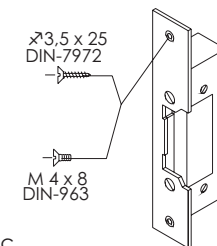


**Remember to protect the input terminals with the supplied cover.**

## LOCK RELEASE INSTALLATION

**L**ock release installation.

If the lock release will be installed in a metal door, use a Ø3,5mm. drill and tap the hole. In case of wood door, use a Ø3mm. drill.

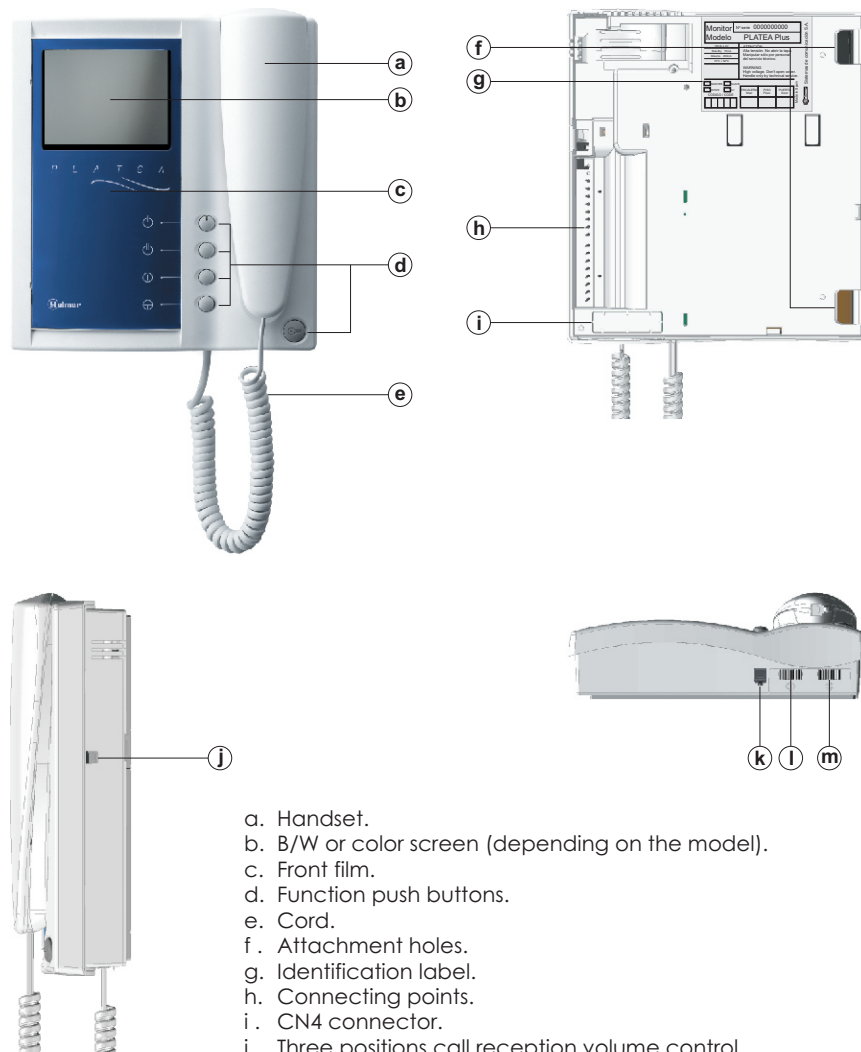


**IMPORTANT:** the lock release to be used must be of 12Vd.c.

If you are using a.c. lock releases, use one R-3 relay unit as it is shown on page 26.








## Description of the Platea Plus monitor.



- a. Handset.
- b. B/W or color screen (depending on the model).
- c. Front film.
- d. Function push buttons.
- e. Cord.
- f. Attachment holes.
- g. Identification label.
- h. Connecting points.
- i. CN4 connector.
- j. Three positions call reception volume control.
- k. Cable slot.
- l. Contrast control (color control in case of color screen).
- m. Brightness control.

Function push buttons.

-  On-Off push button. After any monitor reset and during the next 45 seconds, all the monitor functions will be disabled, with the exception of call reception.
-  If the handset is on the cradle allows the activation of an optional second camera (\*). If not, allows to make an intercom call or to activate the second camera (\*).
-  If the handset is on the cradle allows the activation of an optional device. If not, allows to call to a slave porter's exchange (\*) or to activate the optional device.
-  If the handset is on the cradle allows to see the picture from the master door panel. If not, allows to establish audio and video communication with the door panel that has been configured with the autoswitch-on function. This function is disabled if a communication is already established.
-  If the handset is on the cradle sends a panic call to the porter's exchanges that have enabled the reception of this type of call. If not, allows to call to the master porter's exchange. During call reception and communication progresses allows the lock release activation.

(\*) Second camera activation and call to a slave porter's exchange functions require an internal modification of the monitor. If any of these functions are required, contact with your nearest authorized distributor.  
Second camera activation disables the intercomm function and call function to a slave porter's exchange disables optional device function.

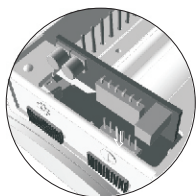
Description of the identification label.

<h1 style="margin: 0;">Monitor Modelo</h1>	N° serie    00000000000			
18Vdc ± 2V / Standby 15mA Máximo 450mA 10°C ± 50°C	<h2 style="margin: 0;">PLATEA Plus</h2>			
	<p><b>ATENCIÓN</b>          Alta tensión. No abrir la tapa.          Manipular sólo por personal          del servicio técnico.</p>			
	<p><b>WARNING</b>          High voltage. Don't open cover.          Handle only by technical service.</p>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> MASTER    <input type="checkbox"/> SLAVE  <input type="checkbox"/> INTER    <input type="checkbox"/> A1         </div> <div style="width: 50%; text-align: center;"> <p><b>CODIGO / CODE</b></p> <div style="display: flex; justify-content: space-around; height: 40px;"> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> </div> </div> </div>				
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center; border-bottom: 1px solid black;"> <b>ESCALERA</b> Stair         </td> <td style="width: 33%; text-align: center; border-bottom: 1px solid black;"> <b>PISO</b> Floor         </td> <td style="width: 33%; text-align: center; border-bottom: 1px solid black;"> <b>PUERTA</b> Door         </td> </tr> </table>		<b>ESCALERA</b> Stair	<b>PISO</b> Floor	<b>PUERTA</b> Door
<b>ESCALERA</b> Stair	<b>PISO</b> Floor	<b>PUERTA</b> Door		

For an easiest repair, replacement or increasement of the existing monitors, fill the indentifying label information.

MASTER: master monitor.  
SLAVE: slave monitor.  
INTER: slave monitor with intercom function.  
A1: monitor connected to an auxiliary device.  
CODE: push button code (see page 18).  
STAIR: chalet code (see page 6).

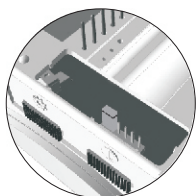
## EL561 module for video installations with twisted pair



The monitors included in kits /SC come with the EL561 module plugged in the CN4 connector, that's placed in the monitor base.

NOTE: on this type of installations the EL560 module must be plugged in the EL500 microprocessed circuit (page 6). Refer to the specific installation diagram.

## Handling the end of line jumper.

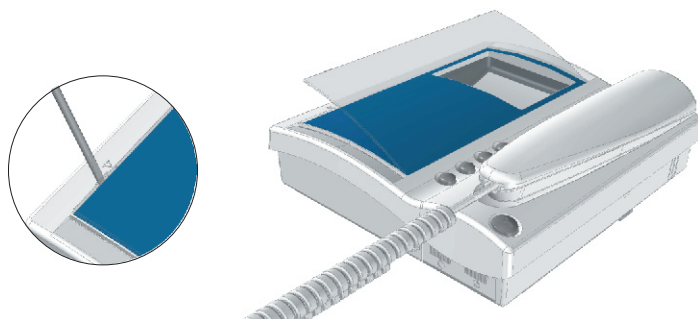


The end of line jumper is placed on the CN4 connector, that can be located on the monitor base.  
In case of twisted pair cable installations, the end of line jumper is placed in the EL561 module, also located in the CN4 connector of the monitor base.

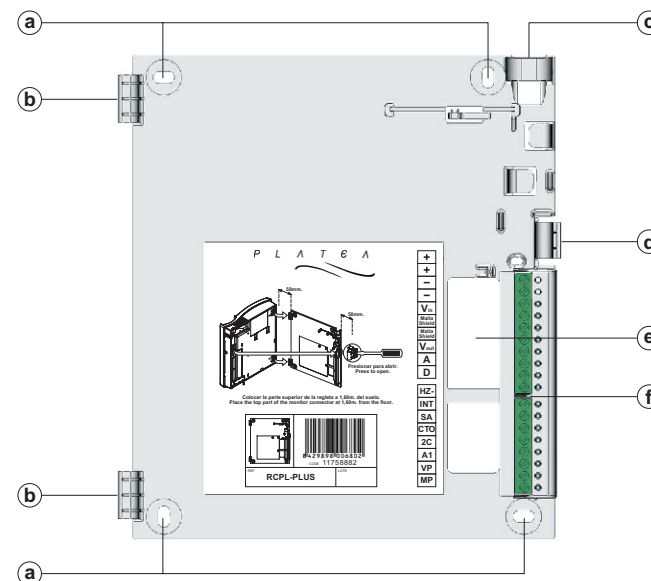
Do not remove the jumper on monitors where the video cable finish.  
Remove the jumper on monitors where the video cable continue.

## Changing the front film.

The monitor is supplied with a reversible front film, that allow the owner to choose between two colors.  
To change the front film, remove the front plate by inserting a plain screwdriver in the triangle marks, as it is shown on the drawing.



## Description of the RCPL-Plus monitor connector.



- a. Wall attachment hole (x4).
- b. Monitor attachment hook (x2).
- c. Vertical wiring input.
- d. Attachment clip.
- e. Wiring input hole.
- f. Installation terminals:
 

+, -:	positive, ground.
Vin :	video signal coaxial input.
Malla:	coaxial shield.
Vout :	video signal coaxial output.
A :	audio communication.
D :	digital communication.
HZ- :	door bell push button input.
INT :	intercom.
SA :	auxiliary calling device output.
CTO :	video distributor activation output.
2C :	2nd camera activation output.
A1 :	optional device activation output.
Vp, Mp :	twisted pair video signal.

Terminals +, - and Malla (shield) are duplicated for easiest cascade installation of parallel monitors or telephones. If the first monitor is not placed on the connector, cascade units will not be powered.

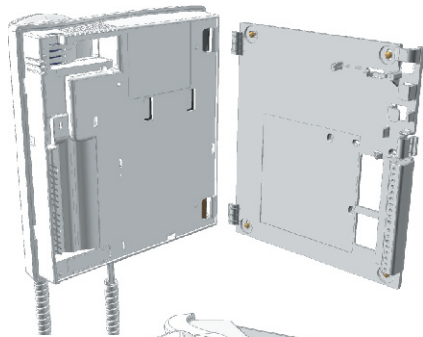
**F**ix the monitor connector to the wall.

Avoid to place the monitor near to heating sources, in dusty locations or smoky environments. To install the monitor directly over the wall, drill two holes of Ø6mm. and use the supplied screws.

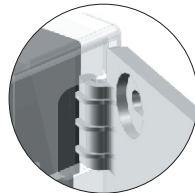
**The upper part of the monitor connector must be placed at 1,60m. height roughly. The minimum distance between the monitor connector and the closest object must be 5cm.**



**F**ix the monitor.



Place the monitor at right angles to the connector and align the attaching holes of the monitor with the attachment hooks of the connector, as it is shown on the drawing.



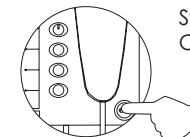
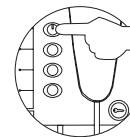
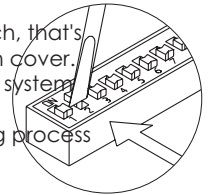
Lock out the monitor. Press the right side till the attachment clip locks the monitor firmly.

To disassemble the monitor from the connector, use a plain screwdriver to release the attachment clip. Remove the monitor from the connector, with special attention do not falls.

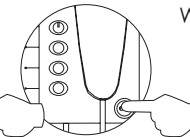


**P**rogramming the monitors.

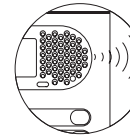
Set to ON the switch number 2 of the configuration dip switch, that's accessible by opening the terminal connector protection cover. The door panel will reproduce a sound to advise that the system has entered into programming mode. In systems with more than one door panel, the programming process shall be done on the master door panel only.



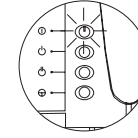
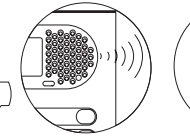
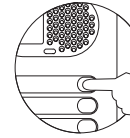
Switch off the monitor to be programmed. Once the monitor is off, press the door release push button.



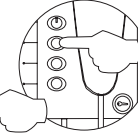
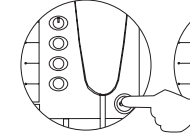
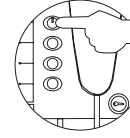
With the door release push button pressed switch on the monitor.




To show that the system is ready for programming, the door panel will reproduce a sound and the picture will appears on the monitor. At this moment, the door release push button can be released. Lift the handset to establish audio communication with the door panel.

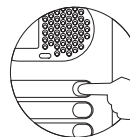


Press the door panel push button that will call to this monitor. At this moment the door panel will reproduce a sound and the monitor led will blink.



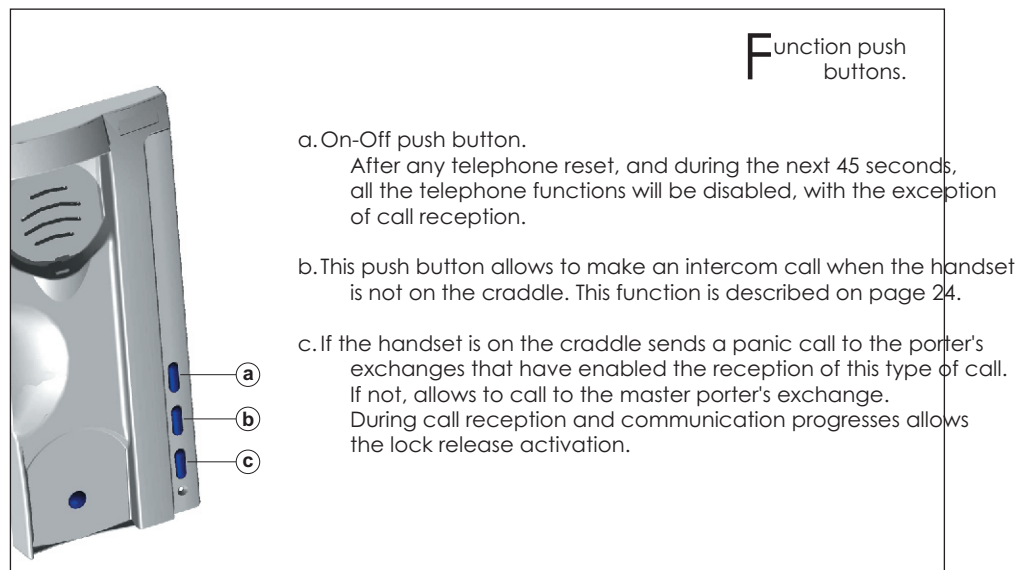
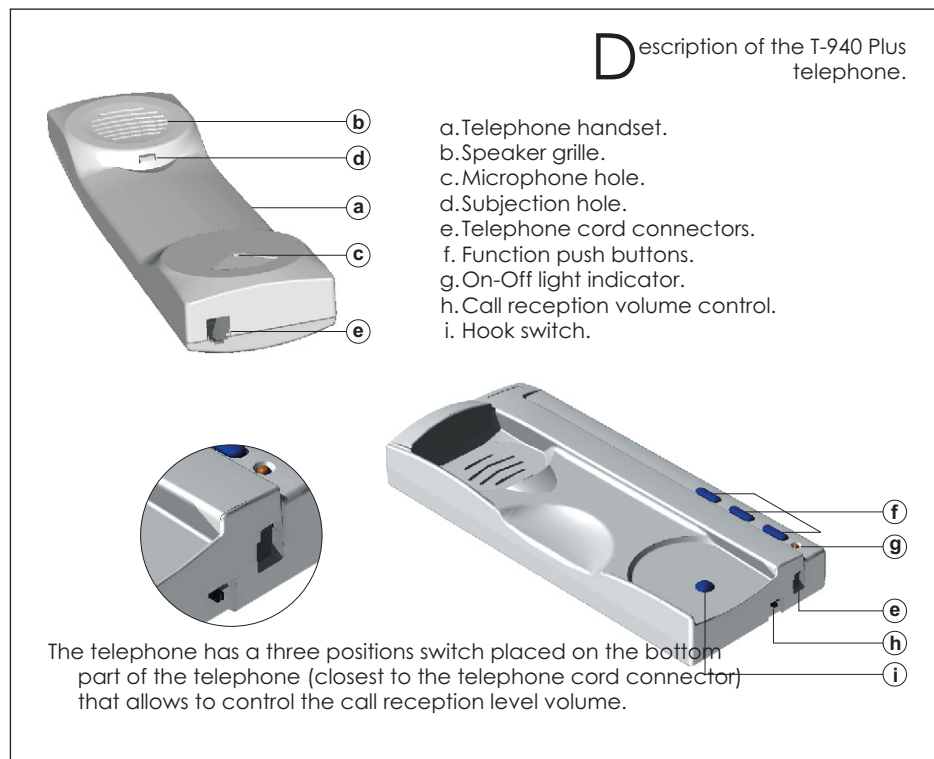
To program the monitor as master, switch it off and on again. To program it as slave, press the door release push button. To program it as slave with intercom function press the  push button.

Each apartment must have one master unit only; in case of parallel units configure them as slaves, both monitors or telephones.



Make a call to check that the monitor has been succesfully programmed. Repeat these steps to program the rest of monitors. Once the programming has been finished, set to OFF the programming switch. If you don't, the door panel will reproduce a sound to advise that the system is still into programming mode.





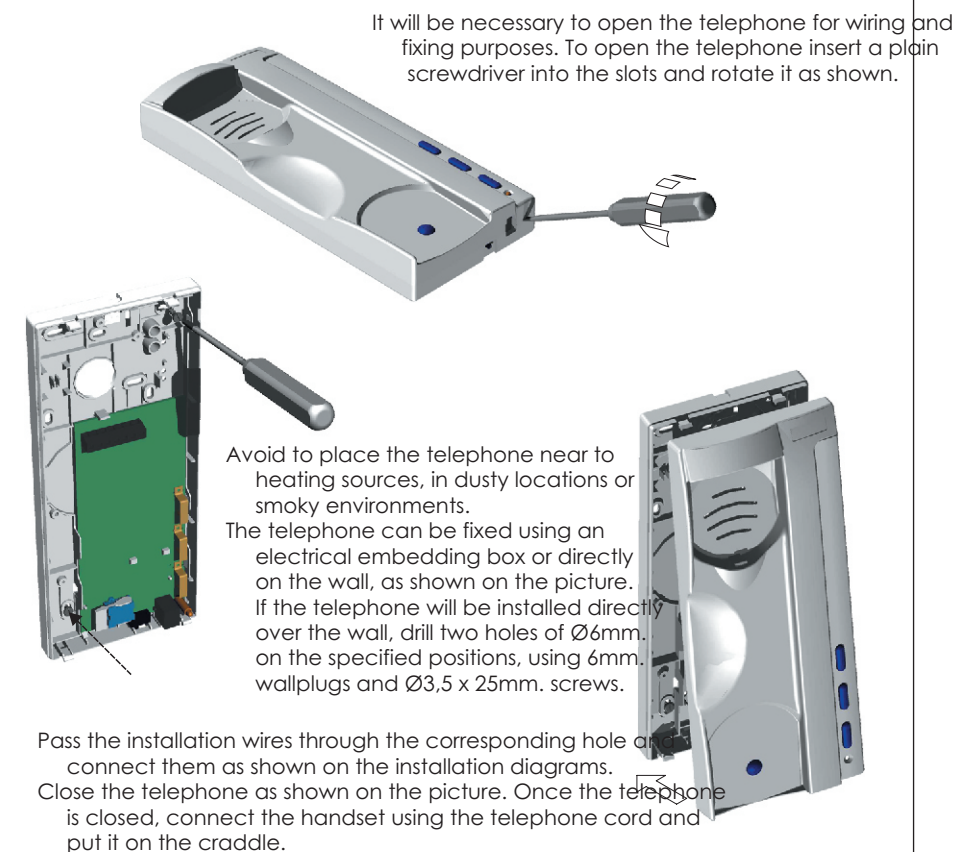
**T**erminal connector description.

+ - A D INT SA HZ-

+ , - : positive, ground.  
A , D : audio, digital communication.  
INT : intercom.  
SA : auxiliary calling device output.  
HZ- : door bell push button input.

## TELEPHONE INSTALLATION

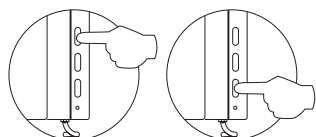
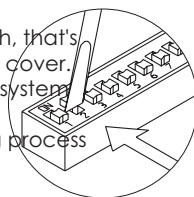
**F**ix the telephone.



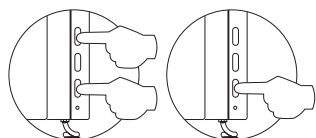
## Programming the telephones.

Set to ON the switch number 2 of the configuration dip switch, that's accessible by opening the terminal connector protection cover. The door panel will reproduce a sound to advise that the system has entered into programming mode.

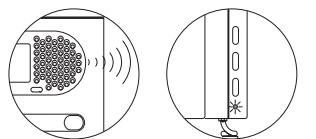
In systems with more than one door panel, the programming process shall be done on the master door panel only.



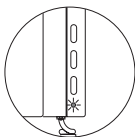
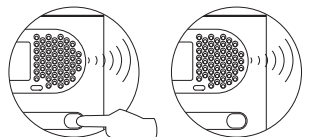
Switch off the telephone to be programmed. Once the telephone is off, press the door release push button.



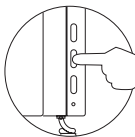
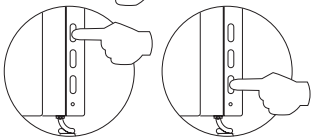
With the door release push button pressed switch on the telephone.



To show that the system is ready for programming, the door panel will reproduce a sound and the telephone led will blink. At this moment, the door release push button can be released. Lift the handset to establish audio communication with the door panel.

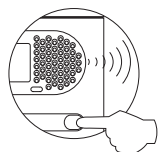


Press the door panel push button that will call to this telephone. At this moment the door panel will reproduce a sound and the telephone led will blink.



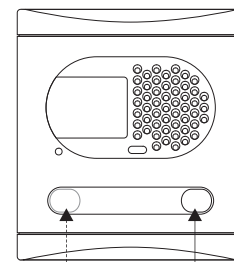
To program the telephone as master, switch it off and on again.  
To program it as slave, press the door release push button.  
To program it as slave with intercom function press the center push button.

Each apartment must have one master unit only; in case of parallel units configure them as slaves, both monitors or telephones.



Make a call to check that the telephone has been successfully programmed. Repeat these steps to program the rest of telephones. Once the programming has been finished, set to OFF the programming switch. If you don't, the door panel will reproduce a sound to advise that the system is still into programming mode.

## Push buttons wiring.



CN2  
B C P P8 P7 P6 P5 P4 P3 P2 P1

Connect the push buttons in the CN2 connector terminal of the EL500 circuit as shown. Connect the CP terminal to the push buttons common terminal. To avoid short-circuits, use wires of 0,25mm<sup>2</sup> section to wire the push buttons.

### IMPORTANT NOTICE.

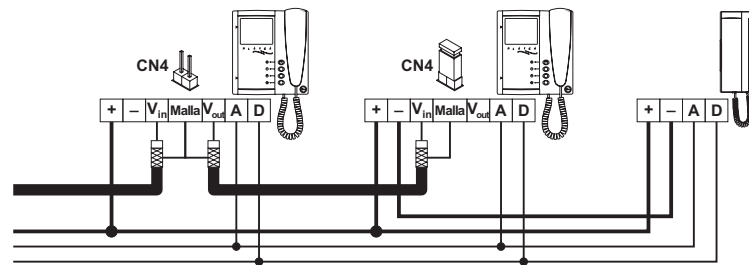
Right push button must be connected to P8 terminal.

- ➔ To the 2nd push button (code 1) (only two ways kits).
- ➔ To the 1st push button (code 106).
- ➔ To the push buttons common terminal.

## Sections charts.

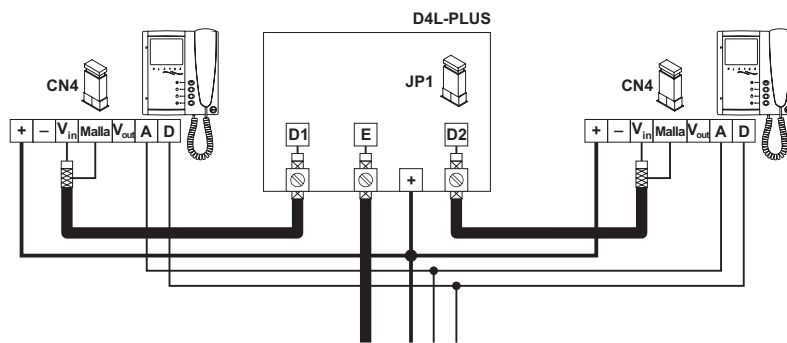
WITH COAXIAL CABLE	Distance	
	50m.	150m.
+, -, CV+, CV-	1,00mm <sup>2</sup>	2,50mm <sup>2</sup>
A <sub>in</sub> , A <sub>out</sub> , A, D	0,25mm <sup>2</sup>	0,25mm <sup>2</sup>
V <sub>in</sub> , V <sub>out</sub> , V <sub>in</sub> , V <sub>out</sub>	RG-59	RG-59

WITH TWISTED PAIR	Distance	
	50m.	150m.
+, -, CTO, CT, CV+, CV-	1,00mm <sup>2</sup>	2,50mm <sup>2</sup>
A <sub>in</sub> , A <sub>out</sub> , A, D	0,25mm <sup>2</sup>	0,25mm <sup>2</sup>
V <sub>in</sub> , V <sub>out</sub> , V <sub>p,d</sub> , M <sub>p,d</sub>	CAT-5	CAT-5



### Cascade installation example.

Remove the jumper from the CN4 connector in all the monitors (see page 11), except on the one where the video cable finishes (don't use the video output).



### Distributed installation example.

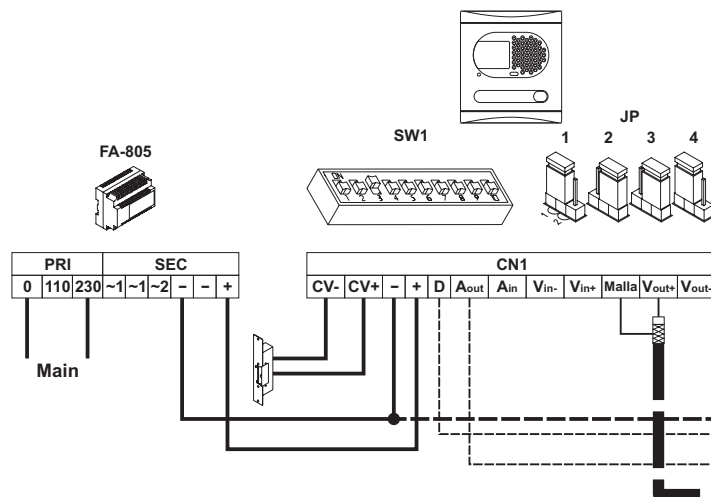
Remove JP1 jumper on all the video distributors and monitors (see page 11), except on the ones where the video cable finishes (don't use the video output).

### IMPORTANT.

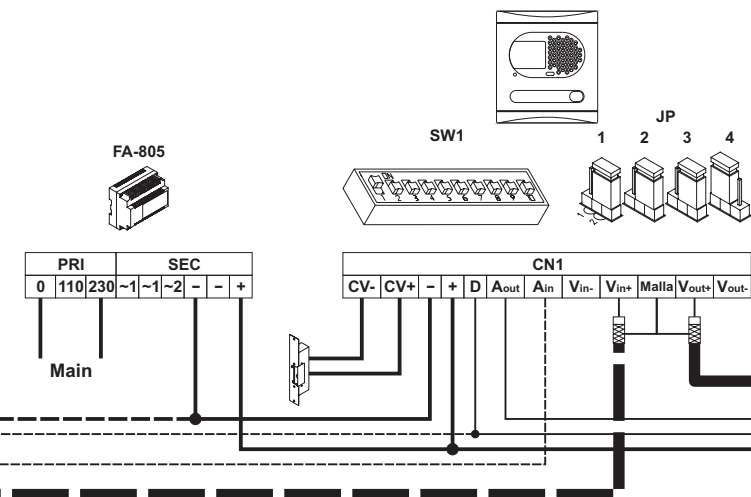
If the system has one door panel only, override the wiring to the second door panel.

If the system has more than one door panel, wire the rest of panels as shown on the diagram.

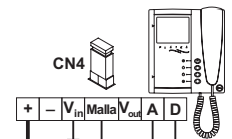
Slave video door panel

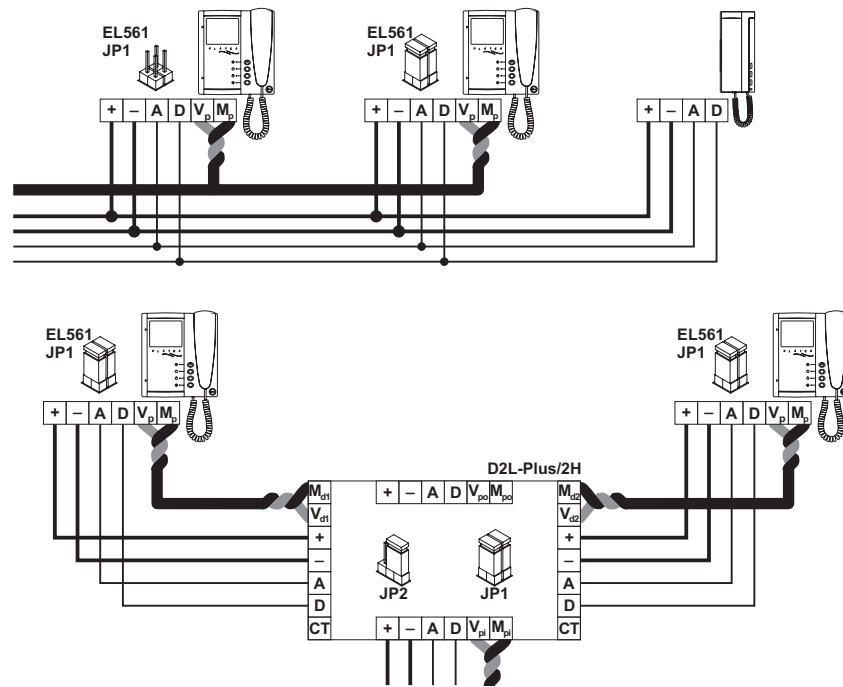


Master video door panel



One or several accesses with coaxial cable.





### Cascade installation example.

Remove JP1 jumper from all of the EL561 monitor modules (see page 11), except on the one where the twisted pair cable finishes (don't use the video output).

### Distributed installation example.

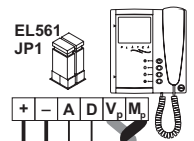
Remove JP1 jumper from all of the video distributors and EL561 monitor modules (see page 11), except on the ones where the twisted pair cable finishes (don't use the video output). Don't modify the JP2 jumper of the video distributors.

### IMPORTANT.

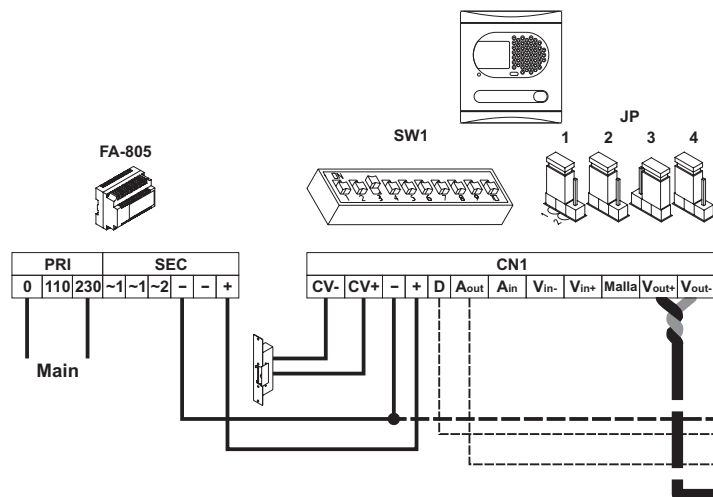
If the system has one door panel only, override the wiring to the second door panel.

If the system has more than one door panel, wire the rest of panels as shown on the diagram.

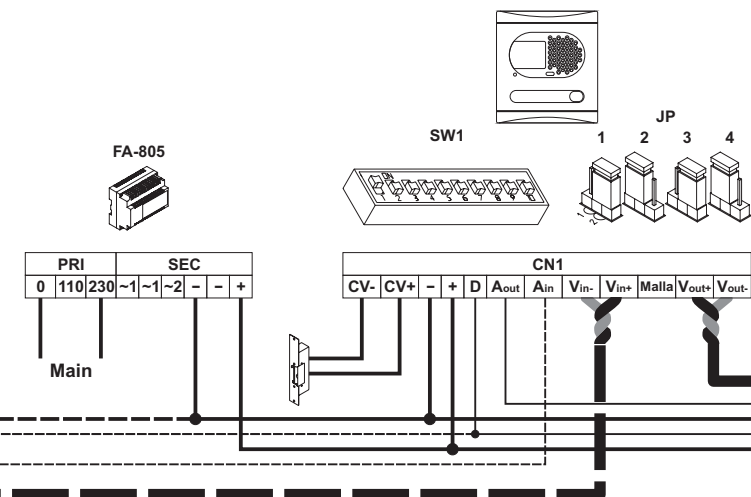
One or several accesses with twisted pair.



Slave video door panel

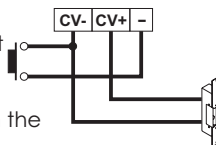


Master video door panel



## External lock release activation.

The lock release can be activated at any moment by using an external push button, that must be connected between 'CV-' y 'CV+' terminals of the EL500 circuit. This function will allow to exit from the chalet being not necessary the use of a key.

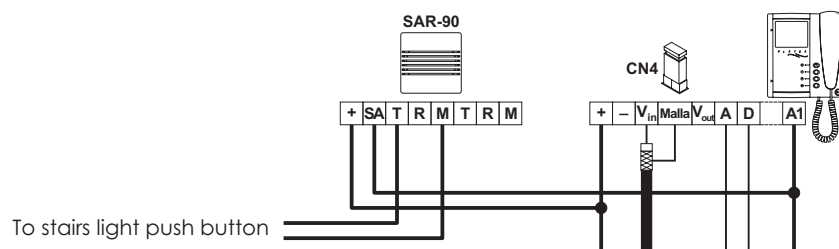


## Auxiliary devices activation.

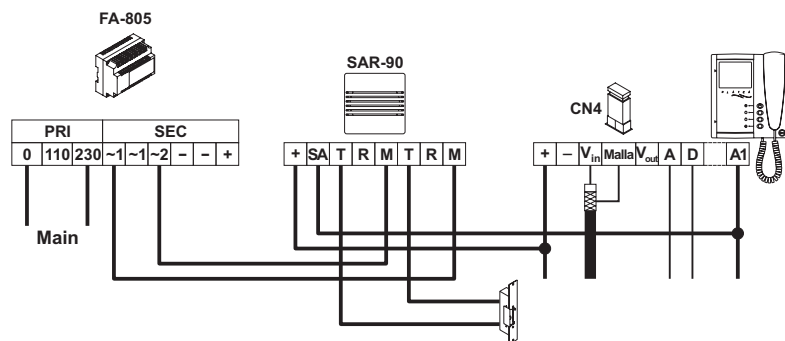
To activate auxiliary devices the use of a SAR-90 relay unit will be required. If this device is shared for all the monitors, link their A1 terminal and use just one relay unit. In case that each monitor has its own application use a SAR-90 relay unit for each monitor and don't link the A1 monitor terminals.

To activate this function, press the monitor push button at any moment with no dependence of the handset position.

Usual applications are the activation of stairs light, second lock release, ...



Use ~1 and ~2 power supply outputs to activate a second lock release. IMPORTANT: this second lock release must be 12Va.c. type.



## Intercom function.

Platea Plus monitor and T-940 Plus telephone have intercom facility between two units of the same apartment. To enable this function check the following conditions:

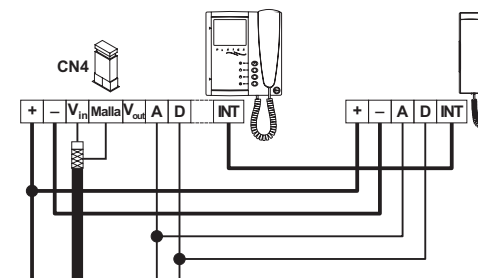
- One of the units has been configured as master and the other unit as slave with intercom, as described on pages 14 and 17.

In case to intercom one monitor with one telephone, configure the monitor as master..

- Link the INT terminal of the units, as it is shown on the enclosed diagram.

To establish an intercom communication lift the handset and press the intercom push button; acoustic tones will be reproduced on the handset confirming the call is in progress or that the other unit is communicating with the door panel. To establish communication lift the handset of the called unit. If during an intercom communication a call is made from the door panel, acoustic tones will be heard on the master unit handset and the picture will appear in case of a monitor; press the intercom push button of the master unit to establish communication with the door panel, or press the door release push button to activate the lock release.

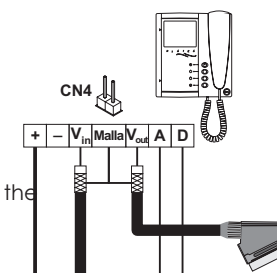
The reproduced acoustic tones are different depending on their provenance, that allows the user to distinguish where the call is made from.



## Connecting the Shiner Plus monitor to a video recorder

If your TV or video recorder have a SCART connector, it will be possible to view the picture from the door panel on the TV screen.

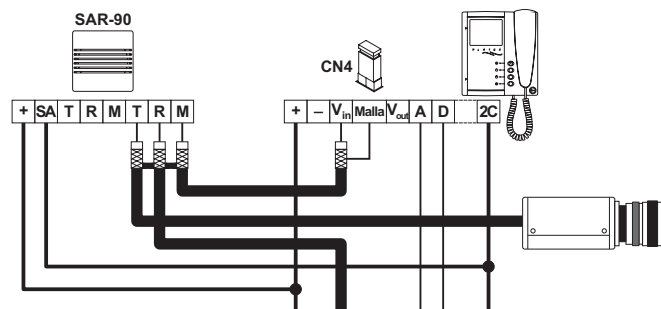
Remove the end of line jumper, that's placed on the CN4 connector. Connect the coaxial cable between terminals 17 (shield) and 20 (hot) of the SCART connector.





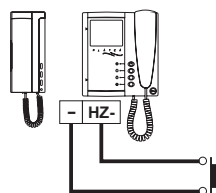
## Activation of a second camera.

The use of a SAR-90 relay will be required to activate a second camera and an internal modification on the monitor shall be done, as it's described on page 10. This facility disables the intercom function. If both functions are required, use A1 terminal to activate the second camera. To activate this function, press  $\phi$  monitor push button at any moment with no dependence of the handset position. If this device is shared for all the monitors, link their 2C terminal and use just one relay unit. In case that each monitor has its own camera use a SAR-90 relay unit for each monitor and don't link the 2C monitor terminals. This push button can be used to activate other auxiliary devices, as the A1 terminal is used. Usual applications are the surveillance of the elevator entrance, reception hall, ...



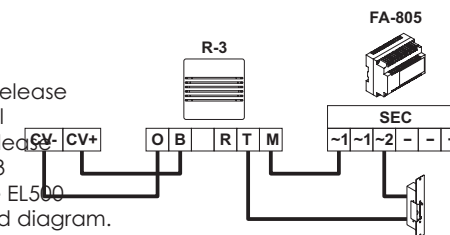
## Door bell push button connection.

The Platea Plus monitor and the T-940 Plus telephone can be used to receive the calls made from the apartment door, saving the use of a bell. Wire the push button of the apartment door to the 'HZ-' and '-' monitor or telephone terminals. The reproduced acoustic tones are different depending on their provenance, that allows the user to distinguish where the call is made from. If during a conversation a call is made from the apartment door, acoustic tones will be reproduced on the handset to advise that someone is calling.



## Connexion of an a.c. lock release.

As it is described on page 8, the lock release to be connected to the door panel must be d.c. type. If an a.c. lock release has been installed before, use a R-3 relay unit and connect them to the EL500 circuit as it is shown on the enclosed diagram.



# TROUBLESHOOTING HINTS

An easy way to check that the system is working properly is to disconnect the wiring from the door panel and to check the monitor directly connected to the EL500 circuit.

No shortcircuit will damage the connected units, with the exception of a shortcircuit between CTO and '-' monitor or distributor terminals.

- O Nothing operates.
  - w Check the output power supply voltage between '-' and '+' terminals: it should have 17,5 to 18,5Vd.c. If not, disconnect the power supply from the installation and measure again. If it's correct now, it means there is a short circuit in the installation: disconnect the power supply from mains and check the installation.
  - w Check that 'D' terminal is not shortcircuited with '-' or '+' terminals.
  - w Check that 'D' terminal hasn't been changed by 'A' terminal somewhere in the installation.
  - w If these tests don't solve the problem, check the voltage between 'B' and 'CP' terminals of the EL500 circuit; if the measured voltage is different to 12Vd.c. change the EL500 circuit.
- O Inappropriate audio level.
  - w Adjust the level volumes as shown on page 7. In case of feedback, reduce the audio levels until feedback fade out. If feedback don't dissapears refer to the following hint.
- O Continuous audio feedback.
  - w Check that 'A' terminal is not shortcircuited with other terminals.
- O Door open function no operates.
  - w Remember that this function is only available during call and communication progresses.
  - w Disconnect the lock release from the EL500 circuit and short-circuit terminals '-' and 'CV-': at that moment the output voltage between terminals 'CV+' y 'CV-' should be 12Vd.c. If it's so check the lock release and its wiring.
- O The system cannot be programmed.
  - w Check that the switch number 2 of the configuration dip switch is set to ON (see page 6) and that the programming steps are correctly followed.
  - w Check that 'D' terminal is not shortcircuited with other terminals.
- O Some units don't receive calls.