

Stadio Plus

Audio and Video

door entry system digital installation

Instructions manual

INTRODUCTION 73

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.

INDEX

ntroductionndex	
Starting recommendations	
System characteristics	
System operation	
Door panel installation	
Description	
Embedding box positioning	
Door panel modules assembly.	
Electronic modules assembly	
Door panel fixing	
Push buttons wiring	
Push buttons coding	
EL500 configuration	
EL560 optional module	
Final adjustments	
Power supply installation	
Lock release installation	
Platea Plus monitor	
Description	
Function push buttons	88
EL562 module	89

End of line resistor	89
Front film replacement	89
Monitor connector description	90
Monitor installation	91
Programming	
T-940 Plus telephone	
Description	93
Function push buttons	93
Telephone installation	94
Programming	95
Installation diagrams	
Connection of an a.c. lock release	.96
Link of several power supplies	
Video installation with coaxial97 to	98
Video installation without coaxial99 to	100
Audio installation101 to	102
Optional connections	
External lock release activation	103
Auxiliary devices activation	103
Intercom function	104
TV connection	104
2nd camera activation	105
Door bell push button connection	
Troubleshooting hints	106

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 230Va.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 30 seconds.
- Always use RG-59 or RG-11 coaxial cables. **Never use coaxial antenna cable.** In installations no longers than 100m., **Golmar RAP-5130** cable can be used.

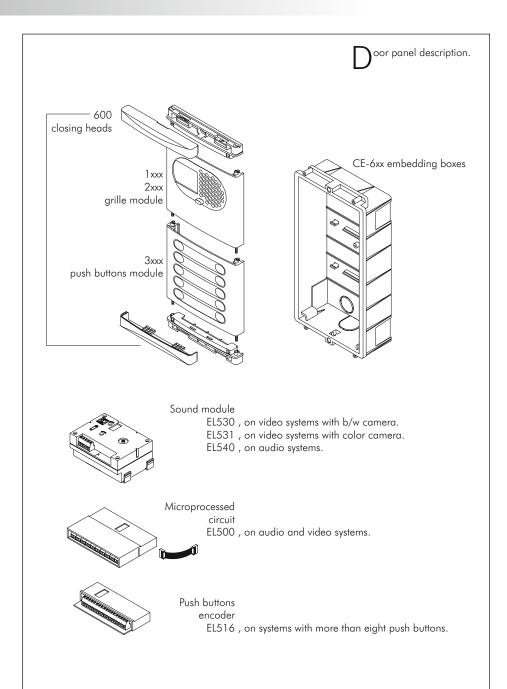
74

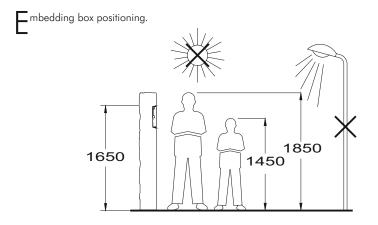
SYSTEM CHARACTERISTICS

- De 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:
 - rivacy on audio and video communications.
 - **℃**'Video-Spy' function remaining the communication channel free.
 - c Intercommunication function with other monitor or telephone of the same apartment.
 - €Input for door bell apartment push button.
 - © Different call reception tones depending where the call is comming from: main or slave door panels, door bell push button, intercom, ...
 - Activation of two auxiliary devices: secondary telecamera, courtesy light, ...
 - © Up to three monitors or telephones in the same apartment without additional power supplies.

SYSTEM OPERATION

- Description 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 \oplus push button, dissapearing 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.
- Do 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 lock release activation an acoustic tone will be heard on the door panel confirming the lock release is activated.
- The monitor and telephone push buttons description is shown on pages 88 and 93 respectively.



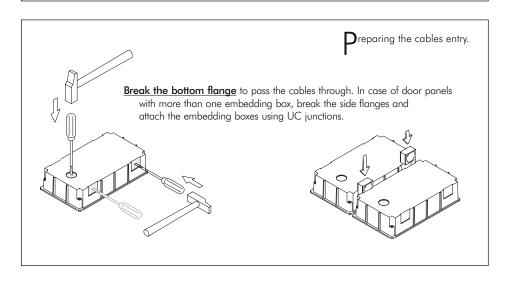


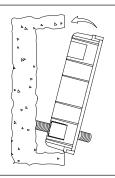
The upper part of the door panel should be placed at 1,65m. height roughly. The hole dimensions will depend on the number of door panel modules.

Modules	1	Compact	2	3
Model	CE610	CE615	CE620	CE630
W	125	125	125	125 mm.
H	140	220	257	374 mm.
D	56	56	56	56 mm.

The door panel has been designed to be placed under most of the environmental conditions.

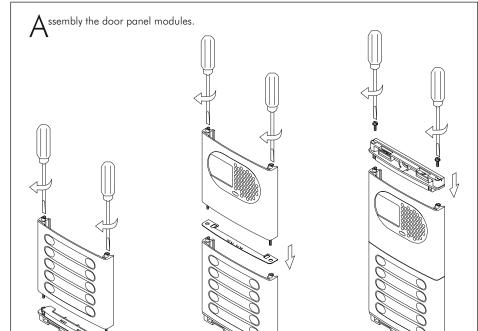
However it's recommended to take additional cautions like rainproof covers. To obtain
a good quality picture on video door entry systems, avoid direct incidence from light sources.





Dlace the embedding box.

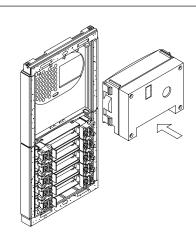
Pass the wiring through the hole made in the bottom part of the embedding box. Level and flush the embedding box. Once the embedding box is placed, remove the protective labels from the attaching door panel holes.



Insert the header DOWN marked in the lower module and fix it by screwing the module shafts.

Place the module spacer between lower and next modules, assuring that the spacer adjustment notches are inside the panel. Fix the module by screwing the shafts. Repeat this procedure in case of door panels with one more module (the maximum number of modules placed vertically is three).

Insert the header UP marked in the last module and fix it by screwing the supplied screws.



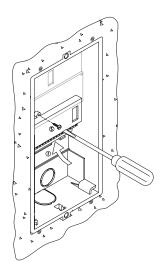
 Δ ssembly the sound module.

Insert the sound module in the grille module.

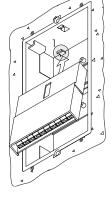
For a proper assembly, align the light push button and the microphone rubber of the sound module with its corresponding holes in the grille module.

Assembling the EL500 microprocessed circuit and the EL516 push buttons encoders.

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.







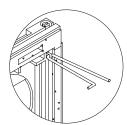
To assembly the EL516 encoder, screw the top tab of the case to the corresponding plastic lug of the embedding box.

In case of more than one encoder, place them underneath or in the next embedding box.

The use of EL516 encoders is only necessary for panels with more than 8 push buttons.

Each encoder allows to connect 15 push buttons, obtaining a maximum of 120 push buttons by using 8 encoders.

old the door panel on the embedding box.

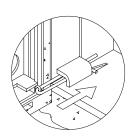


Select a direction to open the door panel; this selection should ease the door panel wiring.

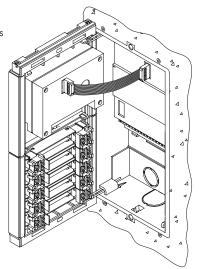
The opening direction will be settled through the hinges position, that must be passed through the header clips as shown.

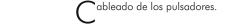
For example, if the hinges are placed on both clips of the lower header, the door panel will open downwards; if they are placed on the right clips of both headers, the door panel will open to left.

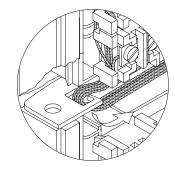
To hold the door panel on the embedding box, insert the hinges in the embedding box lockers as shown.



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



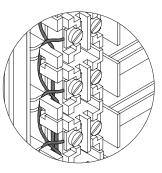


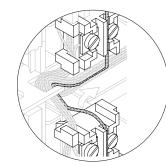


For a quality finish, pass the push buttons wires through the spacer hole of the closest module.

It's recommended to use wires of less than 0,25mm² section

Twist the call wires as shown. The call wires will be connected to the EL500 microprocessed circuit or to the corresponding EL516 push buttons encoder.

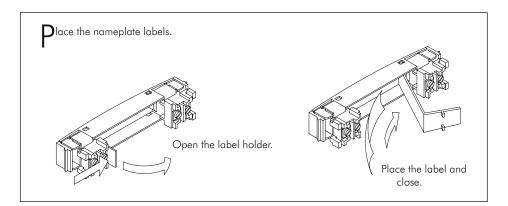


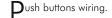


IMPORTANT: link the push buttons common terminal of the several push buttons modules.

The common terminal of the push buttons contained in a module are linked from factory

This wire must be connected to the CP terminal of the EL500 microprocessed circuit or of the corresponding EL516 encoder circuit.





CN2

B CPP8 P7 P6 P5 P4 P3 P2 P1

The CN2 connector of the EL500 microprocessed circuit has 8 terminals (P1 to P8) for the connection of push buttons or EL516 encoders. The CP terminal of the EL500 circuit must be connected to the push buttons common terminal and to the CP terminal of the push buttons encoders. Connect B terminal to the B terminal of the encoders.

To the 1st push b. or to the P terminal of the 1st EL516.

To the next push b. or to the P terminal of the 2nd EL516.

To the next push b. or to the P terminal of the 3rd EL516.

To the next push b. or to the P terminal of the 4th EL516.

To the next push b. or to the P terminal of the 5th EL516.

To the next push b. or to the P terminal of the 6th EL516.

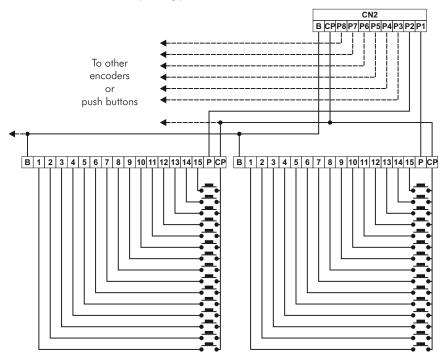
To the next push b. or to the P terminal of the 7th EL516.

To the last push b. or to the P terminal of the 8th EL516.

To the push b. common terminal and to the EL516 CP terminal.

To the B terminal of the EL516 encoders.

The enclosed drawing shows an example of connection between the EL500 circuit and two EL516 with their corresponding push buttons.



Dush buttons limit.

The maximum number of push buttons to be connected depends on the number of installed EL516 encoders, as it is shown on the following chart:

Without EL516 circuits: 8
With 1 EL516 circuit: 7 + 15 = 22With 2 EL516 circuits: 6 + 15 + 15 = 36With 3 EL516 circuits: 5 + 15 + 15 + 15 = 50With 4 EL516 circuits: 4 + 15 + 15 + 15 = 64With 5 EL516 circuits: 3 + 15 + 15 + 15 + 15 = 78

With 6 EL516 circuits: 2 + 15 + 15 + 15 + 15 + 15 + 15 = 92With 7 EL516 circuits: 1 + 15 + 15 + 15 + 15 + 15 + 15 = 106With 8 EL516 circuits: 0 + 15 + 15 + 15 + 15 + 15 + 15 + 15 = 120

Push buttons digital code.

In case to combine these door panels with coded door panels or porter's exchange it will be necessary to know these codes for a properly system configuration.

The codes shown on the first column (shadowed) correspond with the push buttons directly connected to the corresponding terminal on the CN2 terminal connector of the EL500 circuit, or with the terminal 1 of its corresponding EL516 encoder.

		EL516 terminals														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	P1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	P2	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
nals	Р3	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
EL500 terminals	P4	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
00 4	P5	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
EL5	P6	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
	P7	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
	P8	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120



escription 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.

Jumper JP2 selects the type of cable to be used for the video

Twisted pair video transmission requires the use of an

EL560 module plugged in the CN4 connector.

Factory default: coaxial cable.

high, modify the jumper position.

Factory default: maximum.

signal: coaxial cable (RG-59 or RG-11) or twisted pair.

Jumper JP3 selects the volume of the door panel acknowledgement signals (call in progress, system busy and door opened).

If after starting the system it's considered that the volume is too









Coaxial

Twisted pair.



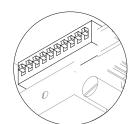




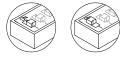
With camera. Without camera.

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.

escription 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 building.

Continue

Coming from previous page

escription 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 92 (monitors) and 95 (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 building.



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 building. Valid codes are from 0 (factory default) to 99. To set the code use binary coding as shown on the next paragraph.

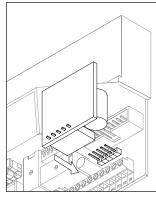
R inary coding of the configuration dip switch.

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



ptional. EL560 module for video installations with twisted pair cable.

Plug the EL560 module in the CN4 connector.

The CN4 connector is accessible by opening the terminal connector protection cover.

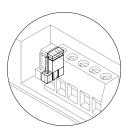
NOTE: on this type of installations the EL562 module must be plugged in all the monitors and JP2 jumper of the EL500 circuit must be placed on the position specified on page 83.

Refer to the specific installation diagram.

amps wiring.

Once the nameplate labels are placed, wire the lamps from different modules and connect them to terminals L1 and L2 of the sound module.

If the number of door panel lamps is higher than eight, connect a TF-104 transformer between ~1 and ~2 terminals of the sound module and change JP2 jumper position.



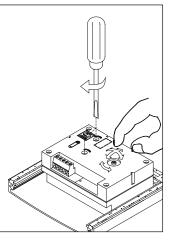
NOTE: Don't change JP1 jumper position. JP1 and JP2 jumpers are placed on the left side of the sound module terminal connector.

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.

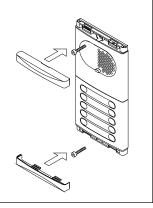
In case of low light conditions, an external illumination can be activated by connecting a R-3 relay between terminals '+H' and 'L2' of the sound module.



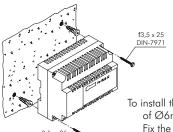
Close the door panel.

Fix the door panel by using the supplied screws.

Finish the door panel assembly by pressing the closing heads.



nstalling the FA-PLUS and FA-PLUS/C power supplies.



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.

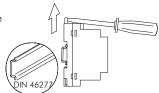
To install the power supply directly on the wall, drill two holes of Ø6mm. and insert the wallplugs.

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-Plus/C model uses 6 units over DIN guide and 10 units the FA-Plus model.



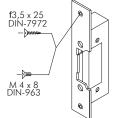
IMPORTANT: the maximum number of units that can be connected to a FA-Plus/C power supply is 10, and 50 units in case of a FA-Plus model.

Link power supplies to connect more units than the specified as it's shown on page 96.

LOCK RELEASE INSTALLATION

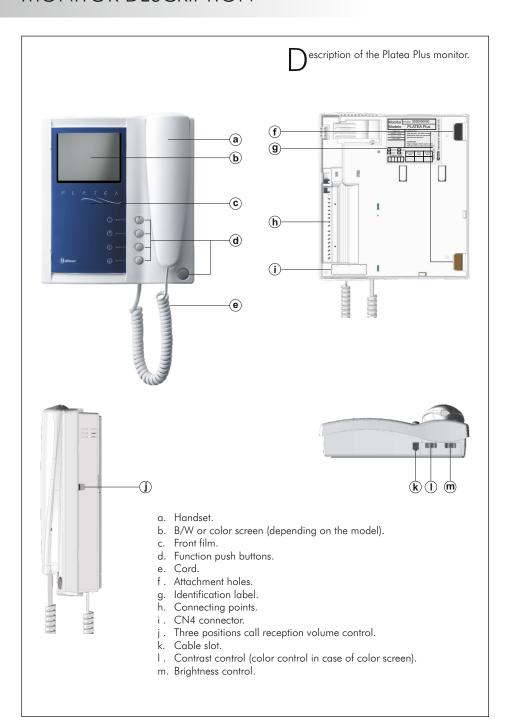
ock release installation.

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 and one TF-104 transformer to activate it, as it is shown on page 96.



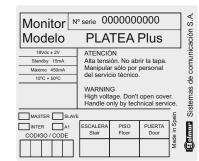
unction push buttons.

- 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 craddle 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 craddle 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 craddle 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 configurated with the autoswitch-on function. This function is disabled if a communication is already established.
- of the handset is on the craddle 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.

escription of the identification label.



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 82).

STAIR: building code (see page 84).



L562 module for video installations with twisted pair cable.

Locate the CN4 connector, that's placed in the monitor base. Remove the existing jumper and plug the EL562 module.

NOTE: on this type of installations the EL560 module must be plugged in the EL500 microprocessed circuit (page 84). Refer to the specific installation diagram.

andling 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 EL562 module, also located in the CN4 connector of the monitor base.

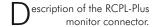
Do not remove the jumper on monitors where the video cable finish. Remove the jumper on monitors where the video cable continue.

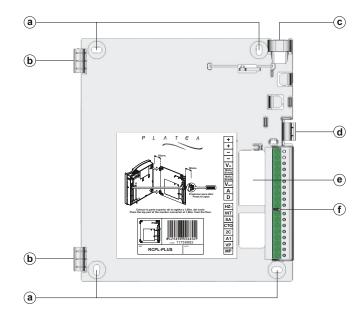
Changing the front film.

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.







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.

ix the monitor connector to the wall.

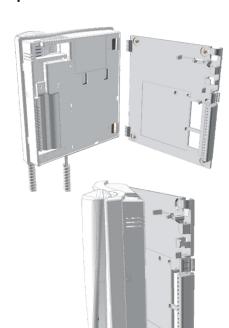
Avoid to place the monitor near to heating sources, in dusty locations or smoky environments.

To install the monitor directly over the wall, drill two holes of ∅6mm. 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.



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.

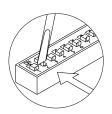
To disassemble the monitor from the connector, use a plain screwdriver to release the attachment clip. Remove the monitor from the connector, with special attention do not falls.

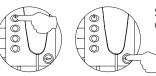


Drogramming the monitors.

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.

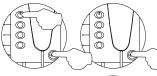
In systems with more than one door panel, the programming process shall be done on the master door panel only.





Switch off the monitor to be programmed.

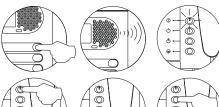
Once the monitor is off, press the door release push button.



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 it as slave, press the door release push button.

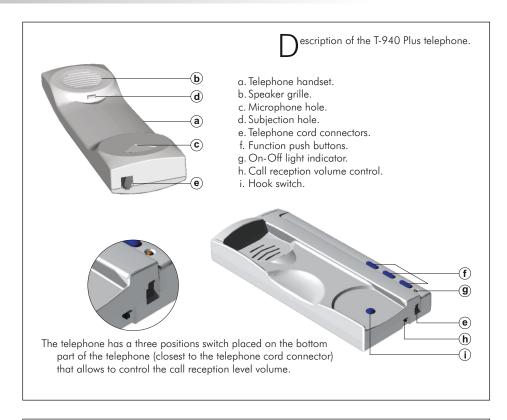
To program it as slave with intercom function press the \circlearrowleft push button.

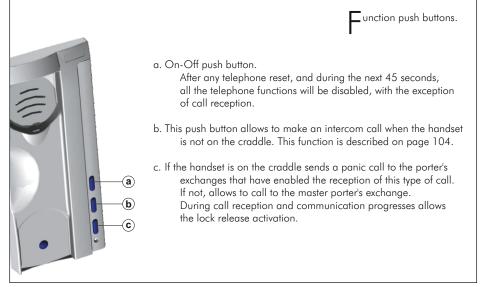
<u>Each apartment must have one master unit only</u>; in case of parallel units configure them as slaves, both monitors or telephones.



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.





erminal connector description.

+ - A D INT SA HZ-

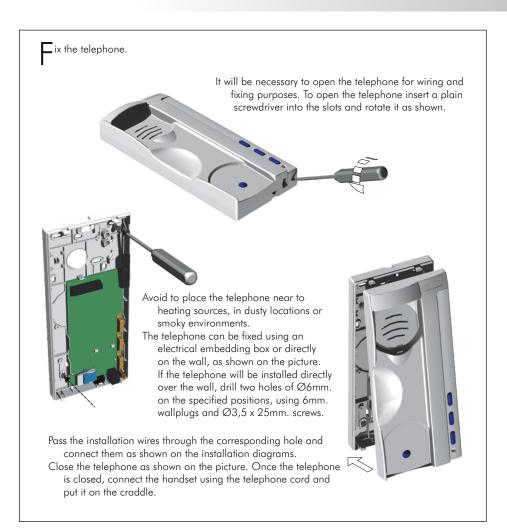
+ , - : positive, ground.

A , D : audio, digital communication.

INT: intercom.

SA: auxiliary calling device output. HZ-: door bell push button input.

TELEPHONE INSTALLATION

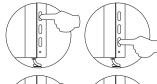


Drogramming the telephones.

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.

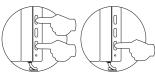
In systems with more than one door panel, the programming process shall be done on the master door panel only.



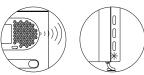


Switch off the telephone to be programmed.

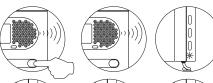
Once the telephone is off, press the door release push button.



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.

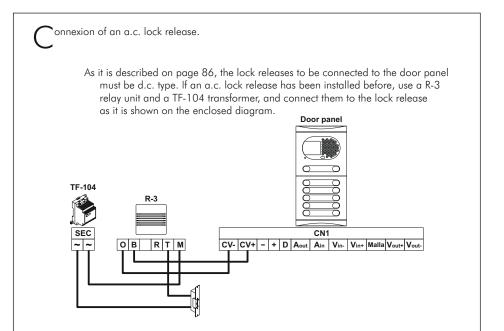
To program it as slave with intercom function press the center push button.

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



Make a call to check that the telephone has been succesfully 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.

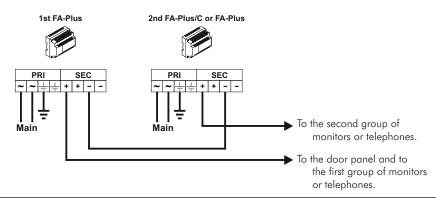


ink of several power supplies units.

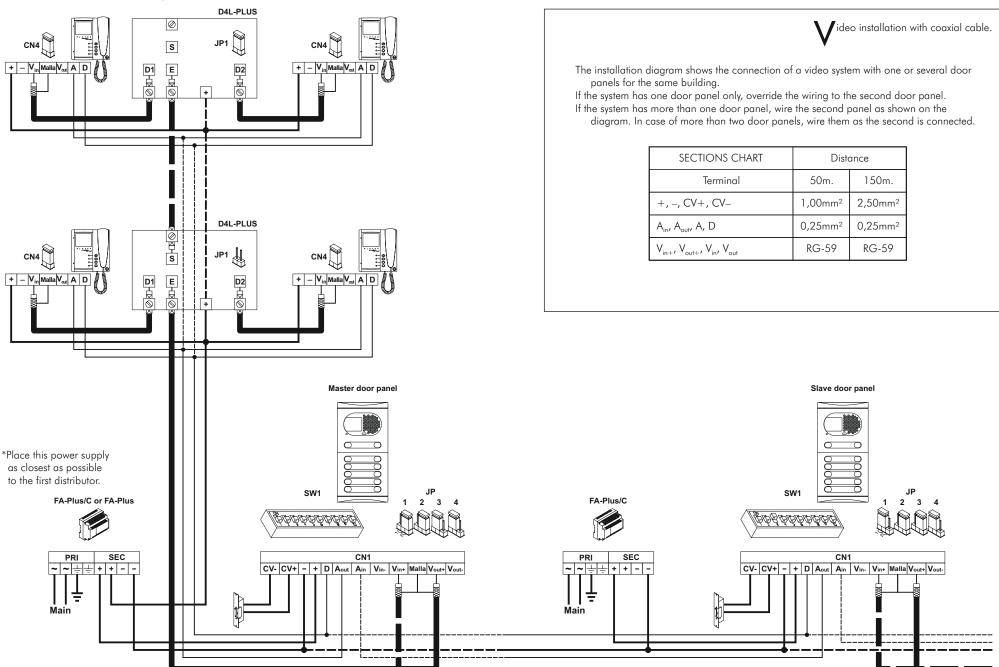
If the quantity of monitors or telephones to be connected is bigger than the supported from one power supply (see page 86), use additional power supplies to match the required quantity. The first power supply should be connected to the door panel and to the first group of monitors or telephones; connect the next groups to the positive terminal of its corresponding power supply.

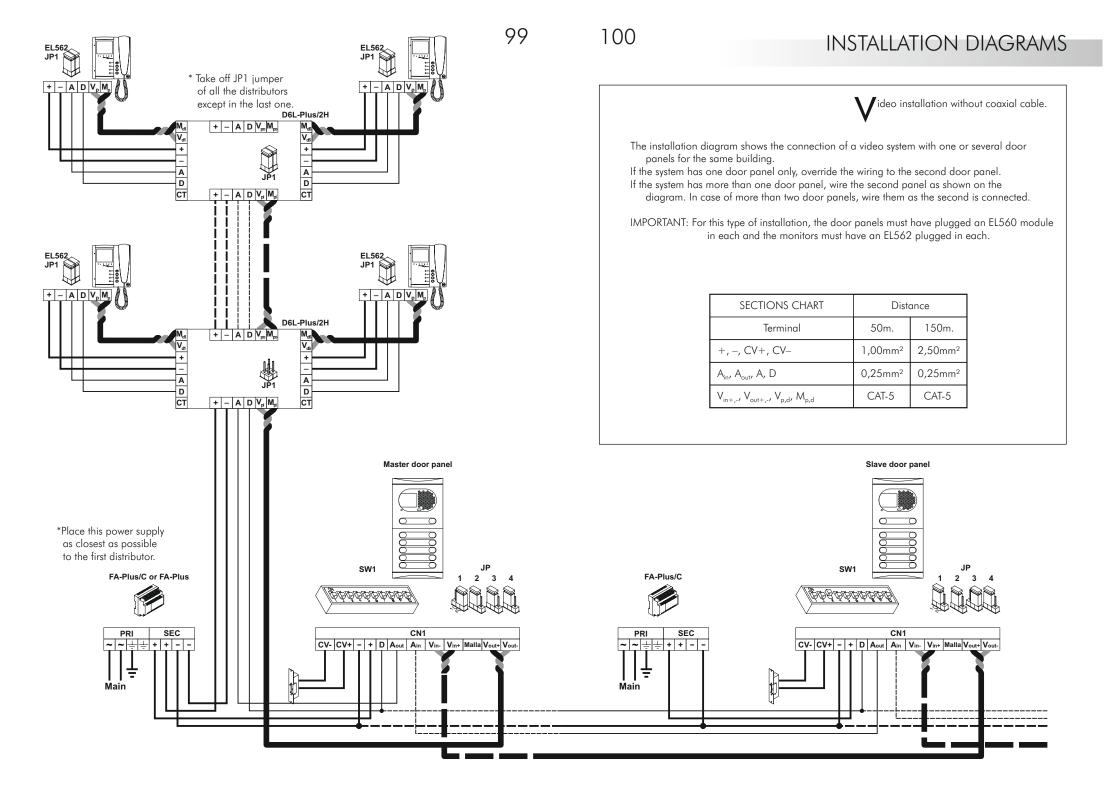
To wire several power supplies link their ground terminals;

NEVER link positive terminals of different power supplies.

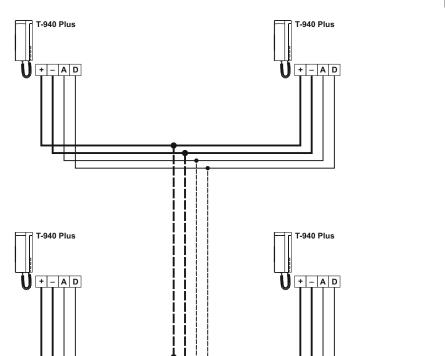


* Take off JP1 jumper of all the distributors except in the last one.





Audio installation.



*Place this power supply as closest as possible to the first telephone.

FA-Plus/C or FA-Plus

SEC

PRI

||± Main Master door panel

CV- CV+ - + D Aout Ain Vin- Vin+ Malla Vout+ Vout-

SW1

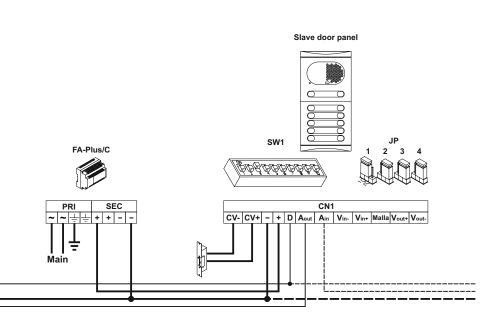
lipakakakakakak

The installation diagram shows the connection of an audio system with one or several door panels for the same building.

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

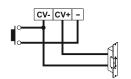
If the system has more than one door panel, wire the second panel as shown on the diagram. In case of more than two door panels, wire them as the second is connected.

SECTIONS CHART	Distance		
Terminal	50m.	150m.	
+, -, CV+, CV-	1,00mm ²	2,50mm ²	
A _{in} , A _{out} , A, D	0,25mm ²	0,25mm ²	



xternal 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 '-' terminals of the EL500 circuit. This function will allows to exit from the building being not necessary the use of a key.

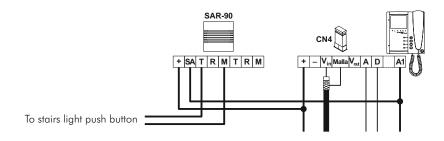


Auxiliary devices activation.

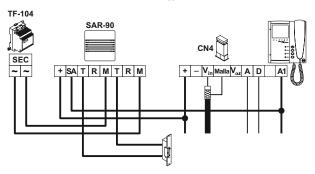
To activate auxiliary devices the use of a SAR-90 relay unit will be required. If this device is shared for all the monitors, link their A1 terminal and use just one relay unit. In case that each monitor has its own application use a SAR-90 relay unit for each monitor and don't link the A1 monitor terminals.

To activate this function, press $^{\circlearrowright}$ monitor push button at any moment with no dependence of the handset position.

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



The use of a TF-104 transformer will be necessary to activate a second lock release. IMPORTANT: the lock release must be 12Vc.a. type.



ntercom function.

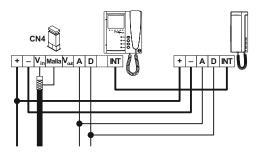
104

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 configurated as master and the other unit as slave with intercom, as described on pages 92 and 95.
- 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.

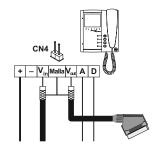
The reproduced acoustic tones are different depending on their provenance, that allows the user to distinguish where the call is made from.



Onnecting the Shiner Plus monitor to a video recorder or TV.

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.



OPTIONAL CONNECTIONS

105

Activation of a second camera.

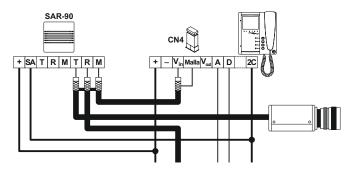
The use of a SAR-90 relay will be required to activate a second camera and an internal modification on the monitor shall be done, as it's described on page 88.

This facility disables the intercom function. If both functions are required, use A1 terminal to activate the second camera.

To activate this function, press \circlearrowleft 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.

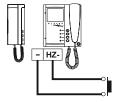
This push button can be used to activate other auxiliary devices, as the A1 terminal is used. Usual applications are the surveillance of the elevator entrance, reception hall, ...



oor 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 hanset to advise that someone is calling.



106

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.

□ Nothing operates.

- 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.
- Check that 'D' terminal is not shortcircuited with '-' or '+' terminals.
- € Check that 'D' terminal hasn't been changed by 'A' terminal somewhere in the installation.
- 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.
- ⇒ Inappropriate audio level.
 - Adjust the level volumes as shown on page 85. In case of feedback, reduce the audio levels until feedback fade out. If feedback don't dissapears refer to the following hint.
- □⇒ Continuous audio feedback.
 - Check that 'A' terminal is not shortcircuited with other terminals.
- □⇒ Door open function no operates.
 - Remember that this function is only available during call and communication progresses.
 - 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.
- ⇒ The system cannot be programmed.
 - Check that the switch number 2 of the configuration dip switch is set to ON (see page 84) and that the programming steps are correctly followed.
 - Check that 'D' terminal is not shortcircuited with other terminals.
- ⇒ Some units don't receive calls.
 - © Remember that each apartment must have a master unit only. Check that the units are switched on and correctly programmed.