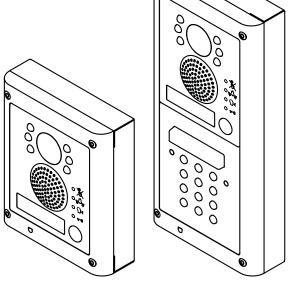


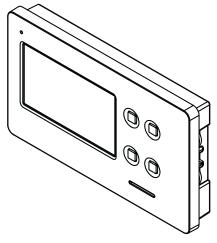


VIDEOKIT VK4K/6458 SERIES

"6 Wire" bus one way, two way videokit

VK4K VK4KC





6458

Installation handbook





Introduction	2
System components and available versions	3
General directions for installation	
Troubleshooting guide	
Art. 4833 Speaker unit	
Art. 4800 - 4800M Digital codelock module	
4000 Series surface and flush mounting door station installation	
Art. 6458 4.3" hands free colour display digital videophone	
6400 Series Videophone wall mounting instructions	
Installation diagrams	

Introduction

The VK4K Series is a new range of videokits that use the 4000 Series external door station and the Art. 6458 Series videophone. The camera / audio unit is the size of a single 4000 Series module and is available in either flush (VK4K) or surface (VK4K-S) mounting versions.

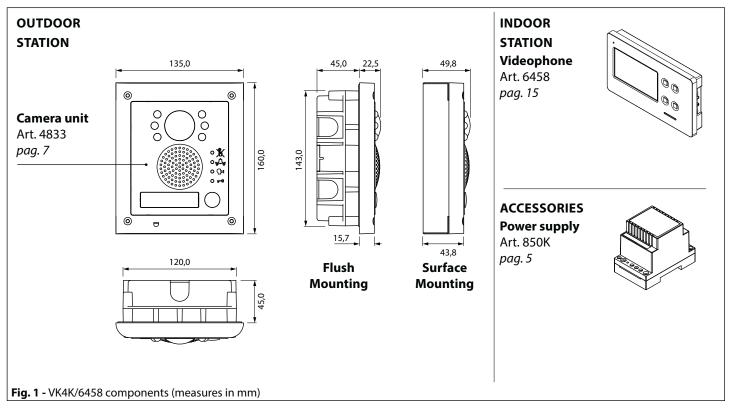
As a result of using microprocessor technology in the door panel and videophone, a number of additional features have been added to enhance the operation of the videokits and give greater feedback to the visitor and user.

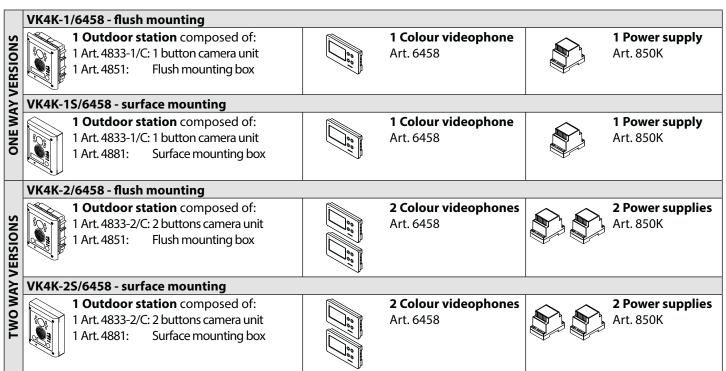
- Disability friendly, visual and acoustic signals from the door panel to inform the visitor of call status (call made, ringing, speak, door open).
- Programmable door open and conversation time.
- Expandable to 4 entrance panels (requires an additional relay Art. 506N for each entrance panel).
- Connections for a push to exit button.
- Two methods of operating the electric lock:- 1) Dry contact relay, 2) capacitor discharge 12Vdc output.
- Facility for the connection of a codelock Art. 4800M, display module Art. 4820, stand-alone proximity reader Art. 4850 or stand-alone biometric reader Art. 4821 etc.
- Programmable number of call tone rings from 2 to a maximum of 8.
- Input for local door bell push button.
- Programmable timed privacy function from 15 minutes to a maximum of 8 hours.
- Door open status LED (additional wire required from the door to the videophone)
- Up to 4 videophones can be connected in parallel, all with intercommunication facility.
- Videophones can have a maximum of two additional audio telephone handsets connected in parallel.
- Camera recall on all systems, with selective recall on systems with multiple entrances.
- Door panel camera can be adjusted horizontally and vertically (10 degrees).



System components and available versions

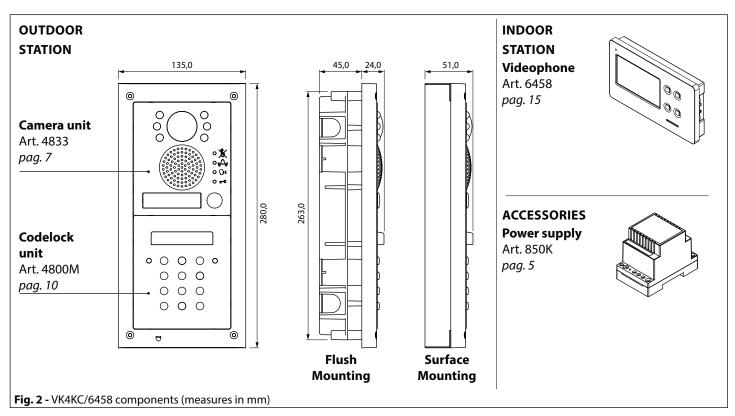
VK4K/6458 Colour videokit.

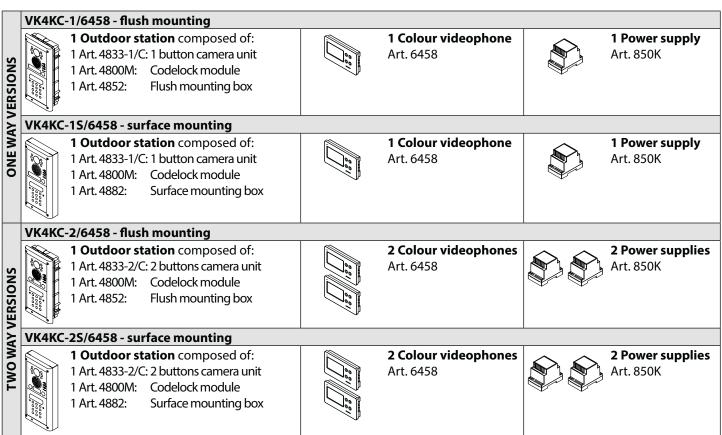






VK4KC/6458 Colour videokit plus a codelock module.





General directions for installation



CONNECTION TO MAINS

The system must be installed according to national rules in force, in particular we recommend to:

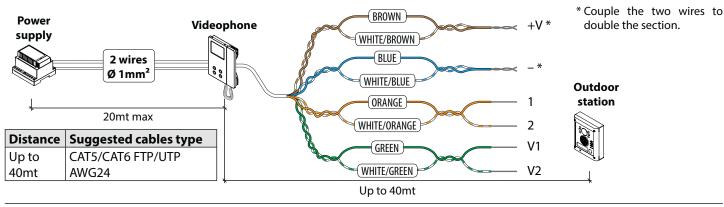
- Connect the system to the mains through an all-pole circuit breaker which shall have contact separation of at least 3mm in each
 pole and shall disconnect all poles simultaneously;
- The all-pole circuit breaker shall be placed for easy access and the switch shall remain readily operable.

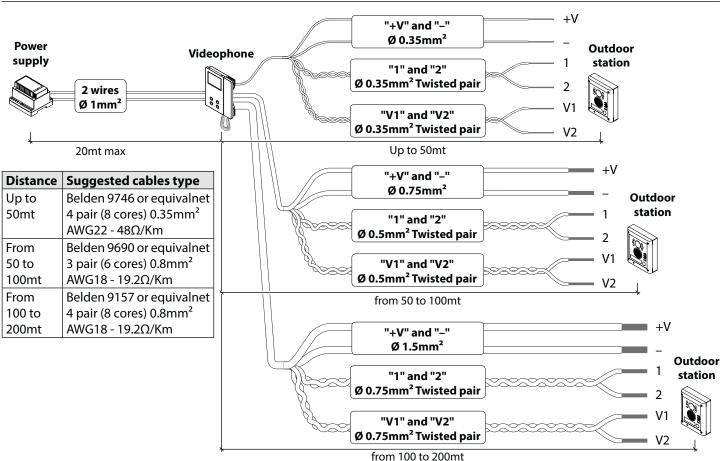
POWER SUPPLY INSTALLATION

- · Remove the terminal side covers by unscrewing the retaining screws;
- Fix the power supply to a DIN bar or directly to the wall using two expansion type screws;
- Switch off the mains using the circuit breaker mentioned above and then make the connections as shown on the installation diagrams;
- Check the connections and secure the wires into the terminals;
- Replace the terminal covers and fix them using the relevant screws;
- · When all connections are made, restore the mains.

CABLE SIZE

Video connections and Audio connections must be wired in twisted pair: pair the video lines (terminals/signals "V1" and "V2"), pair the audio lines (terminals/signals "1" and "2").





Troubleshooting guide



In case of system failure, try the following preliminary checks:

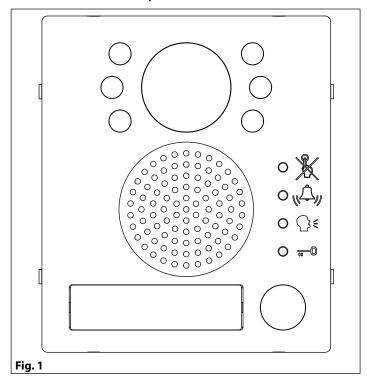
- Check that the cables are connected as shown in the installation diagram and that the cables are firmly fixed into the relevant terminals;
- Check that the mains voltage is available on terminals 230Vac (or 127Vac) and 0 of the power transformer Art. 850K;
- Check the 24Vac voltage output of the power transformer Art. 850K. If this voltage is not available it could be the 1,6A fuse, in this case remove the mains voltage, remove possible short-circuits or overload sources then replace the fuse with an equal or equivalent one.
- Check that the voltage between the terminals "+" and "-" of the speaker unit is between 16 and 20Vdc.

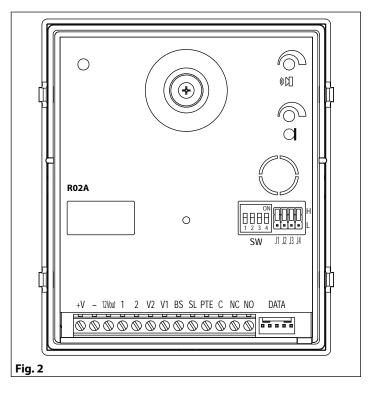
If the problem persists try the tests in the following table or contact technical support.

SYMPTOM	CAUSE	SOLUTION
The door station is not able to call the extension (the bell LED is switched on for 2 seconds):	 Wrong connection between door station and the videophone Cable size too small. Programmed videophone address incorrect. You have changed the videophone address without power down the system. 	 especially wire "1" (speech line/data). Increase cable size or double up using two wires for each connection. Check videophone address on dip-switches. Power down the system then power up again to detect the new videophone ad-
External call works but when answered the communication fails:		dress.Increase cable size or double up using two wires for each signal.
During the conversation it is not possible to open the door:		Increase cable size or double up using two wires for each signal.
During the conversation it is not possible to open the door but the key LED on the door station switches on for the programmed time:	• Electric lock wires unconnected or in short.	 Check J2 position on the door station. Check connection. Check that the electric lock type (ac or dc) is suitable for the J2 position chosen.
Speech only from outside to inside: Low volume of speech:	 Wire "2" broken or in short. Volume trimmers of door station require adjustment. 	Check connection of wire "2".
Noise over the speech line during the conversation:		Separate the 6 common wires from the high voltages cables.Separate the 6 common wires from the
Camera recall service does not work:	 Camera recall button pressed for a num- ber of times different from the ID of the door station to be switched on. 	
Intercommunicating call does not work:	 "Key" button pressed for a number of times different from the videophone ad- dress value. 	
The video shown on the monitor is of a bad quality and the image is distorted or double	 V1,V2 signals unconnected, reversed or shorted. The switches of the two way dip-switch are not both in ON position. V1,V2 of the last Art. 316N (if present) not closed with 75 Ohm resistor. 	 shorted. Set both switches to the ON position. Use 2x 75 Ohm resistors to connect V1 & V2 to 0V.
Local call does not work:	 Wrong connection or call button broken. 	Check connection or replace the button.

Art. 4833 Speaker unit







DESCRIPTION

Speaker unit module Art. 4833 comprising of high quality auto iris lens CCD Day/Night colour camera with infrared illumination LEDs.

LEDS	
X	When illuminated, indicates that it is not possible to make a call because a call or a conversation is in progress (from the outdoor station from which you are calling or from another outdoor station on systems with multiple entrances). The LED will be off when the system is in stand-by.
((1))	If illuminated, indicates that the call from the outdoor station is in progress. The LED will switch OFF when the call is answered or after the programmed number of rings.
_}{	If illuminated, indicates that it is possible to speak because the call has been answered. The LED will switch OFF at the end of a conversation (or at the end of the conversation time).
 0	If illuminated, indicates that the door lock has been operated. It will switch OFF at the end of the programmed "door opening" time.

CONTROLS (SPEAKER & MICROPHONE VOLUME)				
	Trimmer to adjust the speaker volume. Rotate clockwise to increase or anticlockwise to decrease.			
O	Trimmer to adjust the microphone volume. Rotate clockwise to increase or anticlockwise to decrease.			

OFF

ON

OFF

Switch 4



t =ON ONT



SETTINGS (DIP-SWITCH & JUMPERS)

4 WAY DIP-SWITCH First two switches are used to set the speaker unit address: the speaker unit address is required for camera recall operation on 2 or more entrance systems. **Unit Address** Switches 1,2 t∎_{=ON} OFF OFF 1 ON **OFF** 2 OFF ON 3 ON 4 ON Switches 3 **Conversation Time** t =ON ONT

Door opening time (J2 = "L" position)

60 seconds

2 seconds

NC contact NO contact

120 seconds

1 011 1 2 3 4	-	
SW	ON	6 seconds
JUMPERS J1, J2, J3, J	4	
ПППН	J1 Position	Call reassurance tone volume
	Н	High
J1 J2 J3 J4	L	Low
пппн	J2 Position	Door open relay operating mode
H = • = E	Н	Capacitor discharge
J1 J2 J3 J4	L	Dry contacts
ПППН	J3 Position	Call buttons operating mode (only for Art. 4833)
	Н	Each button calls a different videophone
J1 J2 J3 J4	L	Both buttons call the same videophone (Address 1)
пппп	J4 Position	Built-in relays – back EMF protection (MOV)
	Н	NC contact

When the door open relay operating mode is set to "capacitor discharge"*, one terminal of the electric lock must be connected to ground while the second must be connected to "NO" terminal. The "NO" terminal will supply a temporary voltage when the speaker unit receives the door open command.

^{*} When "capacitor discharge" operating mode is set, one terminal of the electric lock must be connected to the ground while the second one must be connected to "NO" terminal. The "NO" terminal will supply a temporary voltage when the speaker unit receives the door open command (we suggest to use a 12Vac/dc 1A max electric lock). Setting "dry contacts" operating mode, when the speaker unit receives the door open command, the "NO" terminal will be internally linked to the "C" terminal for the programmed time (switch 4 of the 4 way dip-switch bank).

Art. 4833 Speaker unit

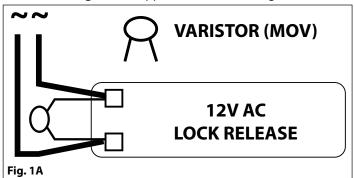


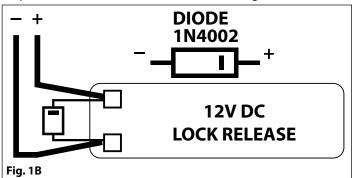
BUILT-IN RELAYS - BACK EMF PROTECTION

The Art. 4833 includes selectable back EMF protection on the relays. The jumpers marked J4 (One jumper for each relay) are used to select the protection type. When using a fail secure lock with connections C & NO the jumper should be in the NO position. When using a fail open lock with connections C & NC the jumper should be in the NC position and when using the codelock to trigger a gate controller or another third party controller the jumper should be removed completely (This disables the protection on the relay).

LOCK RELEASE BACK EMF PROTECTION

A varistor must be fitted across the terminals on AC lock release (**Fig.1A**) and a diode must be fitted across the terminals on a DC lock release (**Fig.1B**) to suppress back EMF voltages. Connect the components to the lock releases as shown in figures.





SIGNALS					
+V	Power input 16÷20Vdc				
-	Power input ground				
12Vout	12Vdc. 0,3A max. output to supply accessiories				
1	Speech line input toward the loudspeaker and data signal (ab progress)	out 12V in stand-by, about 5V with a conversation in			
2	Speech line output from the microphone (about 12V in stand-	by, about 3V with a conversation in progress)			
V1	Balanced video signal sync.–				
V2	Balanced video signal sync.+				
BS	Input/Output busy signal (about 12V in stand-by, about 0V with a call in progress)				
SL	Active low output to enable the enslavement relay for video signal exchange (active with a call in progress)				
PTE	Active low input to control directly the door open relay				
С	Door open relay common contact				
NC	Door open relay normally closed contact Max 24Vdc, 3A when used as dry contacts relay				
NO	Door open relay normally open contact				

TECHNICAL SPECIFICATION

Power Supply: Supplied by the BUS line, 20Vdc

Power consumption: Stand-by: 70mA

Operating: 250mA

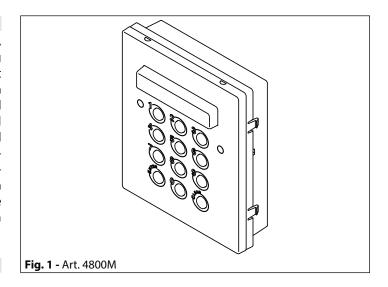
Working Temperature: -10 +50° C

Art. 4800M Digital codelock module



CODELOCK UNIT MODULES ART. 4800M

The module features 12 stainless steel buttons (Keys **0 - 9**, **ENTER** and **CLEAR**), 2 LED's for progress information during use and programming and a mirror finish stainless steel front plate (Standard version). With three integral relays each with common, normally open and normally closed connections and two inputs to enable the external triggering of relays one and two (For example, push to exit button). Key presses are signalled both acoustically and visually while each button press has a tactile feel. Entering the correct code followed by ENTER will activate the relevant relay. Programming is carried out through the same keypad following a simple programming menu. The module can be combined with other 4000 Series modules in an audio or video intercom system.



MAIN FEATURES

- 3 C, NC, NO relay outputs (24Vac/dc 5A max);
- 3 Programmable secret codes (one for each relay);
- Each relay can be set to be activated for a specific time (01 to 99 seconds) or to work as latch;
- Two active low inputs to command directly the relay 1 and 2;
- Programming menu guarded by a 4-8 digit programmable engineer's code;
- Visual and Acoustic signal during operating and programming;
- Keypad illumination LEDs;

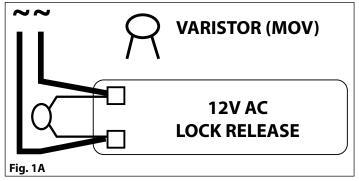
GENERAL DIRECTIONS FOR INSTALLATION

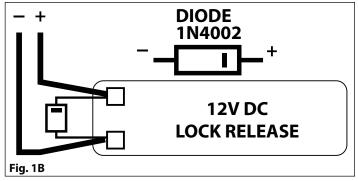
In order to achieve the best results from the schematics described it is necessary to install only original VIDEX equipment, strictly keeping to the items indicated on each schematic and follow these General Directions for Installation:

- The system must be installed according to national rules in force, in any case the running of cables of any intercom unit must be carried out separately from the mains;
- All multipair cables should be compliant to CW1308 specification (0.5mm twisted pair telephone cable).
- Cables for speech line and service should have a max resistance of 10 Ohm
- Lock release wires should be doubled up (Lock release wires and power supply wires should have a max resistance of 3 Ohm);
- The cable sizes above can be used for distances up to 50m. On distances above 50m the cable sizes should be increased to keep the overall resistance of the cable below the RESISTANCES indicated above;
- Double check the connections before power up;
- Power up the system then check all functions.

LOCK RELEASE BACK EMF PROTECTION

A varistor must be fitted across the terminals on AC lock release (**Fig.1A**) and a diode must be fitted across the terminals on a DC lock release (**Fig.1B**) to suppress back EMF voltages. Connect the components to the lock releases as shown in figures.





Art. 4800M Digital codelock module



BUZZER BACK EMF

When using intercoms with buzzer call (Art.924/926, SMART1/2, 3101/2, 3001/2 and 3021/2) add one 0.1uF (100nF) capacitor between terminals 3 and 6 on the telephone.

BUILT-IN RELAYS - BACK EMF PROTECTION

The Art. 4800M includes selectable back EMF protection on the relays. The jumpers marked MOV (One jumper for each relay) are used to select the protection type. When using a fail secure lock with connections C & NO the jumper should be in the NO position. When using a fail open lock with connections C & NC the jumper should be in the NC position and when using the codelock to trigger a gate controller or another third party controller the jumper should be removed completely (This disables the protection on the relay).

PROGRAMMING (SEE ALSO THE RELEVANT FLOW CHART)

- Enter the "ENGINEER'S CODE": first time type six times "1" (111111 factory preset) and press "ENTER" (The red LED will illuminate);
- Confirm "ENGINEER'S CODE" (typing again the same) or type the new code (4 to 8 digits) then press **"ENTER"** (Melody). Pressing twice the **"ENTER"** button without changing the "ENGINEER'S CODE", will exit from the programming;
- Enter the code (4 to 8 digits) to enable "RELAY 1" or re-enter the existing code then press "ENTER" (Melody);
- Enter the "RELAY 1" operation time (2 digits 01 to 99 I.E. 05=5 seconds, 00= remain open time) or re-enter the existing time then press "ENTER" (Melody);
- Enter the code (4 to 8 digits) to enable "RELAY 2" or re-enter the existing code then press "ENTER" (Melody);
- Enter the "RELAY 2" operation time (2 digits 01 to 99 I.E. 05=5 seconds, 00= remain open time) or re-enter the existing time then press "ENTER" (Melody);
- Enter the code (4 to 8 digits) to enable "RELAY 3" or re-enter the existing code then press "ENTER" (Melody);
- Enter the "RELAY 3" operation time (2 digits 01 to 99 l.E. 05=5 seconds, 00= remain open time) or re-enter the existing time then press "ENTER" (Melody);
- The system is ready to use (the red LED will be off).

PROGRAMMING NOTES

After pressing enter following a command, press "ENTER" a further twice to exit the programming menu.

RETURN SYSTEM TO PRESET ENGINEER'S FACTORY CODE

- Turn off power to code lock;
- Keep "ENTER" button pressed while turning the power back on;
- Release "ENTER" button;
- The engineer's code is now set to "111111" (six times one).

OPERATION

- Type in the programmed code and press "ENTER";
- If the code is correct, the green LED will illuminate for approx. 2 seconds and the relay relevant to the code will operate for the programmed time;
- If a wrong code is entered, a continuous melody will sound for 4 or more seconds, according to the number of mistakes;
- To switch off any relay while operating, type in the relevant code then press the "CLEAR" button;

OPERATION NOTES

- To operate relays together, set the same code for each relay;
- If a wrong code is entered, the system will lock out for 5 seconds which will increase each time a wrong code is entered.
 The system will operate only when the correct code is entered.

TERMINALS:			
SW2	Relay 2 command signal (active low)		
SW1	Relay 1 command signal (active low)		
NC3	Relay 3 normally closed contact		
NO3	Relay 3 normally open contact		
C3	Relay 3 common contact		
NC2	Relay 2 normally closed contact	Max	
NO2	Relay 2 normally open contact	24Vac/dc	
C2	Relay 2 common contact	3A	
NC1	Relay 1 normally closed contact		
NO1	Relay 1 normally open contact		
C 1	Relay 1 common contact		
-	12/24Vac/de nouver input		
+	12/24Vac/dc power input		

Art. 4800M Digital codelock module

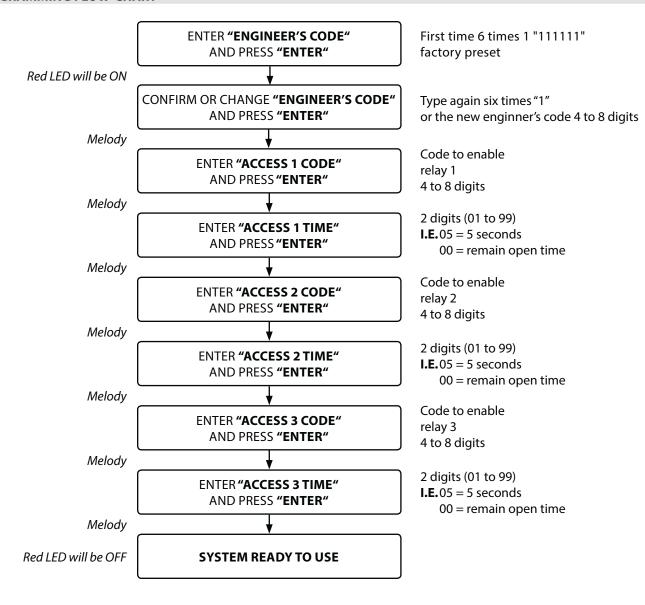


TECHNICAL SPECIFICATION

Power Supply: 12/24 Vac/dc – 2VA
Power Consumption: Stand-by: 20mA
Operating: 70mA

Working Temperature: -10 +50° C

PROGRAMMING FLOW-CHART



4000 Series Surface and flush mounting door station installation **EXAMPLE: INSTALLING A FOUR MODULE OUTDOOR STATION (C)** (\mathbf{D}) fig. 1 fig. 2 fig. 3 (H)(L) (C) \bigcirc (W) fig. 4 fig. 5 fig. 6 fig. 7 **(c**) (C) (H)(**P**) **(o**) (H)fig. 9 fig.8 fig. 10 (N) \bigcirc (Q) N fig. 13 fig. 14 fig. 11 fig. 12

fig. 16

fig. 15

fig. 17

fig. 18

4000 Series Surface and flush mounting door station installation



INSTALLING A SURFACE MOUNT DOOR STATION

1. Place the surface box against the wall (165-170cm between the top of the box and the floor level as shown in **Fig. 1**) and mark the fixing holes for the wall plugs and the hole for the cables **E (fig. 2).** Observe the orientation of the box with the hinge on the left;



- 2. As shown on **Fig. 2**, drill the fixing holes **A**, insert the wall plugs **B** and feed the cables **E** through the surface box opening **D**, fix surface box **C** to the wall using the screws **F**;
- 3. Apply the Y silicon sealant on top of each module as shown in Fig. 4;
- 4. Before installation of the module support frame, hook the modules **G** to the support frame **H** as shown in **Fig. 5** then, as shown in **Fig. 6**, fit the two anti-tampering locks **W** for each module (do the same for the second module support frame);
- 5. When you have more than one support frame, hook the support frame to the surface box starting from the left. For convenience we will described how to attach the left frame but the same must be carried out for the right frame. As shown in Fig. 7, hook the module support frame H (complete with modules) to the surface box C moving the frame as suggested from pointers. Ensure that the pivots L (Fig. 7) go inside the relevant housing M as shown in Fig. 8;
- 6. As shown on Fig. 9, pull back the module support frame H while moving it slightly to the left as suggested by the pointers;
- 7. As shown in **Fig. 10**, open the module support frame **H** as suggested by the pointer, hook the hinge locks **N** to the hinges **M**, make the required connections using the screwdriver provided **P** (flat blade end) and make the required adjustment by adjusting the settings (through openings **O**) and adjust trimmers;
- 8. Repeat the same operations described above for the second module support frame (or for the third if available);
- 9. When the system has been tested and is working correctly, move back the module support frames carefully, fix them to the surface box using the screwdriver provided **P** (torx end) and the pin machine torx screws **Q** (**Fig. 11**). **Note: do not over tighten the screws more than is necessary.**

INSTALLING A FLUSH MOUNTING DOOR STATION

When flush mounting and the number of modules is greater than 3, the required back boxes need to be linked together (before embedding them in the wall) as shown on **Fig. 14, 15 and 16**:

- Arrange the back boxes and remove knockouts to allow cables to be fed from one back box to the other;
- · Hook the spacers to first back box then hook the second back box to obtain the result shown on Fig. 16;
- 1. Protect the module support frame fixing holes from dust then embed the back box into the wall (165-170cm between the top of the box and the floor level as shown on the **Fig. 1**) feeding the cables **E** (**Fig. 2**) through a previously opened hole in the box. Observe the direction of the box ensuring the hinge is on the left and take care that the box profile is in line with the finished wall profile;



2. Continue from step 4 of surface mounting instructions, but at step 7 hook the hinge locks N as shown on Fig. 13.



NOTES

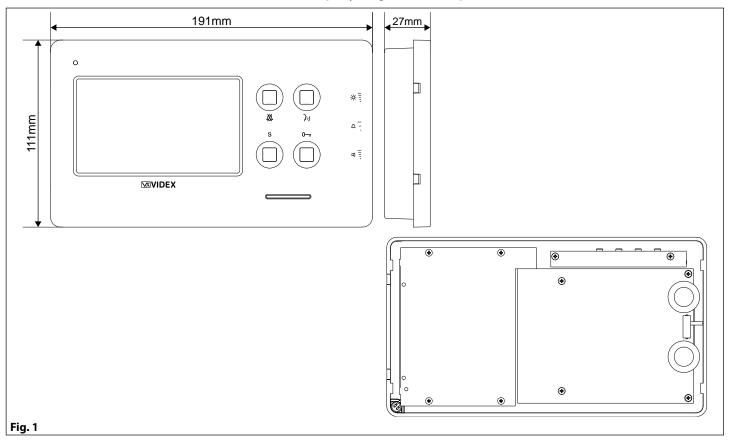
- The screwdriver's blade has two sides, one flat and one torx, to select one of them unplug the blade from the screwdriver body and plug it into the required side.
- The example shows the use of only one back box bottom hole for wires, this is done to keep file drawings clear. Naturally the installer can use the left hole or the right or both if required.

HOW TO REMOVE THE CARD NAME HOLDER

- To avoid damage to the module front plate, tape the side that will be in contact with the screwdriver blade;
- Insert the screwdriver (flat side) into the card-holder hole as shown in Fig. 17;
- Move the screwdriver to the left as shown in Fig. 18 to extract the card name holder;
- Edit the card name then replace it inside the holder and refit: insert the holder inside its housing from the left or right side then push the other side until it clips into place.

THE POWER TO SECURE

Art. 6458 4.3" hands free colour display digital videophone



DESCRIPTION

Surface mount hands free videophone incorporating a 4.3" Hi-Res full colour active matrix LCD monitor designed specifically for the "6 wire" videokit (VK4K, VRVK and VK8K range).

Including 4 buttons: "camera recall" "open door" "service" and "privacy". LED's* to indicate the privacy activated and open door. Programmable privacy duration and number of rings. Intercommunicating call and door call. Adjustments: call tone volume switch (3 levels), picture hue, contrast and brightness.

* The operation of some LED's and the functions described may require additional cabling

PUSH BUT	TONS (FIG. 1)
S	Service push button. Shorts the "SB" terminal to GROUND (open collector 24Vdc 100mA max) while the button remain pressed.
数	Privacy ON-OFF button. When the system is in stand-by, the pressing of this button activates (LED switched on) or disables (LED switched off) the "privacy" service. The service is automatically disabled when the programmed privacy time expires. When the service is enabled the videophone does not receive calls.
0	Door-open / intercommunicating call button. With speech lines open to the entrance panel, press this button to open the door. If the terminal "LD" is properly connected the relevant LED remains switched ON until the door is closed. Intercommunication only works when the system is in the stand-by condition. Switch 4 of the SW1 dip-switch selects the type of intercommunication: OFF Intercommunication between two apartments - press the key button to call the videophone(s) in the other apartment. A busy tone will signal that the other videophone is in conversation with the door station and so cannot be called. ON Intercommunication between videophones in the same apartment - press the key button one, two, three or four times to call videophone with extension address 1, 2, 3 or 4 (Set on dip-switches 2&3 of SW1). Any intercommunicating conversation is always interrupted by an external call (i.e. External calls take priority). Intercommunication push button. For an intercommunicating call, press as many times as the extension or address value to call (see SW3 Intercommunication Settings).





PUSH BUTTONS (FIG. 1)

31)

Answer push button.

On an incoming call, pressing this button allows the user to answer and converse with the visitor. The relevant LED will illuminate.

Switch off button.

With the system switched on (monitor on), momentary operation of the button will switch the video monitor off. The videomonitor will also automatically switch off after a time delay if the button is not pressed. The relevant LED will switch off.

Camera recall button.

Press the button (Press once for door/gate 1, twice for 2 and so on up to a maximum of 4 entrances): the relevant LED switches ON and the monitor switches on showing the video from the door panel. The speech is also live and the door can be opened by pressing $\mathbf{0} - \mathbf{\pi}$.

Simplex button.

Pressing and holding the button for more than 3 seconds will switch the videomonitor into SIMPLEX speech mode. Press and hold the button to speak to the caller (), LED will flash rapidly), release the button to listen (), LED will flash slowly). If the button is not pressed for 10 seconds the videomonitor will switch off. The videomonitor will revert to duplex speech when another call is made.

LEDS (FIG. 1)		
LED 🌣	Privacy on LED.	
LED W	It illuminates when the privacy service is enabled.	
	Generic use LED.	
LED 0	It is controlled from the terminals "+DOL" and	
LED 0-11	"-DOL". Normally used to signal the door status	
	(open or closed).	
	ON LED.	
LED },)	It illuminates when the videophone is switched	
',	ON.	

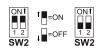
CONTROLS AND ADJUSTMENTS (FIG. 1)			
PT1 Brightness control (sliding wheel).			
प्राप्त SW1 Speech volume control (3 levels).		Speech volume control (3 levels).	
Call tone volume control (sliding wheel).		Call tone volume control (sliding wheel).	
PT2		Colour intensity control trimmer (rotate left to increase or right to decrease).	
РТ3		Contrast control trimmer (rotate left to increase or right to decrease).	

SETTINGS (DIP-SWITC	CH)		
The videophone setup		d out by t	he 2 dip-switch banks.
†=on Ont	Switch 1		Apartment Address
1 = OFF 1 2 3 4 5 6 7 8	OFF		1
SW1	ON		2
	Switc	hes 2,3	Extension Address
t =on Ont	OFF	OFF	1
OFF 1 2 3 4 5 6 7 8	ON	OFF	2
SW1	OFF	ON	3
	ON	ON	4
†■=ON ON†	Switc	h 4	Intercommunication
1 2 3 4 5 6 7 8	OFF		Between videophones in another apartment
SW1	ON		Between videophones in the same apartment
	Switc	hes 5,6	Number of rings
↑ =ON ON↑	OFF	OFF	2
0=OFF 1 2 3 4 5 6 7 8	ON	OFF	4
SW1	OFF	ON	6
	ON	ON	8
	Switc	hes 7,8	Privacy duration time
t∎=ON ON†	OFF	OFF	15 minutes
OFF 1 2 3 4 5 6 7 8	ON	OFF	1 hours
SW1	OFF	ON	4 hours
	ON	ON	8 hours

Art. 6458 4.3" hands free colour display digital videophone



2 WAY DIP-SWITCH (SW2)



The two way dip-switch adjusts the impedance of the video signal. The default setting is "ON" for both switches (75 Ohm): when there are more videophones in parallel connection (without video distributor) both switches must be "ON" only on the last videophone (looking at the connection order) while for all other videophones both switches must be set to "OFF".

SIGNALS O	ON CONNECTION BOARD
+V	20Vdc Input/Output (As input 16÷20Vdc 0,5A – as output 20Vdc 0,5A max)
-	Ground reference for +V terminal.
1	Speech line output from microphone and data signal (Approx. 12V in stand-by, 5V during a conversation)
2	Speech line input toward the loudspeaker (Approx. 12V in stand- by, approx. 3V during a conversation)
V1	Balanced video signal 1 sync.–
V2	Balanced video signal 2 sync.+
\sim	
\sim	24Vac 1A max power input
LB	Local call input (5V in standby, 0V to trigger)
SB	Service button (open collector) active low output. The button goes active when the button is pressed (Open Collector 24Vdc 100mA max)
LD	12Vdc input for door-open LED
2A	Speech line input toward the loudspeaker of the parallel telephone (Approx. 12V in stand-by, 3V during a conversation)
3A	Output switched ground for parallel telephone
4A	Output call tone for parallel telephone
5A	Input for door-open command from parallel telephone
12M	12Vdc power supply for Memory Board version

TECHNICAL SPECIFICATION

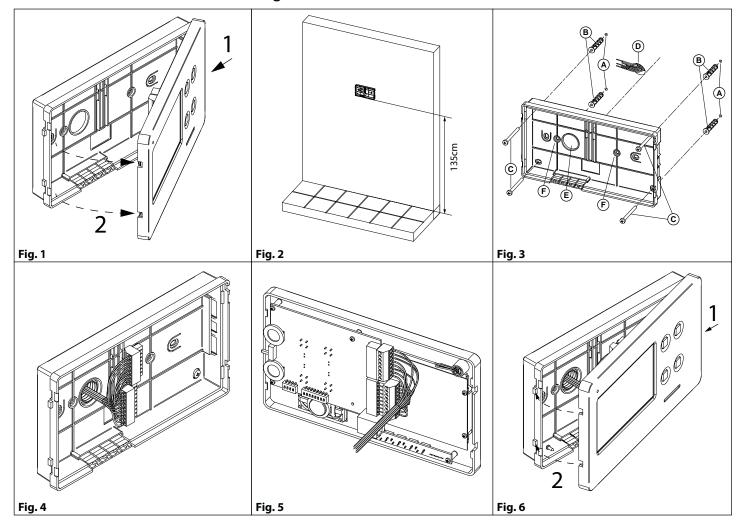
Power Supply: 24Vac in or 20Vdc in Stand-by: 50mA Max

Operating: 250mA Max

Working Temperature: -10 +50 °C

6400 Series Wall mounting instructions





- 1. In order to install the videophone, it is necessary to remove the cover, which contains all the electronics, from the base: press lightly on the right part of the videophone and simultaneously pulling outwards the left part as shown in **Fig. 1**.
- 2. Put the base of the unit on the wall at approx 135cm from the finished floor to match the points for the fixing holes "A" (Fig. 2) remembering that the wires "D" (Fig. 3) must be fed through the large hole "E" (Fig. 3). If you use the flush mounting box 503, embed it into the wall vertically at approx. 140cm from the finished floor and the base.
- 3. Following **Fig. 3**, make the holes **"A"**, insert the wall plugs **"B"** and fix the base with the screws **"C"** feeding the wires **"D"** through the hole **"E"**. If you have used the box 503, fix the base to the wall through the holes **"F"** using the screws **"C"**.
- 4. As shown in **Fig. 4**, connect the wires to the removable terminals following the provided installation diagram. Connect the terminal blocks to the electronics contained in the cover as shown in **Fig. 5**. Test system before closing.

 Contrast and hue trimmers can be adjusted only if the videophone is open. To activate the display and see changes use the "Camera Recall" function by pressing \(\frac{3}{2} \) button.

Note: while testing the system, it is advisable to hold the cover with your hand.

5. Once testing is complete and all the necessary adjustments are made, close the unit as shown in **Fig. 6**: first hook in the right part and then the left part until you hear a click.

Installation diagrams



NOTES AND SUGGESTIONS

- All diagrams refer to all kits versions: flush or surface, colour or black & white.
- Dashed connections refer to optional connections ("Local bell", "Push to exit" & "Door monitor").
- Some diagrams show how to connect a 12Vdc electric lock: these directions are suitable for all diagrams in this manual.
- Each time a setting is changed on a videophone (address, extension, number of rings etc.), the videophone must be disconnected from the relevant connection board then after a few seconds reconnected again to allow the recognizing of the new setting.
- All diagrams shown are valid for B&W or colour systems with surface or flush mount door station.

DECLETION OF RESPONSIBILITY

This manual has been written and revised carefully. The instructions and the descriptions which are included in it are referred to VIDEX parts and are correct at the time of print. However, subsequent VIDEX parts and manuals, can be subject to changes without notice. VIDEX Electronics S.p.A. cannot be held responsible for damages caused directly or indirectly by errors, omissions or discrepancies between the VIDEX parts and the Manual.

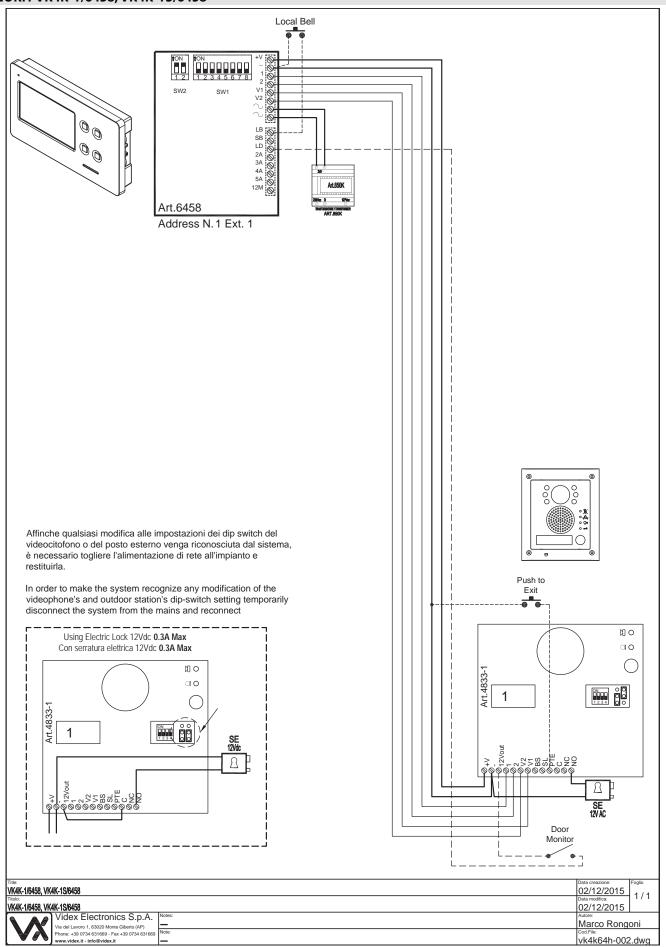


WE RECOMMEND

This equipment is installed by a Competent Electrician, Security on Communications Engineer



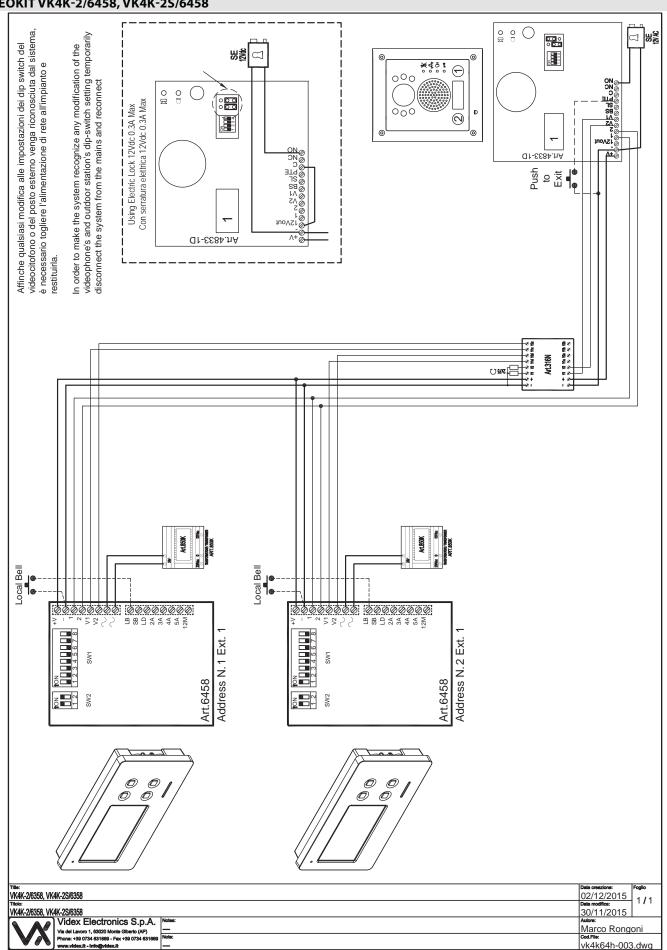
VIDEOKIT VK4K-1/6458, VK4K-1S/6458



Installation diagrams

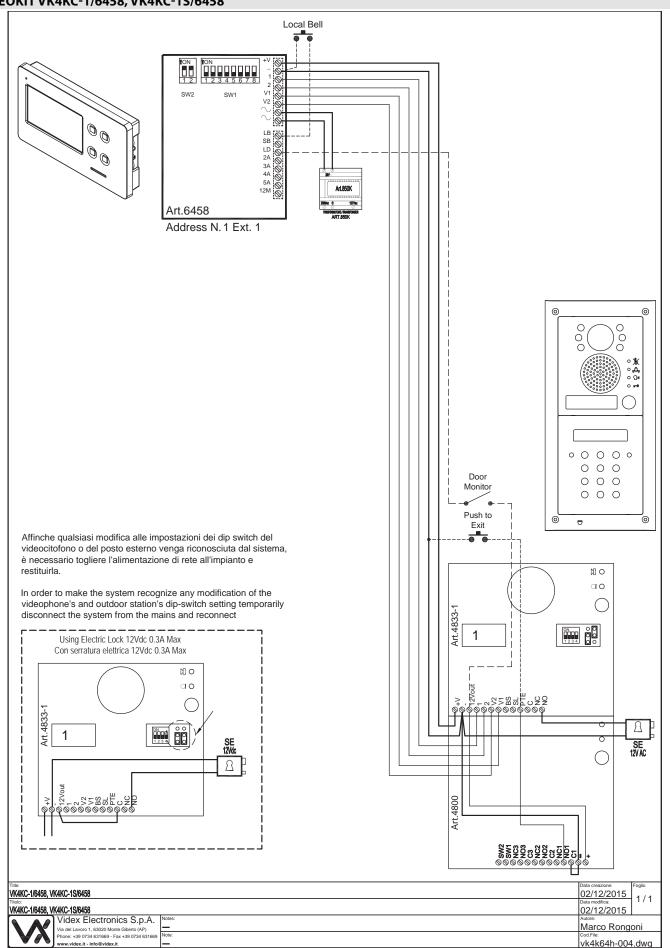


VIDEOKIT VK4K-2/6458, VK4K-2S/6458



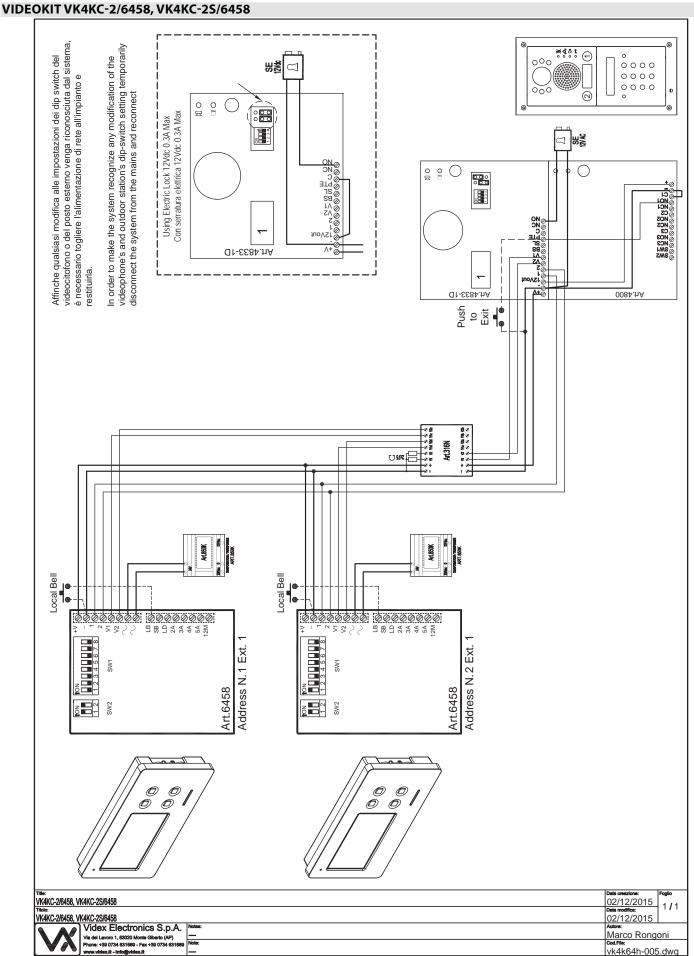


VIDEOKIT VK4KC-1/6458, VK4KC-1S/6458



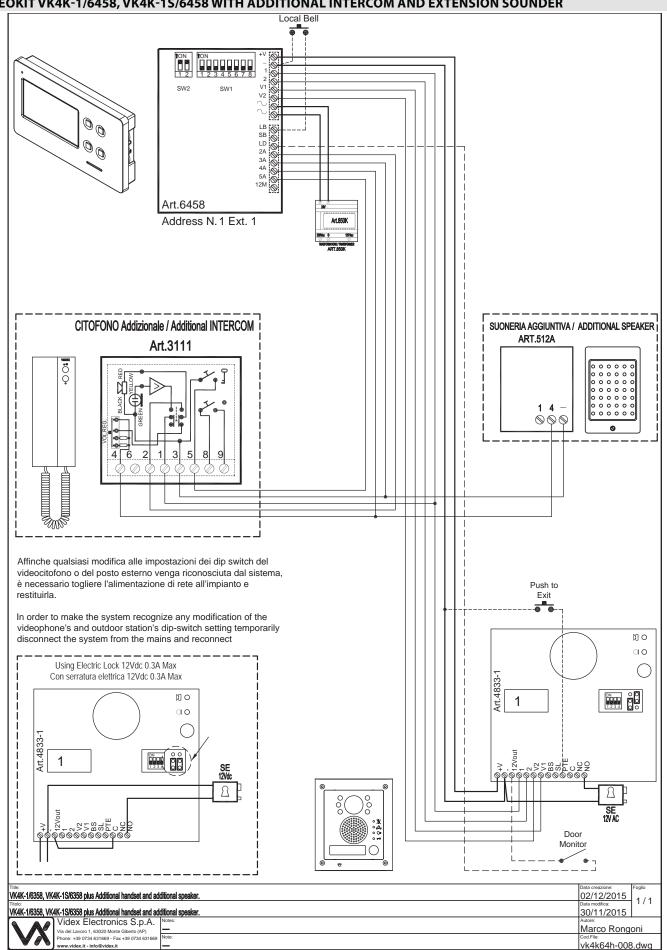
Installation diagrams





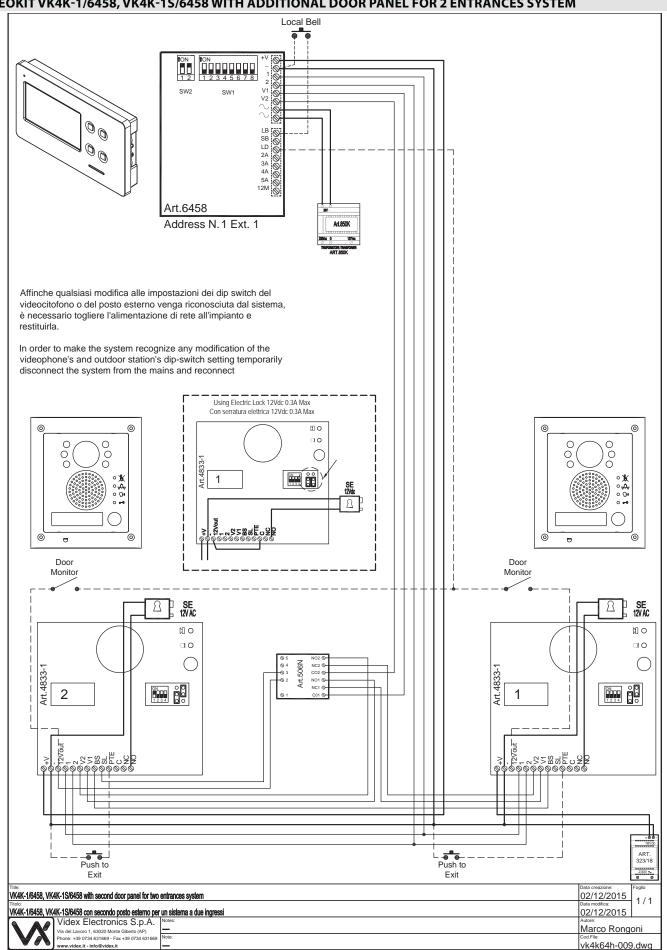


VIDEOKIT VK4K-1/6458, VK4K-1S/6458 WITH ADDITIONAL INTERCOM AND EXTENSION SOUNDER



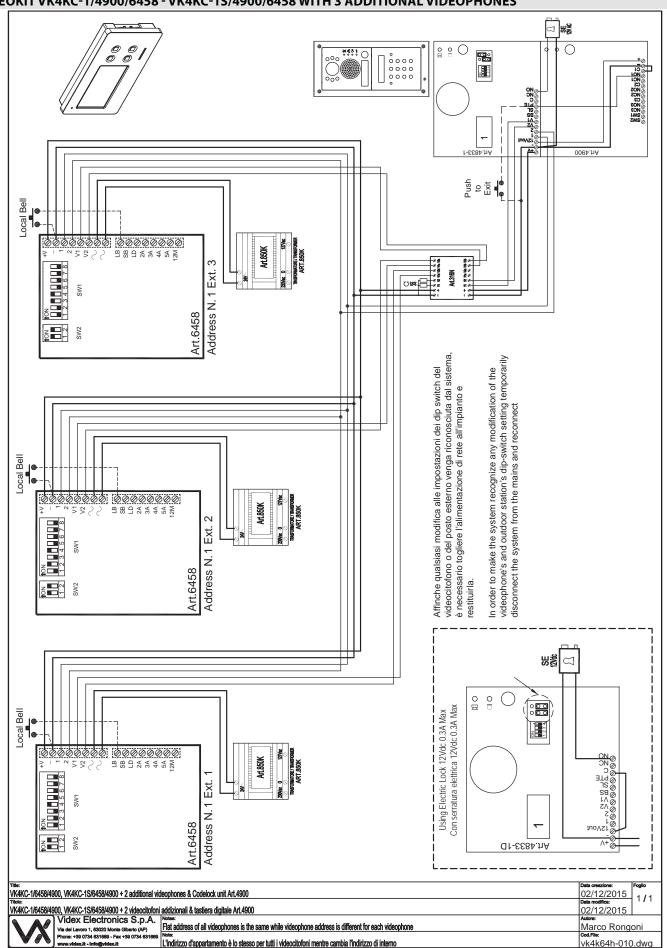


VIDEOKIT VK4K-1/6458, VK4K-1S/6458 WITH ADDITIONAL DOOR PANEL FOR 2 ENTRANCES SYSTEM



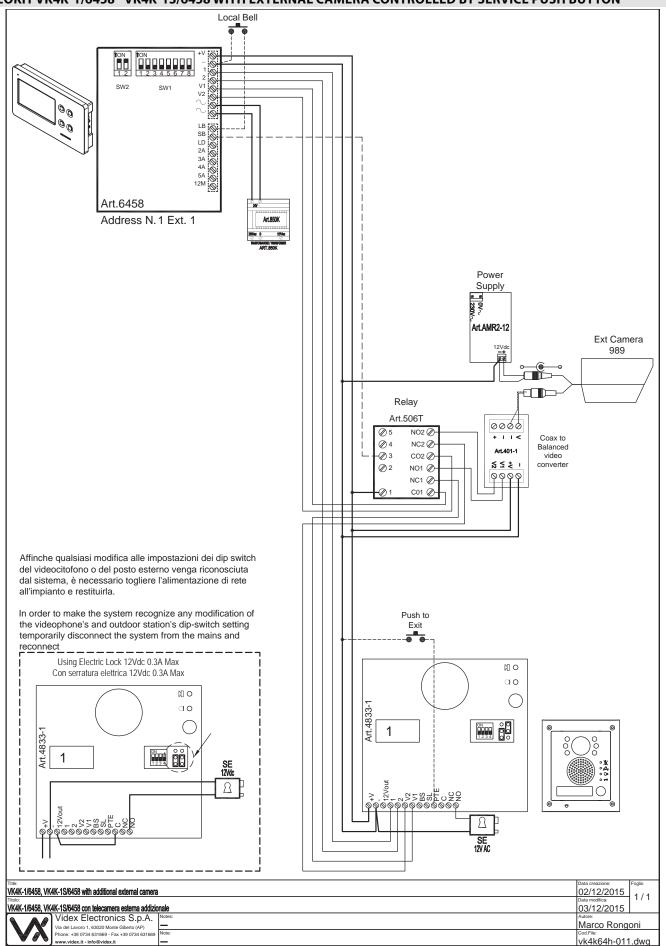


VIDEOKIT VK4KC-1/4900/6458 - VK4KC-1S/4900/6458 WITH 3 ADDITIONAL VIDEOPHONES



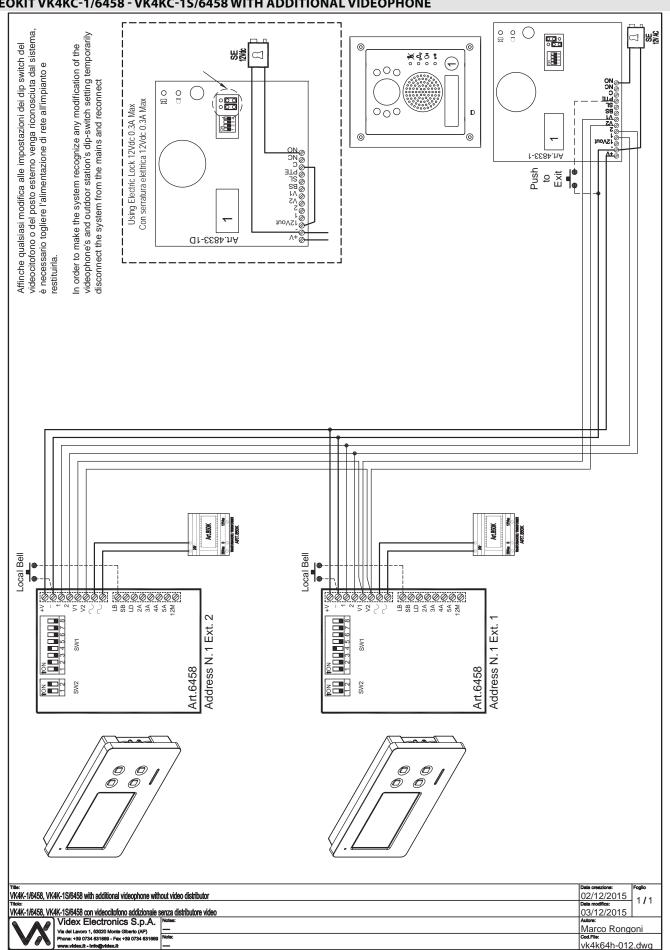


VIDEOKIT VK4K-1/6458 - VK4K-1S/6458 WITH EXTERNAL CAMERA CONTROLLED BY SERVICE PUSH BUTTON



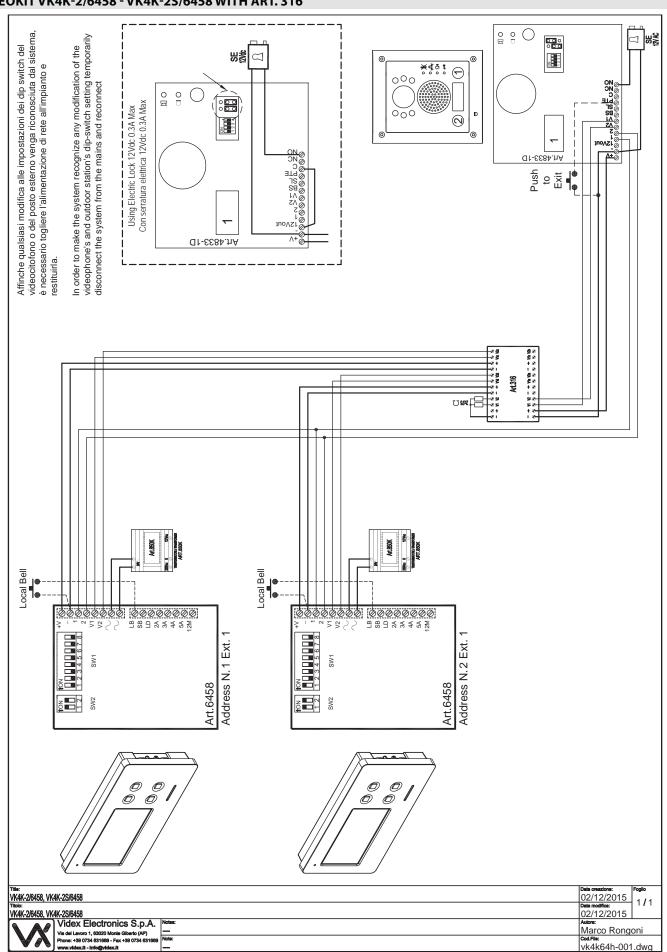


VIDEOKIT VK4KC-1/6458 - VK4KC-1S/6458 WITH ADDITIONAL VIDEOPHONE



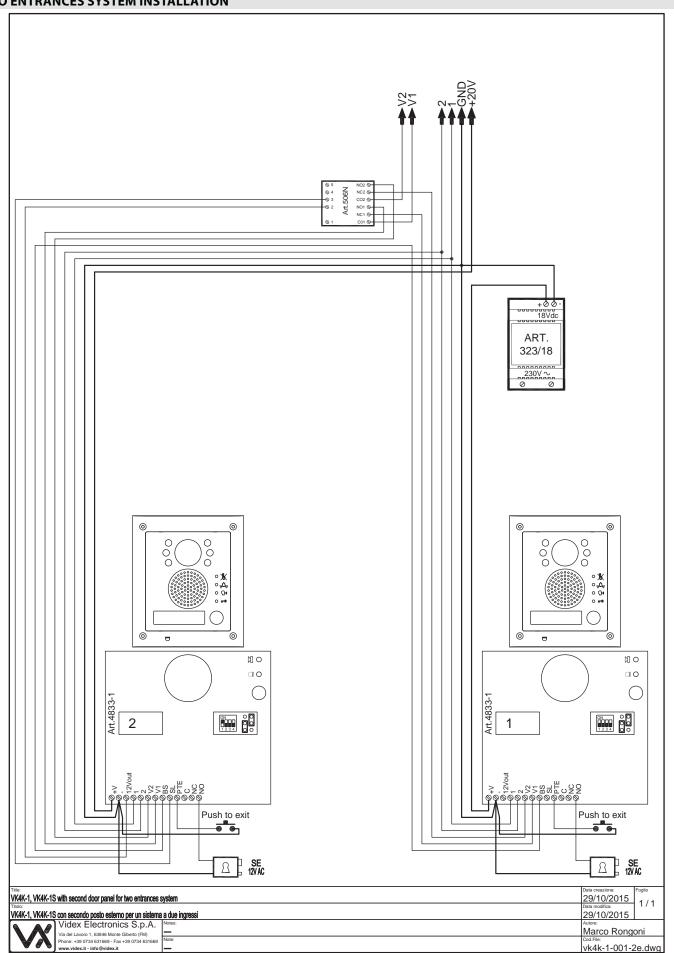


VIDEOKIT VK4K-2/6458 - VK4K-2S/6458 WITH ART. 316



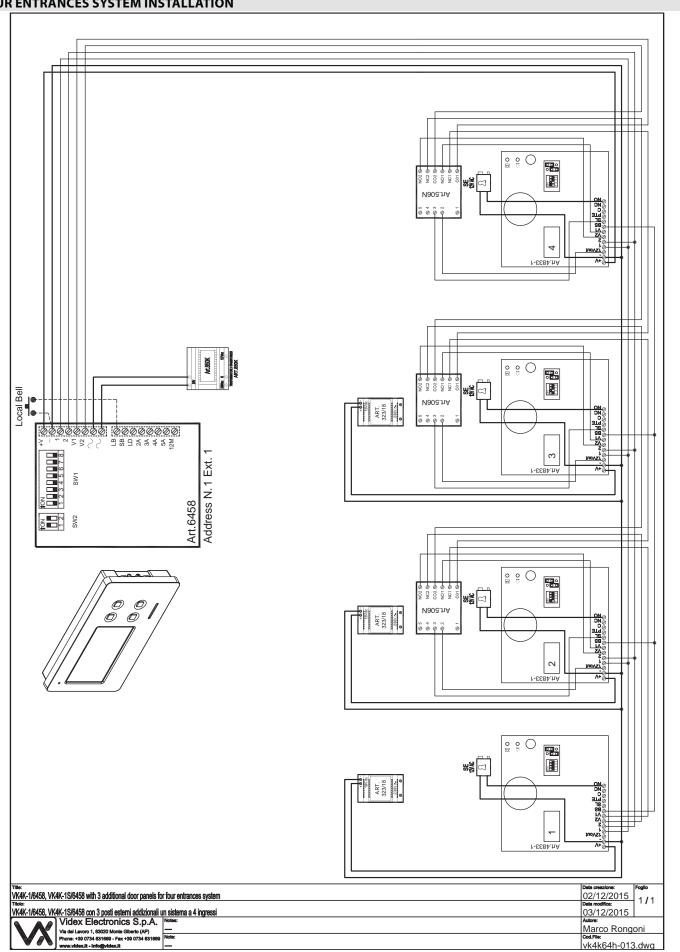


TWO ENTRANCES SYSTEM INSTALLATION





FOUR ENTRANCES SYSTEM INSTALLATION









MANUFACTURER

VIDEX ELECTRONICS S.P.A.

Via del Lavoro, 1 - 63846 Monte Giberto (FM) Italy Tel (+39) 0734 631669 - Fax (+39) 0734 632475 www.videx.it - info@videx.it

CUSTOMER SUPPORT

All Countries:

VIDEX ELECTRONICS S.P.A.

www.videx.it - technical@videx.it Tel: +39 0734-631669 - Fax: +39 0734-632475

UK Customers:

VIDEX SECURITY LTD

www.videx-security.com Tech Line: 0191 224 3174 - Fax: 0191 224 1559

Main UK office:

VIDEX SECURITY LTD

1 Osprey Trinity Park Trinity Way LONDON E4 8TD

Phone: (+44) 0870 300 1240 Fax: (+44) 020 8523 5825 www.videx-security.com marketing@videx-security.com

Northern UK office:

VIDEX SECURITY LTD

Unit 4-7

Chillingham Industrial Estate

Chapman Street

NEWCASTLE UPON TYNE - NE6 2XX Tech Line: (+44) 0191 224 3174

Phone: (+44) 0870 300 1240 Fax: (+44) 0191 224 1559

Greece office:

VIDEX HELLAS Electronics

48 Filolaou Str. 11633 ATHENS

Phone: (+30) 210 7521028

(+30) 210 7521998 Fax: (+30) 210 7560712

www.videx.gr videx@videx.gr

Danish office:

VIDEX DANMARK

Hammershusgade 15 DK-2100 COPENHAGEN Phone: (+45) 39 29 80 00 Fax: (+45) 39 27 77 75 www.videx.dk

videx@videx.dk

Benelux office:

NESTOR COMPANY NV

E3 laan, 93 B-9800 Deinze Phone: (+32) 9 380 40 20 Fax: (+32) 9 380 40 25 www.videx.be info@videx.be

Dutch office:

NESTOR COMPANY BV

Business Center Twente (BCT) Grotestraat, 64 NL-7622 GM Borne www.videxintercom.nl info@videxintercom.nl

