

## **Video Door Entry System Kits 2 Wires Installation**

### **Safety & Operating Instructions**

**Réf. NVM-902/NVC-9102B1+NPS-17**

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2014-10-20

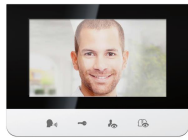



# Safety & Operating Instructions

## VIDEO DOOR PHONE






### NVM-902/NVC-9102B1+NPS-17

**These instructions are for your safety. Please read through them thoroughly before use and retain for future reference.**

#### Parts Supplied

Ref	Description	Illustration	Qty
A	Indoor Monitor		1
B	Outdoor Camera		1
C	Wall mounting bracket		1
D	Power Transformer		1

#### Fittings Supplied

Ref	Description	Illustration	Qty
E	Power cover		1
F	Locker		2
G	Bracket Holder		1
H	Screw		12
I	Wall plug		12

#### Before You Start

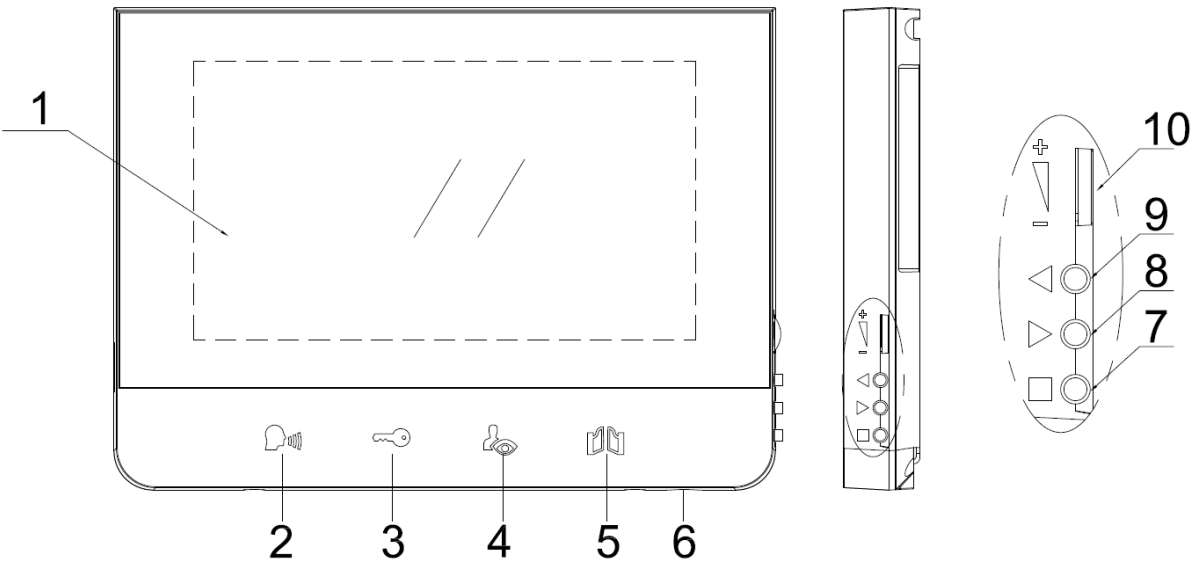
- Check the pack and make sure you have all of the part listed above. If not, contact your local store who will be able to help you.
- This video door phone is composed of a monitor with its power transformer and a outdoor camera.It allows communicating with the visitor who calls at the door and controlling the opening of the door and/or gate.You can develop your installation by adding an optional additional monitor and/or a second roadside panel.For a safe installation and use, please read carefully these instructions and keep them safe.

# Technical Characteristics

Indoor Unit (NVM-902)	Specifications
Dimensions	200[W] x145 [H] x23 [D] mm
Weight	0.5Kg
Input Power	DC17V (External Power Supply)
Power Consumption	Idle mode : 2W Operating : Max 14W
Connecting System	2 wires;2 Cameras, 2 Monitors
Voice transmission	Half duplex two way communication
Call sound	Chime sound
Max. Distance & wiring	Monitor to Camera 50M : 1.0mm <sup>2</sup> wire 100M : 1.5mm <sup>2</sup> wire Master to Slave 20M: 1.5mm <sup>2</sup> wire
	Door Lock to Camera 20M : 1.5mm <sup>2</sup> wire
Video S/N Ratio	50dB
Audio S/N Ratio	40dB
Aspect Material	Acryl
Display	7 Inch Digital Wide Screen LCD(LED Backlight)
Resolution	1440(H)X234(V)
Monitor on time	Stanby : 30sec Auto off : 60sec
Users Control	Ring sound volume;Receive sound volume
Operating Temperature	0 ~ 40 °C
Storage Temperature	-20 ~ 60 °C

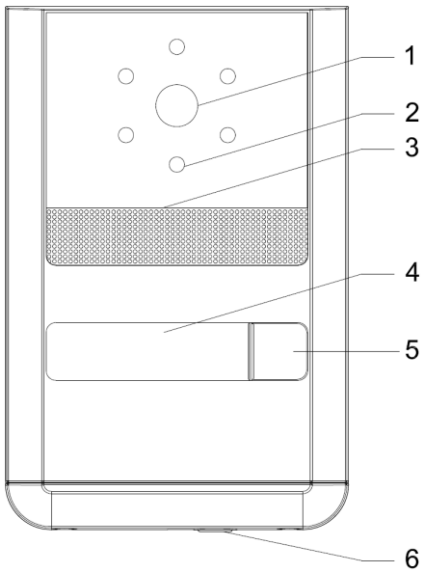
Outdoor Unit (NVC-9102B1)	Specifications
Dimensions	90[W] x135[H] x 30 [D] mm
Weight	0.5Kg(W/rain shield)
Input Power	DC12V from monitor
Power Consumption	Max 3W
Aspect Material	Zinc Alloy Die Casting with painting finish
Wiring	Monitor:2wires Door lock:2Wires
Image sensor	1/3" Colour Sony Super HAD CCD Camera
TV system	PAL
Resolution	420 TV Lines
Video output	Composite video signal 1Vp-p at 75ohm terminated
No. of pixels	290,000.pixels
Iris	Electronic auto iris
Lighting	White LED
Viewing Angle	Diagonal:90° horizontal:57.8° vertical:48.6°
Lens	3.7mm flat pin hole lens
Min. Illumination	0.5Lux
Door lock	2 terminals with DC power output max 12V 1.0A
Mounting type	Surface mount
Operating Temperature	-1 0°C ~ 50°C(14°F ~ 122°F)
Storage Temperature	-20°C ~ 60°C

**Indoor unit**



- 1. Monitor screen
- 2. Talk on/Talk off (Monitor off) and Intercom(Monitor Standby Mode)
- 3. Door Open
- 4. Camera 1/ Camera 2
- 5. Gate Open
- 6. Microphone
- 7. Menu Select(Brightness,Contrast,Color)
- 8. Down
- 9. Up
- 10. Ring Sound volume

**Outdoor unit**



- 1. Camera lens
- 2. White LEDs for night vision
- 3. Speaker
- 4. Name Plate
- 5. Call Button
- 6. Microphone

## **Safety Instructions**

1. Do not install near other electronic equipment such as computers,TV,video recorder as this may cause radiated interference to the unit.
2. Do not disassemble the unit.
3. Do not spray water on the indoor unit. Do not keep the outdoor unit where it will be exposed to extreme moisture.
4. Do not overload mains wall outlets or extension cords.
5. Do not drop or shock the unit.
6. Remove the power cord from the wall socket when unit is not used for long periods.
7. Do not place any naked flames (e.g. lighted candles) on the apparatus.
8. Do not place objects filled with water (e.g. vases) on the apparatus.
9. Do not cover the ventilation holes with clothing, paper, curtains etc.
10. This apparatus is designed for moderate climates. Do not use in high humidity, dusty or dirty areas.
11. To disconnect or isolate the unit, switch off at the socket or remove plug from wall socket. Please ensure the plug and socket is easily accessible.

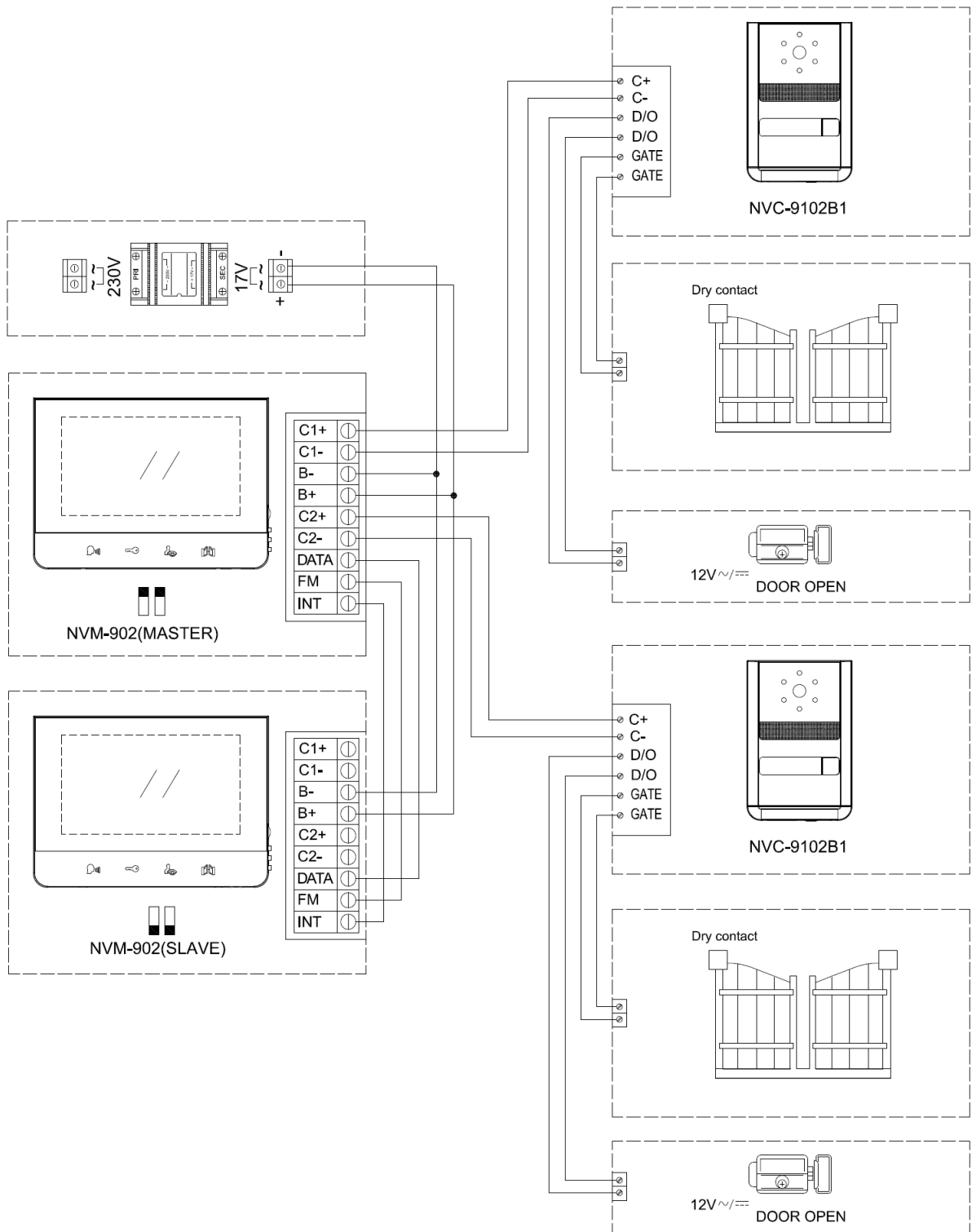
## **Warnings**

1. Do not install the outdoor unit where it will be exposed to direct sunlight or any strong reflected light. Avoid extremely bright locations for the indoor unit as the monitor screen image will be adversely affected.
2. Do not install the outdoor unit where it will be subjected to extremes of dust or moisture.
3. Do not install the outdoor unit where it will be exposed to rain.
4. Do not install near acid oxides, ammonia, or any harmful gas (it might cause malfunction).
5. Do not install the outdoor unit in a location where the lens filter is likely to get scratched or very dusty.
6. Check cables are connected correctly and camera unit is firmly installed.

## **Assembly instructions**

# WIRING DIAGRAM

## ONE-FAMILY SYSTEM WITH ONE MONITOR AND ONE CAMERA

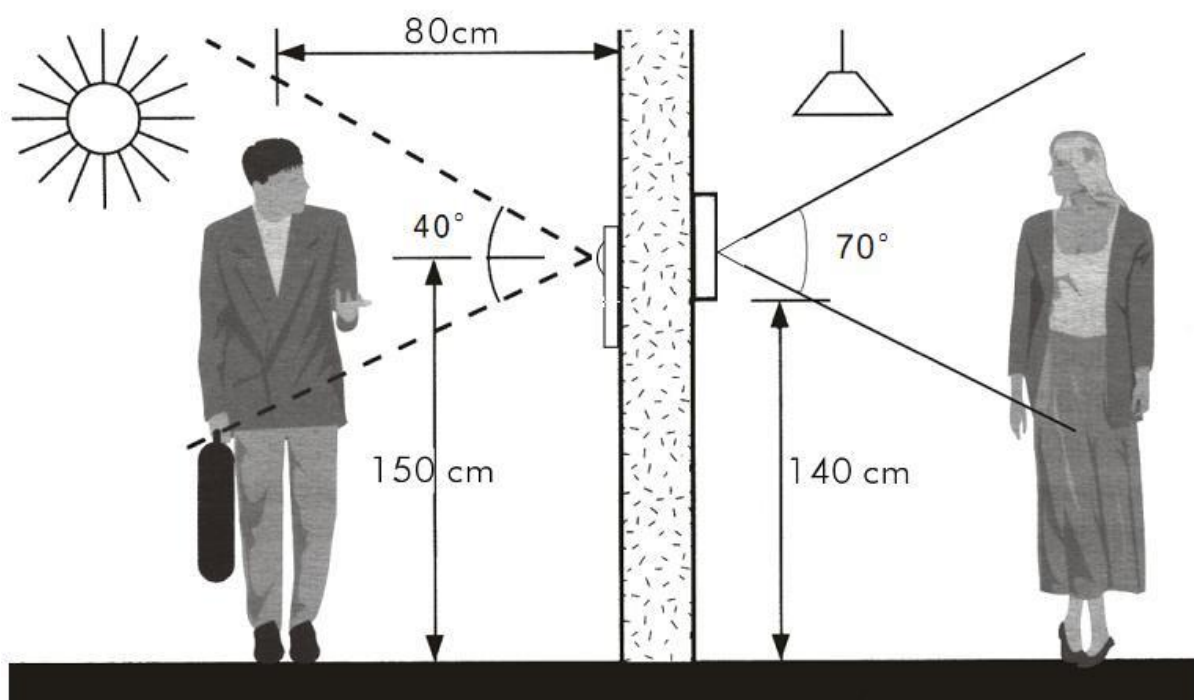


## A) Cable connection

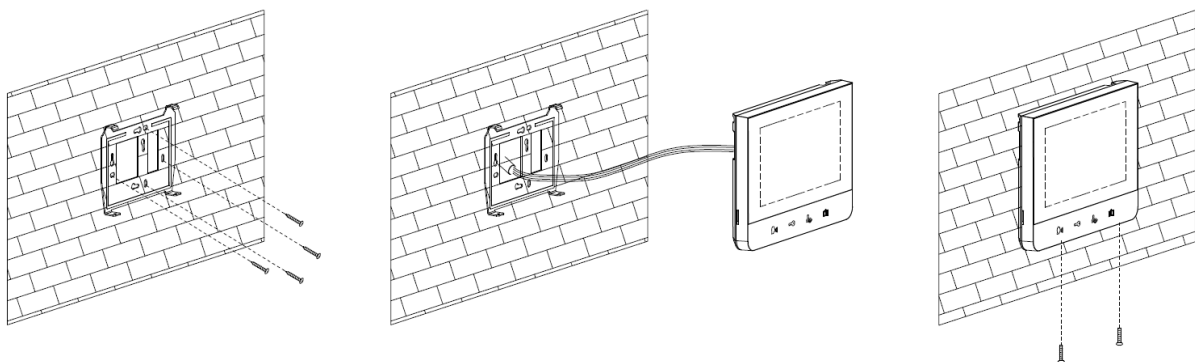
1. Connect the monitor to the camera with the cable according to the wiring diagram.
2. Carefully insert the wires to the terminal by pressing down the terminal flap with any small tool taking care that the 2 bare wires do not touch.

## B) Installation height

1. Recommended installation height is approximately 140cm for monitor unit and 150cm for outdoor camera.



## C) Installation of indoor monitor



1. Fix the wall mounting bracket in the best place by using 4 screws and plugs.
2. Carefully place the indoor monitor against the bracket and gently push down the monitor so that the pins on the bracket engage in the slots on the rear of the monitor.
3. Secure the assembly with the 2 screws.

⚠ Only after having connected the roadside panel, connect the 230 V~ power supply to the adapter.

⚠ Make sure the power supply polarity is correct.

## D) Installation of outdoor camera

2 settings are accessible in the roadside panel:

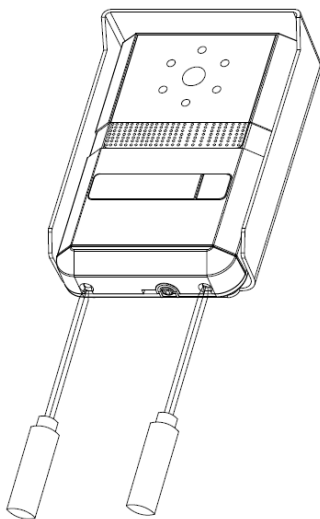
On the upper left side, setting of the sound level for the speaker of the roadside panel.

On the upper right side, setting of the sound level for the speaker of the monitor.

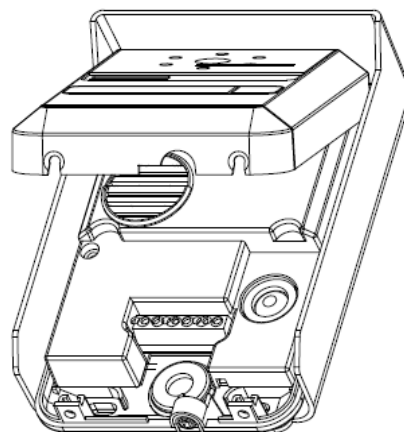
To change the settings, use a small screwdriver and turn it carefully without force to the abutments.

### Add the name to the nameplate

- 1) Remove the front cover with screwdriver (Fig. A & B)
- 2) Remove the holder of the name plate with small screwdriver. (Fig. C & D )
- 3) The name plate is now accessible (Fig. E)
- 4) Mark your name on the plate (Fig. E)
- 5) Place the name plate holder back to the panel (Fig. F)

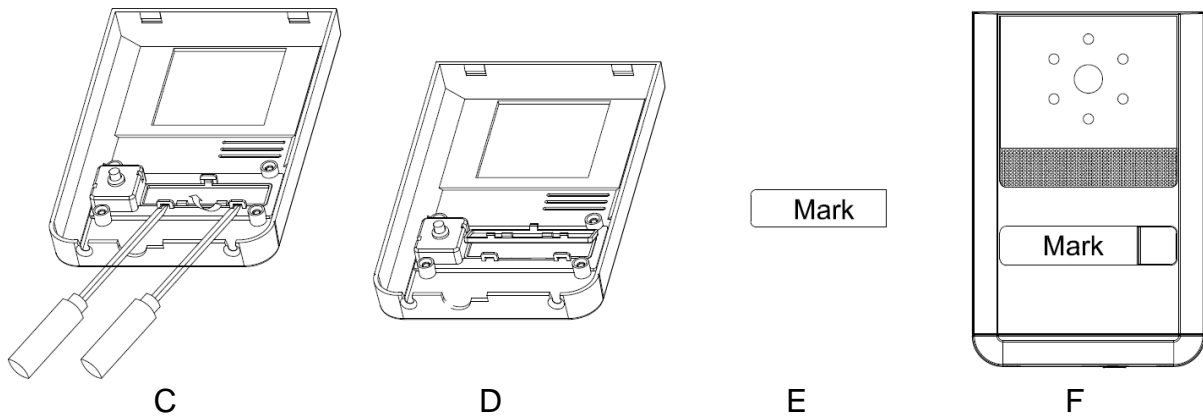


A



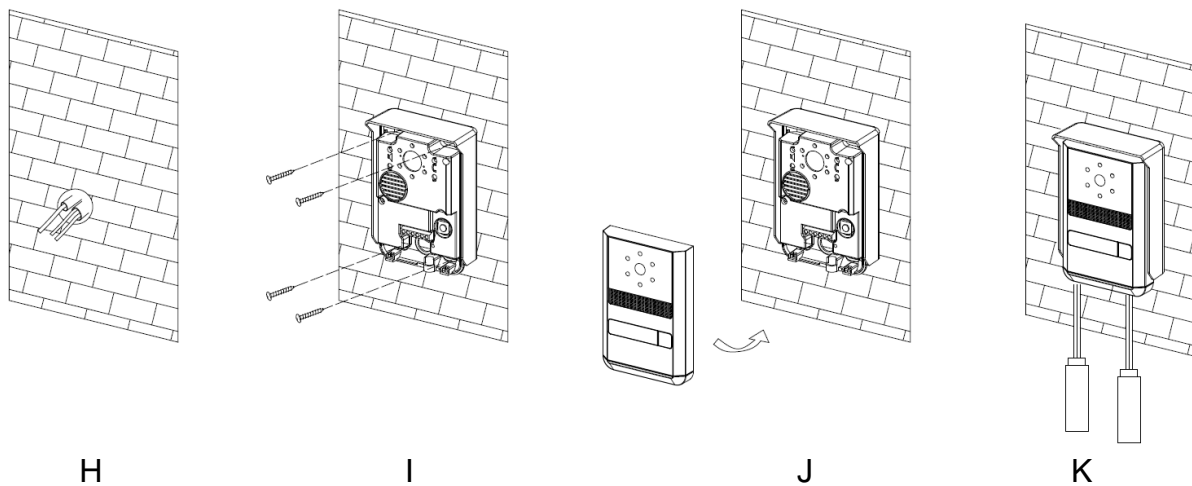
B





### Mounting the camera

- 1) Mount the outdoor unit on the wall by using 4 mounting screws and wall plugs. (Fig. H & I)
- 2) Replace the front cover and security it by replacing the 2 screws at the bottom of the camera. (Fig. J & K)



- ⚠ Important: Do not put screws into the microphone hole.
- ⚠ Important: Do not point the video camera directly at the sun or at reflecting surfaces.

Tip: we recommend passing the cables through a protective sleeve to shield them from impacts and the weather.

### E) Installation of the transformer


Attach the transformer to a DIN rail in a modular fusebox or to a flat surface using the two black lugs clipped to the sides of the power supply.

## Performance Settings




You can adjust the brightness, contrast and colour of the monitor when it is ON by pressing the Menu button at the side of the monitor.

Press the Menu button then the brightness, contract and colour indication will appear. To select the indication by pressing the Up and Down buttons, then press the Menu button to confirm the selection and then press the Up and Down buttons to adjust. Finally, press the Menu button to confirm the setting.


## Operating Instructions


 Important: The touch keys must be handled by slightly touching with the fingers.

### 1. Activation of units

When the call button on the outside camera unit is pressed, the indoor unit chime rings and the visitor's picture will appear on the indoor monitor. After the visitor is visually identified, and you wish to talk with the visitor, touch the  button. The unit will remain activated for approximately 60 seconds before it automatically shuts off. To re-activate for continued conversation, touch the  button and then touch the  button.

### 2. Activation of outside unit from monitor unit

- a) Touch the  button of the indoor unit at any time and the outdoor camera will be activated and show the outside view.
- b) If you have installed two cameras, touch this button to change from camera one to another.




If you press twice the button  that the camera is not connected, you have a black screen and a noisy sound. After 1 second, the video of the main camera reappears.

### 3. Working time

- a) Call time: Approximately 30 seconds  
The picture terminates automatically if indoor unit is not answered within approximately 30 seconds after the call button of the outdoor camera unit is touched.
- b) Talk time: Approximately 60 seconds  
When monitor unit is called by the outdoor unit and the monitor is answered, there is approximately 60 seconds of time available before the unit automatically shuts off.
- c) Monitor time: Approximately 30 seconds  
When outside camera is activated from the inside, there is approximately 30 seconds of viewing time before the unit automatically shuts off.

#### 4. Activation of “Intercom” button


An intercom calling can be started by any indoor monitor when it is on standby mode.

When the intercom button  on one indoor monitor is touched, this will ring all monitors in a system, you can talk with the one calling monitor by touching the  button on the second monitor, touch  for shutting off. There is approximately 60 seconds of time before the unit automatically shuts off.

#### 5. Activation of button

Door open:

If an electrical lock or door strike is added to the installation, connect it to the terminals at the back of the roadside panel.

If you want to open the door to let the caller in, just touch the  button on the indoor monitor.


This function can only be used when the screen is switched on. It is normal that the image switches off one moment following the control of the door open.

Important: It is essential that the electric latch or lock installed has a mechanical memory.

#### 6. Activation of button




Gate open:

Connect the automatic gate opener directly to the terminals at the back of the roadside panel which supplies a current-free “dry” contact to connect to the “push button” control of your automatic gate opener.



If you want to open the gate to let the caller in, just touch the  button on the indoor monitor.

This function can only be used when the screen is switched on. It is normal that the image switches off one moment following the control of the gate opener.

#### 7. Change the melody

At standby mode, touch the  button, you can hear the melody. Then touch  to choose target melody. There are 4 melodies available. To confirm melody you have chosen, touch  button.

#### 8. Mute on/Mute off

At standby mode, touch  button, the pictogram  shifts from blue to red. When the monitor's status is Mute on, there will be no melody, while other functions will be normal.

To reactivate the ring tone, touch  button, the pictogram  shifts from red to blue.

## Care and Maintenance

- Do not store in hot or cold areas. Extreme hot or cold temperatures can shorten the life of electronic devices and can distort/melt certain plastics or may cause malfunction.
- Dropping can result in failure to operate. Circuit boards can crack and may not survive the impact.
- Do not use or store in areas of high levels of dirt or dust. The electronics may be contaminated. Any moving parts will wear prematurely.
- Do not use harsh chemicals, cleaning solvents or strong detergents. To clean, wipe with a damp cloth from time to time.

## Troubleshooting

No	Problem	Check point
1	No power (no picture on monitor)	➤ Is the power supply connected correctly?
2	Power is on, but no picture on the monitor	➤ Is the cable firmly connected between the monitor and the camera? ➤ Is the polarity of wires correct between the outdoor camera unit and indoor monitor unit?
3	The picture is too dark or white	➤ Adjust brightness control
4	Chime sound is too low	➤ Adjust the volume control

## Environmental Protection

- Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

