# OPERATING INSTRUCTIONS

# VIDEO DOOR INTERCOM
**S 9406A** Base Station and Camera System
**S 9407** Additional Base Station
**S 9409A** Additional Camera Unit

## Table Of Contents

## Notice: Read the following instructions carefully before use.

• When you use the system for the first time, you must press the call button on the outdoor camera first, otherwise the indoor monitor can not detect the outdoor camera.
• If the cabling configuration is incorrect it may damage the doorphone.  Please read this manual carefully
• The indoor base station must be kept away from rain, moisture.
• Don't dismantle the product. There are no user servicable parts inside. For repair, return to your place of purchase.

**Included in the box (S 9406A full system):**
• Indoor base station
• Outdoor camera
• Mounting bracket
• Mounting hardware
• Power supply
• 4-wire cable (20m)

**NOTE:** If you have purchased the S 9407 additional base station, an outdoor camera is not included.
If you have purchased S 9409A additional outdoor camera, the base station and power supply are not included. SD Card and/or USB Memory stick are essential to the unit's operation but are not included.

## Overview
An ultra modern and stylish video intercom system featuring a colour 7" (18cm) TFT LCD screen. The all-weather diecast aluminium door station features an LED for night time illumination. The hands-free LCD base unit monitor enables intercom with the person at the door station, surveillance and activation of door release solenoids.

The indoor base station is also equipped with mini USB and SD card slots. These slots are used to connect storage media devices that can be used to record photos of your visitors when they press the doorbell or call button. These devices may also be used to playback music, videos or photo slideshows. For ease of use and effective operation, it is recommended that an SD Card remain inserted at all times in the primary base station and any additional base station monitors. The unit has a mini USB A-type socket. To use a USB stick or a hard drive unit on which to store images and music and movies, you need to purchase an appropriate adapter.(Refer to page 15)

The system may be expanded to include four LCD screens and two outdoor camera units for use in homes or offices with more than one entrance. A call at a door station can be answered from any of the LCD monitor base stations.

For instructions on how to add extra base station video monitors (S 9409A) and outdoor cameras (S 9407), refer to page 5.

## Features
• Photo snapshot of visitors stored on SD Card or USB Memory Stick

• Adjustable brightness, contrast, colour and volume.

• Calendar and clock.

• Easy to install yourself.

• Movie playback.

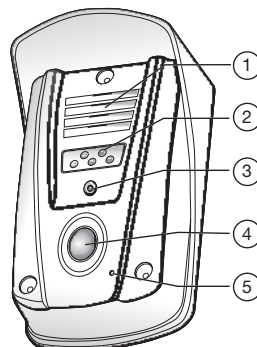• Music playback.

• Photo slideshows.
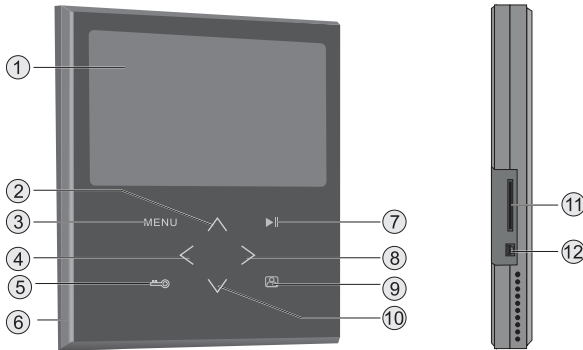
## Figure 1. Base Station

**1. Screen:** Used for displaying an image of your visitors, playback of movies and photo slideshows.

**2. Up Button:** Used to scroll through files on SD Card or USB.

**3. Menu Button:** Press this button to enter menu setting. In sub-menus press this button to exit.

**4. Left Button:** When playing from USB or SD card this reduces the volume.

**5. Unlock Button:** Press this button to operate the optional door strike to let your visitors in.

**6. Speaker Button:** Chime "Ding Dong" sound.

**7. Player/Pause Button:** Press to pause playback, to resume to normal playback press again.

**8. Right Button:** When playing from the USB or SD card this increases the volume.

**9. Monitor Button:** When a visitor presses the call button on the outdoor camera, press this button to speak to the visitor. In standby mode, press this button and the screen will display the picture outside the door for a few seconds and store the image in the Monitor memory. Press and hold for 3 seconds to turn the monitor off or on.

**10. Down Button:** Used to scroll through files on SD Card or USB.

**11. SD card slot:** Insert SD card to store photos and files or play the files (photo, music, video).

**12. USB slot:** Insert USB memory stick to store photos and files or play the files (photos, music, video) Adapters **P1891** and **P1932** required.

**Note:** The arrow buttons (numbered 2, 4, 8, and 10 on the base station monitor) act like cursor keys to navigate through and/or alter the various functions and settings within each of the main menu options. This is in addition to allowing a user to scroll through a photo or music or movie file directory on storage media. SD Card and/or USB Memory Stick are essential for **S 9406A** operation (Not included).
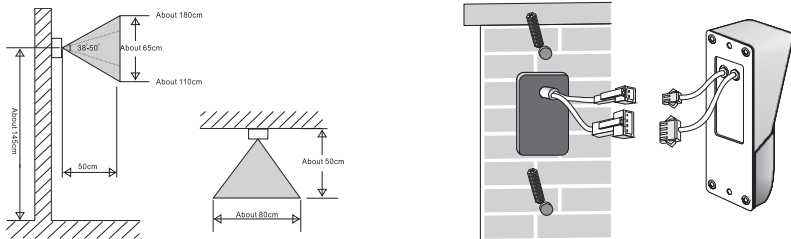
## Figure 2. Outdoor Camera

**1. Loudspeaker:** Allows you to communicate with visitors.

**2. Infra-red LED:** Provides night time illumination over a short distance.

**3. Camera:** Relays live video to the indoor base station

**4. Call button:** Press to sound indoor chime and activate indoor base station.

**5. Microphone:** Allows visitors to communicate with you.

## Figure 3. Base Station Installation

Depend on user's height
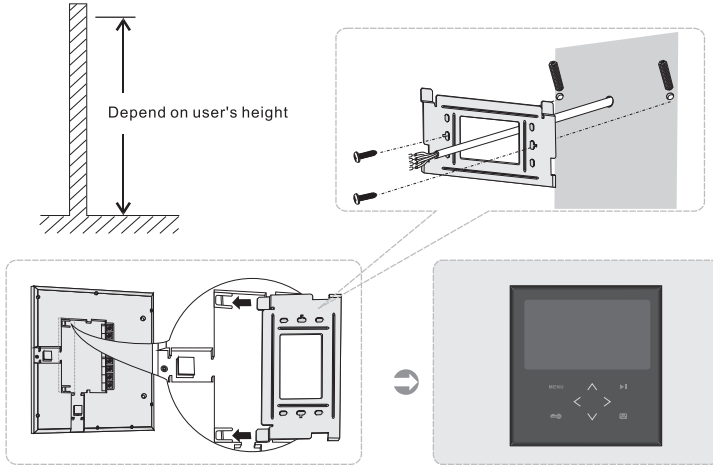
## Figure 4. Camera Installation

About 180cm
About 65cm
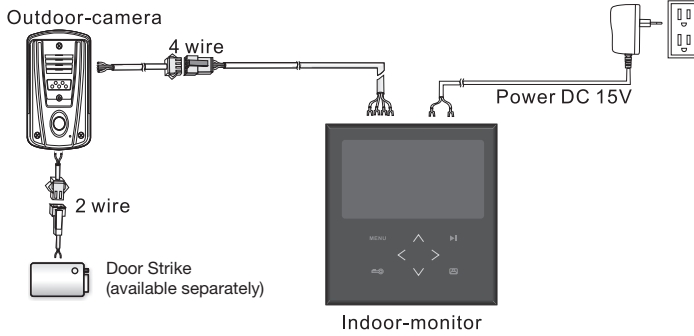38-50°
About 110cm
About 145cm
50cm
About 50cm
About 80cm

# Installation

1. Determine the mounting locations for both outdoor camera and base station using the diagrams above.  To ensure people are within view when the camera is mounted, bear in mind the camera's viewing angle. The typical wall mounting height is 1450mm. Ensure you are satisfied with the viewing position of the camera and base station before drilling any holes in your wall.
2. At the selected base station mounting location, attach the mounting bracket to the wall securely using the template and hardware provided. In the centre of the bracket, drill a hole for the electrical and camera signal wiring.
3. Connect the wiring between the base station and camera as per diagrams.
4. Slide the base station against the mounting bracket until the hooks on the bracket secure the unit in place.
5. Switch on AC power to the unit.
6. Insert SD Card or USB Memory Stick (use **P1891** and **P1932**) into appropriate slot. Without either of these storage media connected, the device cannot function. i.e. store and retrieve photos.
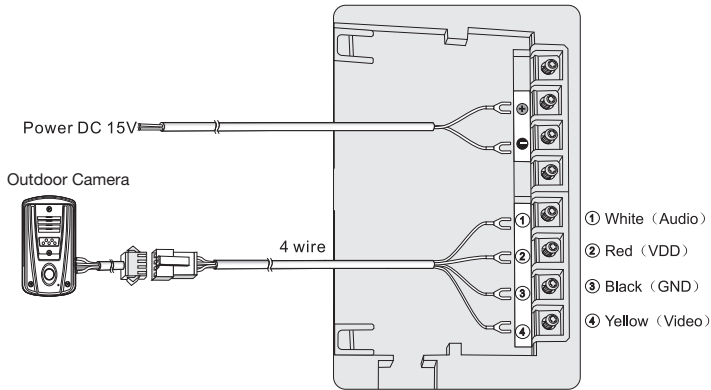
**Important mounting guidelines:** Do not install the monitor and camera units where they will be exposed to dirt, moisture, excessive humidity, temperature (+40°C) or constant direct sunlight. Do not select a location where it will be exposed to vibration.  Select a location close to an AC power outlet where it is easy to view the screen and operate the monitor.
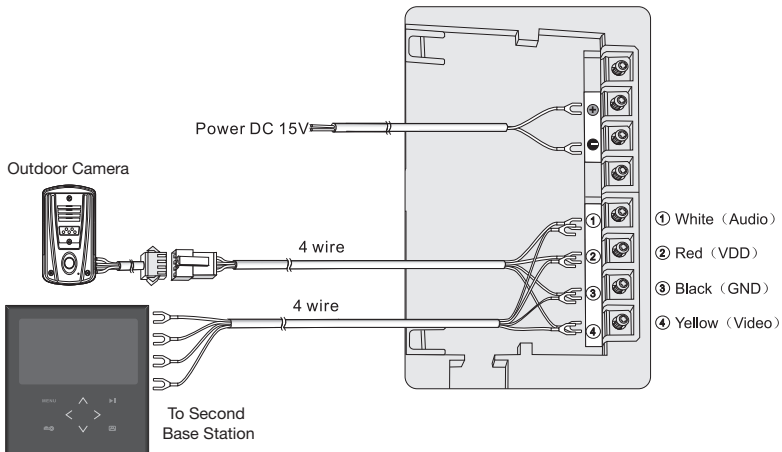
## Figure 5. Connections between camera, base station, power and door strike.

Outdoor-camera

4 wire

Power DC 15V

2 wire

Door Strike
(available separately)

MENU

Indoor-monitor

## Figure 6. Rear connection panel on base station.

Power DC 15V

Outdoor Camera

4 wire

① White（Audio）

② Red（VDD）

③ Black（GND）

④ Yellow（Video）

## Figure 7. Connecting a second base station

Power DC 15V

Outdoor Camera

4 wire

4 wire

① White（Audio）

② Red（VDD）

③ Black（GND）

④ Yellow（Video）

MENU

To Second
Base Station

## Cabling Requirements

Follow figures 5 and 6 when connecting the base station, camera and door strike. Before operation, double check that all connections are correct. Incorrect wiring can damage the base station and camera.

## Adding A Second Base Station

To add another base station monitor (S 9409A), simply use the 4-wire cable supplied with the additional base station(s) to connect the new video monitor in parallel with the existing primary monitor.

Carefully insert the additional 4-wire cable terminals on top of the terminals already fitted into the primary base station rear connection panel (see Fig 7). The same colour wire goes into the same terminal connection, as per the guide printed on the rear panel.

When the door bell is rung, BOTH video monitors chime and BOTH show the camera image of the caller at the door. By pressing the 'MONITOR' button on either base station, the resident inside can speak to the visitor. To avoid audio feedback, keep the base stations well separated. You will also need to connect the power adapter supplied with the additional base station as per Fig 6. You can add up to THREE (3) additional base stations in this manner.

## Adding A Second Outdoor Camera

To add another outdoor camera unit (S 9407), simply connect the 4-wire cable supplied with the accessory to existing base station, as per Figure 6. Carefully insert the terminals from the extra 4-wire cable on top of the other terminals, matching the wire colours to each terminal connection. Then join the camera to the base station by connecting their cables. Only ONE (1) additional outdoor camera can be added to the primary base station in this manner, and only ONE additional unit can be included in any multipl base station system. See figures 8 and 9.

## Adding Both Outdoor Camera And Base Station

To add another base station monitor AND another outdoor camera, follow the procedure outlined above. However, it might make sense to connect the wire and terminals from the extra camera to the second base station, since this monitor should be located closer to the second entry, especially if you also install another optional door strike to the second camera unit.

If the call button is pushed on door camera 2, the chimes will sound on BOTH base stations and the caller's image will be displayed on BOTH monitors. By pressing the 'MONITOR' button on either base station, the resident inside can speak to the visitor. See figures 8 and 9.

WARNING: It is important to ensure that terminals from one connection point do NOT touch the terminals from the adjacent connection points with different coloured wires on the base station rear panel, as this may short circuit the system and lead to a malfunction.

NOTE: When purchasing additional outdoor cameras or base stations for your system, you must buy the S 9407 and S 9409A products. You cannot expand the system using elements of S 9406A. This is because S 9406A is a primary system and is coded as such. Additional cameras and base stations are coded to be slaves.

## Optional Door Strike Connection

This unit will operate with a variety of door strikes. A switched 12V DC output is provided via the camera. These door strikes are designed to have power momentarily applied to them. When the unlock button is pressed 12V will be momentarily applied to the strike for 4-7 seconds allowing the visitor to enter the door. Once power is removed from the strike, it reverts to the locked position. In the event of a power failure, the strike will remain locked.
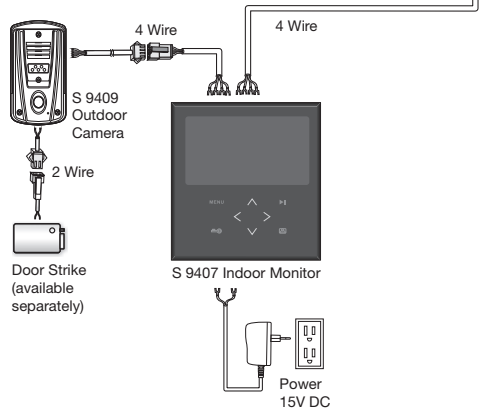
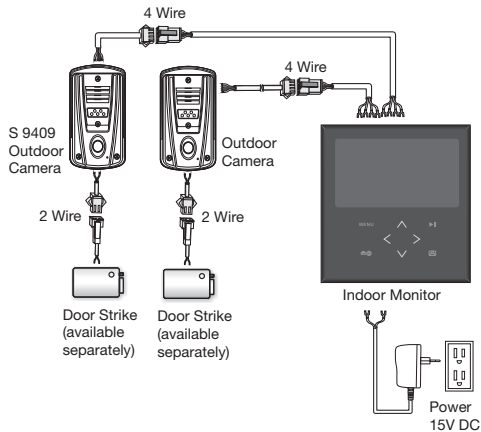## Figure 8. Connecting multiple base stations and cameras.
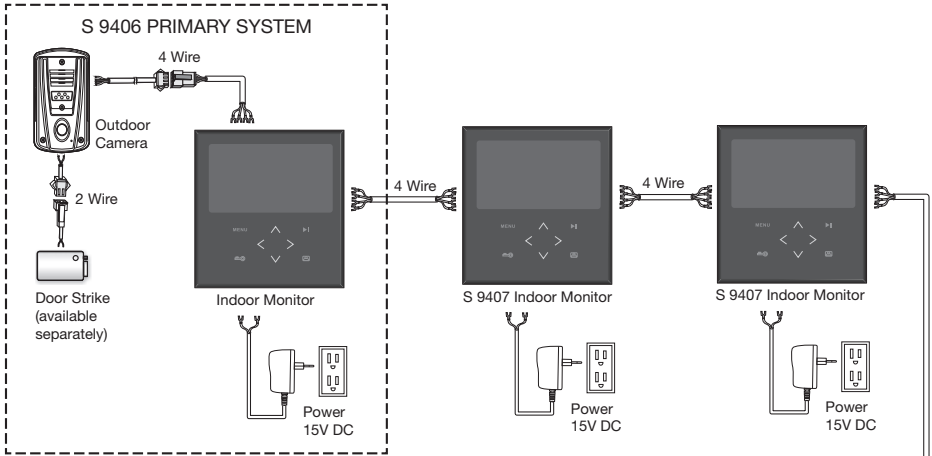


NOTE: A maximum of 4 base stations and 2 cameras total.

Each base station monitor should be placed in different rooms or offices. When a visitor calls at either outdoor camera, all monitors will chime and display the visitors image.

## Figure 9. Connecting multiple cameras to a single base station.

## Using The Doorbell

When someone presses the outdoor camera call button, their image is displayed automatically on the screen, and a photo is taken and stored. To answer and talk to the person outside press [icon] momentarily. This establishes two way, hands free communication.

The screen will automatically switch off after 55 seconds. To cancel the conversation, press [icon]
To open the door press [icon] (note: only available if door strike is fitted).

If you do not want to answer or when you are not in, the screen will close automatically after 20 seconds.

To display the street although no-one has pressed the outdoor camera call button, press [icon] . The screen will auto-matically cancel after 55 seconds.

## Menu Settings

When a visitor presses the CALL button, or when the MONITOR button is pressed on the base station monitor panel, it is possible to alter colour LCD screen settings by simply pressing the MENU button. You can tab through different screen settings to be adjusted by pressing the MENU button again, and again, and using the left or right arrow buttons to change the setting. The available settings in order are: Volume, Brightness, Contrast, and Colour. A yellow bar will appear on screen and show the adjustment as you press the left or right ARROW buttons to a setting that suits your needs.

Note: Adjusting settings from this menu is not the same as doing so from the SETTINGS menu, in that the changes made here will not effect the settings that control the main menu screen's appearance, music, photo, and video play-back. Changing settings in the manner described below only effect how the LCD monitor and audio speaker operate when the call button is pressed.

Volume Adjust: This feature enables you to adjust the volume. The volume variable is 0-16. Press the
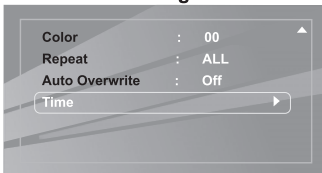[<] or [>] key to increase or decrease the volume.

Brightness Adjustment: This feature enables you to adjust the LCD screen brightness. The brightness variable is -7 to 9. Press the [<] or [>] keys to increase or decrease the brightness.

Contrast Adjustment: This feature enables you to adjust the contrast between light and dark parts of the LCD screen, The contrast variable is -7 to 9. Use the [<] or [>] key to increase or decrease the contrast.

Colour Adjustment: This feature enables you to adjust the colour gradually. The colour variable is -7 to 9. Press the [<] or [>] key to adjust the colour.

## Setting Time and Date

**Time setting**

| Color | : | 00 |
| Repeat | : | ALL |
| Auto Overwrite | : | Off |
| Time | | ▶ |

▶❙

| Color | : | 00 |
| Repeat | : | ALL |
| Auto Overwrite | | Time Format : 24 hour |
| Time | | Time : 01:11:11 |
| | | Date : 12/07/2007 |

Press the (▶❙) (>) key to go into submenu
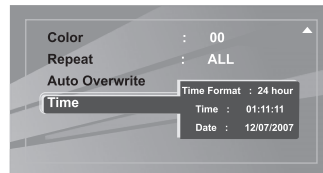
**Time Format Setting**
(▶❙) Select the suitable settings
(∨)(∧) Switch to other submenu
(<) Exit

**Time / Date Setting**
(▶❙) Activated submenu
(>)(<)(∨)(∧) Set the correct number
(∨)(∧) Switch to other submenu
(▶❙) Confirm (<) Exit

## Main Menu Operation

### Settings

**Note:** Adjustments to various parameters made under the Settings menu will only effect music, photo and video playback and the appearance of the main menu and standby screen.  See page 9 for instructions on how to adjust volume, brightness, contrast and colour parameters for the monitor during an actual call at the door

| | | | |
|---|---|---|---|
| Photo | Music | Movie | File |
| Monitor | Device | Settings | Calendar |

Press the key to go into submenu

| JPEG  Auto Play | : ON |
|---|---|
| JPEG Interval | : 10 seconds |
| Transition | : No Transition |
| View Mode | : Auto Fit |
| Brightness | : 00 |
| Contrast | : 00 |
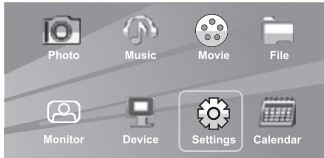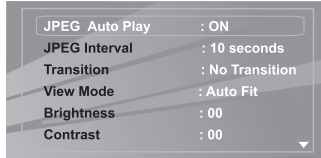
Press the keys

#### JPEG Auto Play

| JPEG  Auto Play | : ON |
|---|---|
| JPEG Interval | : 10 seconds |
| Transition | : No Transition |
| View Mode | : Auto Fit |
| Brightness | : 00 |
| Contrast | : 00 |
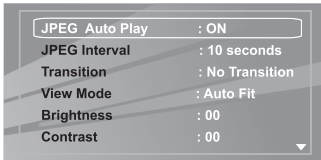
This menu enables you to set whether automatically play photo.

Select on or off

Switch to other submenu

#### JPEG Interval

| JPEG  Auto Play | : ON |
|---|---|
| JPEG Interval | : 10 seconds |
| Transition | : No Transition |
| View Mode | : Auto Fit |
| Brightness | : 00 |
| Contrast | : 00 |
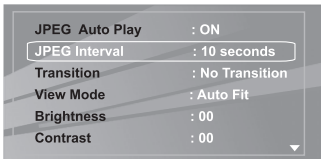
This menu enables you to change the slide show interval time when playing photos, The available settings  5 seconds, 10 seconds and 15 seconds.

Select the suitable settings

Switch to other submenu

#### Transition

| JPEG  Auto Play | : ON |
|---|---|
| JPEG Interval | : 10 seconds |
| Transition | : No Transition |
| View Mode | : Auto Fit |
| Brightness | : 00 |
| Contrast | : 00 |
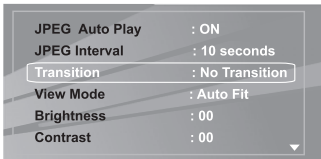
This feature enables you set the picture of the transition way

Select the suitable settings

Switch to other submenu

#### View Mode

| JPEG  Auto Play | : ON |
|---|---|
| JPEG Interval | : 10 seconds |
| Transition | : No Transition |
| View Mode | : Auto Fit |
| Brightness | : 00 |
| Contrast | : 00 |
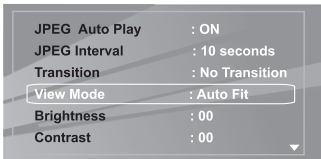
This feature enables you set the picture shows the model

Select the suitable settings

Switch to other submenu

### Brightness adjustment

| JPEG  Auto Play | : ON |
|---|---|
| JPEG Interval | : 10 seconds |
| Transition | : No Transition |
| View Mode | : Auto Fit |
| Brightness | : 00 |
| Contrast | : 00 |
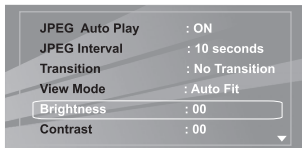
This feature enables you to adjust the LCD screen brightness. The brightness is variable between -7 to 7

Set the brightness grade

Switch to other submenu

### Contrast adjustment

| JPEG  Auto Play | : ON |
|---|---|
| JPEG Interval | : 10 seconds |
| Transition | : No Transition |
| View Mode | : Auto Fit |
| Brightness | : 00 |
| Contrast | : 00 |
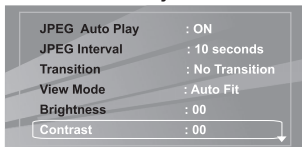
This feature enables you to adjust the LCD screen contrast. The contrast is variable between -7 to 7

Set the contrast grade

Switch to other submenu.

### Color

| Color | : | 00 |
|---|---|---|
| Repeat | : | ALL |
| Auto Overwrite | : | Off |
| Time | | |
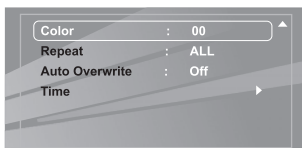
This feature enables you to adjust the LCD screen color. The color is variable between -7 to 7

Set the color grade

Switch to other submenu.

### Repeat

| Color | : | 00 |
|---|---|---|
| Repeat | : | ALL |
| Auto Overwrite | : | Off |
| Time | | |
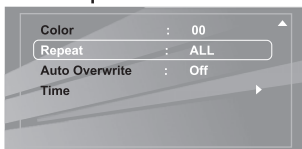
This feature enables you set the repeat play of files.

Select the suitable settings

Switch to other submenu

### Auto Overwrite

| Color | : | 00 |
|---|---|---|
| Repeat | : | ALL |
| Auto Overwrite | : | Off |
| Time | | |
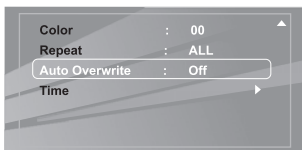
This feature enables you set when the memory card is full, whether the file can be automatically covered

Select on or off

Switch to other submenu

## Device

Photo    Music    Movie    File

Monitor    Device    Settings    Calendar
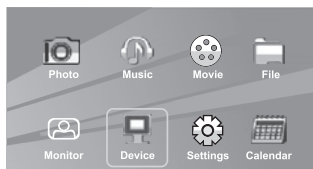
Press the ⏯ key to go into submenu

Press ⟩ ⟨ keys to select device
Press MENU key to return back to the main menu .

**Note:**
**If there is no SD Card or USB Memory Stick inserted into the device, this feature will not work.**

## Monitor Function - Viewing visitor snapshots.

When someone rings the bell or presses the monitor key, it will store a snapshot photo automatically.
The photos are stored in the monitor folder.
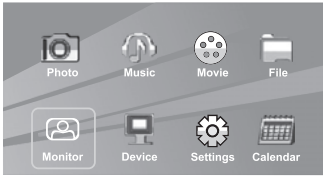
Press the ▶|| key to go into submenu

Press ⌄ ⌃ key to previous /next the file.
Press MENU key to return back to the main menu.
Press > < key to increase or decrease the volume.
Press ▶|| key to go into delete dialog box.
select YES or NO to delete file.

Note: If no files are on the USB stick or SD card and invalid operation message will display.

## Calendar
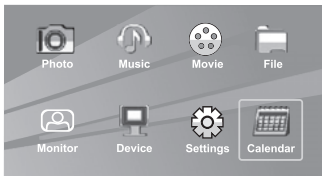
Press the ▶|| key to go into submenu
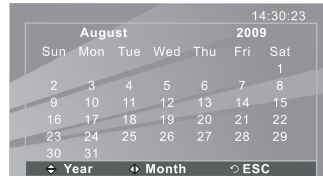
⌄ ⌃  Switch to different year.
> <  Switch to different month.
MENU  Confirm & Exit

## FILES - Search storage media directories
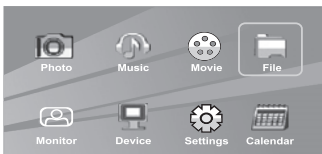
Press the ▶|| key to go into submenu

Press ⌄ ⌃ keys to navigate the folders and files.
Press ▶|| key to play the highlight file.
Press MENU key to return back to the main menu.

Note: If no files are on the USB stick or SD card and invalid operation message will display.

# PHOTO

## Play Photo Slideshow
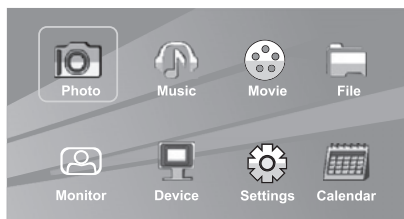
Press the ⟩ ⟨ ⌄ ⌃ button

Press ▶❙ key

Press MENU key
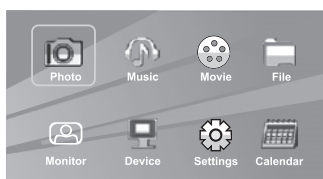
Press ▶❙ key

Press MENU key

Press ⌄ ⌃ key to select previous / next the picture .

Press ⟩ ⟨ key to rotate image

Press ▶❙ key to play or pause the photo

Press MENU key to return back to the photo clips menu

Press ⌄ ⌃ key to navigate each picture file.

Press ▶❙ key to play the picture.

Press MENU return back to the main menu.

My photo
My photo
My photo
My photo
My photo
My photo
My photo

W:1280    H:2559

Note: If no files are on the USB stick or SD card and invalid operation message will display.

# MUSIC

## Play Music

My music
My music
My music
My music
My music
My music
My music

Music Playing

▶❙    Time: 00:00
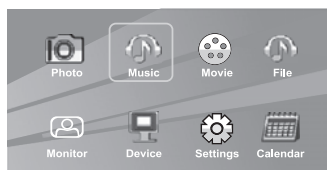
Press the ▶❙ key to play the music .
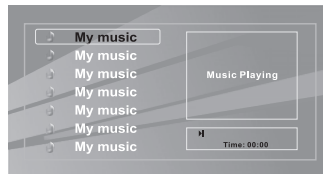
Press ⌄ ⌃ keys to navigate each music file

Press ▶❙ key to  play or pause the music.

Press ⟩ ⟨ key to increase or decrease volume .

Press MENU key to stop the music.

Note: If no files are on the USB stick or SD card and invalid operation message will display.

## MOVIE

**Play Video**

Photo    Music    Movie    File

Monitor    Device    Settings    Calendar

Press ⏯ key                                    Press MENU key

Press ⏯ key
Press MENU key

My movie
My movie
My movie
My movie
My movie
My movie
My movie

Press ⌄ ⌃ key to select previous /next the movie .
Press ⟩ ⟨ key to increase or decrease volume .
Press ⏯ key to play or pause the movie
Press MENU key to return back to the movie clips menu

Press ⌄ ⌃ key to navigate each movie file .
Press ⏯ key to play the movie.
Press MENU return back to the main menu.

Note: If no files are on the USB stick or SD card and invalid operation message will display.

# Troubleshooting

**The monitor will not switch on:**
Ensure the monitor is correctly plugged in to the power. Make sure the adaptor plug is properly pushed into the power outlet.

**The monitor is switched on but no image is displayed:**
Check the wire connections between the camera and the monitor. Adjust brightness and contrast in the MENU.

**Poor picture quality:**
Adjust brightness and contrast in the MENU. Make sure there is no direct light preventing you from seeing the monitor image. Check the orientation of the camera (no back lighting etc.).

**Door chime volume too low:**
Adjust the volume in the MENU

**Door strike does not work:**
Check the connections between the door strike and the camera. Refer to the door strike instructions.

Check the door strike is suitable for  12V 0.5A switching output. The door strike must only open when voltage is applied, other configurations (such as door strikes which are constantly powered) are not suitable. If this is not the case you must change the door strike to an Altronics S 5385 or S 5387.

**Interference on the line:**
The base station may be picking up interference from other electronic devices located around it. Move the base station or the other electronic devices to another location.

**No audio between camera and base station:**
Ensure the microphone on the camera is not obstructed.
Check audio connection between camera and base station.

## Specifications

### Indoor base station (LCD monitor)

Supply voltage: ....................................................................................................................15V 1.0A Ripple <80mVp-p

Current consumption: .......................................................................................................................... 520mA + 100mA

Operating temperature: ............................................................................................................................-10°V - +50°C

Operating humidity: ......................................................................................................................................85% MAX

Signal output: ....................................................................................................Built in stereo speakers (1 watts x 2ch)

Screen size: ...........................................................................................................................................7" (diagonal)

Card type: ..................................................................................................................................SD/MMC/USB mini

Movie/photo files: ..........................................................JPEG, MP3/WMA, VOB, MPEG1, AVI, XVID, DIVX4.x, DIVX5.X

Colour configuration: .....................................................................................................................................RGB.delta

Video system: ...............................................................................................................................................PAL/NTSC

External dimensions: .........................................................................................197(L) x 187 (W) x 20 (H) mm

### Outdoor camera

Current consumption: ..............................................................................................................................................<300mA

Camera angle: ........................................................................................................................................................≈50°

LED illumination: .....................................................................................................................................................Yes

Operating temperature:.................................................................................................................................-20°C to 50°C

External dimensions:..............................................................................................122(L) x 73 (W) x 44 (H) mm

### Optional accessories

**S 9407** Additional base station

**S 9409A** Additional outdoor camera

**S 5385 or S 5387** Optional door strike

**DA0320** SD Card 4Gb (Larger capacity cards available)

**D 0400A** USB 2.0 Memory stick 4Gb (Larger capacity sticks available)

**P 1891** USB A Male to USB Mini adaptor cable 1 metre

**P 1932** USB A Female-Female adaptor

**Note:**

Both **P 1891** and **P 1932** are required for connection of USB Memory stick or HDD

## VIDEO DOOR INTERCOM SYSTEM

Altronic Distributors warrants this product for one year from date of purchase from Altronics or its resellers to the consumer. If this item is part of an installation or another product, please contact the installer or supplier for your warranty.

During the warranty period, we undertake to repair or replace your product at no charge if found to be defective due to a manufacturing fault. The warranty excludes damage by misuse or incorrect installation (i.e. failure to install and operate device according to specifications in the supplied instruction manual), neglect, shipping accident, or no fault found, nor by use in a way or manner not intended by the supplier.

For repair or service please contact your **PLACE OF PURCHASE.**

If this item was **purchased directly from Altronics** please make a warranty claim by:
1. FOR MAIL ORDER CUSTOMERS (includes school and trade orders),
   a) Ringing us on 1300 797 007 and quoting your tax invoice number.
   b) Upon contacting Altronics, we will issue an R.A. (Return Authorisation). As Altronics have a number of service agents throughout Australia, a copy of the R.A. will be emailed, faxed or mailed to you with full instructions of how and where to send the goods. The freight for shipping goods back to Altronics for all repairs is at the customers expense.
   c) A copy of the R.A. form, (or at the very minimum, the R.A. number) must accompany the goods to effect the repair.
   d) Altronics will pay the return freight to the customer where the warranty claim has been accepted.
   e) Please quote the R.A. number in any correspondence to us.

2. FOR OVER THE COUNTER PURCHASES to make a warranty claim, please return the goods to us in any of our stores, with a copy of your proof of purchase (tax invoice).
   a) Upon leaving the goods at one of our stores, an R.A. number will be issued to you.
   b) Once repaired, you will be contacted, advising that the goods are ready to be collected from the store.

It is at Altronics discretion as to whether the goods will be repaired or replaced (whilst under warranty); and as to whether identical goods will be used to replace the item due to changes of models / products.

Note: Under no circumstances should you attempt to repair the device yourself or via a non-authorised Altronics service centre, as this will invalidate the warranty!

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

**NOT FIELD SERVICEABLE.**
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