





Product Familiarisation

1	Lens Housing
2	Camera Cable
3	Cable Plug
4	Cable Socket
5	LCD Screen
6	Power Indicator Light
7	Flexi-Cover
8	Mini USB Port
9	Micro SD Card Slot
10	Video Out Socket
The Controls:	
11	OK – for making a selection
12	MENU – for system setting mode
13	On/Off
14	Delete/Magnify
15	Playback
16	Record Video
17	Take a Photo
18	Increase & Navigation Button
19	Decrease & Navigation Button
Cables & Accessories:	
20	USB Cable
21	Video Cable
22	Magnet
23	Hook
24	Mirror
25	Accessory Fixing Ring

Unpacking Your Tool

- Carefully unpack and inspect your tool. Fully familiarise yourself with all its features and functions
- Ensure that all parts of the tool are present and in good condition. If any parts are missing or damaged, have such parts replaced before attempting to use this tool

Preparation

Installing batteries

- This product requires 4 x AA batteries (not supplied). The battery compartment is accessed from the back of the unit
 1. Remove the battery compartment cover
 2. Insert batteries, in accordance with the polarity indicated in each battery slot
 3. Refit the battery compartment cover

NOTE: A battery status icon, in the top left hand corner of the LCD Screen (5), displays the current capacity of the batteries. When necessary, replace all four batteries in the unit with new ones; do not replace just one or two

Attaching the camera cable

- The flexible Camera Cable (2) is supplied attached to the main unit and may be stored in this way in the carry case supplied. To remove the cable:
 1. Rotate the knurled grip on the Cable Socket (4) anticlockwise until it is fully undone
 2. Pull the Cable Plug (3) away from the socket
- To attach the cable:
 1. Align the keyed end of the Cable Plug (3) with the slot in the Cable Socket (4) and push the cable plug into the socket. See Fig. A
 2. Rotate the knurled grip of the cable socket clockwise to secure the cable in place

Attaching the camera accessories

- Three accessories are supplied for use with the camera: a Magnet (22), Hook (23), and Mirror (24)
- The hook and magnet can be used to retrieve small items, such as dropped rings or screws
- They all attach in the same way:
 1. Place the shaft of an accessory through the Accessory Fixing Ring (25)
 2. Locate the hook at the end of the shaft of the accessory in the small hole in the side of the Lens Housing (1)
 3. Align the shaft of the accessory with the channel running along the inside of the fixing ring, then push the fixing ring onto the lens housing. See Fig B

Inserting an Micro SD card

- Insert a micro SD card (not supplied) to record video and take pictures
 1. Open the Flexi-Cover (7) to access the micro SD Card Slot (9)
 2. Insert your card into the card slot
 3. Refit the flexi-cover
- When an micro SD card is inserted correctly, the micro SD card icon  will appear on screen; otherwise the 'No SD icon'  will be displayed
- If the device fails to read the card, the screen displays 'FORMAT TF CARD'

Connecting the USB cable

- Use the USB Cable (20) to connect the device to any PC with a USB port
 1. Open the Flexi-Cover (7) to access the Mini USB Port (8)
 2. Insert the mini USB connector into the mini USB Port
 3. Connect the other end into the USB port on your computer. Your computer should automatically recognise the new hardware; if not, browse to your disk directory

Video output

- The Video Cable (21) enables video output to another screen
- 1. Open the Flexi-Cover (7) to access the Video Out Socket (10)
- 2. Insert the video cable jack into the video out socket
- 3. Insert the other end of the cable into the 'video in' socket of any compatible TV or display device

Operation

Switching On/Off

- To switch on, press and hold the  On/Off Button (13) for approx. 3 seconds. The Power Indicator Light (6) will illuminate and the LCD screen will become viewable
- To switch off, press and hold the on/off button until the screen goes blank and the power indicator light is no longer visible

Using the flexible cable

- The flexible Camera Cable (2) can be bent into almost any shape to circumvent obstacles and gain visual access to confined areas
- Manoeuvre the cable past obstacles; do not apply excessive force

Real-Time Monitoring Mode

You can use the following features in real-time monitoring mode

Zoom

- Press the   Button (14) to zoom in (1.0X, 1.5X, 2.0X, 3.0X). Each press of the button increases magnification until the fourth press returns the display to 1.0X
- The level of magnification is displayed on the right hand side of the screen

LED Brightness control

- Four LEDs surround the camera lens to provide illumination in dark areas. There are five levels of brightness
- 1. To increase brightness, press the  Button (18)
- 2. To reduce brightness, press the  Button (19)
- The level of brightness is displayed on screen when any adjustment is made

Recording video

- Check the micro SD card icon  is displayed on screen. If not, see 'Inserting a micro SD card' above
- 1. Press the  Button (16) to begin recording
- 2. Press the button again to stop recording

Note:

- The video will be automatically saved as an individual file every 30 minutes
- MEMORY FULL is displayed on screen when the micro SD card is full

Taking photos

- Press the  Button (17) to take a photo

Note: You must have a micro SD card inserted to take a photo

Playback Video/Photos

Selecting the required folder for playback

- In real-time monitoring mode, press the  Button (15) to display the list of video/photo folders
- Use the  and  Buttons (18 & 19) to navigate to the required folder and press the **OK** Button (11) to select

Note:

-  next to a file name indicates video
-  next to a file name indicates a photo

Video playback

- Use the  and  Buttons (18 & 19) to navigate to the required video and press the **OK** button to begin playback

PAUSE: Press the **OK** Button (11) to pause, press it again to resume playback

FAST FORWARD: Press and hold the  Button (18) until the playback mode icon on screen changes to 

REWIND: Press and hold the  Button (19) until the playback mode icon on screen changes to 

STOP/EXIT: Press the **MENU** Button (12)

Viewing photos

- Use the  and  Buttons (18 & 19) to navigate to the required photo and press the **OK** or **MENU** button to view
- Press the **OK** or **MENU** button again to exit

Deleting video/photos

- In real-time monitoring mode, press the  Button (15) to display the list of video/photo folders
- Use the  and  Buttons (18 & 19) to toggle to the required folder and press the **OK** Button (11) to select
- Use the  and  Buttons (18 & 19) to select the required file, then press the  (14) to delete
- The confirm delete screen is displayed. Use the  and  Buttons (18 & 19) to toggle between 'Cancel'  and 'Confirm'  and press the **OK** Button (11)

Deleting folders

Use the same method as above for deleting a single file, but use the  and  Buttons (18 & 19) to toggle to the required folder and press the  (14) to delete.

System Setting Mode

- You can change system preferences in SYSTEM SETTING mode
- There are four areas in system setting mode:
 -  System Setting
 -  Date and Time
 -  Recorder Setting
 -  Event Playback

Making selections

In all areas of System Setting Mode use the following method to make selections

- Use the  and  Buttons (18 & 19) to navigate between options
- Press the **OK** Button (11) to select an option
- Press the **MENU** Button (12) to exit any screen

Entering system setting mode

- In real-time monitoring mode, press the **MENU** Button (12) to enter System Setting mode
- By default,  SYSTEM SETTING is highlighted
- Press **OK** (11) to enter SYSTEM SETTING, or navigate to the other options

System Setting

Language setting

- Select  then the flag of the language you require

Selecting video system

- Select  then the video system required, NTSC or PAL
- Note:** NTSC is generally used in the Americas and Japan, PAL in Europe and the rest of the world

Formatting an Micro SD card

- Select  then confirm selection <YES> or <NO>

Note: formatting a card will erase all data on the card

Restore default settings

- This restores the system to its default settings and deletes any changes that may have been made
- Select  then confirm selection <YES> or <NO>

View version information

- Select  to view the version details of your product

Date and Time 

- Use the  and  Buttons (18 & 19) and **OK** Button (11) to set the date and time

Recorder Setting 

- **Fps** Frame rate enables you to set a frame rate, from 5 to 30 frames per second, in 5 second increments
-  Time stamp enables you to add a time stamp to the video

Event Playback 

- In system setting mode you can use the same methods as described earlier for viewing and/or deleting images or video

Maintenance

- Ensure all parts are clean and dry before storage
- Clean with care, using a damp cloth or similar if needed
- Do not immerse any part in water and do not use abrasive cleaning materials

Storage

- Store the product and all accessories in the case supplied, in a dry environment out of the reach of children
- If storing for an extended period, it is recommended that you remove the batteries to prevent possible leakage and damage to the unit

Disposal

- Do not dispose of power tools, or other waste electrical and electronic equipment (WEEE), with household waste
- Contact your local waste disposal authority for information on the correct way to dispose of power tools