

# WIRELESS CAMERA KIT USER GUIDE



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**Warning** Care should be taken when using this equipment to avoid contact with power lines.

The system is not earthed. If mains operated equipment is connected to the system then the external equipment must be earthed.

Do not use the Wireless system in potentially explosive environments. This equipment should be used in conjunction with the relevant risk assessment having taken place.



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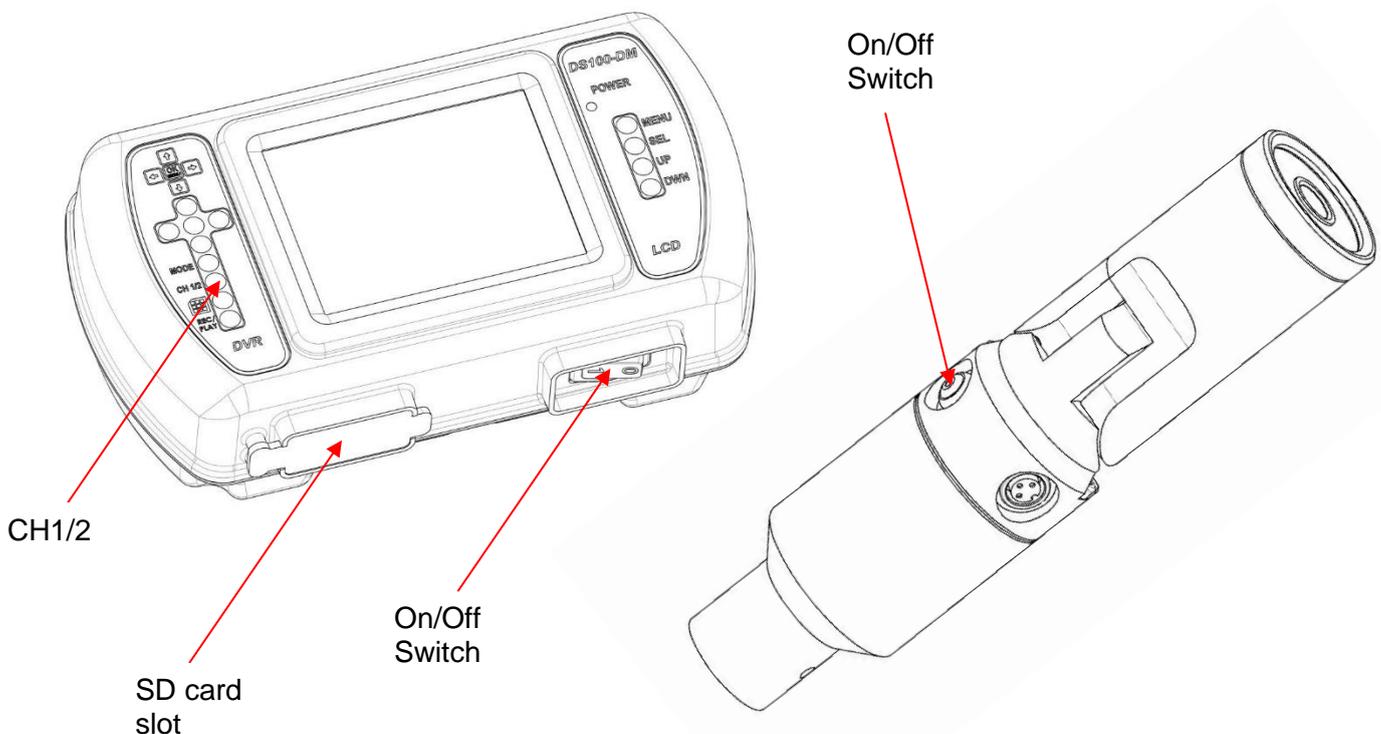
## 1. System Overview

The wireless camera kit consists of a camera assembly housing a video transmitter and monitor assembly that are powered independently by lithium ion battery packs. The DS100-DM builds on the success of the DS100-M now incorporating a wireless video receiver and the ability to display two video channels either in full screen mode or picture in picture.

This Guide should be used in conjunction with the DS100 USER GUIDE which outlines all functions of the monitor except the two channel functionality which will be covered in this guide.

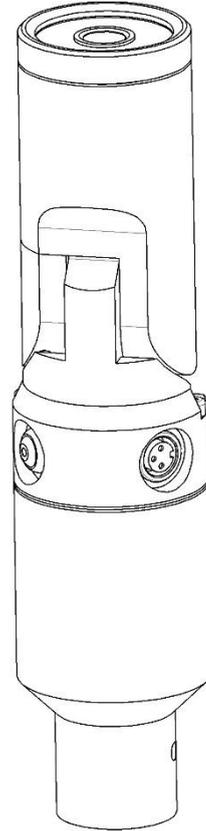
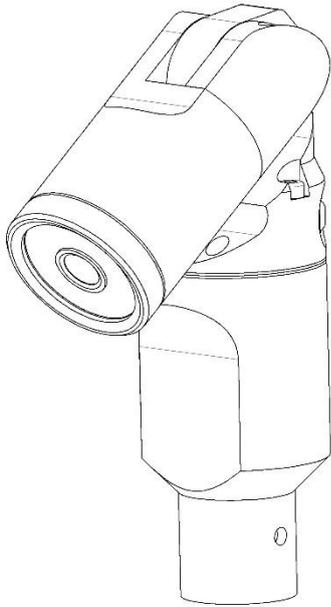
## 2. Quick Start Guide

1. Power on the Monitor and ensure that Channel 2 is selected using the CH1/2 button on the LEFT keypad. (n.b. interference will be displayed until the camera is switched on.)
2. Ensure Camera is fitted securely to the relevant accessory. Power on the Camera, the pushbutton is illuminated when the camera is on.
3. Allow up to 15 seconds for the Camera and Monitor to Synchronise, in this time black banding or half screen may be observed.
4. If recording of video is required then insert an SD card into the Recorder slot and refer to the DS100-M manual for further information.



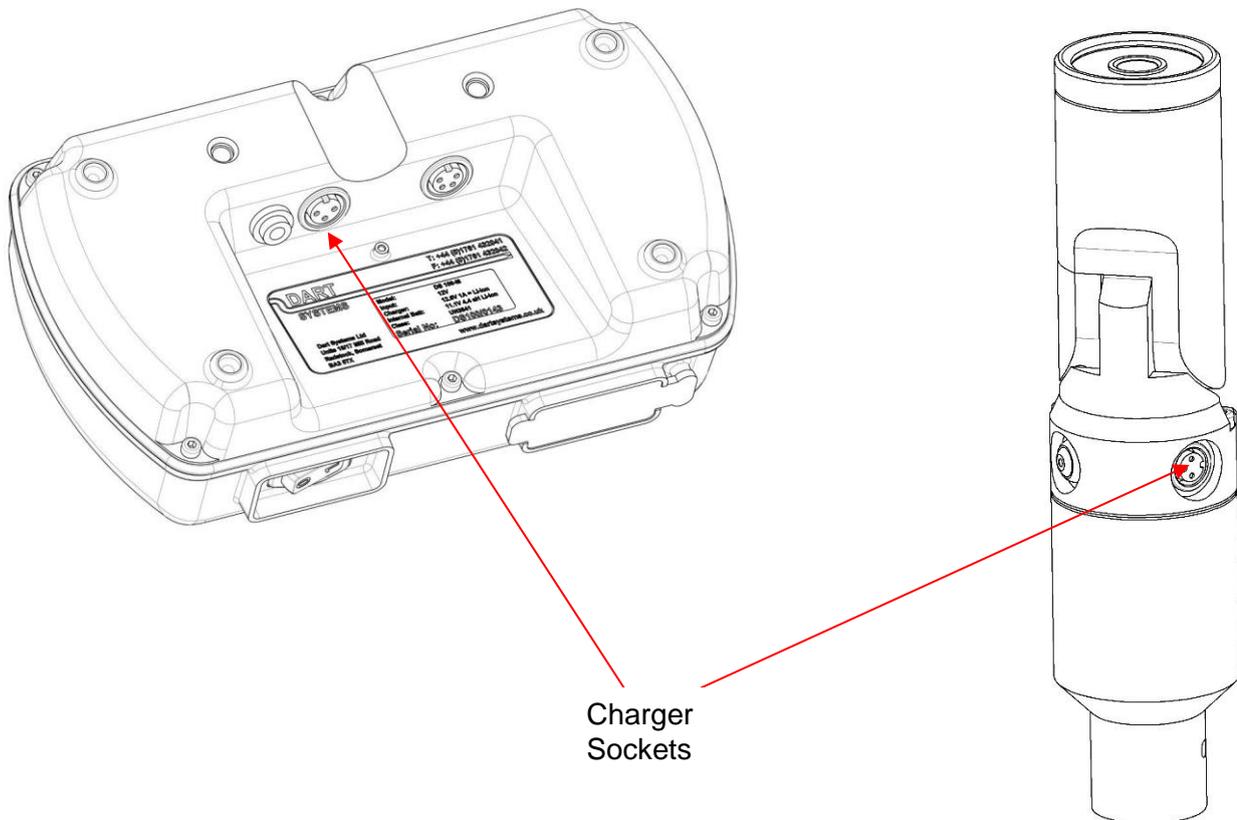
5. The camera head can be tilted anywhere between the two extremes shown, this can be done on the fly whilst in use or set before use if the camera is to be stationary.

6. After use ensure the Camera and the Monitor are powered off. **N.B.** it can be easy to forget to turn the camera off failure to do this will discharge your battery whilst the equipment is not in use.



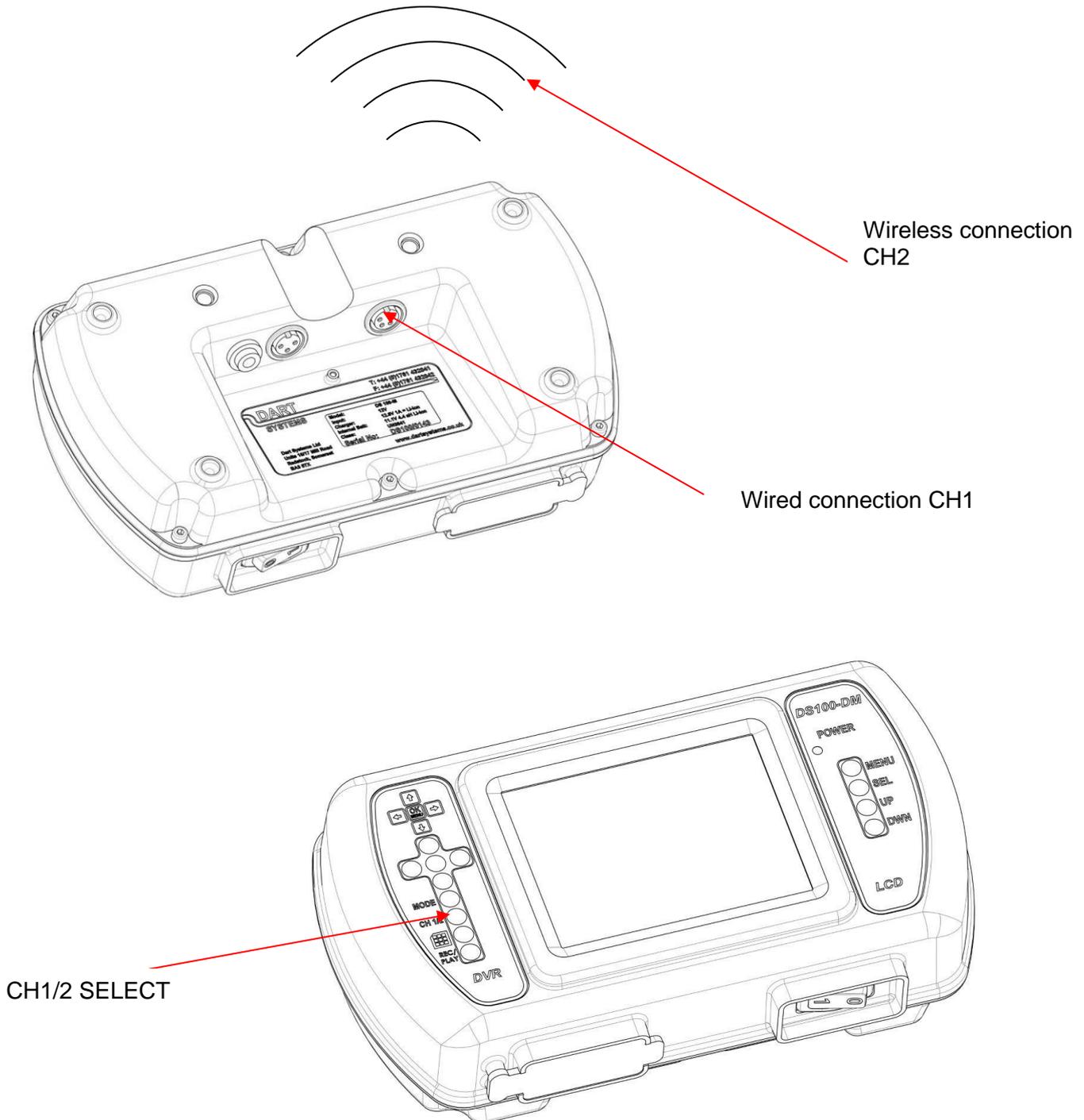
### 3. Charging the batteries:

1. Ensure both the Monitor and the Camera are powered off
2. Connect chargers to the charge point on the Monitor and Camera.
3. Switch on the chargers and charge until the Red led turns to Green.



#### 4. DS100-DM Dual channel Function

The DS100-DM has two video channels, one is wireless and the other is a wired connection on the back of the monitor. This allows the monitor to be used with wired and wireless accessories. Both channels can be used simultaneously and by repeatedly pressing the CH1/2 button on the left keypad the Monitor will cycle through CH1→CH2→CH2 IN 1→CH1 IN 2.



## 5. INITIAL SET-UP

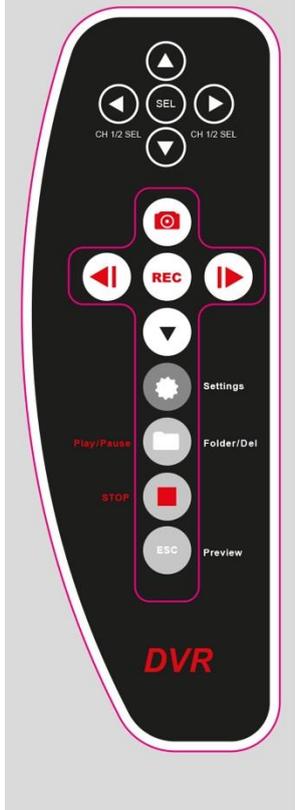


Insert SD card into Display Handset and replace cover to prevent water and dirt ingress.

## DS100 OPERATING FUNCTIONS

### Multi-Functional Operation Panel

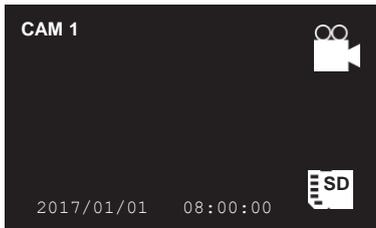
The DS100 can be controlled from a single panel. See the button configurations on the right for details.



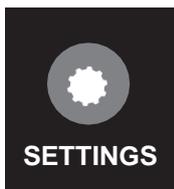
## 6. DVR SYSTEM SETTINGS



Power-up the DS100 by switching it on



On power-up the 'splash screen' briefly appears followed by the default screen.



### Changing Default Settings

Press the 'Settings' button to access the set-up screens. To navigate through the screens, just press the 'Settings' button each time until you've gone through all the setting screens.

**To Change the settings on each screen:**

Use the ▲ or ▼ to scroll up and down the settings

Use the ◀ or ▶ to make change to the settings

In each case, when complete, press the 'Settings' button to navigate to the next settings screen, or ESC to go back to the Preview screen where you can create videos or take images.



### Time Settings: Screen 1

Navigate and change the settings as per the above instructions.



### Channel 1 Video Settings: Screen 2

Navigate and change the settings as per the above instructions.

Frame Rate: 5/15/30 fps selectable. The higher the frame rate the bigger the file memory.

File Save: Set to 'Yes' to save to SD Card.

## 6. DVR SYSTEM SETTINGS continued



### Channel 2 Video Settings: Screen 3

Navigate and change the settings as per the above instructions.

Frame Rate: 5/15/30 fps selectable. The higher the frame rate, the bigger the file memory.

File Save: Set to 'No'.



### Record Settings: Screen 4

Navigate and change the settings as per the above instructions.

Quality: High/Middle/Low selectable - the higher the quality the bigger the file memory.

Overwrite: Overwrite automatically once SD Card memory is full. Section: 5/15/30/60 minutes for each record file.

#### REC Mode:

Manual: Start/Stop recording manually.

Imotion: Start recording by motion detection.

Auto: Start recording by DVR on power-up.



### SD Card Settings: Screen 5

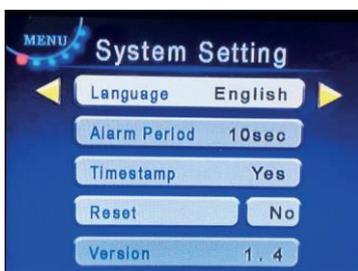
Navigate and change the settings as per the above instructions.

Size: Displays SD Card capacity.

Remain Size: SD Card memory available.

Remain File Num: Approx number of recorded files left on SD Card.

Format: Format SD Card on recording.



### System Settings: Screen 6

Navigate and change the settings as per the above instructions.

Language: Select language.

Alarm Period: Set the alarm time frame, set by motion detection.

Time Stamp: Set time and date to appear on video and images.

Reset: Reset to default settings.

Version: Software version number.

## 7. USING THE DISPLAY CONTROLS

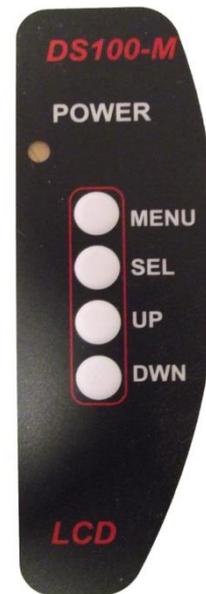
The display controls are on the right hand side of the Display Handset and are as follows:

- a. To change **PICTURE** settings press **Menu** once then **Sel** to select either Bright, Contrast, Colour or Language. Use **Up/Down** key to adjust level or language.



- b. To flip screen image

Press **Menu** twice then **Up/Down** to select picture orientation.



N.B **SYSTEM** and **CLOCK** menus are not currently utilized.

## 8. USING THE DVR SETTINGS – VIDEO/STILL IMAGE CAPTURE

### CHANNEL SETTINGS



Whilst in 'Preview' mode, select the recording channel the camera is connected to by pressing either of the 'CH 1/2 SEL' (Channel Select) buttons.

### STILL IMAGE CAPTURE

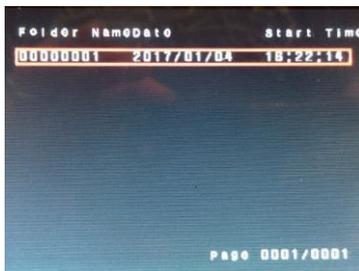


Whilst in 'Preview' mode, to capture a static image press the 'Image' capture button.

### STILL IMAGE VIEWING



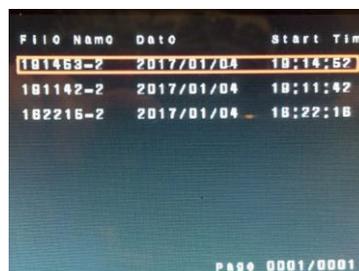
Whilst in 'Preview' mode, to view static image files, first access and view the folder on the SD Card by pressing the 'Folder' button.



Use the ▲ or ▼ to scroll up and down if there is more than one folder.



Press the 'SEL' (Select) button to select the folder and to view the files within the folder.



Use the ▲ or ▼ to scroll up and down through the files

To delete files and folders press  twice.

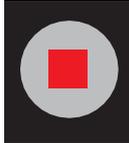


Press the 'SEL' (Select) button to select the file and to view the image.

## MANUAL RECORD VIDEO



Whilst in 'Preview' mode, to record video press the '**REC**' (Record) button.

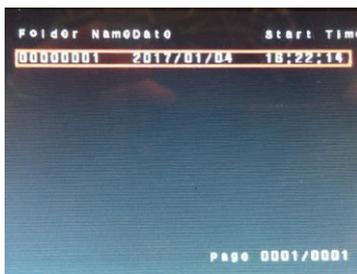


To stop recording press the '**STOP**' button

## VIEWING RECORDED VIDEO



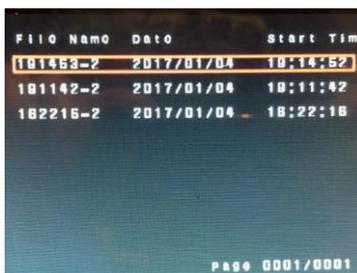
Whilst in 'Preview' mode, to view recorded video files, first access and view the folder on the SD Card by pressing the 'Folder' button.



Use the ▲ or ▼ to scroll up and down if there is more than one folder.



Press the '**SEL**' (Select) button to select and to view the files within the folder.

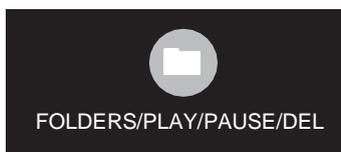


Use the ▲ or ▼ to scroll up and down through the files

To delete files and folders press  twice.



Press the '**SEL**' (Select) button to select the file and to view the video.



To play video press '**Play**' button. Use this button to also '**Pause**' video. To '**Fast Forward**' or '**Rewind**' use ◀▶ or ▶▶



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## 9. CHARGING THE BATTERIES

**N.B. When charging the batteries ensure that the AC adapter is NOT plugged in, damage to the equipment may occur.**

The internal and auxiliary external battery are charged by the same charger supplied with the system.

### To charge the internal Battery

The power switch on the Handset should be switched off, and the charger 3 pin plug connected to the socket on the underside of the Handset. The charger can then be plugged into a suitable mains outlet and switched on. The charger will display a **Red** LED until fully charged then it will display **Green**.

### To charge the internal Button Battery

The power switch on the Handset should be switched off, and the charger 3 pin plug connected to the charging socket on the underside of the Handset. The charger can then be plugged into a suitable mains outlet and switched on. Turn the DS100 Handset on and charge for 6 hours. After 6 hours turn the DS100 Handset off and remove the charger. The internal Button Battery which runs the internal clock is now fully charged.

**THIS MUST BE DONE ONCE A MONTH.**

## 10. POWERING THE SYSTEM FROM AN AC ADAPTER

**N.B When the AC adapter is plugged in ensure that the battery charger is NOT as damage to the equipment may occur.**

The System can be powered from an AC adapter in the event that the battery is exhausted or if prolonged surveillance is being carried out from a stationary position.

A 12V AC adapter can be plugged into the power jack on the back of the Handset to supply power to the system.

## 11. QUICK TIPS

- If you see a "Stick Figure" symbol in the bottom right corner of the screen the unit has been switched to Imotion and will start recording when there is movement in front of the camera lens. Refer to DVR System Settings Screen 4 to change.
- If the recorder starts to record automatically at system power on the recorder has been switched to Auto. Refer to DVR System Settings Screen 4 to change.
- **Blue** Screen – If you encounter a **Blue** screen and the LED on the LCD Control panel is **Red**, the screen has been switched into a standby mode. To switch back press the **SEL** button on the LCD control panel once!

