



Model: **CVR811**
Portable Colour Covert
PIR Camera & DVR

Before you begin

- Please unpack the box carefully and identify that all the parts are present.

The camera is suitable for indoor use only. Please bear in mind the following points when choosing a mounting position.



- The camera must be positioned so that it will not point directly into the sun (sunrise and sunset) or any bright light, as this may cause damage to the camera.
- Avoid viewing areas where half the area is in bright sunlight and the other half is dark, such as in the shadow of a building. All types of cameras have difficulty in 'seeing' with such a large lux level variation.
- Do not cut the camera cables, this will void the warranty.
- Make sure you use only the recommended power supply. Damage caused to the camera by incorrect voltage or wiring is not covered by the warranty.

Model:
CVR811

Portable Colour Covert PIR
Camera & DVR

Thank you for purchasing this Xvision camera. Before operating this product, please read this instruction manual carefully.

1. Safety Precautions

	CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN!	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OPEN COVERS UNLESS MAKING LENS ADJUSTMENTS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

- The power cord is the main power connection. Avoid constant plugging and unplugging of the power cord as this may result in a malfunction of the product.
- Do not install the product in an environment where the humidity is high, otherwise it can cause deterioration of the image quality.
- Do not drop the product or subject it to physical shocks, otherwise it will result cause the product to malfunction.
- Never keep the product in direct strong light. It can damage the product.
- Do not spill liquid of any kind on the product. If it gets wet, wipe it dry immediately.

2. Product Description

This product is a professional, Portable Colour Covert Camera and DVR. The built-in high quality pinhole camera, enables 3 types of recording modes:

Manual, Continuous, and Motion Detection recording enables images to be stored to an SD Memory card (not supplied). Complete with fixing bracket that makes it perfect for simple installation in many different situations.

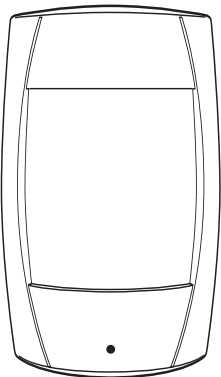
The unit can be powered by four AA batteries or plug-in power adaptor (12V DC). We suggest using the plug-in adaptor for extended periods of time. Use 4 AAA batteries for short periods of time, or when there is no power socket. The LED indicator allows the user to easily view the current battery status (LED indicator lit, indicates that the power is sufficient and when the LED indicator is unlit, indicates that there is insufficient power). Simple user-friendly interface enables easy recording setup (Record Mode, Record Frames per Second, Motion Detection Sensitivity, etc).

For more details, please refer to the section on "Operation Description" and "Function Setup Description".

3. Features

- Highly portable DVR recording unit with built-in high resolution camera.
- Simultaneous monitoring and recording.
- Automatic image control functions.
- Functions supported: Auto Electronic shutter (AES), Auto White Balance (AWB), and Auto Gain Control (AGC).
- Video capture device records images to SD Card. Recording auto resumes after power loss.
- Supports three recording modes: Manual, Schedule Continuous, and Schedule Motion Detection.
- Supports both NTSC and PAL system.
- Two resolution settings (selectable): 320x240 and 640x480.
- Selectable compression image qualities and frame rate.
- Motion detection with adjustable sensitivity level.
- Supports flexible playback mode: Normal Playback, Rewind, Fast Forward, and Step Playback.
- Supports 12V DC or 4xAAA batteries (use if power outlet is not located near the camera site).
- External SD card slot.

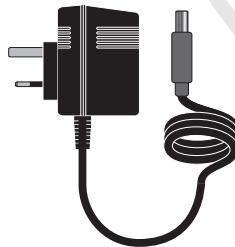
4. Contents



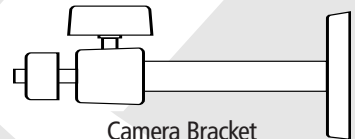
CVR811- Portable Colour
Covert PIR Camera & DVR



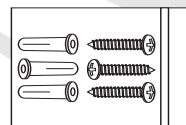
Video Lead



Power Supply



Camera Bracket

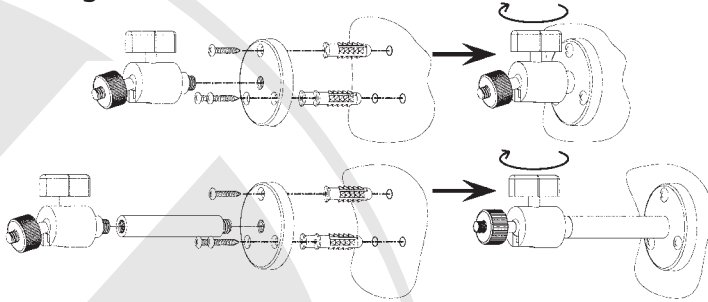


Screws and Wall Plugs

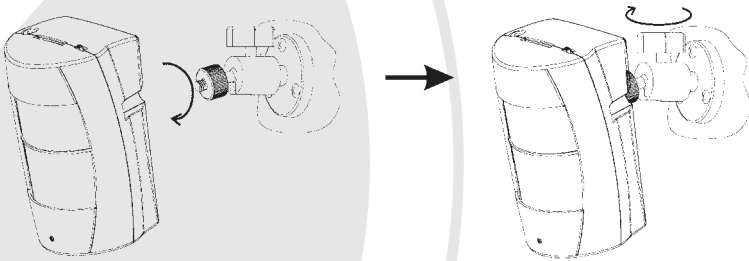
5. Installation

Please refer to the instructions below for camera mounting, bracket installation and monitor connection:

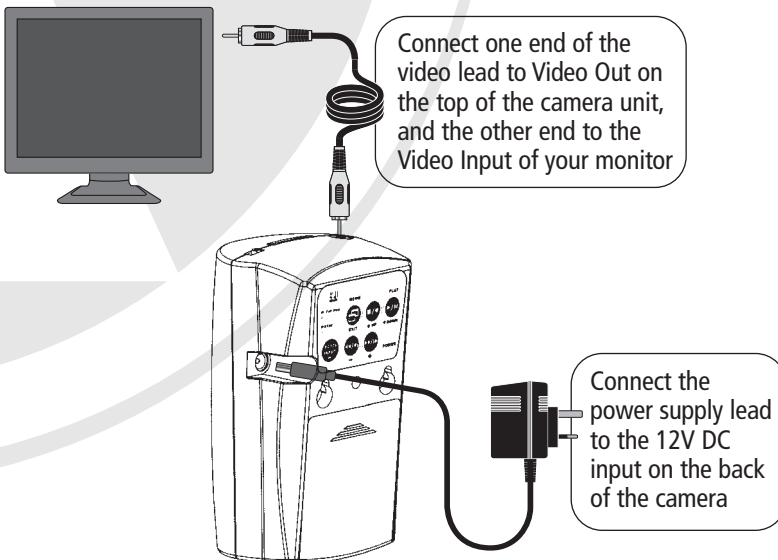
5.1 Bracket Fixing Guide



5.2 Camera Mounting Guide

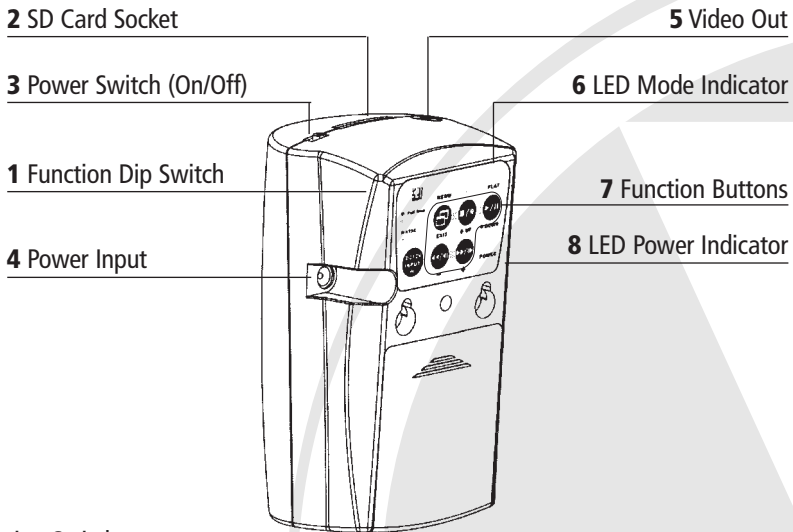


5.3 Video Output and Power Supply Connection Guide



6. Functions

6.1 Back Panel



6.1.1 Function Switch

NTSC <-> PAL

The two most common video standards used are NTSC and PAL. NTSC is the video system or standard commonly used in North America, Taiwan, Japan, Korea, and South America. PAL is the predominant video system or standard mostly used in China, Hong Kong, Europe, and India. Please select and switch to the system that best suits your location. Please note that this setup is only effective before powering up the unit.

Full Stop <-> Overwrite

Select whether to overwrite the recorded memories or to stop recording when memory is full. One may select "Overwrite", the memory will be overwritten starting with the oldest data first.

Selecting "Full Stop", when the memory system is full, switches from record mode to stop mode, and the LED indicator on the front panel will start flashing. Please note that this setup is only effective before powering up the unit.

6.1.2 SD Card Socket

The SD Card slot allows you to insert an SD Card of your choice to record images from the camera.

6.1.3 Power Switch

Select "On" to switch on the device, and "Off" to switch off the device. When power-loss occurs during recording, loss of video may occur.

6.1.4 Power Input

Connect 12V DC Power Supply to enable the unit to be powered by the mains.

6.1.5 Video Output Jack

To enable monitoring functions, connect one terminal to the video out jack and the other terminal to the monitor (TV).

6.1.6 LED Operation Mode Indicators

LED light easily allows the user to distinguish the current system status. For example REC LED: The LED indicator lit indicates recording, and when unlit indicates no recording.






6.1.7 Function Button

The buttons most commonly used: Rec ■ / ●. All the function buttons are used during setup. Each button has a different function in each set up menu. For more details, please refer to the section on "Function Setup Description".

6.1.8 LED Power Indicator

The LED indicator lit indicates that the device is powered up and when unlit indicates that the power is insufficient or switched off.

Function Description Table

MODE	BUTTON							
	MENU	REC	PLAY	EXIT	UP	DOWN	-	+
STOP MODE	MENU	REC	PLAY	Switch to Main Setup Mode	Switch to Record Mode	Switch to Playback Mode		
RECORD MODE	MENU	REC	PLAY		Switch to Stop Mode			
MENU MODE	MENU	REC	PLAY	Refer to Setup Description	Refer to Setup Description	Refer to Setup Description	Refer to Setup Description	Refer to Setup Description
PLAYBACK MODE	MENU	REC	PLAY					
FREEZE MODE					Switch to Stop Mode	Continuous Playback	Step Rewind	Step Forward
CONTINUOUS MODE					Switch to Stop Mode	Pause Playback	Fast Rewind	Fast Forward


Please read the "Function Description Table" carefully before operation. It will help you to understand the functions of the buttons in each mode.

The LED indicator (on the back panel) represents the current mode or screen display status. Under different modes each function has different meanings. The Function Description Table clearly lists the LED light as it appears during the different modes and its corresponding relations with the function buttons. The system is mainly divided into stop mode, record mode, playback mode and setup menu mode. These modes will be discussed in later sections.

Power On

1. The power switch is situated on the right side of the device.

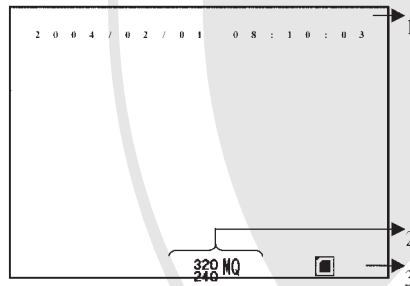
NOTE: Each time after power-on, the system auto-detects its peripherals. When the REC LED flashes this indicates that the system memory is initiating auto test sequence (complete boot time is several seconds). When an image file error has been detected, the system will initiate auto repair sequence.

2. After power on, the system auto enters live monitoring. When the system is currently under schedule recording, it auto enters record mode.
3. “” icon shown on the status line, indicates that the system memory is operating normally.
4. When problem occurs with the system memory. Press record or playback, the corresponding LED indicator will not light. Play, Menu, and Rec indicator will flash quickly. Please re-format before proceeding.
5. When system memory is writing data during recording, record indicator will flash slowly.
6. After power-loss the system auto returns to the previous recording mode.

6.2 Monitoring Mode

6.2.1 The monitoring mode is displayed according to the preset (system setup after power-on), and the user may view live monitoring.

1 Time Display: System Date and Time.







2 Record Status Display: Manual Record Parameter.

³⁵²/₂₄₀ :Record Resolution, please refer to [7.4 Record Setup] for VIDEO SIZE setup.

MQ :Record Quality, please refer to [7.4 Record Setup] for VIDEO QUALITY setup.

3 System Memory Status:

-  :System Malfunction.
-  :Run Diagnostic testing.
-  :Functioning normally.
-  :Continuous recording.

6.3 Record Mode

6.3.1. Start Record: 3 Types of recording mode.

(1) **Manual Record:** Suitable for recording at anytime. Press <<Rec ■ / ● >> button, to enter manual recording status (start recording). For more information, please refer to [7.4 Record Setup].

(2) **Motion Detection Record:** Suitable for recording, when there are severe image changes. Motion detection triggers schedule recording, but it will only start recording when the variation exceeds the alarm limitation value. For more information, please refer to [7.3 Record setup] and [7.4 Record Setup].

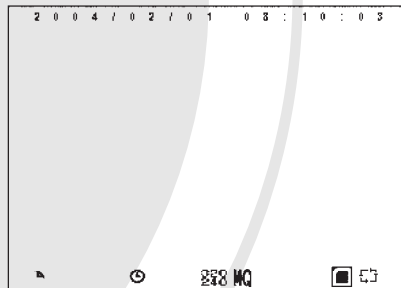
(3) **Continuous Record:** Suitable on few constant frame recording or on long-term continuous recording. For more information, please refer to [7.4 Record Setup].

6.3.2. Stop Record:

Press <<Rec ■ / ● >>button, to stop manual recording only. Enter <<Play ▶ || >> or <<Menu>> schedule recording (Motion Detection and Continuous Record), all recording will be stopped. To continue recording, please follow the methods below.

Manual Recording	Depress <<Rec ■ / ● >> button
Schedule Recording	Each time after exiting the menu or playback mode, system will auto recheck the record schedule setup.
Motion Detection Recording	

6.3.3. Record Display:



●●●● : Indicates recording is in progress.

📌 :Manual Record 🕒 :Schedule Record 🚶 :Motion Record

6.3.4. The event status is determined by the system recording, according to the order of priority. The order of priority: Manual Record, Motion Detection and then Schedule Record.

6.3.5. Different recording modes may have different kinds of setups. Basic setup: video size, recording frames, video quality, and audio recording. When different recording modes are triggered, the system starts recording according to the different setup. This kind of design provides flexibility to ensure efficient recording time and quality. For example: If you want the camera to record from 8:00am to 6:00pm, setup [Schedule Record] to low video quality, which uses less recording frames, to extend the recording time. Alternatively, setup [Motion Detection Record] to enable high video quality with the highest recording frames, when an event occurs.

6.3.6. Video or audio may be recorded to the system memory. When the video has been stored, the Rec LED flashes indicating that the system is currently loading the file to the system memory.

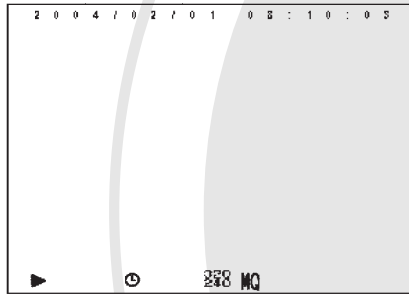
6.3.7. No matter which record mode is used, please enter the main menu (Refer to 7.1 Main Menu) before switching off the power.

Power loss during recording results incomplete videos or errors. If you experience video loss during recording, the system stops recording and backs up the files. When the video is restored, the system will continue recording.

6.4 Playback Mode

6.4.1 **Selectable Playback format:** Continuous Playback and Searching Playback.

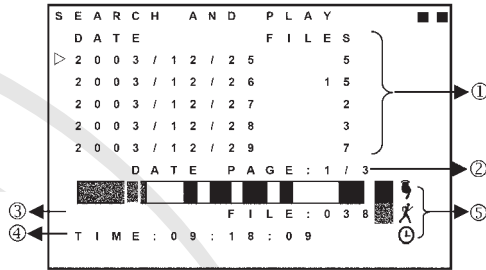
(1) Normal Playback: Press <<Play ▶ || >> button to playback according to the system memory file order.






- ▶ :Normal speed playback. Press <<Play ▶ || >> again to pause playback.
- ⏏ :During normal playback, press <<⏏ / ◀ >> or <<⏏▶ / ▶ >> button to fast forward or rewind (Speed: x2/ x4/ x8/ x16/ x32). Press <<Play ▶ || >> button to return to normal playback.
- ⏏ :During playback, press <<Play ▶ || >> button to pause playback and press again to return to playback status.
- ⏏▶ :During pause, press <<⏏ / ◀ >> or <<⏏▶ / ▶ >> button to step forward one frame (unable to step rewind, because file is stored as an MPEG4 format), and press <<Play ▶ || >> button to return to normal speed playback.



Press <<Rec ■ / ● >> button to stop playback function and to return to live status.

6.4.2 Search and Playback: Enter MENU and select [SEARCH AND PLAY] item.



- ① File directory shows dates and the amount of contents under the directory. The user may press <<▲>> or <<▼>> button to move the cursor up or down.
- ② Current location page.
- ③ Each recording event is distinguished by a different colour, the user may press <<->> <<+>> button to move the cursor left or right, which immediately shows the first image of the highlighted event on the screen display background.
- ④ Displays the time highlighted by the event bar.
- ⑤ Blue: Manual Record  / Red: Motion Detection Record  / White: Schedule Record .

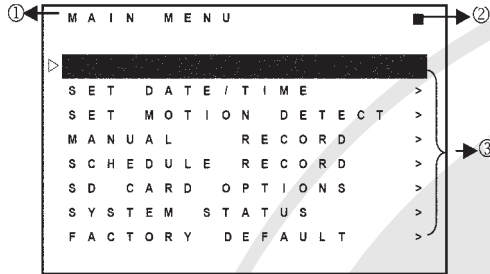
NOTE: Select the desired playback starting time, press, <<MENU>> and<<->> <<+>>, select <<PLAY>>, and then press <<MENU>> again to start playback.

NOTE: Press <<Rec  /  >> button to stop playback and the system will return to [SEARCH and PLAY] selection and enable the user to select the preferred input source.

NOTE: Press<<->> <<+>>, select <<EXIT>> and then press <<MENU>> again to return to main menu.

7. System Setup

7.1 Main Menu



① **Main Menu:** Item subject.

② **Menu Layer Indication:** The device consists of three menu layers.

- : First Menu Layer (Main Menu)
- : Second Menu Layer
- : Third Menu Layer

③ **Menu Content:** Basic Menu Operations.

Press <<▲>> or <<▼>> button, to move the highlight-bar and the cursor (▶).

Press <<MENU/ ENTER [Enter]>> button, to enter the sub menu (▶).

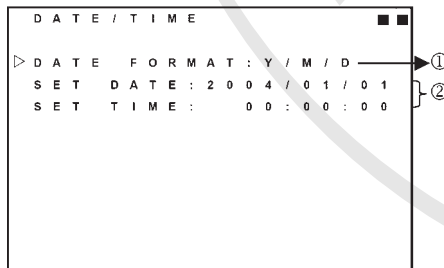
Press <<STOP [Stop]>> button:

- Under second or third menu layer, the system will return to the previous menu layer (second layer to first layer or third layer to second layer).
- Under main menu (first menu layer), the system will enter live mode.

Press <<◀>> or <<▶>> button, to increase or decrease the setting values that has been highlighted.

NOTE: Words that are underlined and bold indicate "Default Value".

7.2 Date/Time Setup

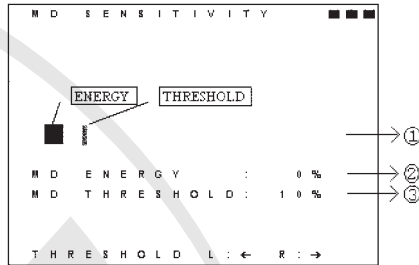


① Date Format:	<u>Y/M/D</u> M/D/Y D/M/Y
② Date/Time Adjustment	Year settings are from 2000 to 2099.

7.3 Motion Detection Setup

7.3.1. Motion detection sensitivity rate setup:

Changing the threshold value setup may affect the recording sensitivity of the Motion Detection.



① **Sensitivity Bar:**

Color black indicates image variable value and color red indicates the MD threshold.

② **MD Energy:**

Current image variation value.

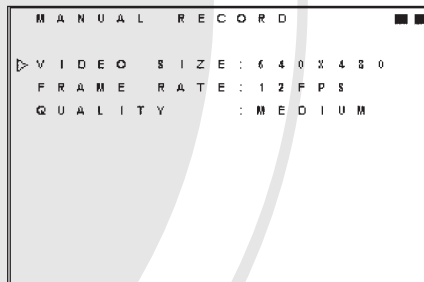
③ **MD Threshold:**

Press <<->> or <<+>> button, to change the motion detection threshold value.

7.4 Manual Record and Schedule Record Setup

Selectable manual or schedule recording, basic setups are shown below:

7.4.1. **MANUAL RECORD:** Press <<Rec ■ / ● >> button to start recording.



Video Size/ Frame Rate:

Resolution	320x240	640x480
Frame Rate (Max.)	30 fps	12 fps

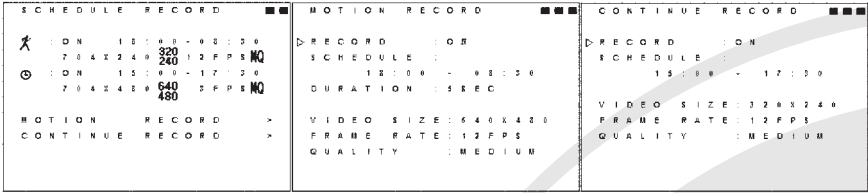
Image Quality:

High Quality: HQ Using high recording quality (More memory storage capacity will be required).

Medium Quality: MQ Using medium recording quality.

Low Quality: LQ Using low recording quality (Less memory storage capacity will be required).

7.4.2. SCHEDULE RECORD (CONTINUOUS/MOTION DETECTION): Schedule Record: Records only within a preset time range.

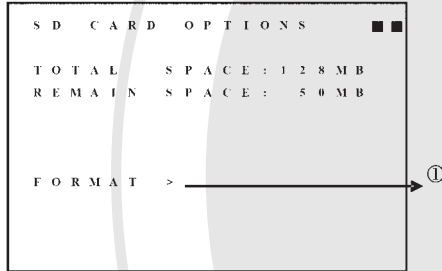


RECORD: Enable or disable schedule recording (ON/ OFF).
SCHEDULE: **Hh:Mm -Hh:Mm** = 24 hour recording and **00:00-00:01** = Recording of one minute image from 00: 00 to 00:01.

Motion Detection Recording - DURATION TIME Setup:

DURATION: Duration of recording time when motion detection has been triggered (5SEC / 10SEC /15SEC/ 20SEC / 30SEC).

7.5 SD Card Options

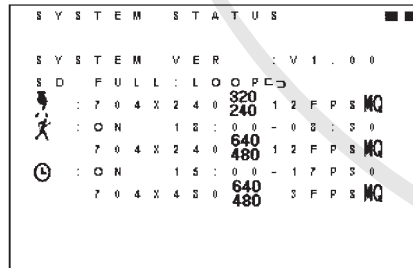


① Format System Memory: It will delete all data stored in the system memory.

NOTE: When in continuous recording mode, old video footage can be deleted and overwritten. Please confirm before setup.

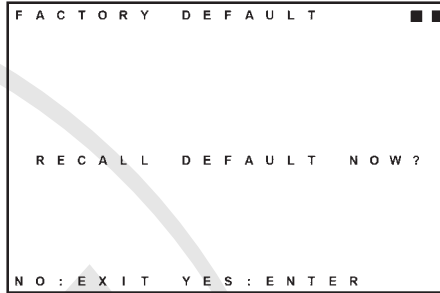
NOTE: Recording time depends on the SD card capacity, different recording modes, and video quality chosen.

7.6 System Status



Press any button to return to the Main Menu.

7.6 Factory Default



Press <<->> or <<+>> button to return all settings to the factory default value.

Press <<Stop ■ / Exit>> button, exit the current screen display and return to the Main Menu.

NOTE: Return to factory default will erase all configuration values and return to the Factory Default values (except Date and Time setup). Therefore, confirm before you proceed.

8. Specifications

Model:	CVR811		
Picture Type:	Colour		
Image Sensor:	1/6" CMOS Sensor		
Resolution:	< 330TVL		
Lens Viewing Angle:	72° <input type="checkbox"/>		
Infra Red Nightvision:	No		
Minimum Illumination:	0.9 Lux >		
Lens	Board Lens f3.62mm / F2.8		
Effective Picture Element	VGA (H/V: 640x480)		
S/ N Ratio	46 dB		
Electronic Shutter	Auto		
Gain Control	Auto		
Auto White Balance	RCA (1 Vp-p. / 75 Ohms)		
Synchronous System	NTSC / PAL (adjustable)		
Video Output Port	VGA (640x480)/ QVGA (320x240)		
Video Output Format	High/ Medium/ Low		
Recording Mode	Manual/ Continuous/ Motion Detection		
Recording Resolution	320x240: 1~30FPS, 640x480: 1~12FPS		
Storage Capacity	Depends on the capacity of the SD Card used		
Memory Full	Stop/ Overwrite (selectable)		
Recording Times for 512MB Memory Card	Frame Rate @ Resolution	30fps @352x240	12fps @640x480
	Quality		
	Low	550 minutes	400 minutes
	Medium	270 minutes	240 minutes
High	220 minutes	125 minutes	
Playback Mode	Forward/ Rewind: x1 /x2 /x4 /x8 /x16 /x32, Pause and Step.		
Search Playback	Date & Time		
Motion Detection	Full Screen/ Adjustable Detection Sensitivity Rate.		
On Screen Display	Mode/ Date/ Time/ Status		
Power Supply	12V DC / 180mA or 4AA Batteries.		
Battery Life NiMH 2100mA	Continuous Application: 4hours and 45minutes		
Dimensions (WxHxD):	80x132x70mm		

TECHNICAL SUPPORT:

For Technical Support for any Xvision product please contact your local distributor.

LIMITED WARRANTY:

This product is supplied with a 2 Year warranty. The Warranty excludes products that have been misused, (including accidental damage) and damage caused by normal wear and tear. In the unlikely event that you encounter a problem with this product, it should be returned to the place of purchase.



Manufactured exclusively for:
Xvision (Europe) Group,
Head Office: London, U.K.
Email: info@x-vision.co.uk
Web: www.x-vision.co.uk