ERA
HOME SECURITY

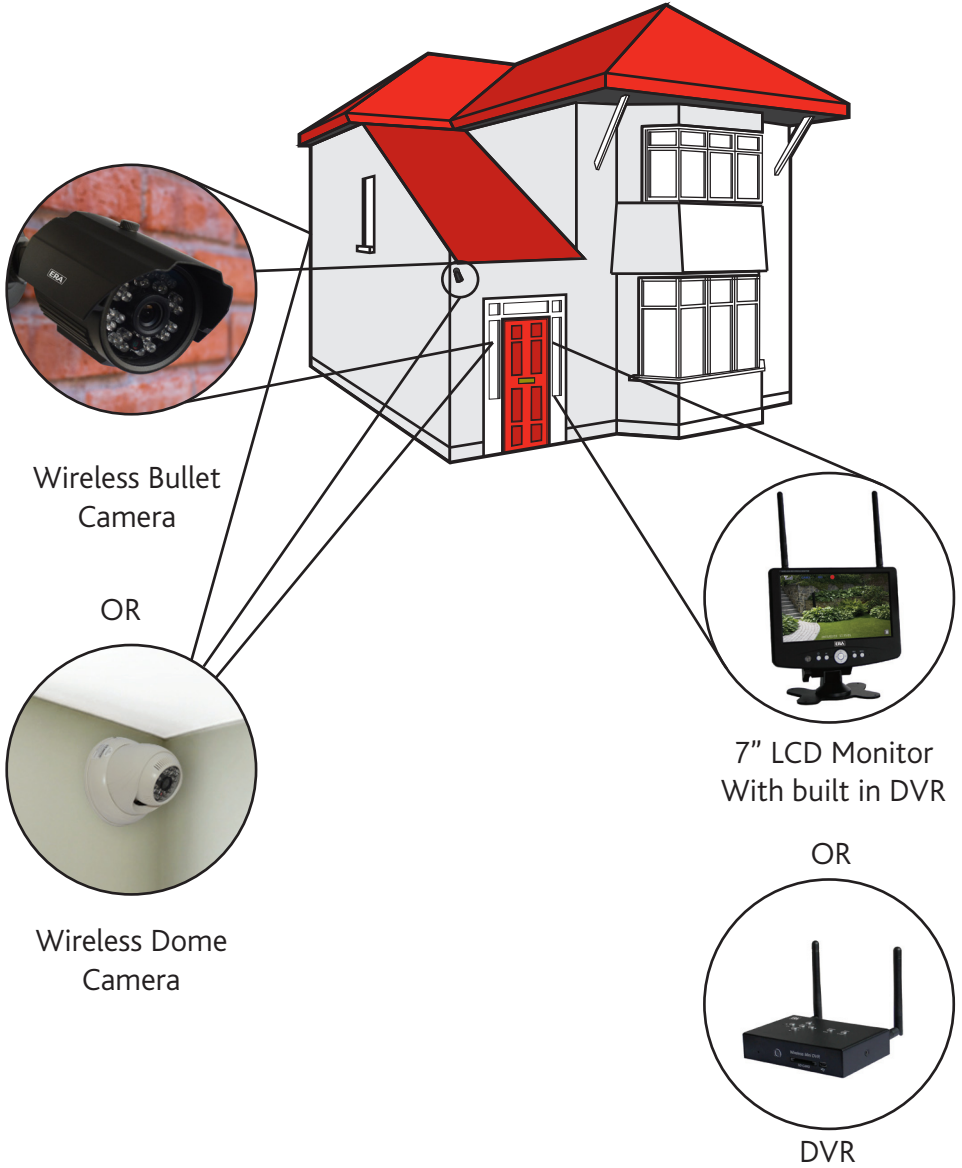## WIRELESS HD CCTV SYSTEM

USER MANUAL

PLEASE READ THIS MANUAL CAREFULLY BEFORE OPERATING THE SYSTEM.
RETAIN FOR FUTURE REFERENCE.

CONTENTS

Wireless Bullet
Camera

OR

Wireless Dome
Camera

7" LCD Monitor
With built in DVR

OR

DVR

SAFETY INSTRUCTION

This device has been manufactured in accordance with international safety standards. Please read the enclosed safety information and installation guide fully before proceeding and retain for future use.

1. Unpack all components carefully and check box contents. If any items are missing, please return the product in its original packaging to your retailer.
2. Install in accordance to manufacturer's instructions.
3. Use only attachments and accessories specified by the manufacturer.
4. Do not install next to a water source, any heat source, in direct sunlight and do not block any ventilation openings. As this is a wireless device communicating over Wi Fi network, please avoid installing near fridges, microwaves and cookers, as electrical interference may occur.
5. Ensure products are fixed to a suitable, stable surface to prevent accidental falls and damage to the products.
6. Products are fitted with ventilation openings to the rear, which should not be covered at any time. This product should not be fitted in a built in installation unless proper ventilation is provided (min. 10 cm).
7. Safeguard the power cord by observing the following information:
    - Do not modify or manipulate the power cable or plug.
    - Do not allow anything to rest on the power cord and do not position where there is a risk of the cable being stepped on.
    - Ensure the mains cable is positioned away from any heating equipment, damp or moisture.
8. This product is equipped with a 3 wire grounding plug. Only operate this device using the appropriate power source as detailed on the back of the product. If you are unsure please contact your electrician. Disconnect the device from the power supply before carrying out maintenance or installation.
9. Never open the housing or power supply unit. Do not insert any object into the product, as this could lead to an electric shock.
10. If any of the following occur, unplug this product from the wall and contact our helpline:
    - Power cord or plug is damaged.
    - Liquid has been spilled into the product.
    - Product does not operate normally, when the operating instructions have been followed.
    - Product has been dropped or damaged.
11. Unplug the product from the wall before cleaning. Carefully clean surface with a soft, damp cloth, taking care not to scratch the surface finish. Do not use any liquid or aerosol cleaners.

Explanation of symbols

⚡	The triangular high voltage symbol is used to warn of the risk of injury or health hazards (e.g. caused by electric shock).
⚠	The triangular warning symbol indicates important notes in these operating instructions which must be observed.
ℹ	This symbol indicates special tips and notes on the operation of the unit.

Important Information

⚠	All guarantee claims are invalid in the event of damage caused by non compliance with this user guide. We cannot be held liable for resulting damages.
⚠	In the event of material or personal damage caused by improper operation or non-compliance with the safety information, we cannot be held liable. All guarantee claims are void in such cases.

CAUTIONS

⚠ **NEVER REMOVE THE BACK COVER**
Removal of the back cover should be carried out only by qualified personnel.

⚠ **KEEP IN A WELL VENTILATED PLACE**
Ventilation holes are provided on the cabinet to prevent the temperature from rising.
Do not cover the unit or place anything on the top of the unit.

⚡ **AVOID HEAT**
Avoid placing the unit in direct sunshine or near a heating appliance.

⚠ **TO ELIMINATE EYE FATIGUE**
Do not use the unit against a bright background and where the sunlight or other light sources will shine directly on the monitor.

⚡ **BE CAREFUL OF HEAVY OBJECTS**
Neither the monitor itself nor any other heavy object should rest on the power cord.
Damage to a power cord can cause fire or electrical shock.

1. INTRODUCTION

Thank you for purchasing ERA CCTV. Your new wireless security system has been designed for ease of installation and incorporates a range of features to secure your home.
Additional cameras can be purchased separately to extend the system.

1.1 Features
MONITOR/ MINI DVR

- MPEG4 compression, support VGA and HD with two kinds of resolution
- Support SDHC up to 64GB
- Multiple recording modes
- Up to 200m wireless transmission range
- Supports 4 channel auto switching
- Supports 2 split/ 4 quad image view
- Interference free, secure and private signal camera
- VGA resolution: 640x480, HD resolution: 1280x720
- Network

CAMERA

- 1.3 Mega pixels
- IR LED for night vision
- With automatic IR cut
- Built-in microphone

2. BOX CONTENTS

User Manual and Window Sticker

Monitor or Mini DVR

Bracket (for Monitor)

Remote Controller

Camera
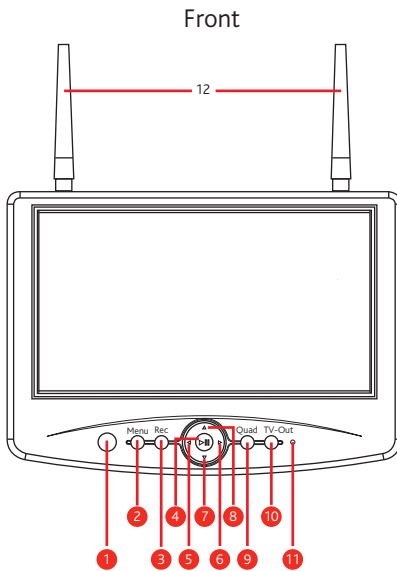

DC12V/1/25A Power Adaptor (for Monitor)

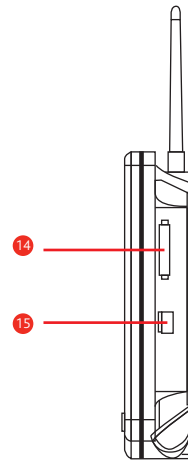DC5V/1A Power Adaptor (for Camera/ Mini DVR)

AV output cable (for Mini DVR)

3. GETTING TO KNOW YOUR DEVICE
3.1 LCD Monitor with built in DVR

Front   Side

1 **IR Sensor**:
Remote control sensor.

2 **MENU button:**
Press to enter or exit the Main menu

3 **REC/STOP button:**
Press to enter or exit the Recording mode.

4 ⊳ **button:**
In "Playback/Video" menu, press to play or pause the selected file
Enter to sub-menu under main menu.

5 ◄ **button:**
In the on-screen menu, press to select setting item.
During playback mode, use to select the previous file.

6 ► **button:**
In the on-screen menu, press to select setting item.
During playback mode, use to select the next file.

7 ▲ **button:**
In the on screen menu, press to select setting item or increase the parameter. In live or playback mode, press to increase the volume.

8 ▼ **button:**
In the on screen menu, press to select setting item or decrease the parameter. In live or playback mode, press to decrease the volume.

9 **QUAD button:**
Short press to toggle between **CH1** - **CH4**

10 **TV OUT button**

11 **LED indicator**:
The LED lights turn blue when the power is turned ON.

12 **RF Double Antenna**:
Sends and receives signals to or from the camera. Double Antenna: to enhance the sensitivity and date rate.

13 **Bracket**

14 **SD card socket:**
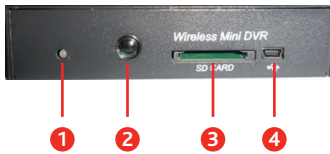Insert SD card into the socket for both video and audio recording.

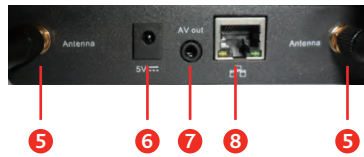**15** **Mini USB socket**

3.2 Cable Connector (Monitor)

1 **Video Output:**
Connect the included A/V cable to view video
From the receiver on the TV or monitor.
2 **DC power outlet:** DC 12V/1.5A
3 **Rj45:** Internet connection
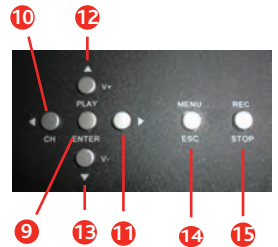
3.3 Mini DVR

Front   Rear   Top

1 LED Indicator
2 IR Sensor
3 SD Socket
4 Mini USB socket
5 Antenna
6 DC Power input socket
7 Audio & Video output
8 RJ45 Internet connection
9 "**PLAY/ENTER**" button: Play or pause the selected file under "**Playback/Video**" menu, Press to select **SINGLE/QUAD/AUTO** display mode.
10 " ◄ " button: In the on-screen menu, press to select setting item. In playback mode, use the button to rewind. In single mode, press to decrease the volume.

11 " ► " Button: In the on-screen menu, press to select setting item. In playback mode, use the button to fast-forward. In single mode, press to increase the volume.
12 " ▲ " Button: In the on-screen menu, press to select setting item or increase the parameter. In live or playback mode, press to increase volume.
13 " ▼ " Button: In the on-screen menu, press to select setting item or decrease the parameter. In live or playback mode, press to decrease volume.
14 "**MENU/ESC**" Button: Press to enter or exit the main menu. Press to return to the main menu or exit playback mode.
15 "**REC/STOP**" Button: Press to enter or exit recording mode.

3.4 Remote Control
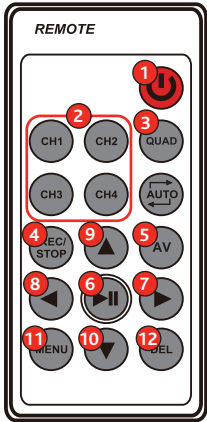
① "**Power**" button: Power on/off the display screen.

② "**CH1-CH4**" button: Single image view mode.

③ "**QUAD**" button: Quad image view mode

④ "**REC/STOP**" button: Press to enter or exit recording mode.

⑤ "**AV**" button: Press to output audio/video. When outputting audio and video, the LCD screen will turn black. Press AV button again to return to LCD mode.

⑥ "▶❙❙" Button: Play or pause selected file under "**Playback/Video**" menu. " ► " Button: In the on-screen menu, press to select setting item.

⑦ In playback mode use to fast-forward. In Single mode use to the change channel.

⑧ " ◄ " Button: In the on-screen menu, press to select setting item. In playback mode use these buttons to fast-forward and rewind. In Single mode use these buttons to change channel.

⑨ " ▲ " Button:
In the on-screen menu, use buttons scroll up and down. In live or playback mode use these to increase/decrease the volume.

⑩ " ▼ " Button:
In the on-screen menu, use buttons scroll up and down. In live or playback mode use these to increase/decrease the volume.

⑪ "**MENU**" button: Press to enter or exit the main menu.

⑫ "**DEL**" button: Use to delete any unwanted files.

3.5 Camera Overview

① **Camera Antenna**: Sends and receives signal from receiver.

② **Lens**

③ **IR LEDS**: Light up the filmed area.

④ **Bracket**: To mount the camera on to a wall or other surface.

⑤ **Pairing Button**

⑥ **Microphone**: Transmit voice into digital signal.

⑦ **DC Connection**

4. SETTING UP YOUR DEVICE
4.1 Introduction

Careful consideration should be taken when deciding the best place to install the cameras and recording devices. Please read safety instructions on page 1 before proceeding with installation, the below tips may also offer some guidance.

4.2 Camera Positioning
Please take the following factors into consideration when installing cameras.

Distance from the camera to the DVR
Ensure that the cameras are within the wireless range

Lighting Conditions
Ensure that cameras have adequate lighting to record the target area.
For the best results do not point the camera towards a light source.
It is recommended to clean the camera lens periodically to ensure picture quality is consistent
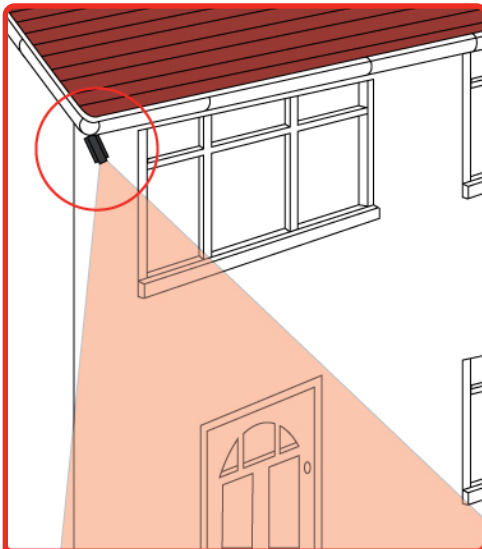
Environmental Conditions
Ensure the cameras aren't subject to any excessive heat
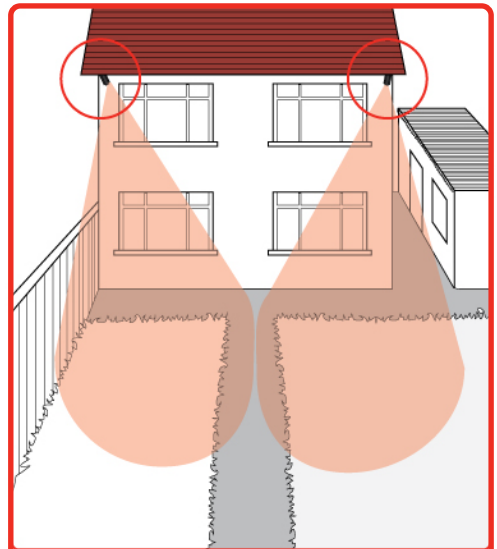
Target Area
Ensure cameras are positioned to provide ample coverage. Consider blind spots and mounting the camera in an elevated position for a high vantage point and to keep out of the reach of burglars and vandals.
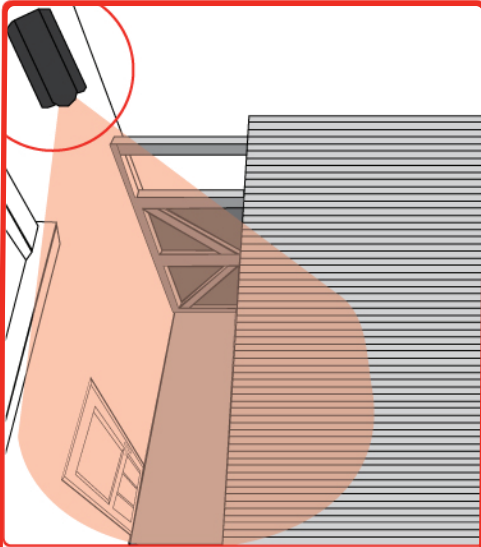
Front of house/door

Recommended to install where the roof meets the walls, this will shelter the camera and maximise the target area.
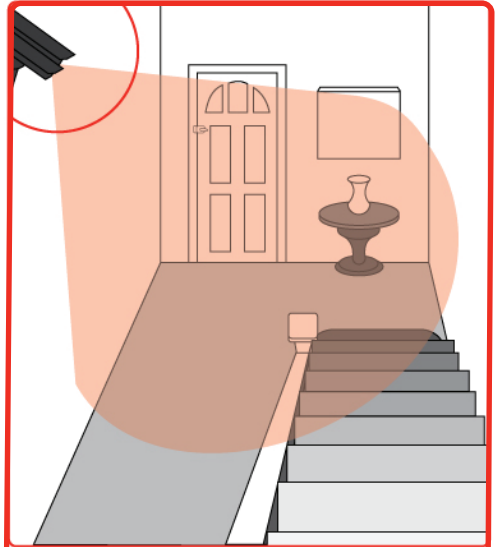

Back of house/door

Ideally the camera would be positioned to view the entire garden, if you have a larger garden you may want to consider using 2 cameras.

Side of house/garage
If you want to cover a side entrance or blind spot that the front and rear camera can't see you may want to consider an additional camera to the side.
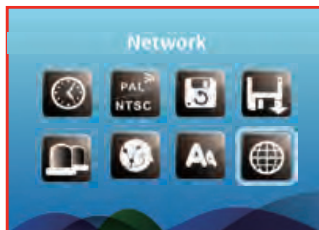
Indoors
Ideally an indoor camera should be placed in areas of high traffic and close to the main entry/exit points. e.g. hallways.

4.3 Cables

Please refer to the safety guidelines for information on the cables and power. It is important that any power cables are managed safely and protected from damage.
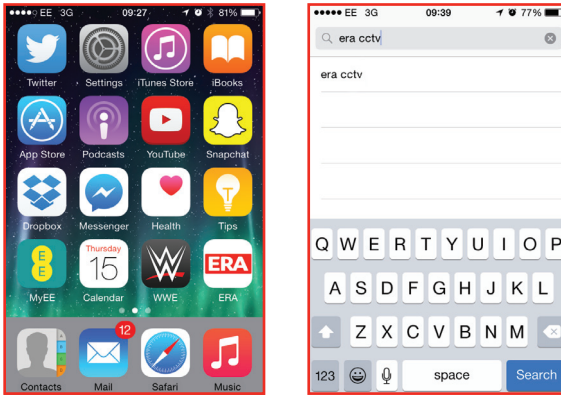
4.4 Connecting to your home network

❶   Connect the monitor/ DVR to your home wireless router using a network cable.
❷   Press "**MENU**" > "**System Setting**" and select "**Network**".
❸   Select "**Dynamic IP**"
❹   Press "**PLAY**".

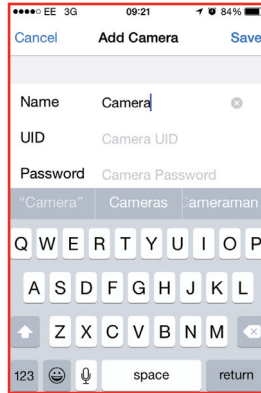# 5. USING YOUR DEVICE WITH A SMARTPHONE

5.1 Installing the App

❶   Ensure your smartphone is connected to your home network (Wi Fi).
❷   Download the app "**ERA CCTV**" from your android market or the
   Apple Store using your smartphone.

5.2 Using the App

❶   Once downloaded open the App and select "**Add Camera**"
❷   Press the **"search"** arrow and the UID reference of the product should appear.
❸   Select the UID. It will ask for the password. The default password is 000 000.
      We recommend changing the password as soon as possible for security (this setting
      can be found in Advanced Settings, Password).

④ If the UID does not appear automatically after search you can add a camera manually by selecting "**Add camera**". Enter the UID reference and default password. To find the UID reference use your CCTV device and press "**MENU**" > "**System Info**" and select "**Network Info**"

⑤ If you want to change camera resolution in the app press "**Edit Camera**"

⑥ Stored recordings are found in the "**Event Menu**".

⑦ Alternatively by selecting the camera button you can take a snapshot.

5.3 Using your device with a TV/Monitor (AV output)

❶ Use the specific output cable provided

❷ Press "**MENU**" > "System Setting" and select "**Video Out**"

❸ Select "**PAL**" or "**NTSC**" (depending on the country).

❹ Press the "**TV-OUT**" button to transfer the signal to the other monitor.

❺ Press the "**TV-OUT**" button to return to the LCD display (CCTV Monitor).
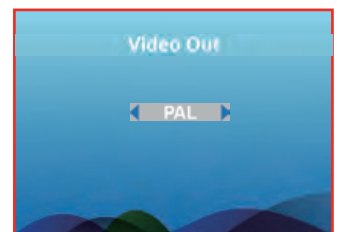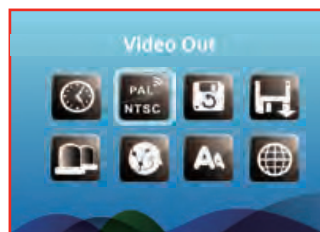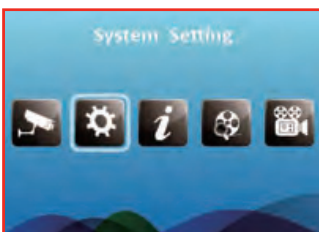
6 SETUP WIZARD
6.1 Introduction

When purchased as a kit the cameras are automatically pre-paired to the monitor/DVR. If you have purchased additional cameras please go to section 6.7 Camera Pairing before proceeding.

NOTE: It's highly recommended to pair the cameras to the receiver before permanently mounting the cameras.
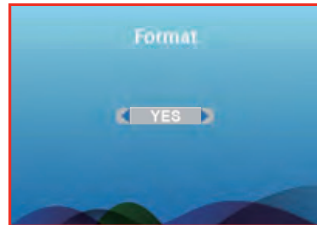
6.2 Date & Time

Before using the system for the first time please ensure you set the correct date and time for recording purposes and to enable the use of the video search function.
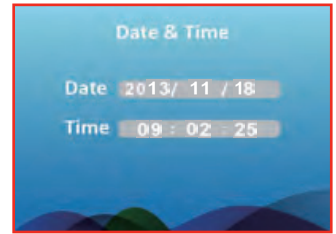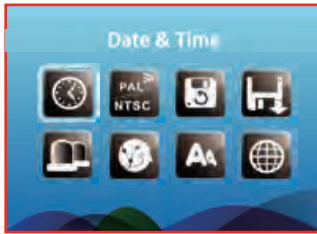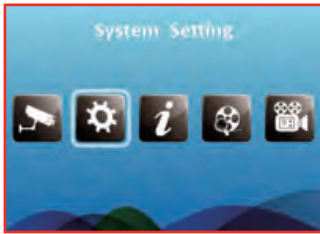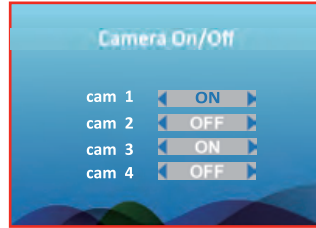

❶ Press "**MENU**"
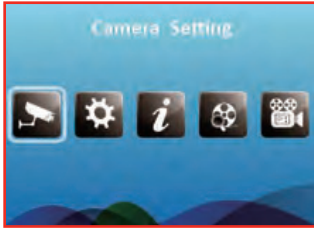❷ Select "**System Setting**"
❸ Select "**Date and Time**"
❹ Use the arrows to set the correct date and time.
❺ To confirm setting press "**PLAY**"
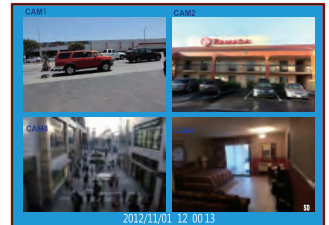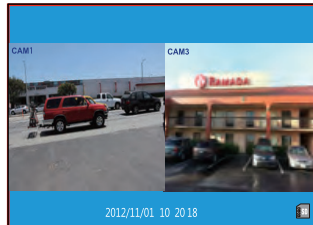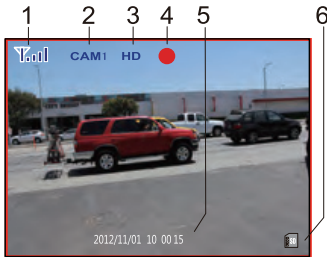❻ To exit press "**MENU**".

6.3 Format SD Card

❶ CAUTION: All data will be deleted after formatting the SD card
❷ Press "**MENU**"
❸ Select "**System Setting**"
❹ Select "**Format**"
❺ Select "**YES**" to confirm formatting by pressing "**PLAY**"

6.4 Live Display

Press the "**NEXT**" button to view each camera channel (1 to 4) individually. When more than one camera is in use press "**QUAD**" to view all paired cameras.

① Signal indicator - The signal indicator shows the strength of the connection to the camera.
② Channel indicator - Displays the current channel number. Press " **CH1/ CH2/CH3/ CH4**" on the remote control to switch between the available channels.
③ Camera resolution display
④ Recording indicator - When the receiver is recording, the red indicator "**REC**" will be shown on the LCD screen.
⑤ Date & time display
⑥ SD card indicator - When an SD card is inserted into the SD card slot, the indicator will be shown on the LCD screen.

Signal Indicator

| Signal Strength	Indicator	Warning
Perfect		None
Good		None
Fair		Low signal
Low		Low signal
No Signal		No signal

6.5 Recording Mode

The system is designed for SD card recording. Before recording insert the SD card (up to 64 GB capacity) into the SD card slot. Files are recorded in .ASF format and can be played in e.g. Windows Media Player.

The system supports three recording modes "**Manual**", "**Scheduled**" or "**Motion Detection**".

6.5.1 Manual recording mode

6.5.1.1 All cameras

❶ If you want all cameras to record manually, view all cameras on the monitor by pressing "**QUAD**".
❷ Press "**REC**" to start all cameras recording.
❸ Press "**REC** to stop all cameras recording.
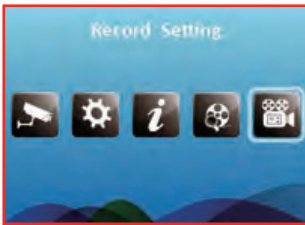
Press "**REC**" again to exit the record mode.

6.5.1.2 Single recording mode

❶ If you want a single camera to record manually, view the wanted camera on the monitor by pressing "**QUAD**" and use the previous and next buttons to choose the correct camera.[Low]
❷ Press "**REC**"to start recording. A file will automatically be created every 5, 10 or 15 minutes.
❸ To select time interval go to "File Section" by pressing "**MENU**" > "**Record Setting**" and select"**File Section**".
❹ Press "**REC**" to stop recording.

6.5.2 Scheduled Recording Mode

❶ To schedule a recording press "**MENU**" > "**Record Setting**" and enter "**Schedule Record**".
❷ Enter the schedule settings by pressing "**PLAY**"
❸ Choose one or more cameras to record by using the previous and next button and accept by pressing "**PLAY**".
❹ To set start and end time use the next button to jump to time setting.
❺ To set start and end time use the up and down buttons.
❻ To choose the day or recording use the next button to jump to day setting.
❼ Select day by pressing "**PLAY**". It is possible to choose more than one day.
❽ To confirm the recording go to "**SET**" by using the next button and press "**PLAY**".
❾ To view your scheduled recordings you can browse through the calender by using the previous and next buttons. Please note that the date and time have to be set correctly to ensure the successful scheduled recording (see 6.4 for date and time setting).
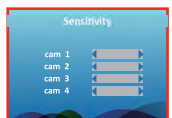❿ To delete a scheduled recording simply create an identical scheduled recording and press "DEL" instead of "**SET**".
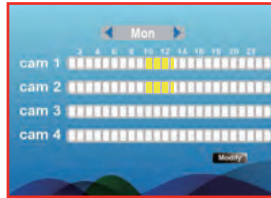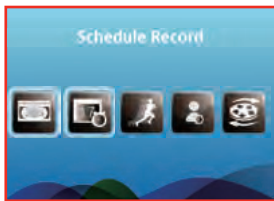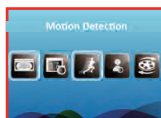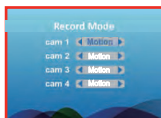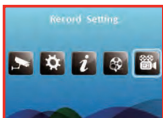
Start time:
record start time
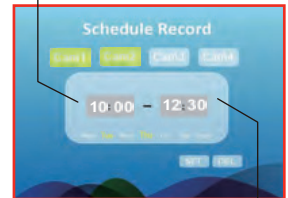
End Time:
record end time

6.5.3 Motion Detecting Recording Mode

In this mode the receiver starts recording when motion is detected by any activated camera

❶ To activate a camera press "**MENU**" > "Record Setting" and select "**Record Mode**".
❷ Use the up and down buttons to select a camera; and then using the previous and next buttons select the mode "**Motion**".
❸ Enter the settings by pressing "**PLAY**"
❹ NOTE: To adjust the sensitivity of the motion detection go to "**Motion Detection**" in the "**Record Settings**" menu. Use the up and down buttons to select a camera and previous and next buttons to select the level of sensitivity.

6.6 Playback Operation

❶   To view recorded files press "**MENU**" and select "**Playback**". Open the created folder by
    pressing "**PLAY**".
❷   Browse through the recordings using the up and down buttons. A recording is selected with
    the "**PLAY**" button.
❸   To play or pause the recording use the "**PLAY**" button.
❹   To rewind or fast-forward the recording use the previous and next button. To increase the
   speed press multiple times.
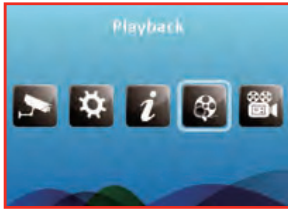
6.7 Camera Pairing

When purchased as a kit the cameras are automatically pre-paired to
the monitor/DVR. You only need the following information, if you
have purchased additional cameras.

NOTE: It's highly recommended to pair the cameras to the receiver
before permanently mounting the cameras.

The pairing function assigns each camera to a different channel on
the wireless receiver (up to 4 cameras in total) and enables you to
configure additional cameras.

❶   Turn on the Monitor/DVR and cameras by connecting them
    to power outlet with the supplied power adapter. If using DVR
    please connect to external monitor for setup using "**AV Output**".
❷   Press the "menu" button on the monitor/DVR (or the remote
    control) and select "**Camera
    Setting**". To select press "**PLAY**".
❸   Select "**Pairing**"
❹   Select appropriate camera channel, e.g. CAM1 (scroll using the
    previous and next arrows).
❺   A message will be displayed on the monitor screen. A timer on
    the monitor will count down from 30 to 0, you must press the
    "**Pair**" button on the camera power cord during this time to
    successfully pair the camera. If the button is not pressed during
    the countdown "**Par Fail**" will be displayed and the pairing
    will be unsuccessful.
❻   Repeat for each additional camera.
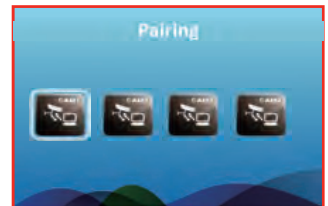
7. SPECIFICATION

Monitor

Item		Parameter
System	Display Screen	7"TFT LCD (16:9)
	Resolution	800(H) X RGB X 480(V)
	Video Standard	PAL / NTSC
Wireless Video & Audio input	Frequency range	2.400GHz ~ 2.483GHz
	Receiving range	Up to 200m line of sight
	Receiving sensitivity	-89dBm 4M mode Dev=1MHz
AV Output	Video output	1ch CVBS 1.0Vp-p, impendance 75Ω
	Audio output	No
Record & Playback	Picture compression	MPEG4
	Recording format	.ASF
	Recording mode	Manual / Schedule / Motion detection
Framerate	Local	Real time encoder typically at VGA 30FPS @64MHz, HD 20FPS @96MHz
	PC playback	30FPS @ VGA, 30FPS @ HD 720p
Connector	Mini USB	Used for software update (for manufacturer use only)
	SD card	64GB max.
	Power supply	DC12V/1.25A
	Power consumption	6W max.
Environmental	Operating temperature	0°C ~+ 50°C
	Operating humidity	10%~90%
	Atmosphere pressure	86kpa ~ 106jps
	Dimensions	183mm x 136mm x 30mm
	Weight (without package)	470g

Mini DVR

Item		Parameter
System	Video standard	PAL / NTSC
Wireless Video & Audio input	Frequency range	2.400GHz ~ 2.483GHz
	Auto switching dwell time	5 seconds
	Receiving Range	Up to 200m line of sight
	Receiving sensitivity	-89dBm
AV Output	Video output	1ch CBVS 1.0Vp-p, impendance 75Ω
	Audio output	1ch audio output, impendance 600Ω
Record & Playback	Picture compression	MPEG4
	Recording resolution	VGA / QVGA
	Recording mode	Manual / Schedule / Motion detection
	Frame rate	30FPS @ 320x240 QVGA (Max) 25FPS @ 640x480 VGA (Max)

Mini DVR

Connector	Mini USB	Connector for software update (manufactory use only)
	SD card	64GB max
	Power Supply	100-240V~50/60Hz 5V/1A
	Power Consumption	4W max.
Environmental	Operating Temperature	-20°C ~ +50°C
	Operating Humidity	10% ~ 90%
	Atmospheric Pressure	86Kpa ~ 106Kpa
	Dimension (W*H*D)	100mm x 25mm x 80mm
	Weight (without package)	120g

Camera

Item		Parameter	
System	Image Sensor Type	1/4" colour CMOS image sensor	
	Effective Pixel	1280 x 720	
	Lens	f=3.6mm	
	IR LED	24pcs, Ø5mm	
	AGC	Auto	
	Electronic Shutter	1/60 ~ 1/15,000 sec	
	White Balance	Auto	
	TX Power	17dbm @ room temperature	
	Environmental Rating	IP65	
Environmental	Power Supply	DC5V/1A	
	Power Consumption	3W max	
	Operating Temperature	-20°C ~ +60°C	
		Bullet Camera	Dome Camera
	Dimension (W*H*D)	95mm x 140mm	80mm x 100mm
	Weight (without package)	327g	297g

8. TROUBLESHOOTING

If you have problems with the system, there is often a quick and simple solution. Please try the following.

Problem	Solution
No picture from a camera	❶ Check all connections to the camera. Make sure the adapter is plugged in. ❷ Make sure that the receiver is ON. ❸ Make sure that the camera is in range of the receiver
The picture is dropping	❶ Move the camera closer to the receiver. ❷ Try repositioning the camera, receiver or both to improve reception.
Audio Problems	❶ Increase the volume when there is no sound. ❷ Make sure that there is sound within range of the camera microphone. ❸ If the unit emits a loud screeching noise (audio feedback), move the camera or receiver farther apart.
Choppy picture	Lower frame rate is the usual cause for a choppy picture (i.e. 10 frames per second vs 20 frames per second). Try moving the camera closer to the receiver or remove any obstructions that may be causing interference.
Recording problems	❶ Make sure the SD card is inserted into the SD card slot correctly. ❷ Check the memory of the SD card is not full. ❸ Make sure the size of your SD card is compatible with the system. The system can support up to a 64GB SD card
Can't view via smartphone	❶ Check that the RJ45 connector is properly connected to the router. ❷ Ensure wireless adaptor is set to obtain IP address automatically. ❸ If you use a fixed IP setting, check whether your settings match the same as your network.

9. MONITOR SYSTEM MAP

Main Menu

- **Camera Setting**
  - Pairing
  - Camera on/off
  - Camera Resolution
  - Camera Brightness

- **System Setting**
  - Date & Time
  - Video Out
  - Format
  - Default Setting
  - Alarm
  - Upgrade
  - Language
  - Network

- **System Info**
  - SD Card Info
  - Version Info
  - Network Info

- **Playback**

- **Record Setting**
  - Record Mode
  - Motion Detection
  - File Section
  - File Overwrite

ERA

HOME SECURITY

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