

HD CCTV RECORDER

QUICK START

■ 2MP ~ 5MP Video Recording

Please read instructions thoroughly before operation and retain it for future reference. For the actual display & operation, please refer to your recorder.

To get the complete user manual and free PC CMS Software (CMS Lite), scan the QR code on the right, or go to the site:

www.surveillance-download.com/user/z404.swf.



1. EAZY NETWORKING SETUP



EaZy Networking is a free P2P cloud service to connect AVTECH devices to the Internet automatically by plug-and-play, enabling you to check the live view via your mobile device or laptop at anytime.

In most cases, the device is connected via P2P. Connection via the relay server is only applied to some complex environments such as the private IP-based network environment used by a large enterprise. There is no speed limitation of P2P connection. For connection via the relay server, the speed is up to 10FPS@512kbps. To obtain stable transmission, it's recommended to purchase our data plan of 1GB or 7GB. Each device will enclose a 2GB data plan for a free trial.

EaZy Networking could be configured via EagleEyes on an iOS / android device, or via Internet Explorer.

Note: The instructions below explain how to configure via the free mobile app, EagleEyes. To know how to configure via Internet Explorer, please check the complete user manual.



Before using this function, make sure:

- This recorder is connected to a switch or router, and the switch or router is ready for Internet connection.
- The network icon on the top right corner is , not .
- You have an iOS / Android mobile device with EagleEyes installed

1.1 Via EagleEyes on iOS / Android Device

1.1.1 Recorder Setup

Step1: Right-click to show the main menu, choose  (ADVANCED CONFIG), and select **NETWORK** → **WAN**.

Set **NETWORK TYPE** to **DHCP**, and make sure the network icon on the top right corner is changed from  to .

Note: **DHCP** allows your router to assign an IP address for your device automatically. There are also **STATIC** and **PPPOE** to choose for the network type. Please choose the one needed for your network environment and get the information needed from your installer or network service provider.


ADVANCED CONFIG					
CAMERA	WAN	E-MAIL	DDNS	PROTOCOL	EaZy
DETECTION	NETWORK TYPE				
ALERT	DHCP				
NETWORK	IP 192.168.001.010				
DISPLAY	GATEWAY 192.168.001.254				
RECORD	NETMASK 255.255.255.000				
DEVICES	PRIMARY DNS 8.8.8.8				
DCCS	SECONDARY DNS 168.95.1.1				
IVS	PORT 80				
NOTIFY	CHECK INTERNET AVAILABILITY BY ADDRESS www.google.com				
JOYSTICK					
EXIT	MAC: 00:0E:53:EC:A7:B4				

Step2: In the same menu, select **EaZy**. Enable EaZy Networking, and leave this page open. You'll need to scan the QR code later. You'll see either of the setup pages below. Go to "1.1.2 EagleEyes Setup" to know which option you should choose during setup.

Type 1 ("EaZy" on EagleEyes)

WAN	E-MAIL	DDNS	PROTOCOL	EaZy
ENABLE EAZY NETWORKING				ON
				
000E532B8613				

Type 2 (Both "EaZy" and "QR Code" on EagleEyes)

WAN	E-MAIL	DDNS	PROTOCOL	EaZy
ENABLE EAZY NETWORKING				ON
MAC: 000E53ECA7B4				
UUID: e736dcbf-d4bb-4ca8-86fd-62658e2ecec1				
PORT: 80				
				

1.1.2 EagleEyes Setup

Two options can be chosen for EaZy Networking: **EaZy** and **QR Code**. **EaZy** is used for both recorders and IP cameras while **QR Code** is used only for recorders.

When a device is configured to the internet via **EaZy**, the person who configures the device has the administrator permission of this device and also has the power to assign who can access the device remotely, by the web browser of Internet Explorer or the mobile app of EagleEyes.

When a device is configured to the internet via **QR Code**, everyone has the right to access the device as long as he/she is able to scan the QR code of the device. However, he/she can only access the device via the mobile app of EagleEyes. Internet Explorer is not supported.

By QR Code (For Type 2 only)

Step1: Open EagleEyes on your mobile device, and select “**Add**” on the bottom. Then, click **QR Code**.

Step2: Scan the QR code shown on your recorder, and enter the title of this device and its user name and password.

Step3: Make sure you see the device type when you tap **Get Type**. If not, the device is not connected properly. Then, Tap **Apply** to complete the process, and you’re ready to see the live view.

Note: For the first time to connect your device to the internet, the default user name and password are both **admin**. If it’s been configured before, make sure you’ve known its current user name and password since they may be changed for security purpose.

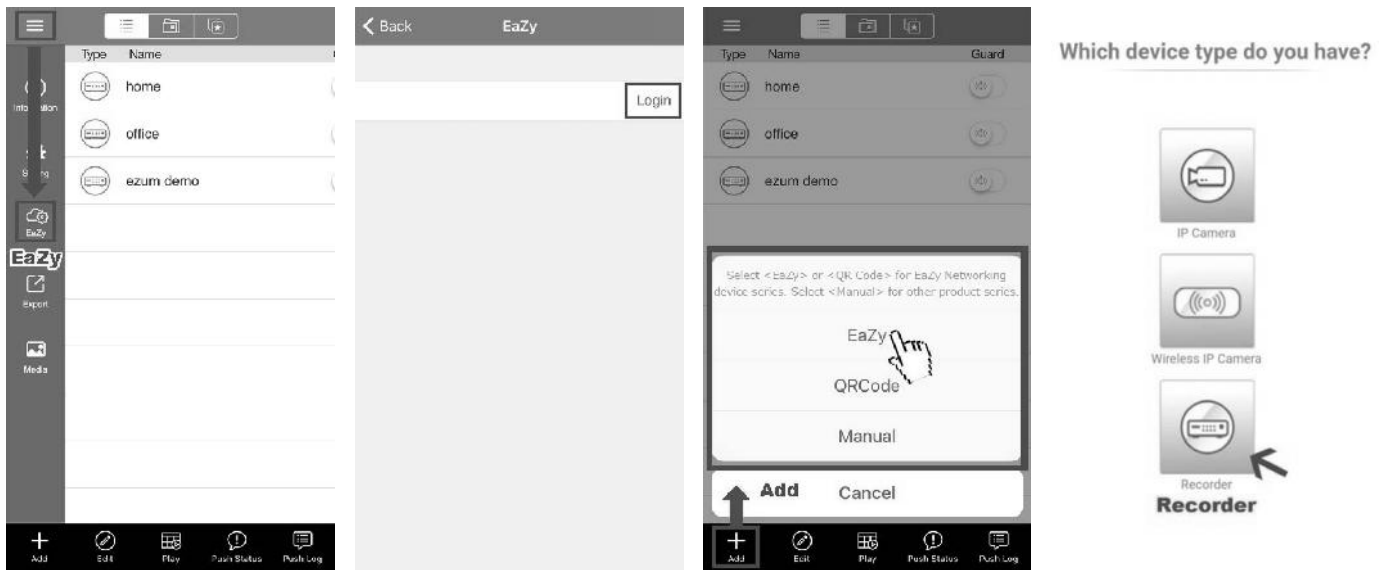



By EaZy (For Type 1 and Type 2)

Step1: Open EagleEyes on your mobile device, and select “...” on the top left corner in the address book. Then, click **EaZy**.

Step2: Click **Login** and register an account for “Cloud Service”. If you’ve got an account, please just log in.

Step3: Go back to the address book and click **+** to add a new device. Select **EaZy**, and choose the recorder icon to continue.



Step4: Click  in the section of **MAC address** to open the QR code scan page, and scan the QR code on the recorder screen mentioned in Step2. The MAC address will be filled automatically. Fill in the Captcha code manually, and click **Apply**.

Step5: Follow the on-screen instruction to finish the rest of the settings, and see if this device is added successfully to the address book as a cloud device.

At the same time, you'll be prompted to confirm if you want to remove the default user name and password.

- When the default user name and password are removed, you can **ONLY** use the user name and password of the cloud service to access this recorder locally and remotely. If you forget the user name and password of the cloud service, you could only reset the recorder and do all configurations again.
- When the default user name and password are kept, other people might be able to access this recorder if they know the default user name and password of this recorder.

Confirm if you want to keep the default account to continue, and return to the address book. You'll see the newly-added device in the address with a cloud icon on it.



Step6: Click the newly-added device and see if you could access successfully.

2. CONNECTION AND SETUP

Before the recorder is powered on, make sure you have installed a hard disk, connected at least one camera and a HDMI monitor. For details, please refer to the following sections.

Note: The recorder is designed to automatically detect the video system of the connected cameras (NTSC or PAL). To make sure the system detection is correct, please check if the cameras are connected to the recorder and power-supplied before the recorder is powered on.

2.1 SATA Hard Disk Installation

At least a hard disk is necessary for the recorder to save video footage, and firmware upgrade might be failed if there's no hard disk installed in this recorder.

Either of the following two types of hard disk installation is applicable for your recorder model. Please check the instructions below to see which installation method is the right one for your recorder to install a hard disk.

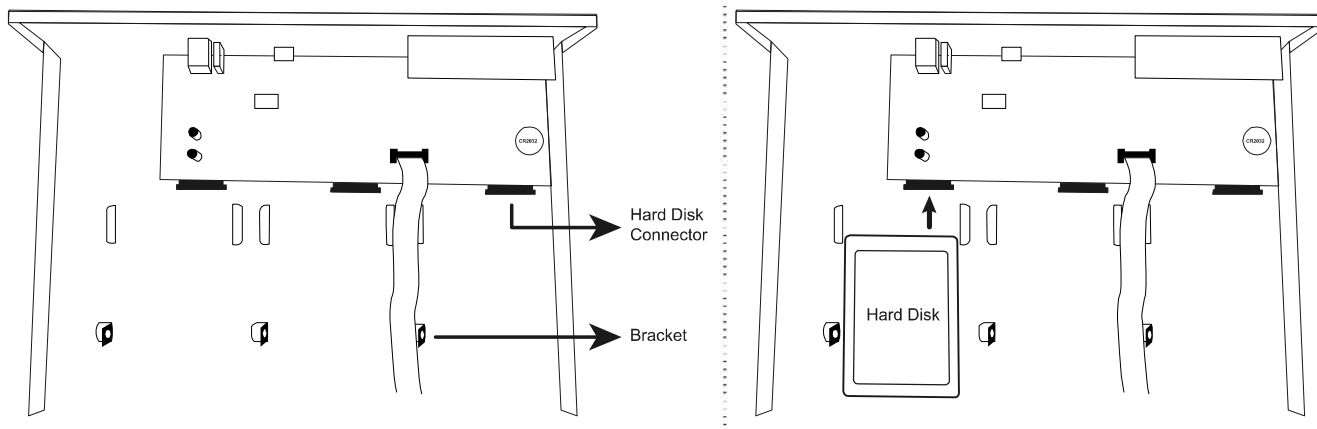
➤ Type 1

Note: Here takes an 8CH model as an example of how to connect a hard disk to your device. To know how many hard disks could be installed, please refer to the specifications of your device.

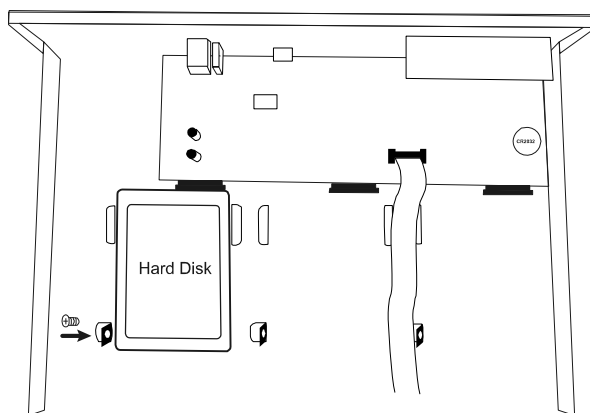
Step1: Remove the top cover, and find the hard disk connector and bracket in the device.

Step2: Get a compatible hard disk. With the PCB side facing down, insert the hard disk to one of the hard disk connector.

Note: To use a green hard disk, use **ONLY** the hard disk designed especially for surveillance to ensure the device works properly.



Step3: Fasten the hard disk to the bracket by securing the screw on the bracket.



Step4: Replace the top cover and fasten the screws you loosened in Step1.

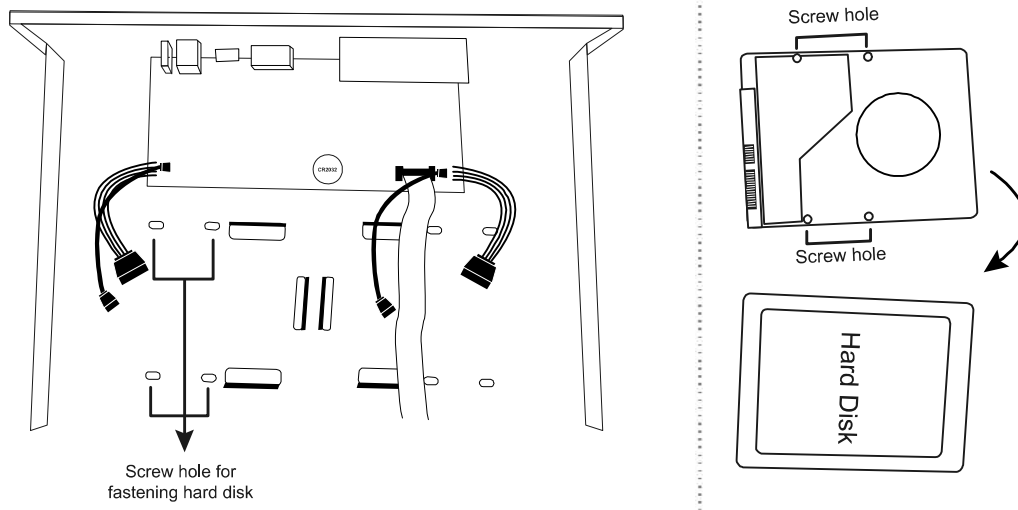
➤ Type 2

Note: Here takes an 8CH model as an example of how to connect a hard disk to your device. To know how many hard disks could be installed, please refer to the specifications of your device.

Step1: Remove the top cover, and find where to install a hard disk.

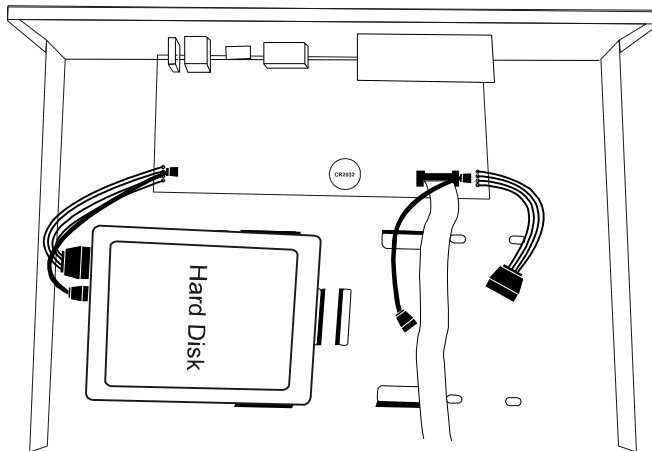
Step2: Get a compatible hard disk. With the PCB side facing down, find the screw holes on the recorder base, and place the hard disk in the recorder.

Note: To use a green hard disk, use **ONLY** the hard disk designed especially for surveillance to ensure the device works properly.



Step3: Align the screw holes on the base and the hard disk. Then, fasten the hard disk to the base with the supplied screws from the bottom side of the recorder.

Step4: Connect the data bus and power cable for the hard disk.



Step5: Replace the top cover and fasten the screws you loosened in Step1.

Step6: Remove the protective film on the bottom of the recorder if any to ensure the heat dissipation can work normally.

2.2 Camera Connection

Install the camera on the wall or ceiling based on your installation environment and camera type. For installation details, please refer to the user manual of your camera.

2.2.1 Normal Camera

STEP 1: Connect the coaxial cable to the recorder.


STEP 2: (Optional) Connect the audio cable to the recorder.

STEP 3: Power on the camera and see if the live video shows.

2.2.2 HD CCTV Camera Series

STEP 1: Connect the coaxial cable to the recorder.

STEP 2: Power on the camera and see if the live video shows.











STEP 3: On the recorder side, right click to show the main menu, and go to  (ADVANCED CONFIG) → **DCCS** → **OSD MENU** to configure the camera if needed.

ADVANCED CONFIG			
CAMERA	CH1	CH2	CH3
DETECTION	CH4		
ALERT	OSD MENU	SETUP	
NETWORK	DCCS MENU	SETUP	
DISPLAY			
RECORD			
DEVICES			
DCCS			
IVS	F.W.	1017	
NOTIFY	DEVICE	AVT Series	
JOYSTICK	CONNECTION	OK	
EXIT			

EZUM Camera Series

If the cameras you connected are our EZUM camera series, we have also designed a series of icons for quick camera setup. Based on the EZUM camera type connected, you may find some of the icons as listed below for quick camera configurations, and the sub-functions of each icon may also vary based on the camera connected.

Path: Bottom left on each camera channel view → .


	Day & Night Configure the day and night modes of the camera		IR Management Manually adjust the brightness of IR LEDs.
	Noise Reduction Reduce image noise if needed.		Optics Manually change the shutter speed if needed.
	Color Manually adjust the color-related parameters if needed.		Image Enhancement Enhance the image performance for better sharpness and overall identification even in overexposure areas.
	Zoom Used with the motorized lens cameras for optical zoom.		Hot Point Click on the screen to move the surveillance area to the point just clicked.
	PTZ Control Open the PTZ control panel to pan, tilt, zoom and cruise the camera.		Advanced Set other camera parameters such as camera system, and mirroring or flipping camera images.

2.2.3 Other brand's speed dome camera

Note: The recorder must support RS485 connection to connect a speed dome camera. Please check the specifications of your recorder for details.

STEP 1: Connect the coaxial cable to the recorder.

STEP 2: Find where the connectors of RS485-A and RS485-B are located on the rear panel of the recorder, and follow the instructions of your camera manual to connect to the recorder. Then, power on the camera.

STEP 3: On the recorder side, right click to show the main menu, and go to  (ADVANCED CONFIG) → **DEVICES** to set the camera.