Multilingual Version

[English](#)

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H.265 XVR SERIES

QUICK START

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

Complete
User Manual

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. 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 bottom right corner is 🖥️⚡, not 🖥️ₓ.
- You have an iOS / Android mobile device with EagleEyes installed.

1.1 Via EagleEyes on iOS / Android Device

Step1: Go to **MENU → NETWORK → WAN**. Set **NETWORK TYPE** to **DHCP**, and make sure the network icon on the bottom 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.

WAN	WAN		
DDNS	NETWORK TYPE	DHCP	⌄
E-MAIL	IP	192.168.1.112	
FTP	GATEWAY	192.168.1.254	
EaZy	NETMASK	255.255.255.0	
	PRIMARY DNS	168.95.1.1	
	SECONDARY DNS	139.175.55.244	
	PORT	88	
	INTERNET AVAILABILITY ADDRESS	www.google.com	
	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.

LAN	EaZy	
DDNS	ENABLE EAZY NETWORKING	ON
E-MAIL		
FTP		
EaZy	MAC: 000e53eca7b4	
	UUID: E736DCBF-D4BB-4CA8-86FD-62658E2ECEC1	
	PORT: 80	
	EAZY NETWORKING OFFLINE	

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

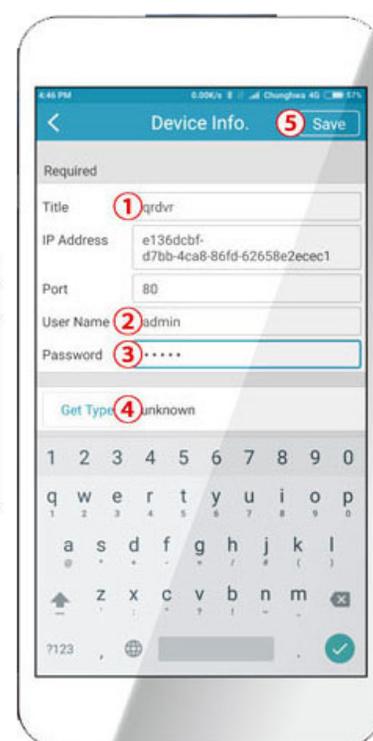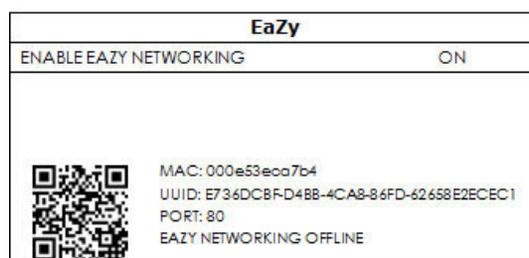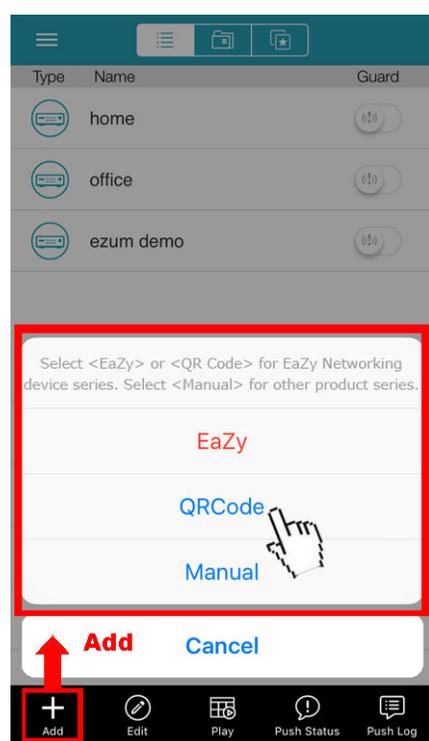Step1: Open EagleEyes on your mobile device, and select **Add** on the bottom. Then, click **QR Code**.

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.
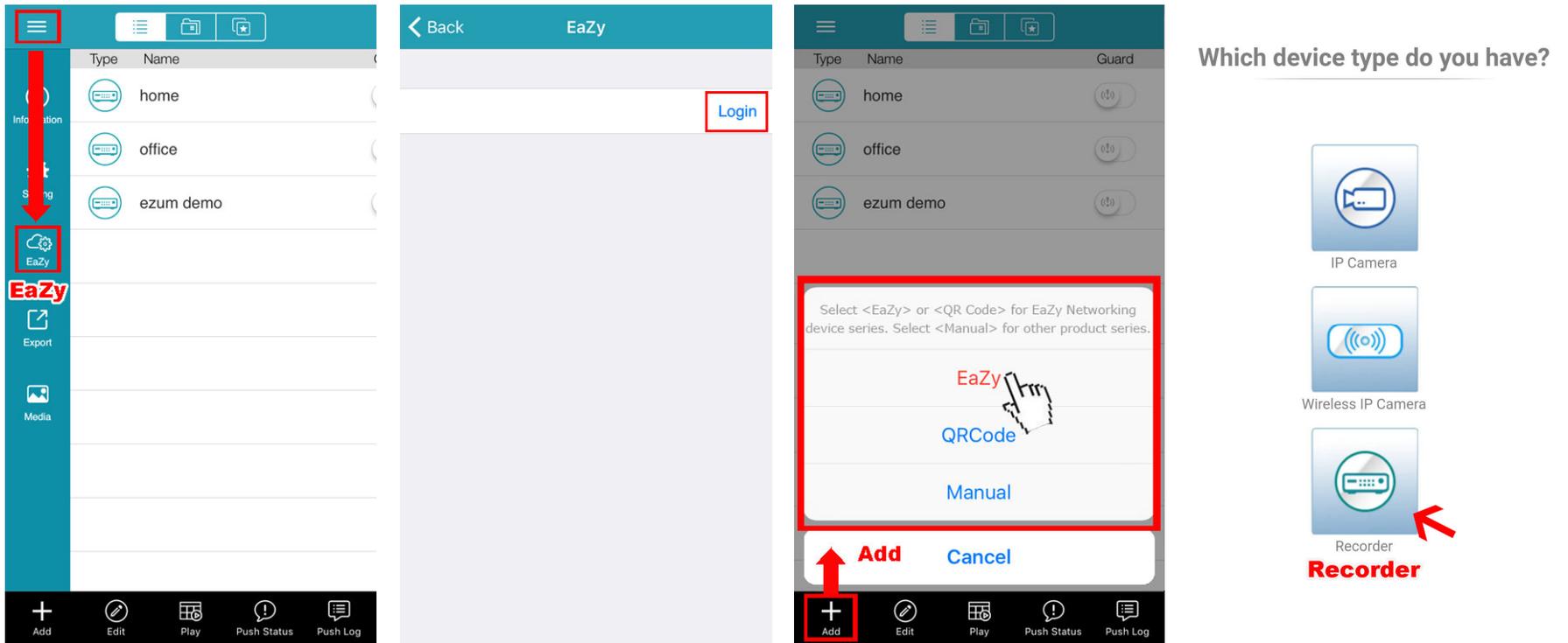

By EaZy

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

2.1 Hard Disk Installation

Note: The illustrations below are using a 4CH model as an example. The methods of how to install a hard disk are the same for all models.

Note: It's necessary to install a hard disk first before firmware upgrade to ensure the upgrade process works properly.

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

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.
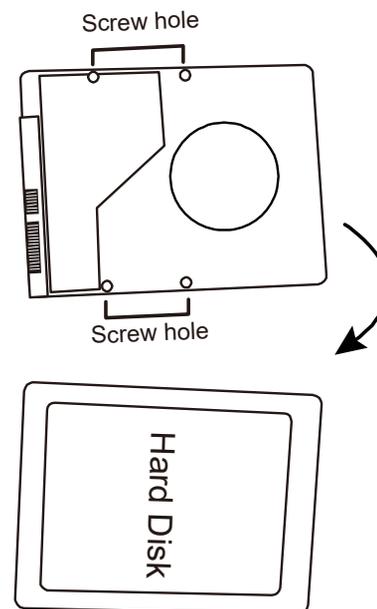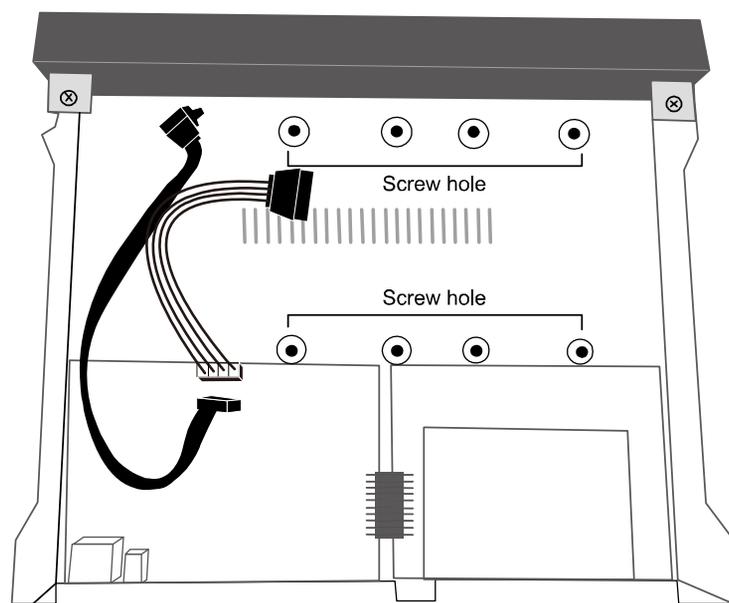
Step3: Connect the data bus and power cable for the hard disk.

Step4: Align the screw holes on the base and the hard disk. Then, fasten the hard disk o the base with the supplied screws from the bottom side of the recorder.
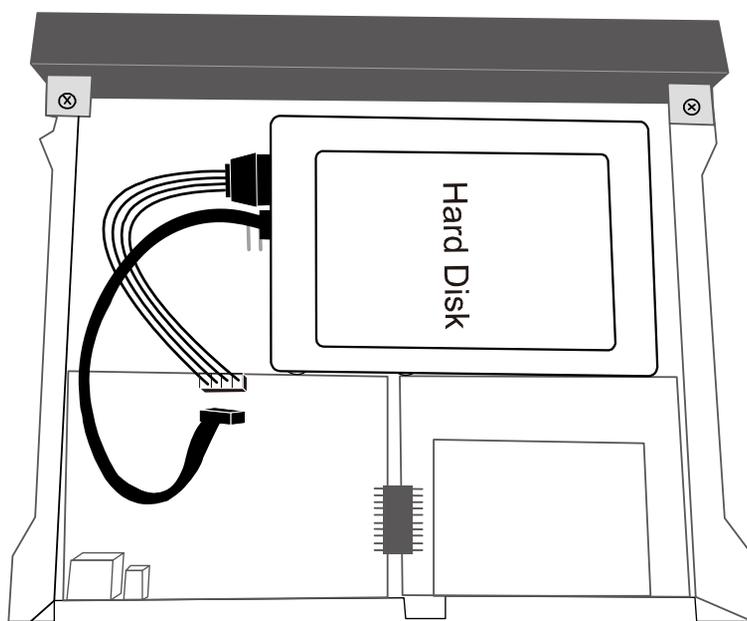

Step5: Replace the top cover and fasten the screws you loosened in Step1.

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

Install a third hard disk (optional)

Step1: Check the specifications of your recorder and see if it supports this feature. If yes, find the hard disk bracket as illustrated on the right and remove it.

Step2: Get a compatible hard disk. With the PCB side facing up, fasten the hard disk to the bracket as illustrated on the right.

Step3: Reinstall the bracket with the hard disk installed back to your recorder.

Step4: Connect the data bus and power cable for the hard disk.
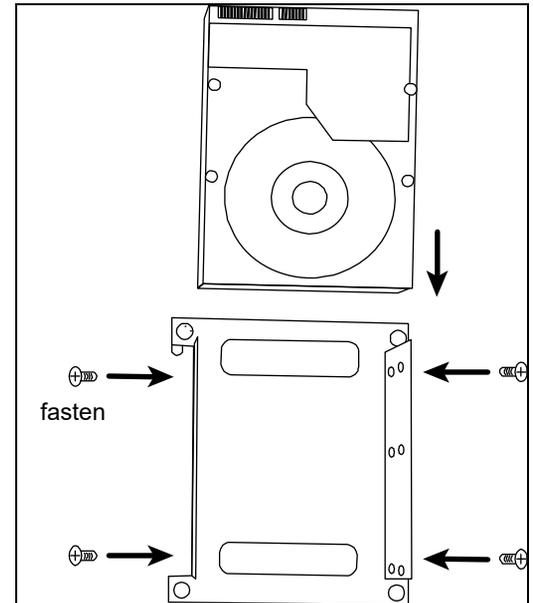
Add eSATA interface with optional SATA-to-eSATA cable (optional)

Note: The illustrations below are using a 16CH model as an example. The methods of how to install the cable are the same for all models which support this feature.

Step1: Check the specifications of your recorder and see if it supports this feature. If yes, find the reserved hole on the rear panel of your recorder as illustrated on the right.

Step2: Remove the top cover of the recorder to reveal its main board. Remove the thin piece of metal that block the reserved hole. Then, remove the SATA cable on the board.
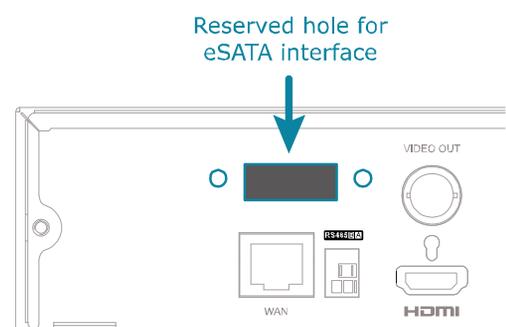
Note: It will consume one SATA port to add an eSATA interface on the mainboard of your recorder, which means you'll lose one hard disk which can be **installed** inside your recorder.

Step3: Get a SATA-to-eSATA cable and connect it to the board as illustrated below.

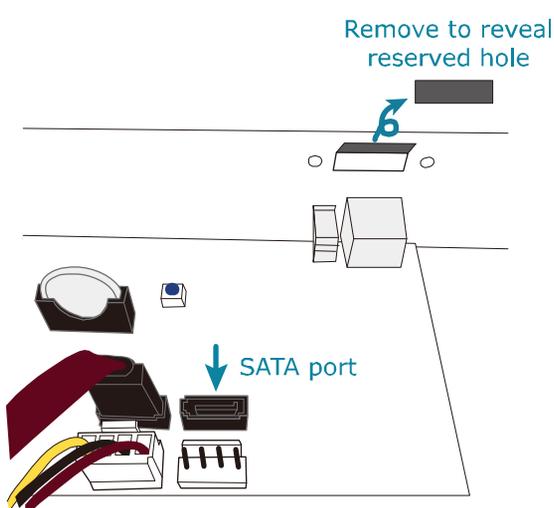**Note:** The SATA-to-eSATA cable is optional and need to purchase separately.
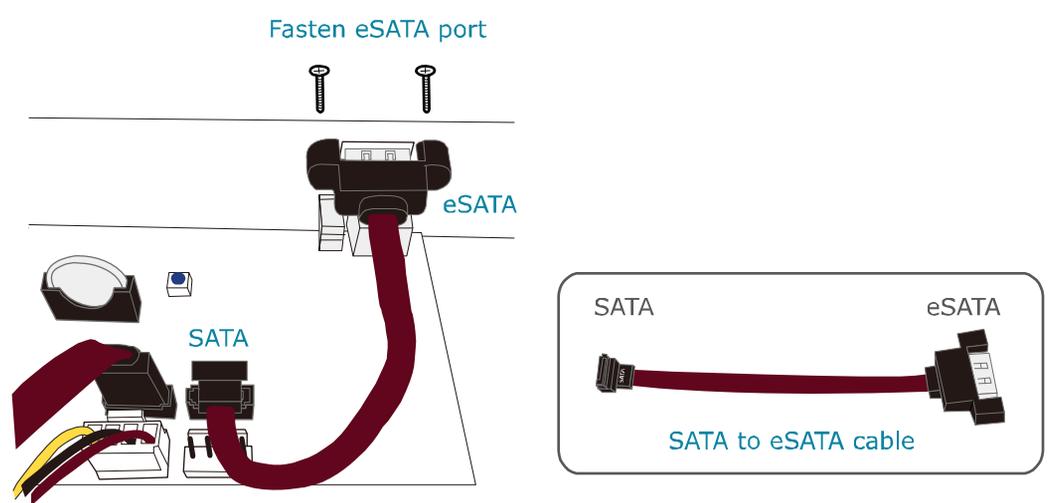
Figure 1

Figure 2

2.2 Hard Disk Mounting

Power on your recorder and wait till the initialization is completed. Then, check the hard disk indicators on the front panel to make sure each hard disk installed is detected.

Right click the mouse to exit from the full screen mode. Click **MENU** → **STORAGE** to see if all hard disks you inserted are detected, and click ⊻ one by one to mount them. Wait till the hard disk is mounted and the status shows **READY**. When you're prompted to clear the hard disk, choose **YES**.

2.3 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.
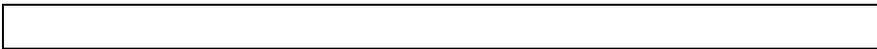
Step1: Connect the coaxial cable to the recorder.
Step2: Get a regulated adapter to connect the camera and power it on.

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

Step1: Connect the coaxial cable to the recorder.
Step2: Find where the connectors of RS485-A and RS485-B are located on the recorder rear panel, and follow the instructions of your camera manual to connect to the recorder. Then, power on the camera.
Step3: On the recorder side, right click to show the main menu, and go to **MENU** → **PERIPHERAL** → **DEVICES** to set the camera.
   a) Select the device to **PTZ**.
   b) Set the ID to the value the same as the one set in the camera.
   c) Select the protocol to **P-P**, **P-D**, **S-T** or **S-E**.

Note: **P-P** and **P-D** are protocols used Pelco, and **S-T** and **S-E** are protocols used by Samsung.

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   d) Set the baud rate to the value the same as the one set in the camera.
   e) Set the interface to **RS485**.

LOCAL	DEVICES									
JOYSTICK										
DEVICES	CHANNEL TITLE	DEVICE		ID	PROTOCOL		RATE		INTERFACE	
	CH1	PTZ	⌄	1	P-P	⌄	9600	⌄	RS485	⌄
	CH2	PTZ	⌄	0	NORMAL	⌄	2400	⌄	COAXIAL	⌄
	CH3	PTZ	⌄	0	NORMAL	⌄	2400	⌄	COAXIAL	⌄
	CH4	PTZ	⌄	0	NORMAL	⌄	2400	⌄	COAXIAL	⌄
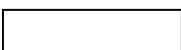
Note: Check the specifications of your recorder and see if your recorder supports IP camera connection.

Step1: Prepare a switch / router, and connect the recorder and the IP camera to the router with RJ45 network cables.
Step2: Make sure your camera supports DHCP function to allow the connected router to assign an IP address to the camera.
   If your camera doesn't support this function, please check its user manual to know how to manually change the IP address of your camera and make sure its IP address is in the same network segment as the one your router uses.
Step3: Power on the camera.

Step4: On the recorder's live view, choose **MENU → CAMERA → CONNECTION** to go to the setting page. For the channel to which you want to connect the IP camera, change the interface from **COAXIAL** to **IPCAM**.

CONNECTION												
CHANNEL TITLE	INTERFACE	EDIT	☐ENABLE	URI	PORT	DEVICE TYPE	VENDOR	MODEL	STREAM PROTOCOL	METHOD	PATH1	PATH2
CH1	IPCAM ∨	✎ 🗑	☐	192.168.1.11	88	IPCAM	AVTECH		RTP-Unicast	TCP		
CH2	IPCAM ∨	✎ ⊞	☐									
CH3	COAXIAL ∨	✎ ⊞	☐									
CH4	COAXIAL ∨	✎ ⊞	☐									
										BATCH		IP SEARCH

Step5: Choose **IP SEARCH** to go to the **IP SEARCH** page directly and start searching the connected IP cameras. You'll see the list of every connected IP camera with its connection status to this device and MAC address. Click ☐ to assign the camera to the channel automatically and choose **ADD** to complete.

IP SEARCH									
ASSIGN	EDIT	DEVICE TYPE	IP	NETMASK	GATEWAY	PRIMARY DNS	PORT	MAC	VENDOR
☑ CH2	✎	IPCAM	192.168.1.12	255.255.255.0	192.168.1.1	8.8.8.8	88	00:0E:53:31:06:E5	AVTECH
☐	✎	IPCAM	192.168.1.12	255.255.255.0	0.0.0.0	8.8.8.8	88	00:0E:53:31:06:E5	ONVIF
☐	✎	IPCAM	192.168.1.13	255.255.255.0	192.168.1.1	8.8.8.8	88	00:0E:53:31:15:D1	AVTECH
☐	✎	IPCAM	192.168.1.13	255.255.255.0	0.0.0.0	8.8.8.8	88	00:0E:53:31:15:D1	ONVIF
							REFRESH		ADD

3. CHANGE USER NAME AND PASSWORD

It's highly recommended to change the user name and password of this device to keep your account safe. Otherwise, any person could access this device if he knows the default user name and password.

If you didn't go through the setting wizard at the first place, you'll be prompted to change the user name and password:

WARNING
PLEASE BE ADVISED TO MODIFY THE DEFAULT ACCOUNT TO ENSURE YOUR INFORMATION SECUIRTY.
● MODIFY
○ REMIND ME LATER
○ DON'T REMIND ME ANYMORE
CONFIRM

Choose **MODIFY** to start the change immediately.

To change later, select **MENU → ACCOUNT → USER LIST**, and choose ✎ to change the default user name and password for "**admin**".

USER LIST		
EDIT	USER NAME	GROUP
✎ 🗑	admin	SUPERVISOR
⊞		

H.265 XVR
系列

快速設定

請先詳閱此使用手冊再開始使用本產品,並保留此手冊以供
日後查閱。
實際顯示介面與操作,請依您手邊的產品為主。

完整說明書下載

1. EAZY NETWORKING 設定

EaZy Networking 為一雲端上網服務，讓使用者可以輕鬆跳過複雜設定將錄影主機連線上網。影像傳輸速度會受到同時間使用此服務的其他帳號數量而定，以及您自身使用網路的傳輸速度。

EaZy Networking 需透過 EagleEyes APP 才能設定。在使用此功能之前，請先確定：

- 錄影主機已接到路由器或交換器，而且該路由器或交換器確定已連線上網。
- 錄影主機右下角的網路圖示為 ⬚。
- 您的手機 / 平板已安裝 EagleEyes。

1.1 使用 EagleEyes 在 iOS / Android 行動裝置進行設定

1.1.1 錄放影機設定

步驟 1：選擇**選單 → 網路 → 網際網路**。將**網路類型**設為 **DHCP**，然後回到主畫面確認右下角的網路圖示是否有變成 ⬚。

備註：選擇 **DHCP** 後，路由器就自動分配一組 IP 位址給錄影主機使用。**網路類型**還另有**固定 IP** 和 **PPPOE** 可以選擇。請依您實際使用的網路環境選擇適合的選項，然後洽詢您的安裝商或網路服務供應商取得設定所需的資料。

網路設定	網路設定	
DDNS	網路類型	DHCP ∨
電子郵件	IP 位址	192.168.1.112
FTP	閘道	192.168.1.254
EaZy	網路遮罩	255.255.255.0
	主要 DNS	168.95.1.1
	次要 DNS	139.175.55.244
	連接埠	88
	可用網路位址	www.google.com
	MAC 00:0E:53:00:13:77	

步驟 2：選擇 **EaZy**。啟用 EaZy Networking 服務，然後先暫時停留在此頁。稍後會需要回來這裡掃描 QR 碼。

網際網路	EaZy	
DDNS	啟動 EAZY NETWORKING	開啟
電子郵件		
FTP		
EaZy	MAC：000e53eca7b4 UUID：E736DCBF-D4BB-4CA8-86FD-62658E2ECEC1 埠：80 EAZY NETWORKING 上線	

1.1.2 EagleEyes 設定

EaZy Networking 服務設定有兩種選擇：**EaZy** 和 **QR Code**。**EaZy** 適用於錄影主機和網路攝影機，而 **QR Code** 只適用於錄影主機。

若是透過 **EaZy** 設定連線上網，設定的帳號就會成為登入的主帳號擁有最高使用權限，並且可以針對其他帳號指定登入使用權限。

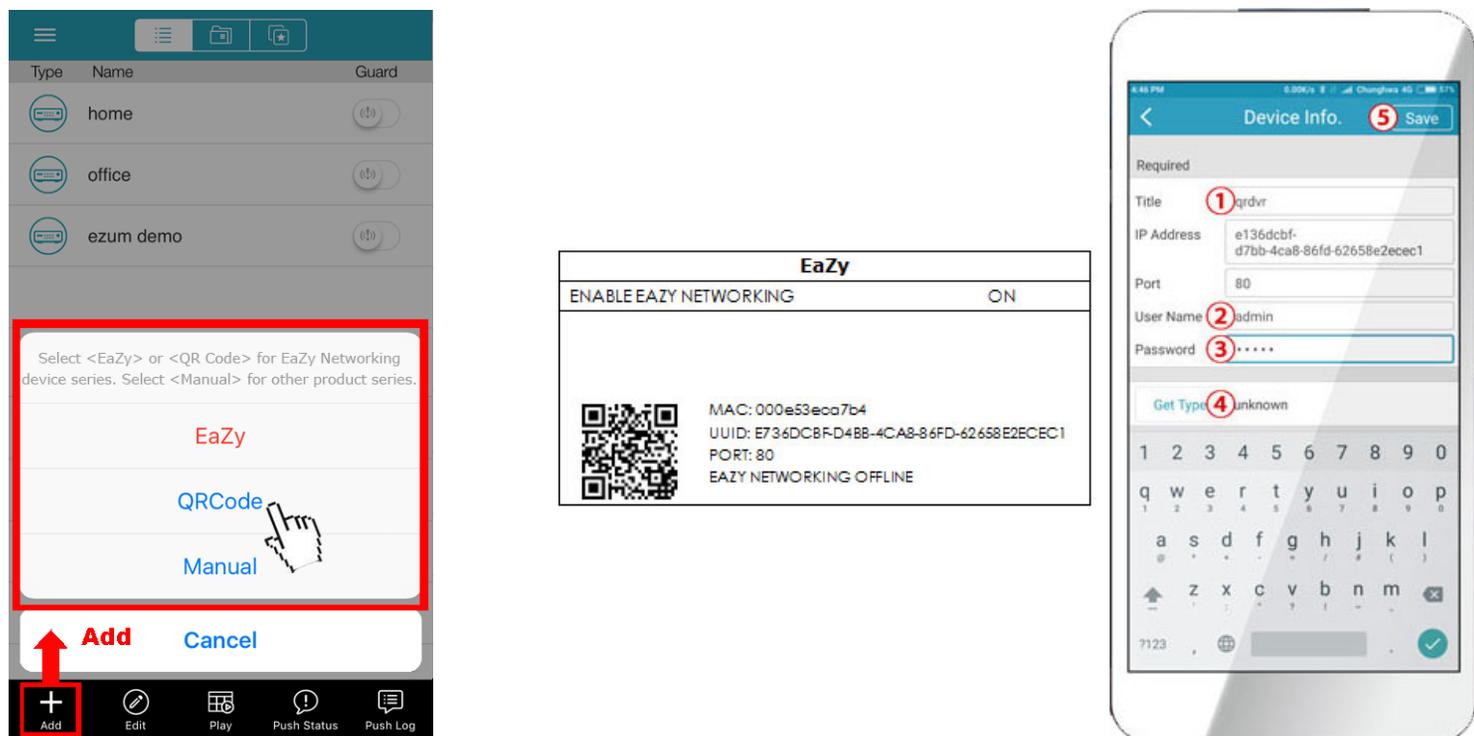若是透過 **QR Code** 設定連線上網，只要能夠掃描到錄影主機的 QR 碼，任何人都可以使用已知的帳號和密碼來遠端登入該主機。

透過 QR Code 設定

步驟 1： 開啟 EagleEyes，然後選擇**＋ (新增)** → **QR Code**。

步驟 2： 掃描錄影主機上的 QR 碼，然後輸入裝置名稱和登入用帳號與密碼。

步驟 3： 按**偵測機種**確認是可正確偵測到錄影主機。如果偵測失敗，就無法登入錄影主機。接著按**套用**完成設定並回到主畫面。

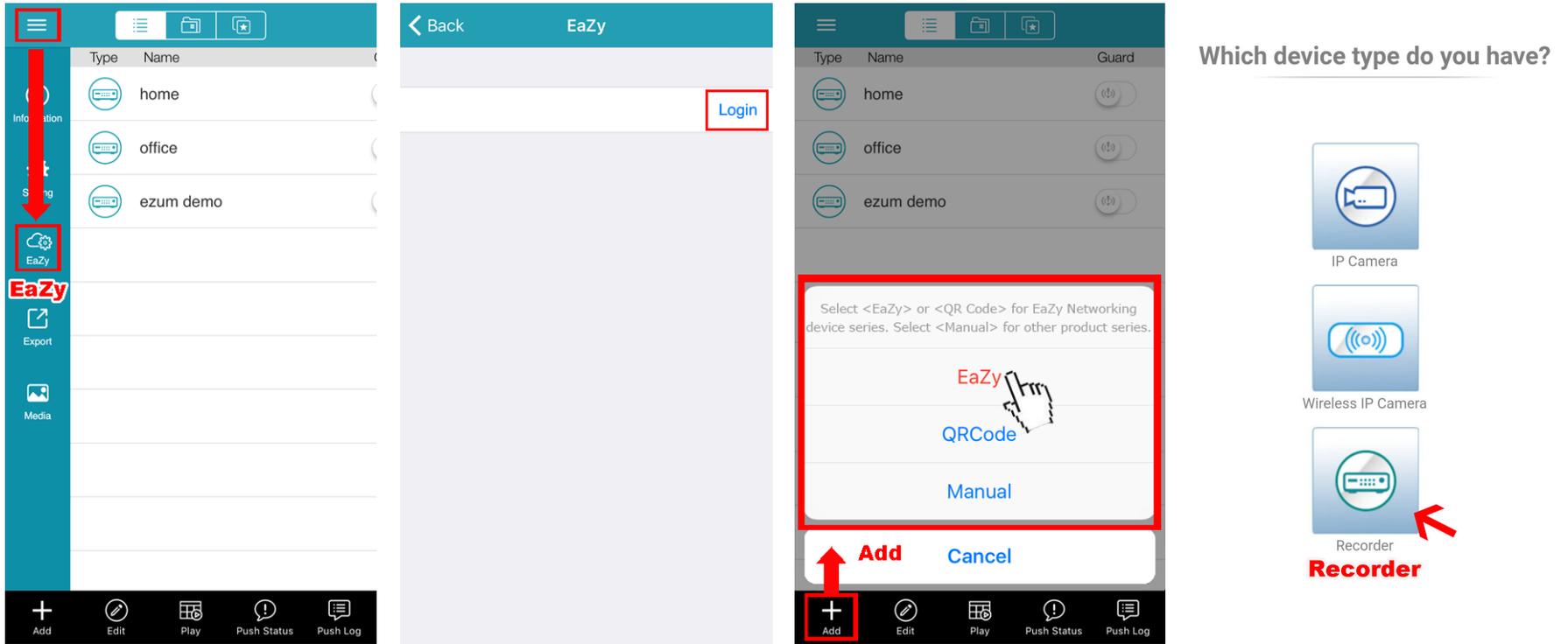**備註**：若為初次登入錄影主機，系統會強制要求您變更帳號和密碼。若之前已登入過錄影主機，請確保您知道登入錄影主機的帳號和密碼。

透過 EaZy 設定

步驟 1： 開啟 EagleEyes，然後按左上角的"**...**"後選擇 **EaZy**。

步驟 2： 按**登入**後選擇**免費註冊**註冊一個雲端帳號。若您之前已註冊過，請直接選擇**登入**。

步驟 3： 回到主畫面後，按 **+** 新增裝置，然後選擇 **EaZy**。選擇錄影主機圖示後繼續下一步。

Which device type do you have?

步驟 4： 在 **MAC 位址**按 開啟 QR Code 條碼掃瞄頁，然後掃瞄錄影主機畫面上的 QR Code。MAC 序號會自動填入。

手動輸入驗證碼，然後選**套用**。

步驟 5： 遵照螢幕指示完成設定，然後確認本裝置是否已成功加入 EagleEyes 通訊錄。

同時，EagleEyes 會提示您是否要刪除預設的使用者名稱和密碼。

■ 若刪除預設的使用者名稱和密碼，在本機和遠端要登入本裝置時，就**只能**使用雲端服務的使用者名稱和密碼。若您不小心忘記了雲端服務的使用者名稱和密碼，就只能將本裝置回復原廠設定，然後再全部重新設定一次。

■ 若選擇保留預設的使用者名稱和密碼，其他知道本裝置的預設使用者名稱和密碼的人就有機會偷偷登入本裝置。

請決定您是要保留或刪除預設的登入帳號，然後進行下一步。您會在 EagleEyes 通訊錄看到新加入的裝置，上面還有一朵雲的圖示，表示其為雲端裝置。

步驟 6： 點選新加入的裝置，確認是否可正常連線並看到畫面。

2.1 硬碟安裝

備註： 以下插圖使用 4 路型號作為範例。對於所有型號，安裝硬碟的方法都是相同的。

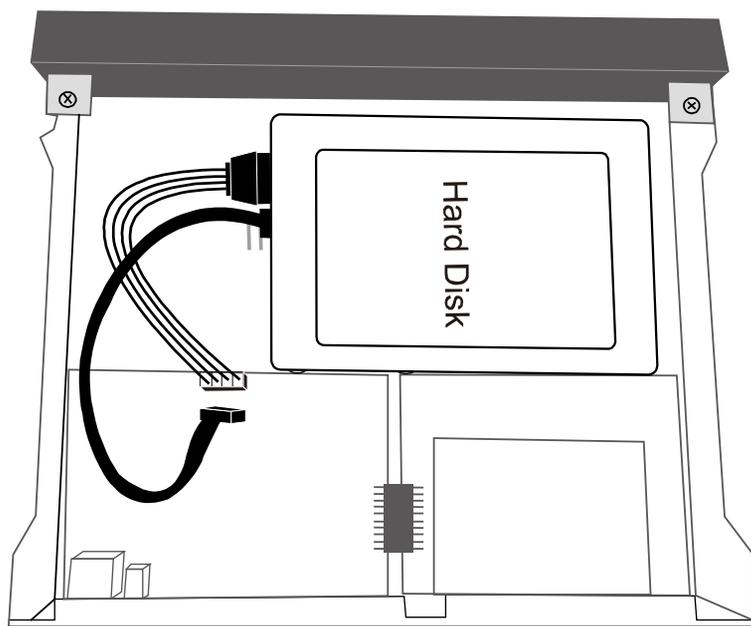**備註：** 在軟體升級之前必須先安裝硬碟，以確保升級過程能正常執行。

步驟 1：卸下上蓋，找到在錄影主機上安裝硬盤的位置。

步驟 2：取得相容的硬碟。將 PCB 面朝下，找到錄影主機底座上的螺絲孔，然後將硬碟放入錄影主機。

備註： 出貨並無隨附硬碟，請自行購買，並僅使用專為監控而設計的硬碟，以確保設備正常運作。

步驟 3：接上連接硬碟的 SATA 線和電源線。

步驟 4：將底座和硬碟上的螺絲孔對齊。然後，使用錄影主機底部提供的螺絲將底座上的硬碟固定。

步驟 5：裝上上蓋並鎖緊在步驟 1 中鬆開的螺絲。
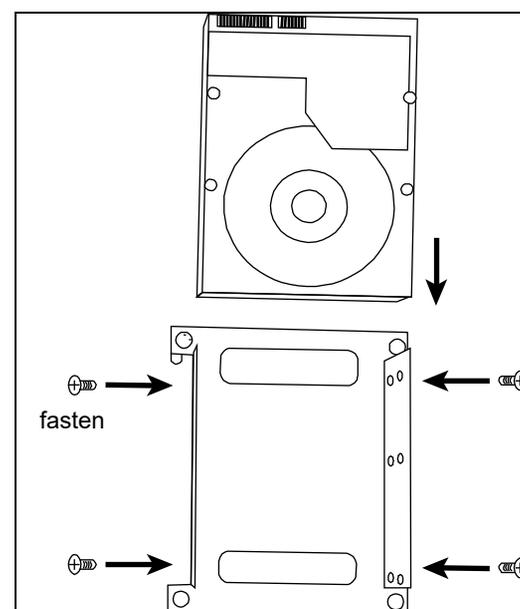
步驟 6：取下錄影主機底部的保護膜 (若有的話)，以確保散熱正常。

安裝第三顆硬碟 **(僅限特定型號))**

步驟 1：請先確認手上的錄影主機是否支援此功能。若有支援，便可在打開機殼時看到如右圖所示的硬碟支架。請取出支架。

步驟 2：將相容硬碟的 PCB 面朝上，再如右圖所示將硬碟鎖到支架上。
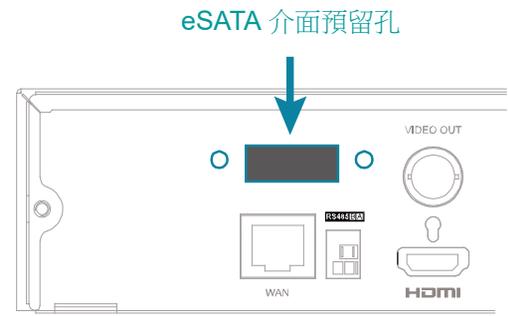
步驟 3：再將鎖好硬碟的支架裝回錄影主機內。

步驟 4：將資料與電源排線插到硬碟上。

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備註： 下圖以 16 路型號為例。對於支援此功能的所有型號，安裝此線材的方法是相同。

步驟 1：確認錄放影機的規格是否有支援此功能。如果是，請找到錄影主機
背板上的保留孔，如右圖所示。

步驟 2：取下錄影主機的上蓋，露出主板，並取下阻擋預留孔的薄金屬片。
然後，卸下一條主板上的 SATA 線。

eSATA 介面預留孔

備註： 新增一個 eSATA 介面需要用掉主板上的一個 SATA 埠，意即這台錄影主機內能安裝的硬碟會少掉一顆。

步驟 3：取得 SATA 轉 eSATA 介面轉接線並將其連接到主板，如下圖所示。

備註： SATA 轉 eSATA 介面轉接線是選配線材，需另外購買。

移除擋片

鎖緊 eSATA 介面

eSATA

SATA 埠

SATA

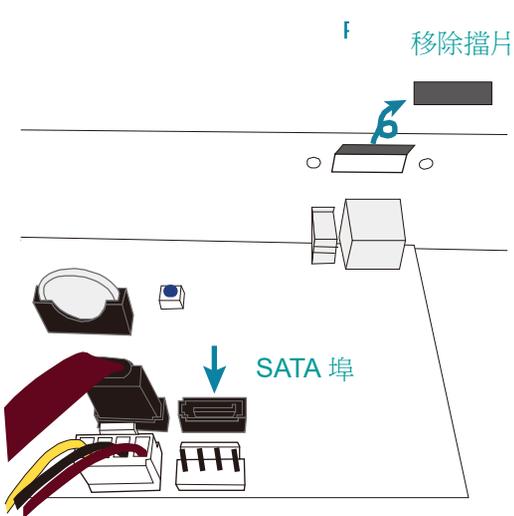SATA   eSATA

SATA 轉 eSATA 線

圖 1   圖 2
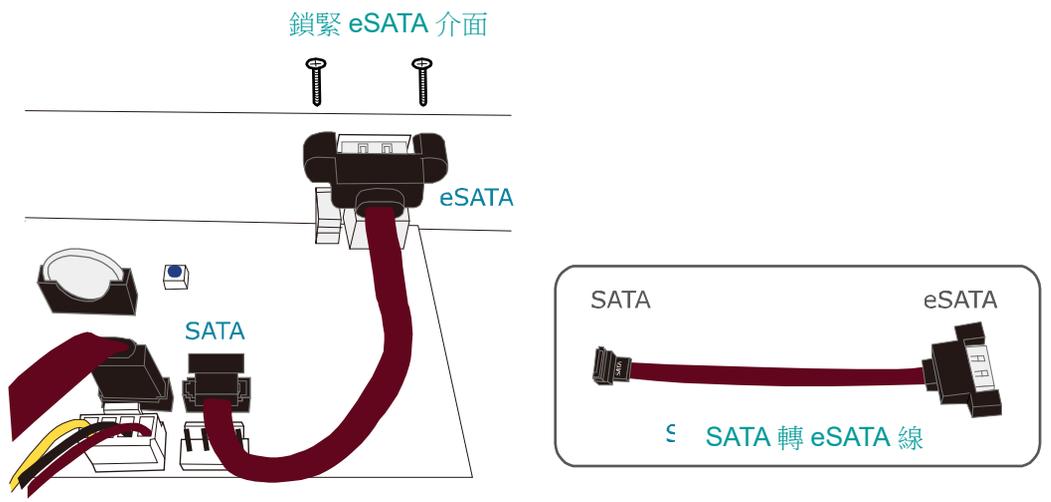
2.2 掛載硬碟

將錄影主機上電後等待開機完成。接著，檢查硬碟面板的硬碟指示燈，確認是否有偵測到安裝的硬碟。

按滑鼠右鍵退出全螢幕模式 (若有的話)，然後按**選單 → 儲存**查看是否已偵測到所有安裝好的硬碟，以及各硬碟的狀態是否為**己就緒**。若不是**己就緒**，請按 口 開始掛載硬碟，並等到狀態改為**己就緒**。若系統要求您清除硬碟資料，請選擇**是**。

2.3 連接攝影機

請先將攝影機安裝到您想要安裝的地點或位置。如需得知如何安裝，請參閱其各自的使用說明書。

步驟 1：使用同軸線將攝影機連接到錄影主機。

步驟 2：將攝影機上電。

連接其它品牌的快速球攝影機

備註：若要連接其他品牌的快速球攝影機，錄影主機與攝影機都必須支援 RS485 連線才行。詳情請參閱其各自的使用說明書或規格書。

步驟 1：使用同軸線將攝影機連接到錄影主機。

步驟 2：先找到錄影主機 RS485-A 與 RS485-B 的位置，然後再依照攝影機使用說明書的說明進行接線。最後，請將攝影機上電。

步驟 3：在錄影主機端，選擇**選單 → 週邊 → 外接裝置**進入攝影機設定頁面。
　　　　a) 將攝影機設為 **PTZ**。
　　　　b) 在 ID 輸入與攝影機使用相同的 ID。
　　　　c) 視攝影機支援而定，在通訊協定選擇 **P-P**、**P-D**、**S-T** 或 **S-E**。

備註：P-P 和 **P-D** 是 Pelco 使用的通訊協定，而 **S-T** 和 **S-E** 則是 Samsung 使用的通訊協定。

　　　　d) 選擇與攝影機使用相同的鮑率值：**2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200**。
　　　　e) 設定介面為 **RS485**。

本機端	外接裝置					
搖桿						
本機警報輸入	頻道名稱	裝置	ID	通訊協定	鮑率	介面
本機警報輸出	CH1	PTZ ∨	1	P-P ∨	9600 ∨	RS485 ∨
外接裝置	CH2	PTZ ∨	0	一般 ∨	2400 ∨	同軸線 ∨
鐵捲門	CH3	PTZ ∨	0	一般 ∨	2400 ∨	同軸線 ∨
	CH4	PTZ ∨	0	一般 ∨	2400 ∨	同軸線 ∨

連接網路攝影機

備註：每台錄影主機可支援連接的網路攝影機數量是不同的，詳情請見其規格表。

步驟 1：將網路攝影機透過網路線接到路由器 / 交換器上。

步驟 2：請確認您的網路攝影機有支援 DHCP 功能，而且此功能已開啟。

　　　　若您的攝影機不支援此功能，請查看其使用說明書以得知如何手動變其 IP 位址，並確保該位址與您的路由器 / 交換器所使用的位址是位於同一個網段內。

步驟 3：將攝影機上電。

步驟 4：在錄影主機端，按**選單 → 攝影機 → 連接**進入設定頁面。選擇連接網路攝影機的頻道，然後將介面從**同軸線**改為 **IP**。

				連接								
頻道名稱	介面	編輯	☐ 啟用	URI	埠	裝置類型	廠牌	型號	資料傳輸協定	方式	次影像傳輸路徑 (必填)	錄影影傳輸路徑
CH1	IP ∨	✎ 🗑	☑	192.168.1.11	88	IPCAM	AVTECH		RTP-Unicast	HTTP		
CH2	同軸線 ∨	✎ ⊞	☑									
CH3	同軸線 ∨	✎ ⊞	☑									
CH4	同軸線 ∨	✎ ⊞	☑									
									批次處理		搜尋 IP 位址	

步驟 5：按**搜尋 IP 位址**，錄影主機會自動開始搜尋已連接的網路攝影機並列出清單。

按攝影機前的 ☐ 即可自動分配攝影機所屬的頻道，結束後請按**新增**。

				搜尋 IP 位址					
指定	編輯	裝置類型	**IP 位址**	**網路遮罩**	**閘道**	主要 **DNS**	**埠**	**MAC 位址**	廠牌
☑ CH2	✎	IPCAM	192.168.1.12	255.255.255.0	192.168.1.1	8.8.8.8	88	00:0E:53:31:06:E5	AVTECH-ITS
☐	✎	IPCAM	192.168.1.12	255.255.255.0	0.0.0.0	8.8.8.8	88	00:0E:53:31:06:E5	ONVIF
☐	✎	IPCAM	192.168.1.13	255.255.255.0	192.168.1.1	8.8.8.8	88	00:0E:53:31:15:D1	AVTECH-ITS
☐	✎	IPCAM	192.168.1.13	255.255.255.0	0.0.0.0	8.8.8.8	88	00:0E:53:31:15:D1	ONVIF
								更新	新增