



Instruction Manual

Rapid Deploy Range

Wireless Battery Powered CCTV Cameras

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1 Introduction to the Rapid Deploy Range

The Rapid Deploy cameras are a great way to quickly fit and secure a customer's premises. Without having to route wires back to a DVR.

1.1 Key Features

No cabling required

Using wireless Zip technology and a built in battery for power they need no cabling, just place the cameras where you need to get the best angle of view and that's it.

Long Battery Life

Up to 2 years standby and typically 1-2 weeks of moderate use - (works only when PIR detects movement)

Long Transmission Range - up to 200M

Working on the same frequencies as traditional WiFi, similar transmission distances can expect to be achieved. Read our Tip 482 for how to achieve the best results.

Zip NVR & DVR compatible

Once mounted the cameras can be set up in the Zip DVR or NVR to enable handy features such as 2-way audio and the built in PIR function that can be used to activate recordings.

Rapid Deploy - Fast to fit

The new Zip range of rapid deploy cameras are a great add-on to your Zip DVR or NVR CCTV system as no cabling means they take only a minute to fit.

WiFi style Transmission

These cameras transmit directly to the Rapid Deploy Receiver ([SEE020](#)) that plugs directly into the USB of your compatible Zip DVR or NVR so they require no real programming. NB. They are not designed to transmit to a standard WiFi access point.

2.8mm Wide Angle 2MP Cameras

A wide angle lens allows maximum coverage of a room or an area and the camera's handy brackets give lots of viewing options once wall mounted.

Built in IR (up to 8M)

On-board IR LEDs means the cameras can see in the dark, ideal if they are being used on a mobile site to catch fly tippers or in the home if you're watching your child or pets sleeping and prefer not to leave the lights switched on.

Built-in Microphone & Speaker for 2-way audio

A great way to "talk back" to an area you are recording – perfect for warning off an intruder.

Built-in PIR (up to 10M) for alarm inputs

Built in to the compact camera this helps to save battery life by activating the camera into wake up mode to transmit only when you need it.

4 Rapid Deploy Cameras per Receiver

Up to 4 of these camera units can transmit wirelessly to a mini receiver that simply plugs in to the back of your Zip NVR or DVR using a standard USB lead.

Black or White Compact Camera Design

Measuring just 14x9cm and available in 2 finishes either white (plastic) or gloss black metal, they can even be fitted outdoors and provide a great solution for a temporary or mobile set up.

Rechargeable Battery Packs

Spare packs make it easy to hot swap the batteries on these Rapid Deploy cameras so you can remove the existing pack and simply recharge it with a normal Micro (B) USB charger.

1.2 Required Tools / Handy Extras

- Screwdriver
- Drill
- Hammer

2 Connections & Wiring

The Rapid Deploy equipment consists of 3 main parts:

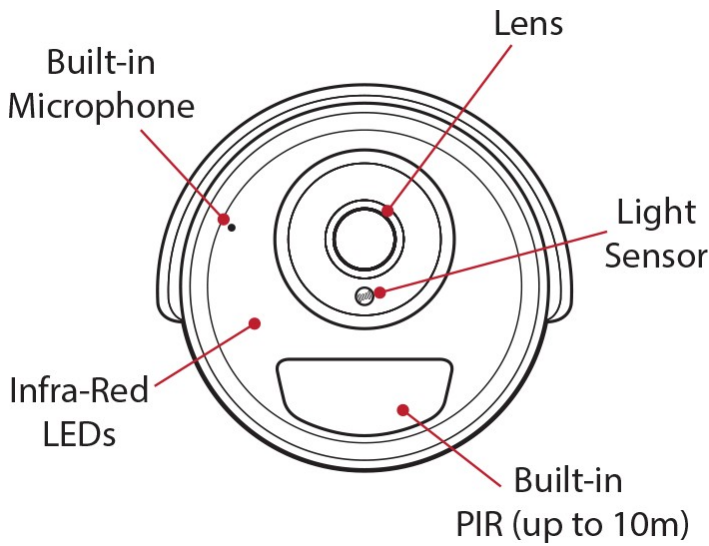
- Rapid Deploy Camera
- Rapid Deploy Receiver
- A compatible Zip DVR or NVR



2.1 Overview

- Up to 4 Rapid Deploy Cameras with 1 Receiver
- 1 Rapid Deploy Receiver can be used per Zip DVR or Zip NVR
- The Rapid Deploy cameras use the IP channels when connected to Zip DVRs. This means you can add 4 Rapid Deploy cameras to 8Ch and 16Ch DVRs or 2 Rapid Deploy cameras to a 4Ch Zip DVR.
- The Rapid Deploy Receiver plugs directly into the USB of your compatible Zip DVR or NVR

2.2 Cameras

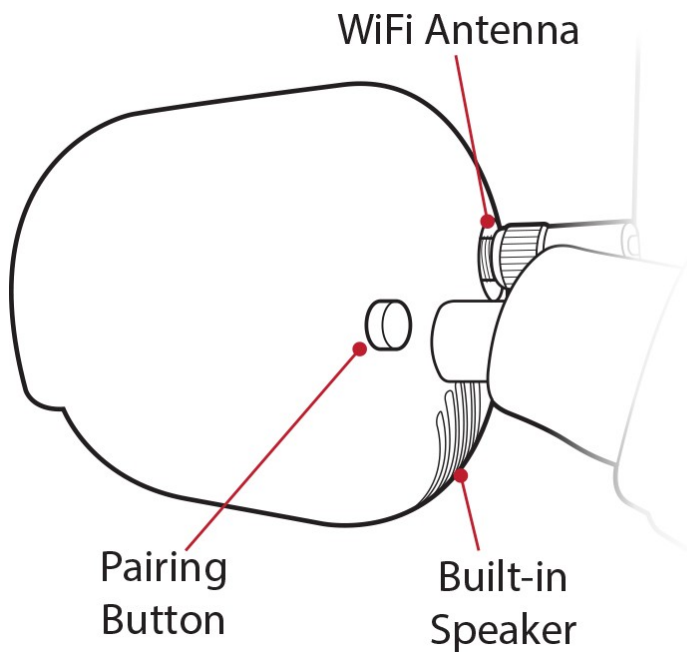


When the PIR is activated then the camera is activated and transmits data to the receiver.

It works by measuring the Infra Red (IR) light radiating from an object such as a human being in its field of view and detecting the subsequent radiant heat emitted.

At night time the light sensor is used to determine if the Infra-Red LEDs are also activated when the camera is activated by the PIR.

Two-way talk back can also be used when the camera is activated, using the Microphone on the front of the camera and the Built-in speaker.



2.3 Batteries



Spare packs make it easy to hot swap the batteries on these Rapid Deploy cameras so you can remove the existing pack and simply recharge it with a normal Micro (B) USB charger.

Battery Life from 20 hrs in continuous mode to nearly 2 and a half years in constant standby mode. Battery pack are rechargeable using a standard micro USB B type lead.

2.4 Receiver

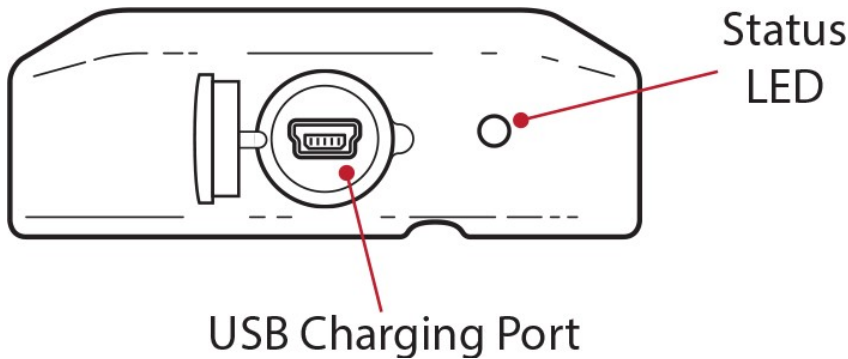
Rapid Deploy Receiver (SEE020) that plugs directly into the USB of your compatible Zip DVR or NVR.

Once plugged in you will see a green Status LED.



3 Powering & Charging

Before attempting [Setup](#)⁶ ensure the Rapid Deploy Camera has the battery inserted fully and has been charged.



Status LED:-

- Red = Charging
- Green = Charged (and plugged in)
- No Light = Not Charging

Micro (B) USB charger is required for the charging and powering of the Rapid Deploy Batteries.

With a 5V 2A Charger ≈ 6 hours to charge.

Micro (B) USB charger and lead are not supplied.

4 Setup Considerations

Before attempting Setup ensure the Rapid Deploy Camera has the battery inserted fully and has been [charged](#)⁶ .

The receiver needs to be [connected](#)³ via USB to the recorder before [pairing](#)⁹ .

The firmware required for the DVR and NVR is version 8 onwards.

4.1 POE NVR Channel Setup

For PoE ZIP NVRs, the channel configuration for IP Channels need altering before setting up the USB wireless channels.

Go to the menu of the DVR

Video > IP Channels

Switch Mode > Set to *Manual Mode*

The screenshot shows the ZIP NVR web interface. The top navigation bar includes icons for Video, Record, Alarm, AI, Network, Storage, and System. The left sidebar contains various configuration options like Channel Config, USB Wireless, IP Channels, Protocol Manage, PoE Power, Live, Image Control, PTZ, Video Cover, Motion, Deference, and Smart. The main content area displays a table of camera configurations. A dropdown menu for 'PoE Mode' is open, showing 'Auto Mode' and 'Manual Mode' options. A red circle highlights the dropdown menu.

No.	Edit	IP Address/Domain	Port	Manufacturer	Device Type	MAC Address	Software Version

Camera	Switch Mode	PoE Mode	Edit	State	IP Address/Domain	Subnet Mask	Port	Manufacturer	Device Type	Protocol	MAC Address	Software Version
PoE IP Cam1	Auto Mode	Auto Mode										
PoE IP Cam2	Auto Mode	Manual Mode										
PoE IP Cam3	Auto Mode	Auto										
PoE IP Cam4	Auto Mode	Auto										
PoE IP Cam5	Auto Mode	Auto										
PoE IP Cam6	Auto Mode	Auto										
PoE IP Cam7	Auto Mode	Auto										

Auto Assign IP to Camera(s) Delete Camera Default Password

Total Band Width:128Mbps, Used Band Width:0bps

The screenshot shows the ZIP NVR web interface. The top navigation bar includes icons for Video, Record, Alarm, AI, Network, Storage, and System. The left sidebar contains various configuration options like Channel Config, USB Wireless, IP Channels, Protocol Manage, PoE Power, Live, Image Control, PTZ, Video Cover, Motion, Deference, and Smart. The main content area displays a table of camera configurations. The 'PoE Mode' column now shows 'Auto' for all cameras, and the 'Switch Mode' column shows 'Manual Mode' for all cameras.

No.	Edit	IP Address/Domain	Port	Manufacturer	Device Type	MAC Address	Software Version

Camera	Switch Mode	PoE Mode	Edit	State	IP Address/Domain	Subnet Mask	Port	Manufacturer	Device Type	Protocol	MAC Address	Software Version
IP Cam1	Manual Mode	Auto	+									
IP Cam2	Manual Mode	Auto	+									
IP Cam3	Manual Mode	Auto	+									
IP Cam4	Manual Mode	Auto	+									
IP Cam5	Manual Mode	Auto	+									
IP Cam6	Manual Mode	Auto	+									
IP Cam7	Manual Mode	Auto	+									

Auto Assign IP to Camera(s) Delete Camera Default Password

Total Band Width:128Mbps, Used Band Width:0bps

Then proceed with [Channel Setup](#)

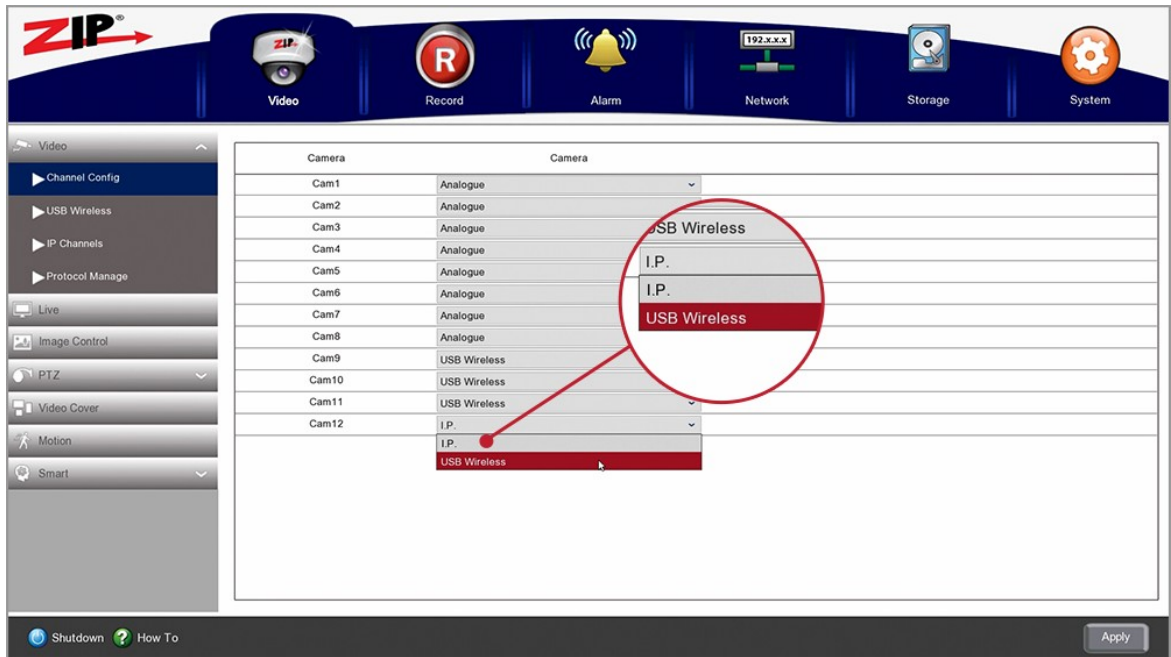
4.2 DVR Channel Setup

The channels needs configuring for the Rapid Deploy Receiver and Cameras.

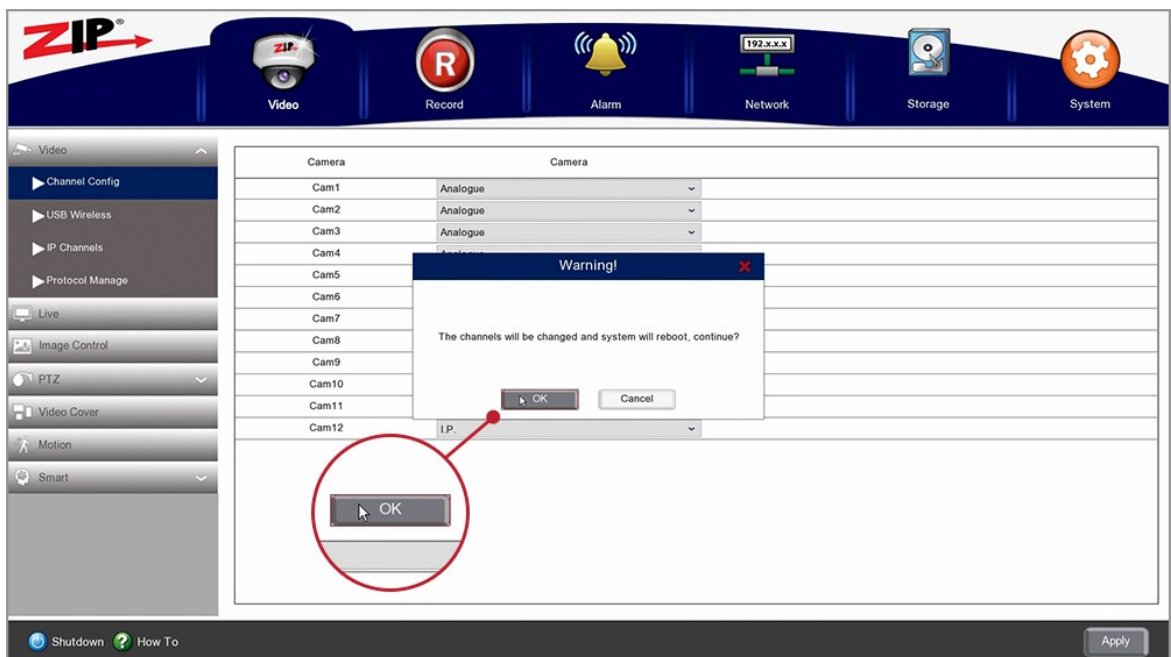
Go to the menu of the DVR

Video > Channel Config

On the last 4 cameras (2 on a 4Ch DVR) in the **DVR channel list** > Select **USB Wireless**



Select **Apply**



The DVR will require a reboot once applied, click **OK**

4.3 Pairing

When the channels have been set then the Rapid Deploy Cameras need pairing with the Receiver.

Pairing can only be done in the menu on the recorder.

Go to the menu of the DVR

Video > USB Wireless

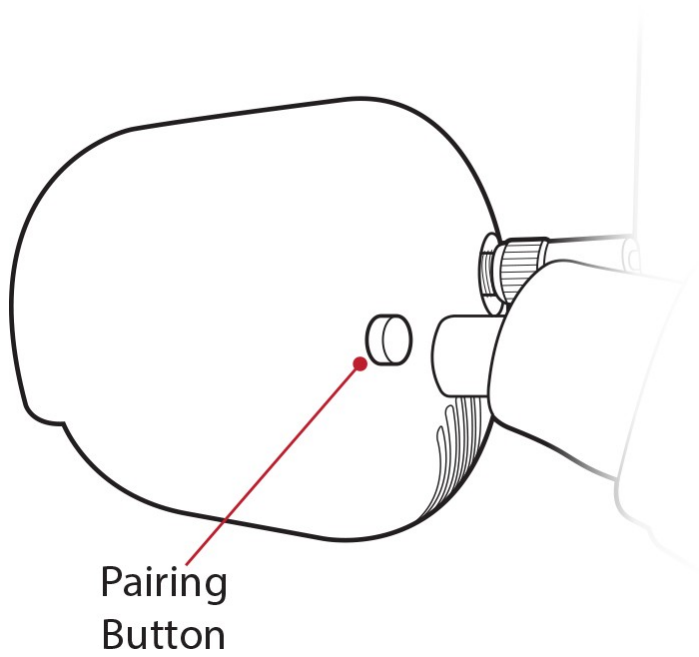
Click **Pair** to start the pairing mode with the Receiver

The screenshot shows the ZIP NVR web interface. The top navigation bar includes Video, Record, Alarm, Network, Storage, and System. The left sidebar shows the menu structure, with 'USB Wireless' selected under the 'Video' section. The main content area displays a table of camera configurations:

Camera	Channel Name	Pair State	Post Recording	Battery	Pair	Activate	Switch
W Cam1	IP CH1	Paired	10 s	0%			OFF
W Cam2	IP CH2	Paired	10 s	0%			OFF
W Cam3	IP CH3	Paired	10 s	0%			OFF

A red circle highlights the 'Pair' button for W Cam1, and a red arrow points to a 'Notice' dialog box that says 'W Cam1 is pairing...' with a 20s timer. The bottom of the interface includes 'Shutdown' and 'How To' buttons on the left, and 'Default' and 'Apply' buttons on the right.

Select the **Pair** button on the rear of the Rapid Deploy Camera



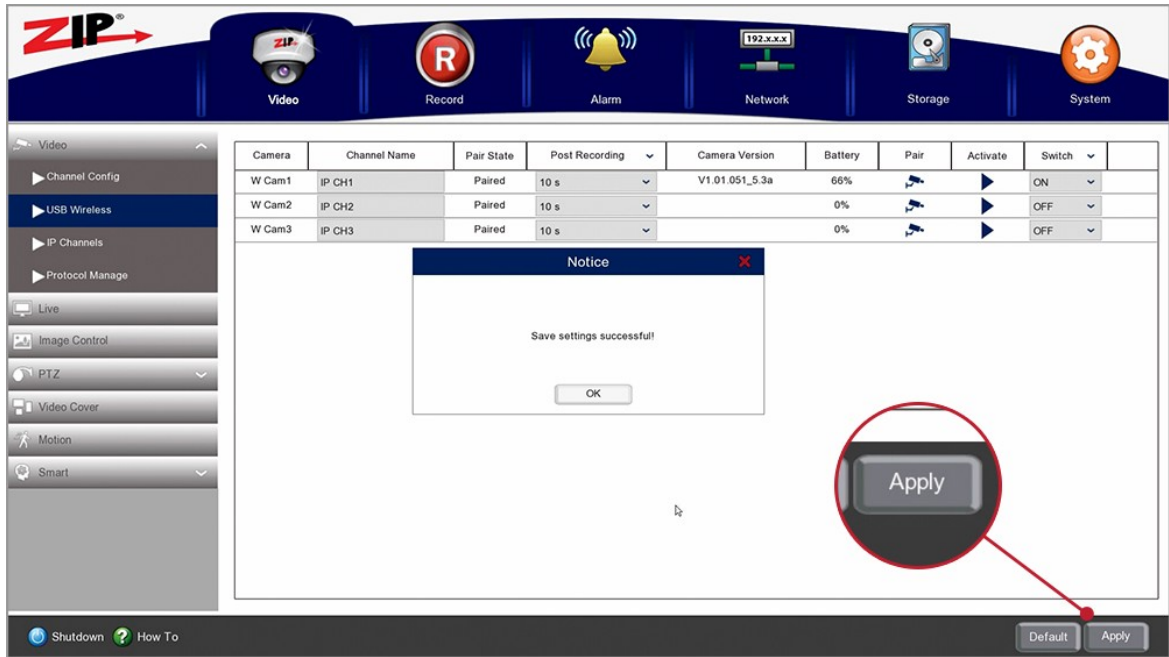
Pairing successful! Will display once complete

The screenshot shows the ZIP NVR web interface. At the top, there is a navigation bar with icons for Video, Record, Alarm, Network, Storage, and System. Below this is a sidebar menu with options like Channel Config, USB Wireless, IP Channels, Protocol Manage, Live, Image Control, PTZ, Video Cover, Motion, and Smart. The main content area displays a table with columns for Camera, Channel Name, Pair State, Post Recording, Battery, Pair, Activate, and Switch. The table shows three channels (W Cam1, W Cam2, W Cam3) all with a 'Paired' state. Below the table, a 'Notice' box displays the message 'Pairing successful!'. A red circle highlights the text 'Pairing successful!' in the notice box, with a red line pointing to the text in the table's Pair State column.

Camera	Channel Name	Pair State	Post Recording	Battery	Pair	Activate	Switch
W Cam1	IP CH1	Paired	10 s	0%			ON
W Cam2	IP CH2	Paired	10 s	0%			OFF
W Cam3	IP CH3	Paired	10 s	0%			OFF

Select Switch to **ON** for the Rapid Deploy Channel

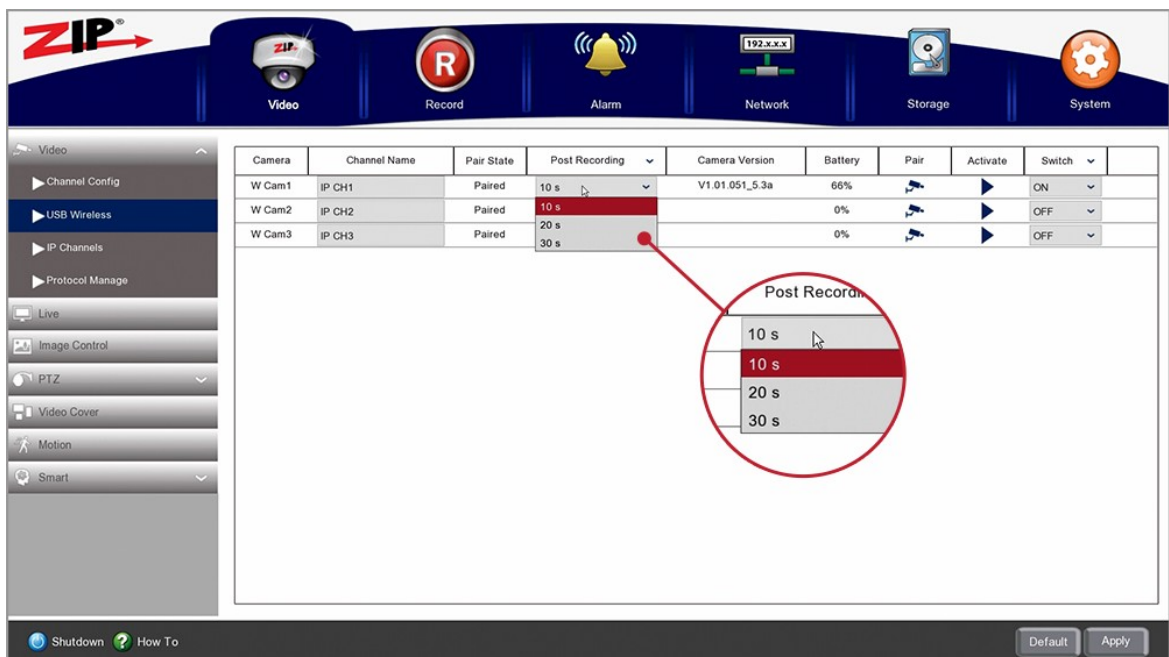
Click **Apply**



4.4 Constant Recording

The **Post Recording** can be adjusted for how long the DVR records for after the PIR has been activated.

Once set, Click **Apply**



Once the Battery is fully [charged](#)⁶ then the camera can be set to continuous recording.

Once set, Click **Apply**

This is only available if the USB is constantly connected to the Rapid Deploy camera.

The screenshot shows the ZIP NVR web interface. At the top, there is a navigation bar with icons for Video, Record, Alarm, Network, Storage, and System. On the left, there is a sidebar menu with options like Channel Config, USB Wireless, IP Channels, Protocol Manage, Live, Image Control, PTZ, Video Cover, Motion, and Smart. The main content area displays a table of camera configurations. The table has the following columns: Camera, Channel Name, Pair State, Post Recording, Camera Version, Battery, Pair, Activate, and Switch. The data rows are:

Camera	Channel Name	Pair State	Post Recording	Camera Version	Battery	Pair	Activate	Switch
W Cam1	IP CH1	Paired	10 s	V1.01.051_5.3a	100%			ON
W Cam2	IP CH2	Paired	Continuous		0%			OFF
W Cam3	IP CH3	Paired	10 s		0%			OFF

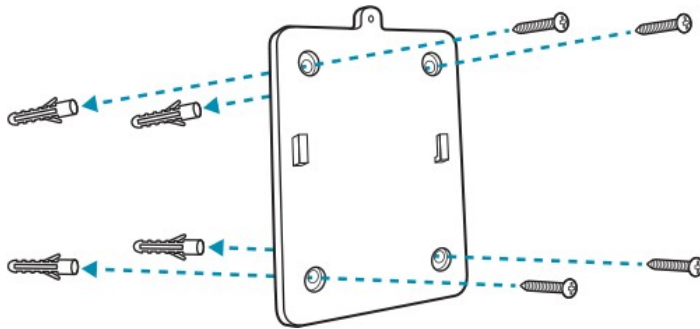
A dropdown menu is open for the 'Post Recording' column of the first row, showing the following options: 10 s, Continuous, 10 s, 20 s, and 30 s. The '10 s' option is highlighted in red. A red circle highlights the dropdown menu.

At the bottom of the interface, there are buttons for 'Shutdown', 'How To', 'Default', and 'Apply'.

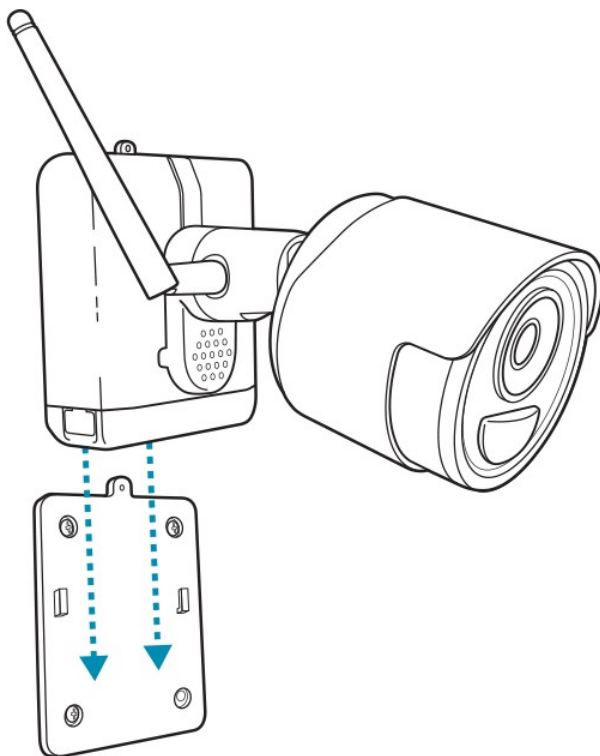
5 Mounting

The Rapid Deploy cameras are supplied with an simple mounting plate for quick and easy installation. To mount the camera just follow the steps below:

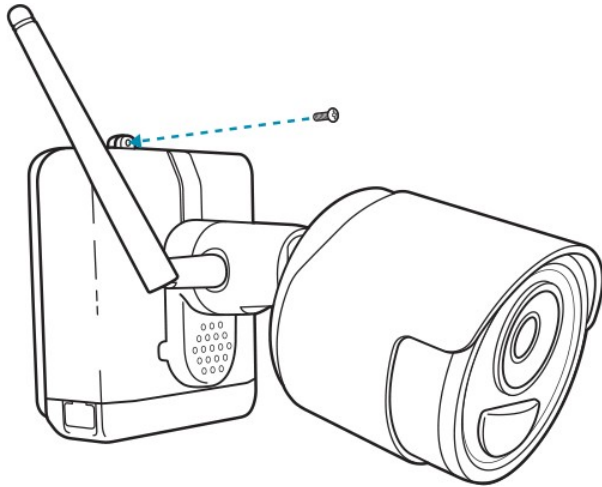
1. Fix the mounting plate to the mounting surface using the screws and plugs provided.



2. Slot the camera onto the mounting plate from above.



3. Finally secure the camera with the small locking screw.



6 Troubleshooting

6.1 Problem - The receiver is connected but nothing shows in USB Wireless

Solution(s):

1. The camera channels need to be altered to USB Wireless before attempting to pair, please go to [channel setup](#)⁶ .

6.2 Problem - The battery is draining too quickly in the camera

Solution(s):

1. Ensure the battery is fully [charged](#)⁶ before setting up with the camera.
2. The camera is activated by the PIR built into the front of the camera, if this is constantly activated then this will drain the battery.

6.3 Problem - The video and audio from the camera is slow and the images are stuttery

Solution(s):

1. The cameras and receiver work on a similar wireless range to standard Wi-Fi router and access points. If the receiver or the cameras are near to one of these devices then this could interfere with the signal and reduce the working transmission range.

2. Wi-Fi is also affected by solid objects like internal walls, insulation and bricks, avoid transmission through solid objects as this will also affect the distance and signal strength.

7 General Maintenance

- Ensure that nothing is obscuring the field of view, position the camera to ensure the PIR and Lens can see clearly.
- Routinely clean the camera to prevent dust build up as this can effect the performance of the camera. We recommend a damp non-abrasive microfibre cloth.
- Check that the cameras are firmly attached to the post or wall.
- Check playback in the recorder to ensure the camera is triggering properly when activated.

8 Specification

Feature	Specification
Lens Type	2.8mm Fixed Lens
Viewing Angle	120 Degrees
Resolution	HD 1080P / 2MP
Audio	2-Way Built-in
Audio Input	Built-in Microphone
Audio Output	Built-in Speaker
PIR	Built-in 10m Range
InfraRed LEDs	6
IR Range	8m
Min. Illumination	0 Lux with LEDs on
Noise Reduction	3D
White Balance	Auto
Input Voltage	DC 4.2V +-10%
Current Consumption	420mA (Activate) / 400mA (Sleep)
Power Connection	Battery Pack - 2900mAh/ea Capacity
Finish	White
Build	Plastic
Operating Temperature	From -20 to 55 deg C
Bracket	Supplied
Dimensions	(H) 136 x (W) 73mm x (D) 89mm

9 Conditions

9.1 General Company Disclaimer

All specifications are approximate. System Q Ltd reserves the right to change any product specifications or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, System Q Ltd cannot be held responsible in any way for any losses, no matter how they arise, from errors or omissions in these instructions, or the performance or non-performance of the equipment that these instructions refer to.

9.2 WEEE Declaration



This symbol on the products and/or accompanying documents means that used electronic equipment must not be mixed with general household waste. For treatment, recovery and recycling please return this unit to your trade supplier or local designated WEE/CG0783SS collection point as defined by your local council.

9.3 Copyright

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