



# Instruction Manual

NiteDevil 24C Camera

IPCND714

# Table of Contents

<b>Part 1 Introduction - NiteDevil Hero</b>	<b>1</b>
1 Key Features .....	1
2 Essential Tools and ZipFinder .....	2
<b>Part 2 Connections</b>	<b>3</b>
<b>Part 3 Mounting</b>	<b>4</b>
<b>Part 4 SD Card</b>	<b>4</b>
<b>Part 5 Setup Options</b>	<b>5</b>
1 PoE ZIP NVR .....	5
2 Non-PoE ZIP NVR .....	6
<b>Part 6 How to Login via Browser</b>	<b>7</b>
<b>Part 7 Browser Menu Settings</b>	<b>9</b>
1 IPCND714 .....	9
<b>Part 8 Customising the Day / Night Setting to IR</b>	<b>14</b>
<b>Part 9 Turning the White Lights Off</b>	<b>15</b>
<b>Part 10 AI Features - IPCND714</b>	<b>16</b>
1 PID = Perimeter Intrusion Detection .....	17
2 LCD = Line Crossing Detection .....	18
<b>Part 11 General Maintenance</b>	<b>19</b>
<b>Part 12 Specifications</b>	<b>20</b>
1 IPCND714 .....	20
<b>Part 13 Conditions</b>	<b>21</b>
Index	<b>23</b>

## Introduction - NiteDevil Hero

The NiteDevil Hero can stay in full colour around the clock using its built in white light LEDs to produce superb full colour images.

Up to 25m IR range (true day/night filter) and up to 20m white light range, 4MP resolution, built in PoE, H265 and H264 codec. With built in dual IR and white light you can choose how the camera best works in your install. Using white light to give visual warning or using IR illumination to get a more discreet set up.

This model also features blue and red deterrence LED as an option which can warn off intruders, similar to law enforcement strobe lights. *\*Adjustable with compatible NVR / DVR Firmware.*

A built in microphone means you can see and hear what's happening, recording the audio & video on your NVR for the best possible CCTV evidence.

Dual PoE and 12V means you can power and connect the camera to POE NVRs in seconds using one simple CAT5/6 cable for video, power and audio. If your system doesn't support PoE use the 12V input or a PoE injector such as our [POE200](#).

### 1.1 Key Features

- Full Colour 24/7
- Sees in Low Light
- NiteDevil® Tech
- 4MP
- Stunning Images
- ONVIF
- White or Grey Case
- IP66 In & Outdoor
- Dual PoE/12V
- Dual IR & White Light
- Red & Blue Strobe Deterrence
- Wide-Angle 2.8mm
- Built-in Mic
- Metal Case
- Motion Detect
- Picture Flip

## 1.2 Essential Tools and ZipFinder

To install this product you will need:

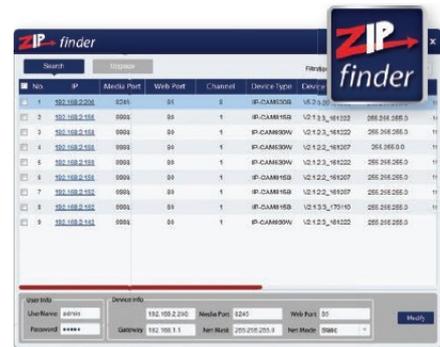
- Laptop / Windows PC
- Screwdriver
- Drill
- ZIP NVR or DVR
- PoE Switch / 12V DC power supply
- Ethernet CAT5/5e/6 Cable

### ZipFinder - IP Camera Configuration Tool

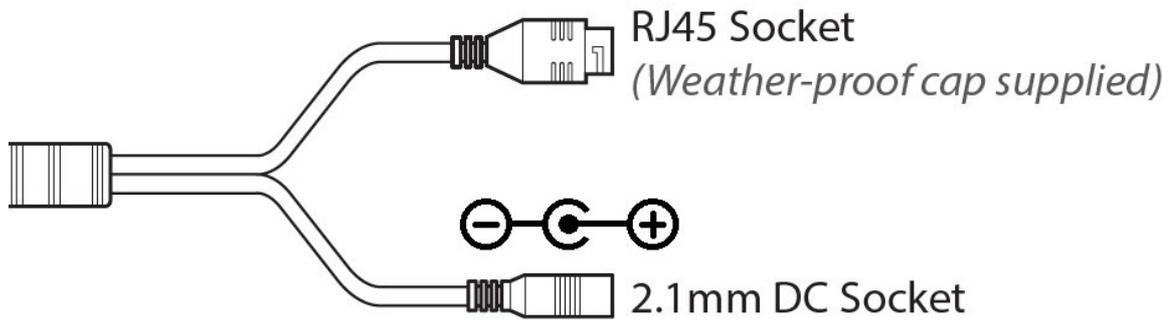
ZipFinder is a Windows PC software for discovering and configuring IP cameras a network.

Use ZipFinder on non-PoE installs, to help problem solving issues such as forgotten or unknown IP Addresses.

To download visit [ZipNVR.com](http://ZipNVR.com)



## Connections



### Powering the camera

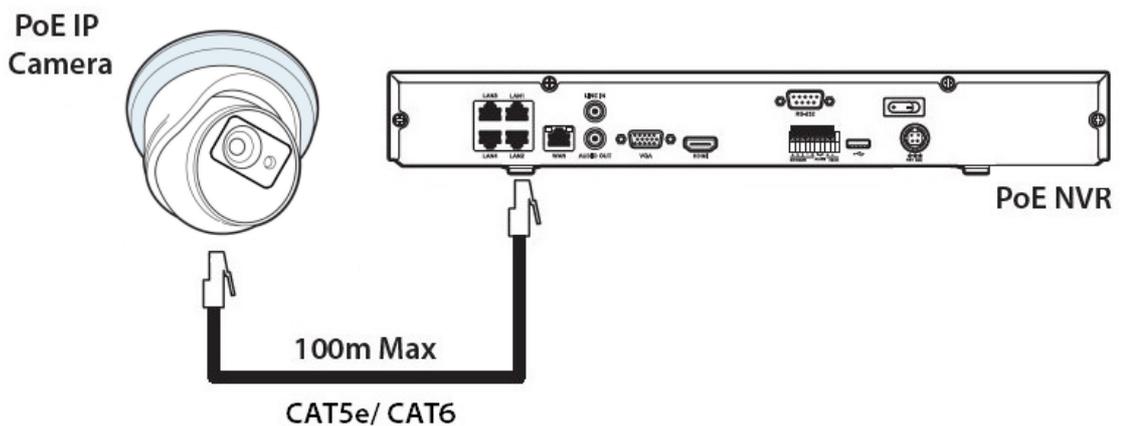
Option 1 - Power the camera from 12V DC (via the 2.1mm DC Socket), the current consumption is 420mA.

The camera is polarity sensitive so connections must be correctly made.

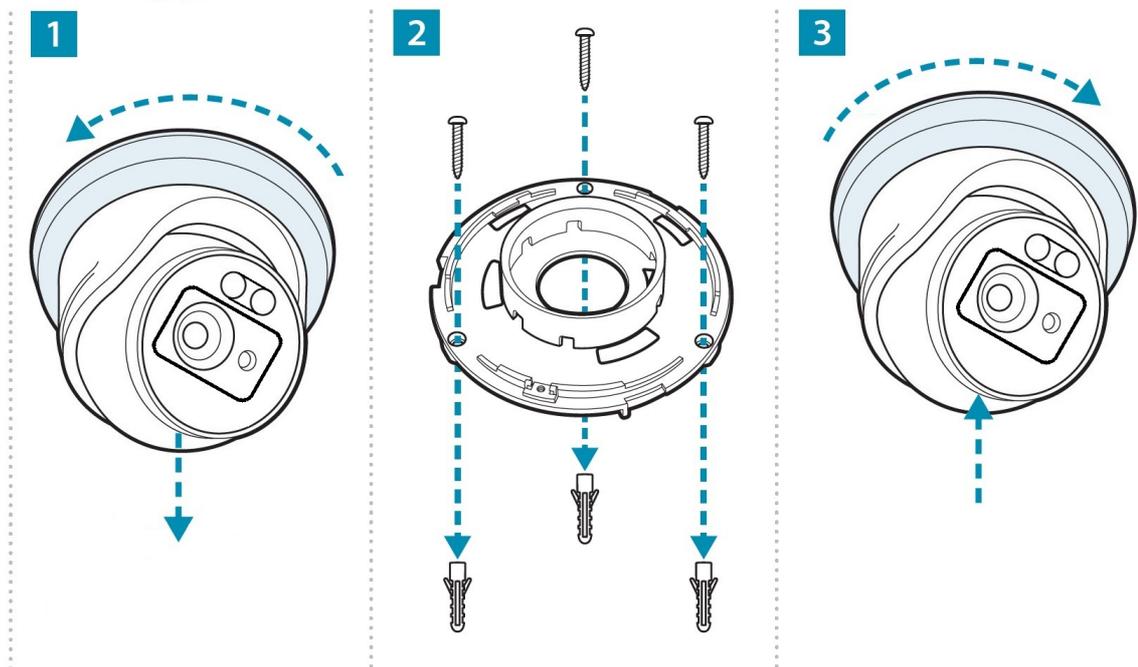
Option 2 - Power the camera using a PoE 48V RJ45 Socket

When connecting ZIP PoE NVR plug the camera directly into the NVRs built in PoE switch.

The camera should automatically become visible after being connected for approximately 1 minute.



## Mounting



## SD Card

The SD Card can be found on the rear of the eyeball, a small gasket will need to be removed to install the SD card.

For local recording on the camera itself an SD card must be installed.

Recording time will vary dependent upon: SD card size and encoding settings

**32GB SD Card ≈ 31 hours**  
**64GB SD Card ≈ 62 hours**  
**128GB SD Card (MAX) ≈ 124 hours**

The camera can be set to only record when triggered via *motion detection*, *alarm input* or *AI smart*, this maximises the recording time achievable.

Remove power from the camera when inserting / removing the SD card.

## Setup Options

### 5.1 PoE ZIP NVR

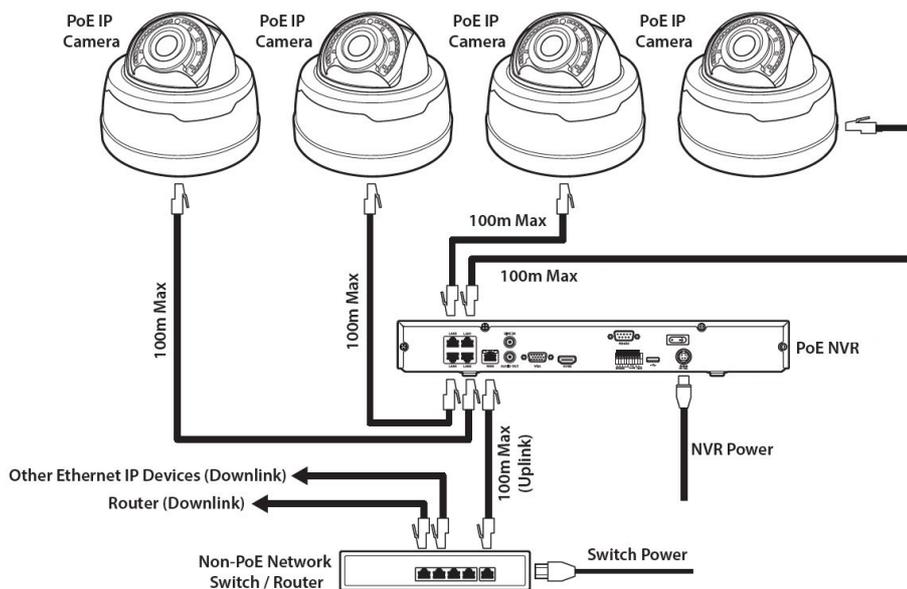
When connecting to a **ZIP PoE NVR** plug the camera directly into the NVR's built in PoE switch.

The camera should automatically become visible after being connected for approximately 1 minute.

The 100m distance for a camera can be increased when the PoE Mode is set to EPoE.

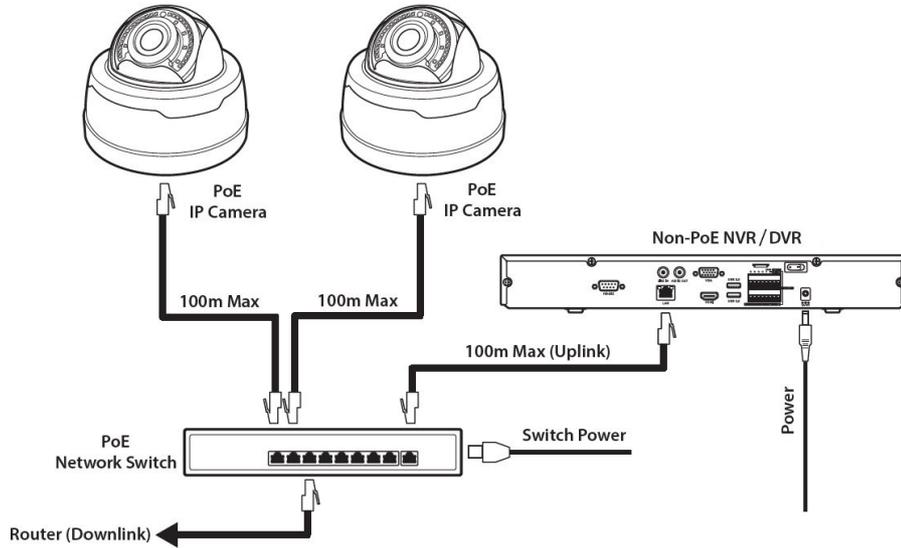
In the menu on a ZIP PoE NVR go to:-

**Video > IP Channels > PoE Mode**



## 5.2 Non-PoE ZIP NVR

When connecting cameras to a **Non-PoE NVR**, they are first connected to an external network switch which is in-turn connected to the NVR as shown below.



See Extra Resources for more information on **Adding IP Cameras manually** to a ZIP Recorder.

## How to Login via Browser

The AI smart features can be configured in a ZIP recorder or directly in the browser interface of the camera (standalone)

Only one smart detection feature can be enabled at any given time.

**See the NVR or DVR manual for information on configuring these features with a ZIP recorder.**

Follow the steps below for configuring the settings directly in the camera via a browser for standalone setup.

You will need...

- Windows Based PC/ Laptop connected to router/ PoE switch
- ZipVision Pro App on Mobile Device
- PoE Switch connected to Network/ Router
- Ethernet network cable
- [ZipFinder](#) software, available via this link below:-

[www.softcctv.com/store/Item/Zip-Finder-IP-CCTV-Security-Camera-Discovery-Tool](http://www.softcctv.com/store/Item/Zip-Finder-IP-CCTV-Security-Camera-Discovery-Tool)

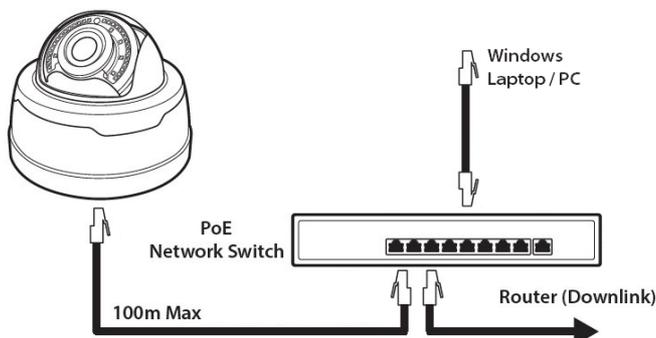
NOTE If the PC being used is on a different IP range to the PC then add the IP range of the camera to the PC using the below guide:-

PDF Version :- [http://www.cctvmanuals.com/pdf/tips/How\\_to\\_add\\_an\\_IP\\_Range.pdf](http://www.cctvmanuals.com/pdf/tips/How_to_add_an_IP_Range.pdf)

HTML Version :-

[http://www.cctvmanuals.com/tips/How\\_to\\_add\\_an\\_IP\\_Range/index.html](http://www.cctvmanuals.com/tips/How_to_add_an_IP_Range/index.html)

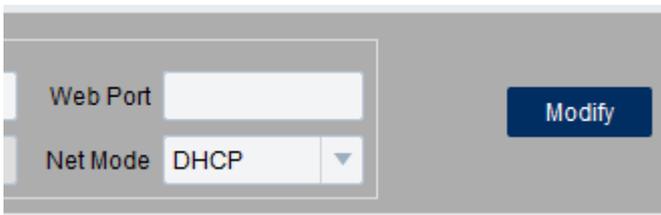
1. Plug the camera's RJ45 port with a network cable into a PoE switch



2. Using ZipFinder on a Windows Based PC/ Laptop **Search** and then tick the camera



3. Select Net Mode = **DCHP**, then click **Modify**



4. **Search** again, to get the updated IP address.

5. **Select** the IP address of the camera, Internet Explorer will pop-up, and ask to download and install the plug-in.

6. **Download, install** and follow the steps for the plug-in installation, then re-load the browser by **selecting** the IP address again.

5. Login to the IP Camera, the **default** login details are:-

User Name	<b>admin</b>
Password	<b>777777</b>

## Browser Menu Settings

### 7.1 IPCND714

The menu be configured directly in the browser interface of the camera (standalone), in Remote Setting you will find the menu settings below:-

Video	Live		Name	Camera (user editable)	
	Image Control		Date Format	DD/MM/YYYY / MM/DD/YYYY / YYYY/MM/DD	
			Time Format	24 Hour / 12 Hour	
			Flicker Control	50Hz / 60Hz	
			Show Name	Enable / Disable	
			Show Time	Enable / Disable	
			Save / Refresh		
	Image Control		Image Setting	Full Colour Mode / Day/Night Mode / Schedule	
			Mode	Manual / Automatic mode / Schedule / OFF	
			Angle Trad	180 / 0	
			Mirror	Disable / Vertical / Horizontal / All	
			Backlight	DWDR / HLC / BLC / Disable	
			White Balance	Automatic mode / Manual	
			Shutter	Automatic mode / Manual	
			Time Exposure	1/5 to 1/200000 / Flickerless	
			3D Noise Reduction	OFF / Automatic Mode / Manual	
			Save / Default / Refresh		
	Privacy Mask		Enable / Disable		
	Record	Encode	Mainstream	Resolution	2560 x1440
				FPS	1 -25
				Video Code Type	H.265 / H.264
				Video Code Level	Main Profile
				Bitrate Control	CBR / VBR
Bitrate Mode				Predefined / User-Defined	
Bitrate				512 to 4096	
I Frame Interval				1 to 100	
Audio				Enable / Disable	
Save / Refresh					
Substream			Resolution	640 x 480	
			FPS	1 -25	
			Video Code Type	H.265 / H.264	
			Video Code Level	Main Profile / Baseline / High Profile	
			Bitrate Control	CBR / VBR	
		Bitrate Mode	Predefined / User-Defined		

			Bitrate	128 to 1024		
			I Frame Interval	1 to 100		
			Audio	Enable / Disable		
			Save / Refresh			
		Record	Record	Stream Mode	Mainstream / Substream	
				Record	Enable / Disable	
				PreRecord	Enable / Disable	
				Netbreak	Enable / Disable	
			Save / Refresh			
			Schedule	User Definable		
				Save / Refresh		
			Event	Setup	Motion	Enable
		Sensitivity				1 to 8
		Smart motion detection				Enable / Disable
Save / Refresh						
Deterrence	Warning Light	Enable / Disable				
	Warning Light Duration	5 to 180				
	Save / Default / Refresh					
Siren	Siren	Enable / Disable				
	Siren Type	Alarm 1				
	Siren Level	1 to 10				
	Siren Duration	5 to 180				
	Save / Refresh					
Sound Detection	Enable	Enable / Disable				
	Rise	Enable / Disable				
	Rise Sensitivity	1 to 100				
	Sound Intensity	1 to 100				
	Decline	Enable / Disable				
	Decline Sensitivity	1 to 100				
	Save / Schedule / Refresh					
Alarm	Motion	Post Recording			OFF / 5s / 10s / 20s / 30s	
		Send Email			Enable / Disable	
		FTP Picture Upload			Enable / Disable	
		Enable Record			Enable / Disable	
		Deterrent			Enable / Disable	
		Save / Schedule / Refresh				
		Sound Detection			Post Recording	
	Send Email					
	Enable Record					
	Save / Schedule / Refresh					
	AI	Setup	PID	Enable	Enable / Disable	
				Sensitivity	1 to 4	
				Detection Type	Pedestrian & Vehicle / Person / Vehicle	

			Rule Number	1 to 4			
			Rule Enable	Enable / Disable			
			Rule Type	A→B / B→A / A←→ B			
			Save / Refresh				
		LCD	Enable	Enable / Disable			
			Sensitivity	1 to 4			
			Dynamic Marking	Enable / Disable			
			Detection Type	Pedestrian & Vehicle / Person / Vehicle			
			Rule Number	1 to 4			
			Rule Enable	Enable / Disable			
			Rule Type	A→B / B→A / A←→ B			
			Save / Refresh				
		Alarm	PID / LCD	Post Recording	OFF / 5s / 10s / 20s / 30s		
				Send Email	Enable / Disable		
FTP Picture Upload	Enable / Disable						
Enable Record	Enable / Disable						
Deterrent	Enable / Disable						
Save / Schedule / Refresh							
Network	General	General	DCHP	Enable / Disable			
			IP Address	User-definable			
			Subnet Mask	User-definable			
			Gateway	User-definable			
			DNS 1	User-definable			
			DNS 2	User-definable			
			Video Encryption Transmission	Enable / Disable			
			Save / Refresh				
			Port Configuration	HTTP Port	Enable / Disable	User-definable	
				Client Port			
		HTTPS Port					
		RTSP Port					
		Multicast Port		1024 – 65535			
		P2P Enable		Enable / Disable			
		Save / Refresh					
		Email	Email	Enable / Disable			
			Encryption	OFF / SSL / TLS / Automatic mode			
			SMTP Port	1 - 65535			
			SMTP Server	User-definable			
			Username				
			Password				
			Sender				
			Receiver 1				
Receiver 2							
Receiver 3							
Interval							

			Save / Test / Refresh			
		RTSP	RTSP Enable			
			Anonymous Login	Enable / Disable		
			Instruction: rtsp://IP:RtspPort/ch01/A A: 0(main stream), 1(sub stream), 2(mobile stream)			
			Save / Refresh			
		DDNS	DDNS	Enable / Disable		
			Server	NO_IP / DYNDNS		
			Hostname	User-definable		
			Username	User-definable		
			Password	User-definable		
		HTTPS	Certificate Type	Default / Custom		
			Save / Refresh			
Storage	Disk	Select Disk				
		Overwrite	OFF / Auto			
		Save / Format Hard Disk / Refresh				
	Audio	Enable Audio	Enable / Disable			
		Output Volume	0 – 8			
		Input Volume	0 – 8			
		Audio Code Type	G711A / G711U			
		Save / Refresh				
System	General	Date and Time	Time Setting mode	Static / NTP server synchronization		
			Date Format	Day/Month/Year Year-Month-Day Month/Day/Year		
			Time Zone	GMT -12:00 to GMT + 13:00		
			Time Format	24Hour / 12 Hour		
			System Time	User-definable		
			Server Address	Time.windows.com / time.nist.gov / pool.ntp.org / Define User		
			Save / Synchronize computer time / Refresh			
		Daylight Saving Time	Daylight saving time	Enable / Disable	Set by week / set by date	
			Start Time	User-definable		
			End Time	User-definable		
	Time Offset		1Hour / 2 hours			
	Save / Refresh					
	Multi-User	Customize Each user	Password (Edit)	Username	User-definable	
				Password	User-definable	

				Password Strength	User-definable	
				Confirm		
		Refresh				
	Maintain	Log	Log Type	System / CON. / Alarm / Account / Record / Storage / Network / All	Search	
					Start Time	User-definable
					End Time	User-definable
		Load Default	All / Video / Record / Event / AI / Network / Storage / System			
			Save / Refresh			
		Upgrade	Path	Search Local Files	Upgrade	
		Save / Load	Import File	Search Local Files	Import	
			Export File Name	Search Local Files	Export	
		Auto Reboot	Auto-maintenance Time	Enable / Disable		
				Date / Week / Month		
	Mon / Tues / Wed / Thur / Fri / Sat / Sun					
	Time					
		Save / Refresh / Reboot				
	Information	Serial ID				
		Device Name				
		Device Type				
		Hardware Version				
		Software Version				
		Web Version				
		Mac Address				
		P2P ID				
		Refresh				

## Customising the Day / Night Setting to IR

Once logged into the camera browser interface:-

Go To **Remote Settings > Video > Image Control > Image Settings**

e.g. Day / Night mode if want the camera to B&W & use the IR

Suggested setting : IR Cut to Auto.

The screenshot displays the Nite Devil 24C camera web interface. The top navigation bar includes 'Live', 'Playback', and 'Remote Setting' (highlighted in red), along with a warning icon and a power icon. The left sidebar contains a menu with categories: Video (Live | Image Control | Privacy Mask), Record (Encode | Record), Event (Setup | Alarm), AI (Setup | Alarm | Statistics), Network (General | Email | FTP | RTSP | DDNS | IP Filter), Storage (Disk | Audio), and System (General | Multi-User | Maintain | Information). The main content area is titled 'Image Control' and lists various settings:

- Image Setting: Day/Night Mode (dropdown)
- IR-CUT Mode: Auto (dropdown)
- IR-CUT Delay: 2 (slider)
- IR-LED: Manual (dropdown)
- Light Intensity: 100 (slider)
- Advanced section:
  - Angle Trad: 180 (dropdown)
  - Mirror: Disable (dropdown)
  - Backlight: Disable (dropdown)
  - White Balance: Automatic mode (dropdown)
  - Shutter: Automatic mode (dropdown)
  - Time Exposure: 1/8 (dropdown)
  - Defog: OFF (dropdown)

## Turning the White Lights Off

With the NiteDevil Hero 24C cameras the White LEDs can be set to IR LED mode instead. This setting can be controlled directly via web interface or via the menu on a compatible ZIP NVR (ZIPE204, ZIP408 & ZIP416).

See the video link Tutorial or steps below - <https://youtu.be/8FBYzAh57ys>



### ZIP NVR

Go to Video > Image Control > Setting "Cog" for that camera.

See the below

- Image Setting - Set to Day/Night Mode
- IR-CUT Mode - Image
- IR-LED - Smart IR

### Web Interface

1. See the below guide for Adding Network Range if you are unable to connect to the camera using the IP address it is set to:-  
<https://softcctv.com/helpdesk/kb/faq.php?id=571>  
It's Important to Remove the network Range you've added when you've finished.
2. Connect the Laptop to the back of a LAN port on the NVR.  
You'll also need to install the ZipFinder tool to search for ZIP IP cameras on a network via a Windows PC.  
[www.softcctv.com/store/Item/Zip-Finder-IP-CCTV-Security-Camera-Discovery-Tool](http://www.softcctv.com/store/Item/Zip-Finder-IP-CCTV-Security-Camera-Discovery-Tool)
3. Click on the IP address of the camera to see the web interface  
Default login details are:-  
User Name admin  
Password 777777
4. Go To Remote Settings > Video > Image Control  
Change Full Colour mode to Day / Night mode if want the camera to B&W & use the IR  
IR Cut to Auto

## AI Features - IPCND714

The AI smart features can be configured in a ZIP recorder or directly in the browser interface of the camera (standalone)

Only one smart detection feature can be enabled at any given time.

**See the NVR or DVR manual for information on configuring these features with a ZIP recorder.**

Note :- Additional features may be added at a later date.

## 10.1 PID = Perimeter Intrusion Detection

Perimeter intrusion detection can be set to trigger an alarm event when movement is detected in a set area.

PID LCD

Enable	<input type="checkbox"/>
Sensitivity	4
Detection Type	Person
Rule Number	1
Rule Enable	<input type="checkbox"/>
Rule Type	A->B



Save Refresh Delete Delete All

**Enable = Enable / Disable** this AI feature.

**Sensitivity** - Determines how much activity or movement is required to generate an event. Options are **1 - 4**.

**1** = Lowest sensitivity level, a significant amount of movement is needed to trigger.

**4** = Highest sensitivity level, only a small amount of moment is needed to trigger.

**Detection Type** - Options are motion, pedestrian, vehicle or both pedestrian and vehicle.

**Rule Number** - Up to 4 areas can be set independently in the image area. Use this to enable / disable each of the 4 rules.

**Rule Enable** - Tick to enable or disable the detection that rule for the rule number selected.

**Rule Type** - The determines how the direction of moment over the perimeter is handled.

**A to B (A->B)** = Only movement in the direction A to B will trigger.

**B to A (B->A)** = Only movement in the direction B to A will trigger.

**A or B (A<->B)** = Any moment direction over the perimeter will trigger.

## 10.2 LCD = Line Crossing Detection

Line crossing detection can be set to trigger an alarm event when movement is detected across a custom line.

PID LCD

Enable

Sensitivity

Detection Type

Rule Number

Rule Enable

Rule Type



**Enable** = Enable / Disable this AI feature.

**Sensitivity** - Determines how much activity or movement is required to generate an event. Options are **1 - 4**.

**1** = Lowest sensitivity level, a significant amount of movement is needed to trigger.

**4** = Highest sensitivity level, only a small amount of moment is needed to trigger.

**Detection Type** - Options are motion, pedestrian, vehicle or both pedestrian and vehicle.

**Rule Number** - Up to 4 areas can be set independently in the image area. Use this to enable / disable each of the 4 rules.

**Rule Enable** - Tick to enable or disable the detection that rule for the rule number selected.

**Rule Type** - The determines how the direction of moment over the perimeter is handled.

**A to B (A->B)** = Only movement in the direction A to B will trigger.

**B to A (B->A)** = Only movement in the direction B to A will trigger.

**A or B (A<->B)** = Any moment direction over the perimeter will trigger.

## General Maintenance

- Routinely clean the camera to prevent dust build up as this can effect the performance of the camera. It is recommended to use a damp non-abrasive microfibre cloth.
- Routinely check the connections for power and data to ensure no water ingress and corrosion.
- Check that the cameras are firmly attached to the wall or mounting bracket.
- Check playback in the recorder to ensure the camera is recording and triggering properly.

## Specifications

### 12.1 IPCND714

<b>Resolution</b>	4MP (2592 x 1520)
<b>Lens Type</b>	Wide Angle 2.8mm Fixed
<b>Video Compression</b>	H264 / H265
<b>Bit Rate</b>	128Kbps ~ 4Mbps
<b>Shutter</b>	1/5 ~ 1/20000s ~ Flickerless
<b>Min. Illumination</b>	Colour 24/7 with White Light LEDs
<b>Day/Night Function</b>	Auto or Scheduled
<b>Microphone</b>	Built-in
<b>IR LEDs</b>	1x High Power
<b>IR Range</b>	Up to 25m
<b>White Light</b>	2x High Power
<b>White Light Range</b>	Up to 20m
<b>Gain Control</b>	Auto
<b>Video Connection</b>	RJ45 Socket
<b>Onvif</b>	Yes
<b>Protocol</b>	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP/RTSP
<b>Other Protocols</b>	SMTP, NTP, HTTPS, ONVIF
<b>White Balance</b>	Auto / Manual
<b>Input Voltage</b>	12V DC (420mA) / PoE 48V /
<b>Consumption</b>	1.2 - 5W
<b>Power Connection</b>	12V – 2.1mm DC Socket / PoE – RJ45
<b>IP Rating</b>	IP66
<b>Build</b>	Metal
<b>Dimensions</b>	100mm x (H) 90mm

## Conditions

*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.*



WEE/CG0783SS

*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.*



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# Index

## - C -

Checking and cleaning the camera 19  
Connections 3

## - D -

Day / Night Setting 14

## - E -

Essential Tools and software 2

## - I -

Installation 4  
Installing an SD Card 4

## - L -

Line Crossing Detection 18  
Login via browser interface 7

## - M -

Maintenance 19  
Mounting the camera 4

## - P -

Perimeter Intrusion Detection 17

## - S -

Setup and Connection Options 5  
Specification 20