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NiteDevil IP-CAM828 24C Camera Instruction Manual

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NiteDevil IP-CAM828 24C Camera

Instruction Manual

NiteDevil 24C Camera IP-CAM828
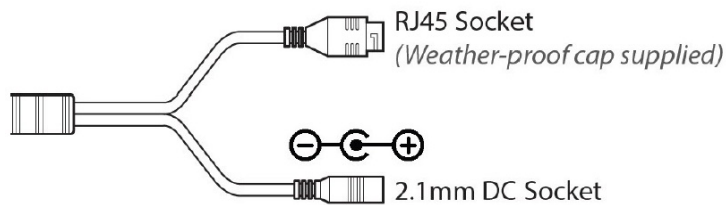NiteDevil.com

NiteDevil.com

Introduction

Key Features – IP-CAM828

The NiteDevil HERO IP Camera is a 4K camera that can capture color images in low light conditions. It also has a built-in warning strobe.

Connections and Dimensions

RJ45 Socket
(Weather-proof cap supplied)

2.1mm DC Socket

IP-CAM828

The camera can be powered in two ways:

1. 12V DC via the 2.1mm DC socket with a current consumption of 420mA. The camera is polarity sensitive, so connections must be made correctly.
2. PoE 48V RJ45 socket when connecting to a ZIP PoE NVR. Plug the camera directly into the NVR's built-in PoE switch. After approximately 1 minute of being connected, the camera should become visible.

PoE IP Camera

100m Max
CAT5e/ CAT6

PoE NVR
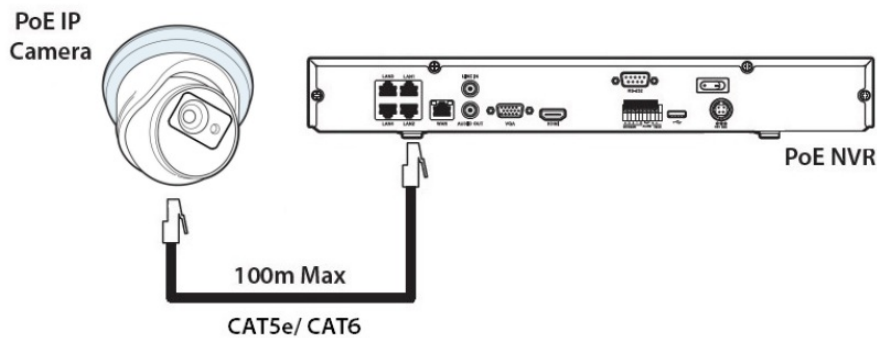
The camera's dimensions are provided, excluding the bracket.

Mounting and SD Card Installation

To perform local recording on the camera, an SD card must be installed. The recording time will vary depending on the size of the SD card and encoding settings. The following are the maximum recording times for different SD card sizes:

- 32GB SD Card: 31 hours
- 64GB SD Card: 62 hours
- 128GB SD Card (MAX): 124 hours
- 256GB SD Card (MAX): 248 hours

The camera can be set to only record when triggered by motion detection, alarm input, or AI smart, maximizing the recording time achievable. Note that power must be removed from the camera when inserting or removing the SD card.

Mini-Eyeball

A template is provided in the box for marking the hole positions for fixing screws.

Setup Options

PoE ZIP NVR

When connecting to a ZIP PoE NVR, plug the camera directly into the NVR's built-in PoE switch. After approximately 1 minute of being connected, the camera should become visible. 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.

Product Usage Instructions

1. Choose one of the two methods to power the camera: either via a 12V DC connection or a PoE 48V RJ45 socket.

2. If performing local recording, install an SD card in the camera. Note that the recording time will depend on the size of the SD card and encoding settings.

3. For optimal recording time, set the camera to only record when triggered by motion detection, alarm input, or AI smart.

4. If connecting to a ZIP PoE NVR, plug the camera directly into the NVR's built-in PoE switch. In the menu on a ZIP PoE NVR, go to: Video > IP Channels > PoE Mode to increase the distance for a camera when the PoE Mode is set to EPoE.

5. When mounting the camera, use the provided template to mark the hole positions for fixing screws.

6. Remove power from the camera before inserting or removing the SD card.

Key Features – IP-CAM828
4K NiteDevil HERO IP Camera Color in Low Light with a Built-In Warning Strobe

- Full Colour 24/7
- Vehicle Detect
- 4K
- PoE & 12V
- Perimeter cross
- 2-way audio
- NiteDevil® tech
- Line Cross
- SD card slot
- White light LEDs

Connections and Dimensions

 IP-CAM828
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 NVR built-in PoE switch. The camera should automatically become visible after being connected for approximately 1 minute.

Dimensions

Mounting and SD Card Installation
For local recording on the camera itself, an SD card must be installed. Recording time will vary dependent on SD card size and encoding settings

- 32GB SD Card 31 hours

- 64GB SD Card 62 hours

- 128GB SD Card (MAX) 124 hours

- 256GB SD Card (MAX) 248 hours

The camera can be set to only record when triggered via motion detection, alarm input, or AI smart, this maximizes the recording time achievable. Remove power from the camera when inserting/removing the SD card.

Mini-Eyeball
A template is provided in the box for marking the hole positions for the fixing screws.

Setup Options

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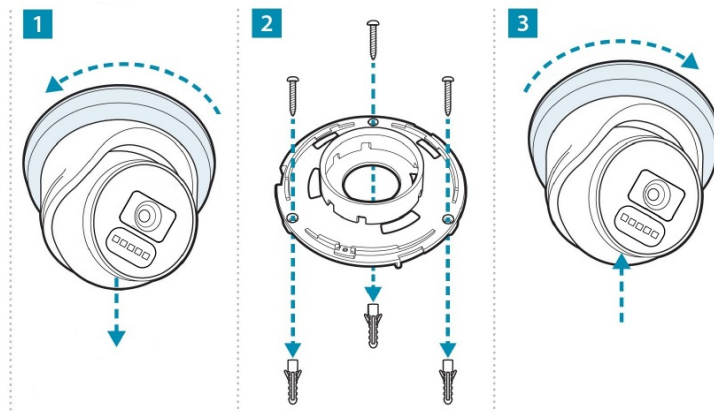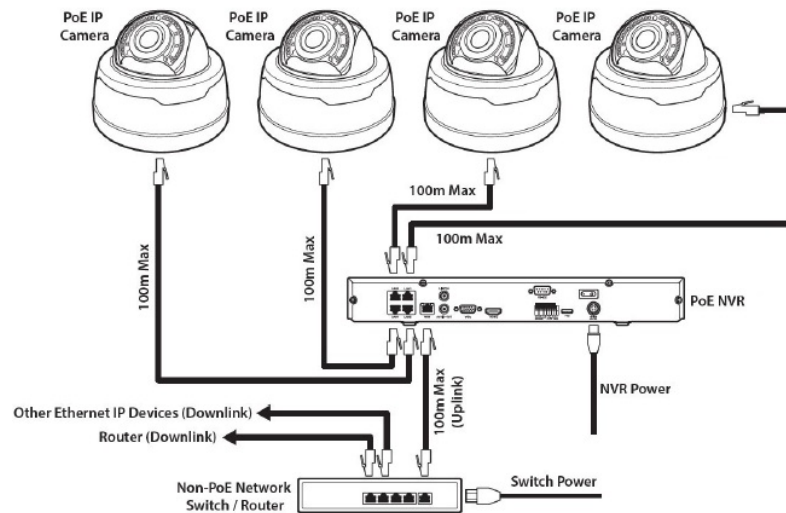 being connected for approximately 1 minute. The 100m distance for a camera can be increased when the PoE Mode is set to PoE. In the menu on a ZIP PoE NVR go to:- Video > IP Channels > PoE Mode

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 log in via Browser

The AI smart features can be configured in a ZIP recorder or directly in the browser the 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 a standalone setup.

You will need…
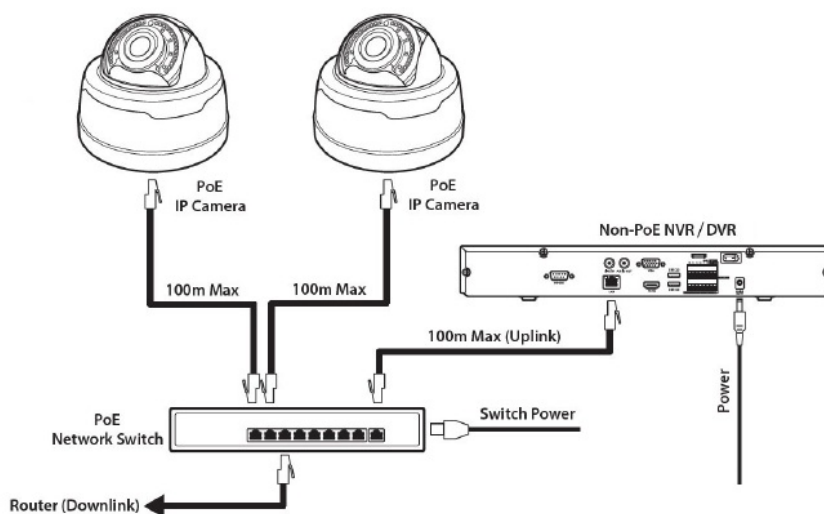
- Windows Based PC/ Laptop connected to router/ PoE switch
- ZipVision Pro App on Mobile Devices

- PoE Switch connected to Network/ Router
- Ethernet network cable
- ZipFinder software is available via this link below:- **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:-
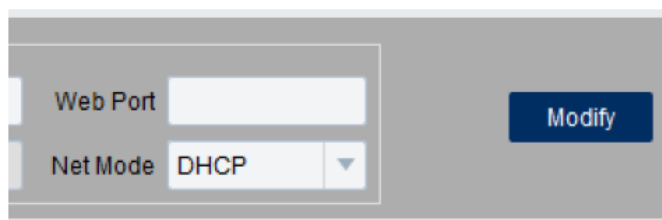PDF Version:- **http://www.cctvmanuals.com/pdf/tips/How_to_add_an_IP_Range.pdf**
HTML Version:- **http://www.cctvmanuals.com/tips/How_to_add_an_IP_Range/index.html**

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, up and ask you 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.
7. log in to the IP Camera, the default login details are:-

Default IP	192.168.10.1
DCHP	Off
User Name	admin
Password	777777

Browser Menu Settings
IP-CAM828
The menu be configured directly in the browser interface of the camera (standalone), in Remote Setting you will find the menu settings below:-

	Live	Name	Camera (user editable)
		Date Format	DD/MM/YYYY / MM/DD/YYYY / YYYY/MM/DD
		Time Format	24 Hour / 12 Hour
	Image Control	Flicker Control	50Hz / 60Hz

			Show Name	Enable / Disable
			Show Time	Enable / Disable
			Save / Refresh	
Video	Image Control		Image Setting	Full Colour Mode / Day / Night Mode / Schedule
			White Light	Manual / Automatic mode / Schedule / OFF
			Angle Trad	180 / 0
			Mirror	Disable / Vertical / Horizontal / All
			Backlight	WDR / HLC / Back Light / Disable
			White Balance	Automatic mode / Manual
			Shutter	Automatic mode / Manual
			Time Exposure	1/5 to 1/200000 / Flickerless
			Defog	OFF / Automatic mode / Manual
			3D Noise Reduction	OFF / Automatic Mode / Manual
			Save / Default / Refresh	
	Privacy Mask		Enable / Disable	
Record	Encode	Mainstream	Resolution	**3840 x 2160**
			FPS	1 -15
			Video Code Type	H.265 / H.264
			Video Code Level	Main Profile
			Bitrate Control	**CBR** / VBR
			Bitrate Mode	Predefined / User-Defined
			Bitrate	512 to 6144
			I Frame Interval	1 to 100
			Audio	Enable / Disable
			Save / Refresh	
		Substream	Resolution	1920 x 1080
			FPS	1 -15
			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 2048
			I Frame Interval	1 to 60
			Audio	Enable / Disable
			Save / Refresh	
		Mobilestrea m	Enable	Enable / Disable
			Resolution	640 x 480 / 320 x 240
			FPS	1 – 25
			Video Code Type	H.265 / H.264 / H.264+ / H.265+
			Video Code Level	Main Profile
			Bitrate Control	CBR / VBR
			Bitrate Mode	Predefined / User-Defined
			Bitrate	8 to 1536
			I Frame Interval	1 to 60
			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	Enable / Disable
			Sensitivity	1 to 8
			Save / Refresh	
		Deterrence	Save / Default / Refresh	
	Alarm	Post Recording	OFF / 5s / 10s / 20s / 30s	
		Send Email	Enable / Disable	
		FTP Picture Upl oad	Enable / Disable	
		Enable Record	Enable / Disable	
		Deterrent	Enable / Disable	
		Save / Schedule / Refresh		

AI	Setup	PD & VD	Enable	Enable / Disable
			Sensitivity	0 to 100
			Snap Mode	Default / Realtime Mode / Interval Mode
			Min Pixel	64 – 1080
			Max Pixel	320 – 1080
			Detection Type	Pedestrian & Vehicle / OFF / Person / Vehicle
			Detection Mode	Motion Mode / Static Mode
			Detection Range	Full Screen / Customize
			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	/ / 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	
	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	

Network	Port Configuration	HTTP Port	User-definable	
		Client Port		
		HTTPS Port		
		RTSP Port		
		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	

		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	/ / 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 Configura tion	HTTP Port	User-definable	
		Client Port		
		HTTPS Port		
		RTSP Port		
		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	

|				
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	Enable / Disable	
		Time	Date / Week / Month	
			Mon / Tues / Wed / Thur / Fri / Sat / Sun	
			Time	
			Save / Refresh / Reboot	
	Information	Device ID		
		Device Name		
		Device Type		
		Hardware Version		
		Software Version		
		Web Version		
		Mac Address		
		P2P ID		
		Refresh		

Customizing 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
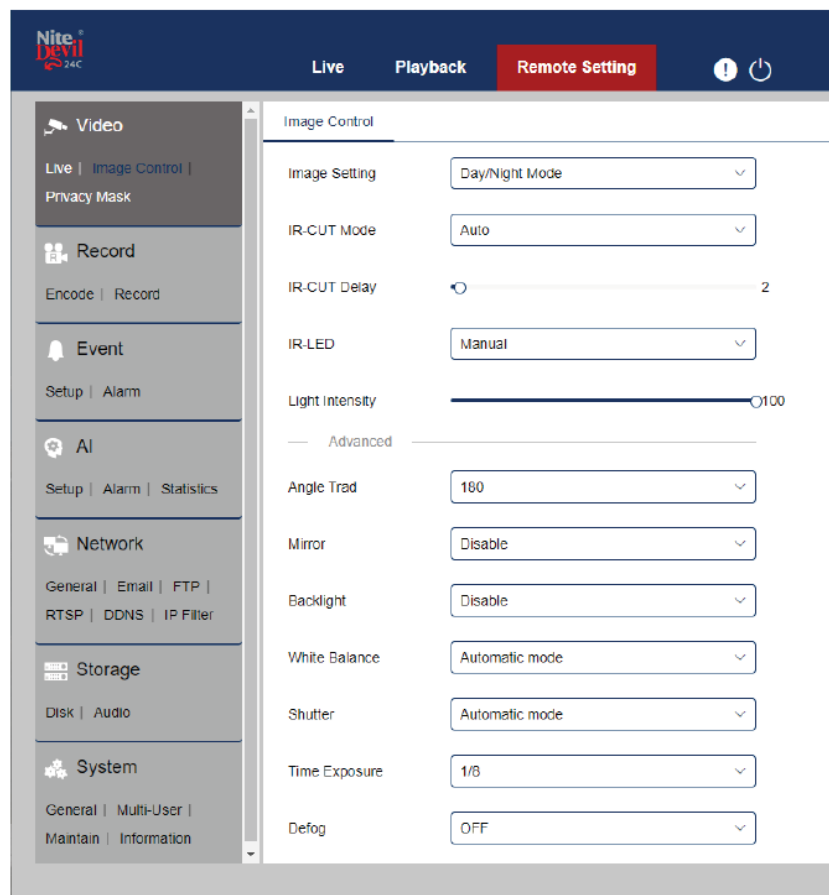
Extra Resources
ZipNVR.com Website
The Zip NVR has a range of information on the cameras and NVRs, manuals, software, tools, and support:-
www.zipdvr.com
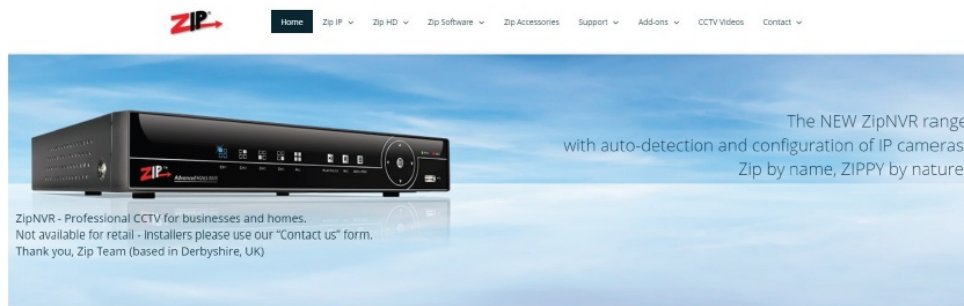
Adding IP Cameras to a ZIP recorder
How to guide on Adding IP Cameras:- **www.zipdvr.com/howto/TIP459-How-To-Add-IP-Cameras.html**

AI Setup
See the ZIP NVR full manual for more information on AI setup;
Note: AI Features will vary depending on the model

Full Instruction Manual

ZIP Firmware
Firmware for the zip products is available online:- **www.zipdvr.com/firmware.html** Compare the firmware in the product against that available online.

General Maintenance

- Routinely clean the camera to prevent dust build-up as this can affect 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

9.1 IP-CAM828

Resolution	4K (8MP) (3840 x 2160)
Lens Type	Wide Angle 3.6mm Fixed
Video Compression	H264 / H265
Bit Rate	512Kbps ~ 6Mbps
Shutter	1/5 ~ 1/20000s ~ Flickerless
Min. Illumination	Colour 24/7 with White Light LEDs
Day/Night Function	Auto or Scheduled
Microphone	Built-in
IR LEDs	1x High Power
IR Range	Up to 25m
White Light	2x High Power
White Light Range	Up to 20m
Gain Control	Auto
Video Connection	RJ45 Socket
Onvif	Yes
Protocol	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP/RTSP
Other Protocols	SMTP, NTP, HTTPS
White Balance	Auto / Manual
Input Voltage	12V DC (420mA) / PoE 48V
Consumption	1.2 – 5W
Power Connection	12V – 2.1mm DC Socket / PoE – RJ45
IP Rating	IP66
Build	Metal & Plastic
Dimensions	100mm x (H) 90mm

Documents / Resources

NiteDevil IP-CAM828 24C Camera [pdf] Instruction Manual
IP-CAM828 24C Camera, IP-CAM828, 24C Camera, Camera

References

- 🌐 [NiteDevil: CCTV Cameras That See In The Dark!](#)
- 🌐 [How to add an IP Range to a Windows PC](#)
- 🌐 [NiteDevil: CCTV Cameras That See In The Dark!](#)
- ⏻ [Zip Finder - IP Camera Discovery Tool - SoftCCTV.com](#)
- [ZipNVR: Home](#)
- ⏻ [Zip Finder - IP Camera Discovery Tool - SoftCCTV.com](#)

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