

How to Connect Uniview Cameras to a PoE NVR?





Description

For some certain Uniview PoE NVR models, there will be half of the channels that are built-in PoE ports on the rear panel of the NVR for you to connect your camera that support PoE function. Such as 16 channel NVRs with 8 built-in PoE ports and 32 channel NVRs with 16 built-in PoE ports.

In this case, please refer to the document below to add all your cameras.

Note: This method is applicable to most of the scenarios, if the method still cannot solve your problem, it is recommended to consult our Tech Support Team. <u>https://global.uniview.com/Support/Service_Hotline/</u>

Preparation

Take NVR302-16S-P8 as an example. It is a 16 channel NVR with 8 built-in POE ports. To add more than 8 cameras on this NVR, a network switch is needed.



As shown in the above picture, a PoE NVR has 2 NICs (External Ethernet NIC and Internal PoE NIC). Both NICs can be connected with cameras. There are 2 different methods to add all 16 cameras.

Operating Steps

Method 1 Connect some cameras to the NVR's PoE ports directly and other cameras to a network switch.

Step 1 You can connect 8 cameras that support PoE function to the NVR's PoE ports and

Step 2 Connect the other 8 cameras to a network switch. Meanwhile, the network switch needs to be connected to the NVR's external Ethernet port (the port with three squares' icon on it).

Note:

1. The NVR's external Ethernet NIC and the PoE NIC must be set up to different IP segments. Cameras connected to the NVR's PoE ports need to be in the same IP segment as the NVR's POE NIC, and cameras connected to the NVR's external Ethernet port need to be in the same IP segment as the NVR's external Ethernet port need to be in the same IP segment as the NVR's external Ethernet NIC.

2. Each PoE port of the NVR is designed to connect to one camera only. Please do not connect a network switch to the NVR's PoE port, otherwise it may cause problems to the NVR's PoE NIC.



Method 2 Connect all the 16 cameras to a network PoE switch and connect the switch to the external Ethernet port of the NVR.



Client	8	TCP/IP	
ystem	~		
Camera	~	Select NIC	NIC1
Hard Disk	~	Enable DHCP	⊖On ⊚Off
Alarm	~	IPv4 Address	192.168.1.250
		IPv4 Subnet Mask	255.255.255.0
Alert	*	IPv4 Default Gateway	192.168.1.1
Network	~	IPv6 Mode	Router Advertisement
PPPoE		IPv6 Address	fe
EZCloud		IPv6 Prefix Length	64
DDNS		IPv6 Default Gateway	fe
Port		MAC Address	6c
Port Mapping		MTU	1500
Email		MIG	1500
Multicast		Preferred DNS Server	8.8.8.8
FTP		Alternate DNS Server	8.8.4.4
Platform	*		Lancoviti)
User	~	PoE NIC IP Addr.	172.16.0.250
Maintenance	8		



How to add IP cameras to the NVR's PoE channel?

Add from the NVR's web interface

Step 1 Click **Auto Search** to find all cameras in same LAN.

lient	~	Came	ra		Fisheye	Adv	anced						
System													
Camera	A	Auto	Switch to	o H.265	On Off Note:	Effective when fi	rst conjected						
Camera		Auto	Switch to	o Smart Encoding	Off	♥ Note: Effec	ctive when first connect	ted					
Encoding		Refr	resh	Modify	Delete Add	Auto Search	Search Segment	Batch Edit Pass					
OSD			No.	Camera ID	Address	Port	Remote Camera ID	Protocol	Status	Vendor	Model	Configure	Access
Image		0	1	D1 (IP Camera		80		Private	EDI	UNIVIEW	IPC675LFW-AX4DUPKC-VG	comgure	Access
Schedule		0	2	D2 (IP Camera		80	1	Private	EN				Access
Motion			3	D3 (IP Camera		80	1	Private	604	UNIVIEW	IPC361858-ADF28KMC-I0		Access
Video Loss		0	. 4	D4 (IP Camera	172.1.90.212	80	1	Private	101				Access
Tampering			5	DS (IP Camera	192.168.90.9	80	1	Private	101	UNIVIEW	IPC6322SR-X33UP-D		Access
Privacy Mask			6	D6 (IP Camera	192.168.90.7	80	1	Private	101				Access
Snapshot			7	D7 (IP Camera	192.168.90.11	80	1	ONVIF	1514				Access
Audio Detection			8	D8 (IP Camera "	192.168.90.10	80	:1	ONVIE	101				Access
Human Body Detect	on												
Hard Disk	~												
Alarm	4												
Alert	~												
Network	¥												
latform	v												
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	v												
Maintenance													

Step 2 Record the **IP address and port number** of the camera you need to add.

Status	IP Address	Configure	Port	Qty	Protocol	Vendor	Model	Serial No.
	172.1.90.47	Ø	80	6	ONVIF	UNIVIEW	XVR301-04Q3	The second second second
	172.1.90.120	Ø	80	1	ONVIF	UNIVIEW	IPC2K24SE-ADF40KMC-WL-I0	a second in second second
	172.1.90.176	Ø	80	5	ONVIF	UNIVIEW	IPC86CEB-AF18KC-I0	
	172.1.90.184	Ø	80	1	ONVIF	UNIVIEW	HC121@TS8CR-Z	Bern alle a second
	172.1.90.192		80	1	ONVIF	UNIVIEW	ET-B31H-M	
	172.1.90.208	Ø	80	1	ONVIF	UNIVIEW	IPC3618SB-ADF28KMC-I0	and the second second
	172.1.90.215	Ø	80	2	ONVIF	UNIVIEW	IPC94144SFW-X25-F40C	And the second second
	172.1.90.235	Ø	80	1	ONVIF	UNIVIEW	IPC675LFW-AX4DUPKC-VG	and show the second
Added	172.1.90.17		80	2	ONVIF	UNIVIEW	TIC2621SR-F3-4F4AC-VD	A REAL PROPERTY OF
Added	172.1.90.123		8888	1	ONVIF	UNIVIEW	IPC3615LE-ADF28K-G	A REPORT OF A REPORT OF
Added	172.1.90.251		9555	1	ONVIF	UNIVIEW	IPC6322SR-X33UP-D	A REAL PROPERTY.

Step 3 Choose one of the PoE channels (usually the first half in the camera list) and click **Modify**.

Title			Hov	v to Connect	Uniview	Cameras to	a PoE NV	/R?		Version:	V1.0	
Product					NV	R				Date	11/21/20)23
	🖳 Liv	e View	💷 Playl	back 🗘 Setu	p Ł	Smart					ac	dmin L
lient 🗸	Came	era		Fisheye	Adv	anced						
ystem ∀												
amera 4119,941 🗚		Switch t		On Off Note:								
Camera	Auto	Switch t	o Smart Encoding	Off	✓ Note: Effect	tive when first connec	ted					
Encoding	Ref	resh	Modify	Delete Add	Auto Search	Search Segment	Batch Edit Pass					
OSD		N	Camera ID	Address	Port	Remote Camera ID	Protocol	Status	Vendor	Model	Configure	Acce
Image		1	D1 (IP Camera		9555	1	Private		UNIVIEW	IPC6322SR-X33UP-D		Acce
Schedule		2	D2 (IP Camera .		80	1	Private				5	Acces
Motion		3	D3 (IP Camera .	172.1.90.208	80	1	Private		UNIVIEW	IPC3618SB-ADF28KMC-I0		Acces
Video Loss		4	D4 (IP Camera .	172.1.90.212	80	1	Private					Acces
Tampering		5	D5 (IP Camera .	192.168.90.9	80	1	Private	EN	UNIVIEW	IPC6322SR-X33UP-D		Acces
Privacy Mask		6	D6 (IP Camera .	192.168.90.7	80	1	Private	101				Acces
Snapshot		7	D7 (IP Camera	192.168.90.11	80	1	ONVIF	B I				Acces
Audio Detection		8	D8 (IP Camera .	192.168.90.10	80	1	ONVIF	EN .				Acces
Human Body Detection		9	D9 (IP Camera .	172.1.90.17	80	1	ONVIF	E1				Acces
ard Disk 🛛 😽		10	D10 (IP Camer	172.1.90.17	80	2	ONVIF		UNIVIEW	TIC2621SR-F3-4F4AC-VD		Acces
arm 🗸		11	D11 (IP Camer.	. 172.1.90.123	8888	1	ONVIF					Acces
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rtwork 🗸												

Step 4 Choose **IP Address** as the add mode and **Private** as the protocol (for Uniview cameras only) and then enter the correct IP address, port, username and password of the camera. Click **Save**.

♥ 4:19,94:C6:91:87:AP:17,wi
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Step 5 Wait for a moment and the camera will come online automatically.

Client	~	Came	ra	F	isheye	Adv	anced						
System	~												
Camera 14:25	94: ***	Auto	Switch t	to H.265	● On ○ Off Note:	Effective when fi	rst connected						
Camera		Auto	Switch t	to Smart Encoding	Off	▼ Note: Effec	tive when first connec	ted					
Encoding													
OSD		Ref	resh	Modify D	elete Add	Auto Search	Search Segment	Batch Edit Pass					
Image			No.	Camera ID	Address	Port	Remote Camera ID	Protocol	Status	Vendor	Model	Configure	Acce
Schedule			1	D1 (IP Camera	172.1.90.251	9555	1	Private		UNIVIEW	IPC6322SR-X33UP-D	Ø	Acce
Motion			2	D2 (IP Camera	172.1.90.235	80	1	Private		UNIVIEW	IPC675LFW-AX4DUPKC-VG	Ø	Acce
		0	3	D3 (IP Camera	172.1.90.208	80	1	Private		UNIVIEW	IPC3618SB-ADF28KMC-I0		Acces
Video Loss			4	D4 (IP Camera	172.1.90.212	80	1	Private	ER.				Acce
Tampering			5	D5 (IP Camera	192.168.90.9	80	1	Private	EH	UNIVIEW	IPC6322SR-X33UP-D		Acce
Privacy Mask			6	D6 (IP Camera	192.168.90.7	80	1	Private					Acce
Snapshot			7	D7 (IP Camera	192.168.90.11	80	1	ONVIF					Acce
Audio Detection			8	D8 (IP Camera	192.168.90.10	80	1	ONVIF	10H				Acce
Human Body Dete	ction		9	D9 (IP Camera	172.1.90.17	80	1	ONVIF					Acce
Hard Disk	~		10	D10 (IP Camer	172.1.90.17	80	2	ONVIF		UNIVIEW	TIC2621SR-F3-4F4AC-VD	ø	Acce
			11	D11 (IP Camer	172.1.90.123	8888	1	ONVIF					Acce
Alarm	*												
Alert	~												
Network	9410019												
Platform	*												
Jser	*												



Add from the NVR's Monitor (GUI)

Step 1 You can double click any existing channels or check one camera and then click **Cam Config** to enter the IP address of the camera or choose cameras to manually add it.

							Came	ra							
C)	Camera														
Camera	Encoding		4 Ac	ld All	+ Cu	stom Add	靣	Dele		Ø	Refresh	Q Searc		••• More	88
		Came	ra	IP A	ddress	Status	Protoc	col N	lodel			Add/Del	-	on Net Confi	g Detail
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VCA		D2(te	st)	172	1.90.122		Univie								
25-22	OSD	D3(IP	Camera (172	1.90.201		Univie	ew.							e
	Image	D4(IP	Camera (172	1.90.221		Univie								
Network		D5(IP	Camera (172	1.90.231		Univie	w							
<u>{ô}</u>	Privacy Mask		Camera (172	1.90.159		Univie								
्र्ु System	PTZ	D7 (IP	Camera (172	.16.0.14	۲	Univie	w II	PC212	2SR3-	PF40-C				
		D8(IP	Camera (172	16.0.9	۲	Univie	w							
Þ		🗆 D13(I	P Camera	172	1.90.33		ONVIF								
Backup		🗆 D14(I	P Camera	172	1.90.33		ONVIF								
		🗆 D16(I	P Camera	172	1.90.99		Univie								
Storage															j
Â															
Alarm															j
Z		Discovere	ed Device		dded Devi	ce(s):11;Ic	lle Rece	eive Ba	andwid	th: 31	7Mbps				j
Maintain															

Step 2 Choose **IP Address** as the add mode and **Private** as the protocol. Make sure the port, username and password of the camera are all correct and then click **OK** to save the configurations.

No.	IP Address	Status	Qty	Model	F
1	172.16.0.14	\odot	1	IPC2122SR3-PF40-C	, i
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Step 3 Wait for a moment and the camera will come online automatically.