

# 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	*	TCP/IP	
System	8		-
Camera	\$	Select NIC	NIC1 V
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 🗸
PPPoF		IPv6 Address	fe
FZCloud		IPv6 Prefix Length	64
DDNS		IPv6 Default Gateway	fe
Port		MAC Address	6
Port Mapping		MTU	1500
Email			
Multicast		Preferred DNS Server	8.8.8
Distigue	~	Alternate DNS Server	8.8.4.4
Platform	*		
User	8	PoE NIC IP Addr.	172.16.0.250
User Maintenance	*	PoE NIC IP Addr.	172.16.0.250



## 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.

Client	/ Car	nera	Fi	sheye	Adv	anced						
ystem	,											
amera	AL	to Switch	to H.265	On Off Note:	Effective when fi	irst conjected						
Camera	Au	to Switch	to Smart Encoding	Dff	♥ Note: Effe	ctive when first connect	ed					
Encoding			(									
OSD		efresh	Modify De	Add	Auto Search	Search Segment	Batch Edit Pass					
Image		No.	Camera ID	Address	Port	Remote Camera ID	Protocol	Status	Vendor	Model	Configure	Access
Schedule		1	D1 (IP Camera	192.168.90.8	80	1	Private	10H	UNIVIEW	IPC675LFW-AX4DUPKC-VG		Access
Matian		2	D2 (IP Camera	172.1.90.103	80	1	Private	101				Access
Motion		3	D3 (IP Camera	172.1.90.208	80	1	Private	601	UNIVIEW	IPC361858-ADF28KMC-10		Access
Video Loss		- 4	D4 (IP Camera	172.1.90,212	80	1	Private	101				Access
Tampering		5	D5 (IP Camera	192.168.90.9	80	1	Private	101	UNIVIEW	IPC6322SR-X33UP-D		Access
Privacy Mask	0	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	0	8	D8 (IP Camera	192.168.90.10	80	:1	ONVIE	101				Access
Human Body Detection												
ard Disk	4											
arm	e											
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etwork	5											
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	4											
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**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		80	6	ONVIF	UNIVIEW	XVR301-04Q3	Concernence of the owners
	172.1.90.120		80	1	ONVIF	UNIVIEW	IPC2K24SE-ADF40KMC-WL-I0	A Resident Street Street
	172.1.90.176		80	5	ONVIF	UNIVIEW	IPC86CEB-AF18KC-I0	-
	172.1.90.184	Ø	80	1	ONVIF	UNIVIEW	HC121@TS8CR-Z	And the subscript of
	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	
	172.1.90.235	Ø	80	1	ONVIF	UNIVIEW	IPC675LFW-AX4DUPKC-VG	and the second second second
Added	172.1.90.17		80	2	ONVIF	UNIVIEW	TIC2621SR-F3-4F4AC-VD	C REAL PROPERTY AND INCOME.
Added	172.1.90.123		8888	1	ONVIF	UNIVIEW	IPC3615LE-ADF28K-G	a second s
Added	172.1.90.251		9555	1	ONVIF	UNIVIEW	IPC6322SR-X33UP-D	A DESCRIPTION OF TAXABLE PARTY.

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

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Product					NV	R				Date	11/21/20	23
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lient 😽	Camer	а	F	isheye	Adv	anced						
ystem ⊌												
amera	Auto S	switch to	o H.265	On Off Note:	Effective when fir	st connected						
Camera	Auto S	Switch to	o Smart Encoding	Off	♥ Note: Effec	tive when first connec	ted					
Encoding	0.6		M	alar Add	A an Count	Court Courses	Datab Edit Data					
OSD	Relie	sn .	Modily	elete Aud	Auto Search	search segment	batch cuit Pass					
Image		Nor	Camera ID	Address	Port	Remote Camera ID	Protocol	Status	Vendor	Model	Configure	Acce
Schedule		2	D1 (IP Camera	172.1.90.251	80	1	Private		UNIVIEW	IPC63225K-X33UP-D		Acce
Motion		3	D3 (IP Camera	172.1.90.208	80	1	Private		UNIVIEW	IPC3618SB-ADF28KMC-I0		Acce
Video Loss		4	D4 (IP Camera	172.1.90.212	80	1	Private					Acce
video Loss		5	D5 (IP Camera	192.168.90.9	80	1	Private	DI	UNIVIEW	IPC6322SR-X33UP-D		Acce
Tampering						1	Private	<b>D1</b>				Acce
Tampering Privacy Mask		6	D6 (IP Camera	192.168.90.7	80							
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Tampering Privacy Mask Snapshot Audio Detection		6 7 8	D6 (IP Camera D7 (IP Camera D8 (IP Camera	192.168.90.7 192.168.90.11 192.168.90.10	80 80 80	1	ONVIF					Acce
Tampering Privacy Mask Snapshot Audio Detection Human Body Detection		6 7 8 9	D6 (IP Camera D7 (IP Camera D8 (IP Camera D9 (IP Camera	192.168.90.7 192.168.90.11 192.168.90.10 172.1.90.17	08 08 08 08 08	1	ONVIF ONVIF ONVIF					Acce
Tampering Privacy Mask Snapshot Audio Detection Human Body Detection rd Disk		6 7 8 9 10	D6 (IP Camera   D7 (IP Camera   D8 (IP Camera   D9 (IP Camera   D10 (IP Camera	192.168.90.7 192.168.90.11 192.168.90.10 172.1.90.17 172.1.90.17	80 80 80 80 80 80	1 1 1 2	ONVIF ONVIF ONVIF ONVIF		UNIVIEW	TIC2621SR-F3-4F4AC-VD	+	Acce Acce Acce
Tampering Privacy Mask Snapshot Audio Detection Human Body Detection rd Disk		6 7 8 9 10 11	D6 (IP Camera   D7 (IP Camera   D8 (IP Camera   D9 (IP Camera   D10 (IP Camera   D11 (IP Camera	192.168.90.7 192.168.90.11 192.168.90.10 172.1.90.17 <b>172.1.90.17</b> 172.1.90.123	80 80 80 80 80 8888	1 1 1 2 1	ONVIF ONVIF ONVIF ONVIF ONVIF		UNIVIEW	TIC26215R-F3-4F4AC-VD	+	Acce Acce Acce Acce
Tampering Privacy Mask Snapshot Audio Detection Human Body Detection rd Disk V arm V		6 7 8 9 10 11	D6 (IP Camera   D7 (IP Camera   D8 (IP Camera   D9 (IP Camera   D10 (IP Camera   D11 (IP Camera	192.168.90.7 192.168.90.11 192.168.90.10 172.1.90.17 <b>172.1.90.17</b> 172.1.90.123	80 80 80 80 88888	1 1 1 2 1	ONVIF ONVIF ONVIF ONVIF		UNIVIEW	TIC26215R-F3-4F4AC-VD	ø	Acce Acce Acce Acce
armo exists Snapshot Audio Detection Human Body Detection arm V ert V		6 7 8 9 10 11	D6 (IP Camera   D7 (IP Camera   D8 (IP Camera   D9 (IP Camera   D10 (IP Camera   D11 (IP Camera	192.168.90.7 192.168.90.11 192.168.90.10 172.1.90.17 <b>172.1.90.17</b> 172.1.90.123	80 80 80 80 8888	1 1 1 2 1	ONVIF ONVIF ONVIF ONVIF ONVIF		UNIVIEW	TIC26215R-F3-4F4AC-VD	ŀ	Acce Acce Acce Acce
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**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**.

amera	Fisheye	Advanced
Add Mode	IP Address 🗸	4 · 10 04 · C6 · 01 · 97 · M7 · 17 ···
Protocol	Private 🗸	1.13, 51.00.31.01.AF.11, W
IP Address	172.1.90.235	
Port	80	
Username	admin	
Password		
Remote Camera ID	1 *	
Extended Transmission	● On ○ Off	
Extended Transmission	● On ○ Off	

**Step 5** Wait for a moment and the camera will come online automatically.

Client 🛛 🕹	Can	nera	F	isheye	Adv	anced						
System 👳												
Camera 👘 🔺	Au	ito Switch t	to H.265	● On ○ Off Note:	Effective when fi	rst connected						
Camera	Au	ito Switch t	to Smart Encoding	Off	▼ Note: Effec	tive when first connec	ted					
Encoding							0.1.5.15.0					
OSD	К	terresh	Modify	elete Add	Auto search	Search Segment	Batch Edit Pass					
Image		No.	Camera ID	Address	Port	Remote Camera ID	Protocol	Status	Vendor	Model	Configure	Acc
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
Video Loss	0	3	D3 (IP Camera	172.1.90.208	80	1	Private		UNIVIEW	IPC3618SB-ADF28KMC-I0		Acc
Tampering		4	D4 (IP Camera	172.1.90.212	80	1	Private		LIND OF M			Acc
Privacy Mask		5	D5 (IP Camera	102.168.90.9	00	1	Private		UNIVIEW	IPC03225R-X350P-D		Acc
Spanshot		7	Do (IP Camera	192.168.90.11	80	1	ONVIE	ER .				Acc
Audio Detection		9	DR (IP Camera	192,168,90,10	80	1	ONVIE	ER .				Acc
Human Rody Detection		9	D9 (IP Camera	172.1.90.17	80	1	ONVIE	EM .				Acc
Human body Detection		10	D10 (IP Camer	172.1.90.17	80	2	ONVIE	EM	UNIVIEW	TIC2621SR-E3-4E4AC-VD		Acc
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#### 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.

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C,	Camera													
Camera			🕹 Add		+ Cust	tom Add	茴		Ø	Refresh	Q Search		More	88
	Encoding	Camer		IP Add				ol Model			Add/Del	Cam Con.	Net Config	Detail
$\overline{\mathbb{A}}$	Snapshot	D1(IP	Camera 0	172.1.	90.250		Uniview							
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	OSD	🗖 D3(IP	Camera 0	172.1	90.201		Uniview							
	Image	D4(IP	Camera 0	172.1.	90.221		Uniview							
Network		D5(IP	Camera 0	172.1.	90.231		Uniview							
Å	Privacy Mask		Camera 0	172.1.	90.159		Uniview							
System	PTZ	D7(IP	Camera 0	172.1	6.0.14	$\odot$	Uniview	v IPC212	225R3-	-PF40-C				
		🗆 D8(IP	Camera 0	172.1	6.0.9	۲	Uniview							
D		🗆 D13(II	P Camera	172.1.	90.33		ONVIF							
Backup		🗆 D14(I	P Camera	172.1.	90.33		ONVIF							
~		🗆 D16(II	P Camera	172.1.	90.99		Uniview							
Storage														
$\wedge$														
Alarm														
5		Discovere	d Device(s)	:1, Add	led Devic	e(s):11;Ic	lle Rece	ve Bandwi	dth: 31	L7Mbps				
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.

		Add I	P Camera		
No	IP Address	Status	Otv	Model	P
1	172.16.0.14	Ø	1	IPC2122SR3-PF40-C	U
Add N	1ode	IP Ad	Idress		0
Add N Proto	1ode col	IP Ad	ldress		- ĭ
Add N Proto IP Add	lode col dress	IP Ad IP Ad	ldress Idress DNS		ň
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Add M Proto IP Add Port Usern	fode col dress ame	IP Ad IP Ad EZDD Dom admi	ldress Idress DNS ain Name n	N	Ť
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**Step 3** Wait for a moment and the camera will come online automatically.