VPort P06HC-1MP-M12 Quick Installation Guide

Moxa IP Camera

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P/N: 1802000061011

Overview

The VPort P06HC-1MP-M12 square-type IP cameras provide an HD (720P, 1280 x 720) video image, and feature 3 H.264/MJPEG video streams, giving them the versatility and ruggedness to excel in many different installations and environments for IP video surveillance applications. In addition, the cameras comply with a portion of EN 50155 specifications, covering operating temperature, power input voltage, surge, ESD, and vibration, making them suitable for a variety of industrial applications. The cameras feature a -25 to 55°C operating temperature, a rugged M12 Ethernet port, 1 built-in microphone, 1 digital input, PoE power inputs, IP66 rain and dust protection, and a selectable lens.

Package Checklist

Moxa's VPort P06HC-1MP-M12 is shipped with the following items. If any of these items are missing or damaged, please contact your customer service representative for assistance.

	<u>1 ×</u>	VPort	P06HC-1MP-M12	(lens	included)	
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Standard Temperature Models	Lens
VPort P06HC-1MP-M12-CAM36	3.6 mm

Accessories Package

-		
Torx screw	Silica gel dessicant and	2 L-type installation kits and 4
driver for	hook fastener for absorbing	nylock screws for mounting the
loosening	the moisture inside the	camera
the	camera	
camera's		
front lens		
cover		

Sticker for Camera Mounting Positions



Quick installation guide (printed)

- Documentation and Software CD (includes User's Manual, Quick Installation Guide, and VPort Utility)
- Warranty card

NOTE Check the model name on the VPort's side label to determine if the model name is correct for your order.

NOTE This product must be installed in compliance with your local laws and regulations.

Features

- 1/2.7"HD progressive CMOS image sensor
- Video stream up to 30 frames/sec at WXGA (1280x800) resolution
- High image quality with WDR (wide dynamic range) and DNR (Digital Noise Reduction) supported
- Minimum illumination is up to 0.2 lux (color)
- Supports MJPEG and H.264 Dual Codecs
- Provides 3 video streams for H.264 and MJPEG simultaneously
- Supports video quality configuration with fixed bit rate (CBR) and fixed quality (VBR)
- Video latency under 200 ms
- DynaStream[™] for network efficiency with dynamic frame rate change
- CBR Pro[™] supported for high image quality in limited bandwidth transmissions
- WXGA/720P/SVGA/Full D1/4CIF/VGA/CIF/ QCIF resolution
- TCP, UDP, and HTTP network transmission modes
- Supports DHCP OPT66/67 for automatic configuration from a TFTP server, making it easy to batch configure several units
- Supports RTSP streaming
- Supports multicast (IGMP) video streaming
- Supports SNMP (V1/V2C/V3) for network system integration and management
- Supports QoS (ToS) for transmission priority
- Built-in web server for easy configuration
- Accessible IP filtering
- UPnP supported
- Complies with all EN 50155 mandatory test items*

*This product is suitable for rolling stock railway applications, as defined by the EN 50155 standard. For a more detailed statement, click here: www.moxa.com/doc/specs/EN 50155 Compliance.pdf

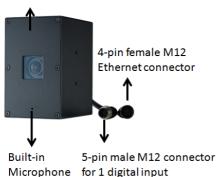
- 1 10/100BaseT(X) port with M12 D-code connector
- 1 built-in microphone for audio input
- 1 digital input with 5-pin M12 connector for external events
- · IP66 rain and dust protection
- PoE (Power-over-Ethernet, IEEE 802.3af) supported
- -25 to 55°C (EN 50155, class T1) operating temperature for rolling stock environments
- CE, FCC, UL 60950-1
- Built-in tamper alarm and Video Motion Detection (VMD)
- Pre, Trigger, and post snapshot images supported
- Sequential snapshot images supported
- Supports SMTP and FTP for alarm message transmission
- Supports HTTP event server

• 5-year warranty

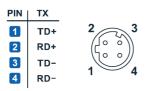
Product Description

Appearance

Removable lens cover



4-pin female D-code M12 Ethernet connector: Can be used for both the PoE power supply (Mode A) and Auto MDI/MDI-X Ethernet connection



NOTE To connect the VPort P06HC-1MP-M12 to a network, use an Ethernet cable with D-code M12 connector and an M12 PoE switch or RJ45 PoE switch.

M12 male to M12 male cable	M12 PoE Switch (e.g., TN-5508-4PoE)
M12 male to RJ45 cable	RJ45 PoE switch (e.g., EDS-P510)

NOTE The power input rating of the VPort P06HC-1MP-M12 is 48 VDC, 0.13 A, with maximum power consumption approximately 6.3 W.

- **NOTE** The equipment is designed for in building installation only and is not intended to be connected to exposed (outside a plant) networks
- 5-pin M12 male connector: The VPort P06HC-1MP-M12 supports one digital input with 5-pin M12 male connector. This DI is used for connecting with external device for triggering an event or alarm.
- Digital input: Max. 8 mA, Low: +13 V to +30 V; High: -30 V to +3 V

3 • • 2
4
5

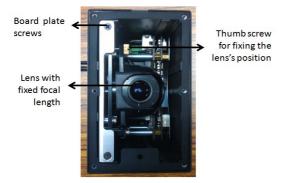
Configuration:05 Pins System: Connector(M) Mating Cable :Socket (F) Code : A-polarization PinSignal1I+2Not used3Ground4Not used5Not used

- **NOTE** This digital input is for connecting with an external device, such as a button, for triggering an event and alarm. The VPort P06HC-1MP-M12 can send messages via an IP network to the management software at a remote site.
- **Built-in microphone:** The VPort P06HC-1MP-M12 is equipped with a built-in microphone to receive external sounds. The sound will be digitized and compressed as an audio stream for network transmission with the video stream.

NOTE The effective distance for the VPort P06HC-1MP-M12's built-in microphone is 100 cm.

- **Removable lens cover:** The VPort P06HC-1MP-M12 is designed with a removable cover for fine-tuning the lens angle manually. The user can remove this lens cover after loosening the 6 torx screws.
- **NOTE** The VPort P06HC-1MP-M12's optical lens cover is coated with a high performance waterproof coating. Please use the scrubbing cloth to light clean the cover.
- **NOTE** The color of the lens cover can be customized based on your installation environment. Please contact your Moxa sales representative for customization service.

Inside the Camera



- **Thumb screw for fixing the lens's position:** To tune the lens's position, loosen the thumb screw, and then retighten it after the position tuning is done.
- Lens with fixed focal length: The VPort P06HC-1MP-M12 series supports a fixed focal-length lens. Choose the appropriate focal-length lens based on the viewing angle and object distance.
- Board plate screws: these 2 screws are for loosening the board plate, which can be pulled out for tuning the camera lens position.



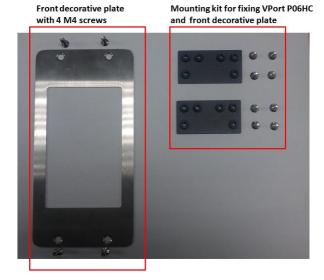
Hardware Installation

NOTE To flush mount the VPort P06HC with an intercom, use the VP-FD1 accessory (must be ordered separately) to install the camera. If you do not want to use the VP-FD1, refer to the dimensions on the installation sticker for customizing your own installation.



 using the VP-FD1 for installing with an intercom

VP-FD1



Step 1: Screw the 2 L-type installation plates onto the VPort PO6HC.

Vertical mountable





Step 2: Use the installation sticker to drill the holes for flush-mounting the VPort P06HC with the VP-FD1.

90.6 mm (3.57 in)	
• • •	
70 mm (2,26 in)	
150 mm	
160 mm (7,00 H) 150 mm (5,00 H)	
The hole size for	
VPort P06HC	
flush mount with VP-FD1's	
mountingkit	
T.	
Mattern Hower (JUH Inst) Height (150mm (JUH Inst)	
Core 100 across to (0.1, 100) Core 100 cardenia across to Core 100 cardenia (0.1, 100) Core 100 cardenia (0.1, 100)	



NOTE The screw holes for mounting the 2 VP-FD1's mounting kits are countersunk holes with 8 mm top diameter and 4.3 mm chamfer. Take this into consideration when drilling these 4 screw holes.

Step 3: Install the VP-FD1's mounting kit.

Screw 4 nylock M4 screws on the 4 countersunk screw holes with 2 VP-FD1's mounting kits.



Front view







Step 5: Mount the VPort PO6HC with the VP-FD1's mounting kit.



Step 6: Mount the VP-FD1's front decorative plate on the wall.



NOTE The type and color of VP-FD1 can be customized by request. Please contact a Moxa sales representative for this customization service.

Software Installation

Step 1: Configure the VPort P06HC-1MP-M12's IP address.

When the VPort P06HC-1MP-M12 is first powered on, the POST (Power On Self Test) will run for a few moments (about 30 seconds). The network environment determines how the IP address is assigned.

Network Environment with DHCP Server

For this network environment, the unit's IP address will be assigned by the network's DHCP server. Refer to the DHCP server's IP address table to determine the unit's assigned IP address. You may also use the Moxa VPort and EtherDevice Configurator Utility (edscfgui.exe), as described below:

Using the Moxa VPort and EtherDevice Configurator Utility (edscfgui.exe)

- Run the edscfgui.exe program to search for the VPort. After the utility's window opens, you may also click on the Search button to initiate a search.
- When the search has concluded, the Model Name, MAC address, IP address, serial port, and HTTP port of the VPort will be listed in the utility's window.

ሽ Moxa Ethernet Switch And Video Server Configurator							
List Server Firmware Configuration	Convert View Help						
£ 2 2 3 2 2 2 1 4 3 *							
Model	IP Address	MAC Address	Status	Name	Lc	iodel iame	VFort FO6HC-1MF-M12-CAMS6 VFort FO6HC-1MF-M12 IF Camera
VPort 354	172.19.16.60	00:90:E8:20:02:F3				P Address	172,19,16,32
VPort P06HC-1MP-M12-CAM36	172.19.16.32	00.90(E8:33(E3)68				letmask	255.255.255.0
VPort P06HC-1MP-M12-CAM36	172.19.16.15	00:90:E8:11:22:33				lateway GC Address	172.19.16.254 00:90:e8:33:e3:6b
EDS-408A-MM-SC	172.19.16.45	00:90:E8:0D:66:73				ierial No	01206
EDS-408A-MM-ST	192.168.127.253	00:90:E8:23:F3:7D				firmware Ver.	1.0.0
EDS-408A-MM-ST	192.168.127.253	00:90:E8:23:F3:D2				uiltTime Nos Ver.	13112820
EDS-P506A-4POE	172.19.16.252	00:90:E8:20:9D:E1				SED DOPE	80
EDS-P506A-4POE	192.168.127.253	00:90:E8:33:DA:F6					
VPort26A	172.19.16.88	00:90:E8:26:27:28					
VPort P06-1MP-M12-CAM36	192.168.127.6	00:90:E8:33:4F:64					
VPort 461	172.19.16.16	00:90:E8:21:73:D7					
VPort26A	172.19.16.31	00:90:E8:26:01:01					
VPort 16-M12 (Prolan)	172.19.16.59	00:90:E8:06:01:16					
VPort P06-1MP-M12	172.19.16.40	00:90:E8:00:00:03					
VPort P06-1MP-M12-MIC-CAM36 (LED)	172.19.16.51	00:90:E8:06:06:06					
VPort P06HC-1MP-M12-CAM36	172.19.16.27	00:90:E8:06:0C:01					
VPort 351	172.19.16.47	00:90:E8:15:2C:2F					
VPort36	172.19.16.228	00:90:E8:36:01:09					
VPort 461	172.19.16.42	00:90:E8:21:73:B8					

You can double click the selected VPort, or use the IE web browser to access the VPort's web-based manager (web server).

Non DHCP Server Network Environment

If your VPort 16-M12 is connected to a network that does not have a DHCP server, then you will need to configure the IP address manually. The default IP address of the VPort 16-M12 is 192.168.127.100 and the default subnet mask is 255.255.0. Note that you may need to change your computer's IP address and subnet mask so that the computer is on the same subnet as the VPort.

To change the IP address of the VPort manually, access the VPort's web server, and then navigate to the **System Configuration** \rightarrow **Network** \rightarrow **General** page to configure the IP address and other network settings. Check *Use fixed IP address* to ensure that the IP address you assign is not deleted each time the VPort is restarted.

Step 2: Accessing the VPort P06HC-1MP-M12's web-based manager

Type the IP address in the web browser's address input box and then press enter.

Step 3: Install the ActiveX Control Plug-in

A security warning message will appear the first time you access the VPort's web-based manager. The message is related to installing the VPort AcitveX Control component on your PC or notebook. Click Yes to install this plug-in to enable the IE web browser for viewing video images.



NOTE For Windows XP SP2 or later operating systems, the ActiveX Control component will be blocked for system security reasons. In this case, the VPort's security warning message window may not appear. You should unlock the ActiveX control blocked function or disable the security configuration to enable the installation of the VPort's ActiveX Control component.

Step 4: Access the homepage of the VPort P06HC-1MP-M12's web-based manager.

After installing the ActiveX Control component, the homepage of the VPort P06HC-1MP-M12's web-based manager will appear. Check the following items to make sure the system was installed properly:

- 1. Video Images
- 2. Video Information

Step 5: Access the VPort's system configuration.

Click on **System Configuration** to access the overview of the system configuration to change the configuration. **Model Name**, **Server Name**, **IP Address**, **MAC Address**, and **Firmware Version** appear on the green bar near the top of the page. Use this information to check the system information and installation.

For details of each configuration, check the user's manual on the software CD.

MOXV.	VPort P06HC-1	MP-M12-C	AM36			www.moxa.	
el Name I VPost P00HD 158P.M12 CAN eldress i 172.19.19.32		- VPw1 P00HC-118P44 - 00:90 E8 33 E3 68	12 IP Carriera	Firm. Version : 1.0.0	B-46 13112823		
forme 3 Main Menu 3 OverView	System Config Welcome to the Sy would like to open.		n pages. A brief descripti	on of each configuration group is give	n below. Click on a plus sign in the left pane to expand a g	roup, and then slids on the name of the page you	
🔁 System	Calennery	litera .		Description and Control			
		General		Settion Heat Name and Date/Time			
Video		Arround		Administrator, User and Demo Account	a Development Management		
Audio		System Lo		System Log and operation informatio			
a PTZ	System	System Dr					
DynaSteam			System Parameter System parameters information and Import/Export function Immere Voorade Remote Pinnware Voorade				
Alam .		Fastery De		Kento Futher Option			
		Rehood	raut	Device will reboot for restarting syste			
t viewed with 17 9-0 or		General		The IP network settings of this VPort			
ve with resolution of		SMTP Serv		Set up Primary and Secondary SMTP			
1280x1024		FTP Serve		Set up the Primary and Secondary SHIP			
		DOM:		Carfiaure DDMS	- anyw		
		Liniversel		Configure DDIS Enable LIPSE function			
	Network	Tog		Configure ToS(Type of Service)			
		Multirant					
				Set up Multicest (IOMP) Streaming Set up the HTTP Svent Server to pend			
		Accessible (P					
					mission of clients by checking their IP address		
				Configure the SNMP settings			
		Telnet		Configure Telnet			
		LLDP		Configure LLDP			
		Image Sel		Configure the information of video in			
	Video	Certere 5		Configure the attributes of video ima	14		
		Privacy Neak Video Performance		Configure the Privacy Mask settings			
					H.264), Size (Resolution), FPS and Video Quality		
	Audio	Audio Sett		Configure the Audio settings			
	PTZ Digital PTZ			Configure the Digital PTZ settings			
	DynaStream	Basic		Configure the DynaStream settings			
	DynaStream	Conditions		Configure the DynaStream tripper col	ditions settings		
				General settings of event alarm			
		Schedule		Set up the Alerm schedule			
			Motion Detection	Configure the Motion Detection Alarm			
	Alarm	Event	CO1 Event	Configure the COI event Alarm			
		Alarm	Sequential Snap Shot	Configure the Sequential Snap Shot			
				Configure the Camera Tarrowr event			

Wiring Requirements



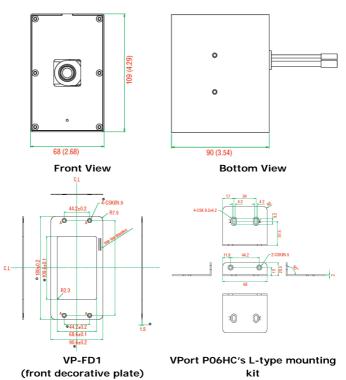
ATTENTION

Safety First!

Be sure to disconnect the power cord before installing and/or wiring your Moxa VPort P06HC-1MP-M12. Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If the current goes above the maximum ratings, the wiring could overheat, causing serious damage to your equipment. You should also pay attention to the following:

- Use separate paths to route wiring for power and devices. If power wiring and device wiring paths must cross, make sure the wires are perpendicular at the intersection point.
- You can use the type of signal transmitted through a wire to determine which wires should be kept separate. The rule of thumb is that wiring that shares similar electrical characteristics can be bundled together.
- Keep input wiring and output wiring separated.
- We strongly advise labeling wiring to all devices in the system.

Dimensions (mm)



Specifications

Camera	
Sensor	1/2.7" HD progressive scan CMOS
Lens	3.6 mm fixed focal length
Angle of view	3.6 mm, F1.6: Diagonal 125°, Horizontal 104°,
	Vertical 54°
Illumination	0.2 Lux at F=1.2, color
(Low light sensitivity)	
Synchronization	Internal
White Balance	ATW/AWB (range: 3200 to 10000°K)
Electronic Shutter	Auto, 1/30 to 1/25000 sec.

S/N Ratio	50 dB (G	amma. Apei	rture, AGC, (OFF: DNR OI	N)				
DNR	Built-in D				-/				
WDR	Level 1 to								
AGC Control	2X, 4X, 8								
Flickerless Control			c/ 50Hz/60H	lz mode					
Black level control				12 mode					
Auto Exposure		High/Medium/Low Level ±5							
Image Rotation		Flip, Mirror, and 180° rotation							
Image Setting				aturation, sh	arnness an	d			
innage Setting		contrast	uning with s		lai priess, ai				
Video									
Video Compressio	n	H.264 (IS	SO/IEC 1449	96-10) or MJ	IPEG				
Video Output		Via Ether	net port						
Video Streams		Maximun	n of 3 video	streams (2 l	H.264 and 1				
		MJPEG)							
				280 x 800 r	•				
				720 x 480 re	•				
		 Stream 	3: MJPEG,	720 x 480 re	esolution (m	ax.)			
Note: Streams 2 a	nd 3	must be	set to the s	ame resoluti	00				
Video Resolution a									
		•	•	<i>·</i>		1			
		NTS	AL						
-		Size	Max. FPS	Size	Max. FPS				
QCIF (cropping)		6 x 112	30	176 x 144	25				
CIF(cropping)	35	2 x 240	30	352 x 288	25				
VGA(cropping)	640 x 480		30	640 x 480	25				
4CIF(cropping)	70	4 x 480	30	704 x 576	25				
Full D1(cropping)	72	0 x 480	30	720 x 576	25				
SVGA(cropping)	80	0 x 600	30	800 x 600	25				
HD(cropping)	12	80x720	30	1280x720	25				
WXGA	12	80x800	30	1280x800	25				
Note: Except for 1	280								
Video Viewing		 Dyna 	iStream™ su	upported for	automatic fr	ame			
		rate adjustment							
		CBR Pro [™] for good image quality in limited							
		bandwidth transmission							
		3 configurable privacy mask areas							
		Adjustable image size and quality							
				Timestamp and text overlay OSD (On screen Display) position adjustable					
		OSD (On screen Display) position adjustable							
				Maximum of 5 simultaneous unicast					
	connections								
Audio	Digital PTZ with 4x zoom								
		1 built i	micropher	2					
Audio inputs	1, built-in microphone Mono, PCM (G.711)								
Audio format		NULIO, PC				_			
Network Drotocols						10			
Protocols		TCP, UDP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DHCP, UPnP, RTP, RTSP, ICMP, QoS,							
Ethorpot		SNMPv1/v2c/v3, DDNS, TFTP, OPT 66/67							
Ethernet		1 10/100BaseT(X) Ethernet port, 4-pin M12 D-code female connector							
			smale cuille	CIUI					

GPIO	
Digital Input	1, max. 8 mA
0	Low: +13 V to +30 V; High: -30 V to +3 V
Power Requirement	
Input	Power-over-Ethernet (IEEE 802.3af)
Consumption	Maximum 6.3W
Physical Characteris	tics
Housing	IP66 rain and dust protection, metal housing with
	transparent cover
Dimensions	109 x 68 x 90 mm (4.29 x 2.68 x 3.54 in)
Installation	Flush mounting
Environmental Limit	
Operating	-25 to 55°C (-13 to 131°F)
Temperature	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Ambient Relative	5 to 95% (non-condensing)
Humidity	
Conformal Coating	Available on request
Regulatory Approva	
Safety	UL 60950-1
EMI	FCC Part 15, CISPR 32 class A
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV
	IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m
	IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV
	IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV
	IEC 61000-4-6 CS: 10 V
	IEC 61000-4-8
Rail Traffic	EN 50155*, EN 45545-2
*This product is suitab	le for rolling stock railway applications, as defined
	dard. For a more detailed statement, click here:
· · · ·	pecs/EN 50155 Compliance.pdf
Shock	IEC 61373
	IEC 61373 IEC 60068-2-32
Shock	IEC 60068-2-32
Shock Freefall Vibration	IEC 60068-2-32 IEC 61373
Shock Freefall Vibration	IEC 60068-2-32
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Shock Freefall Vibration Note: Please check Mo status. MTBF (mean time be Time Standard Warranty Warranty Period Details Alarm Features • Intelligent Video: • • Video Motion Dete • Scheduling: Daily	IEC 60068-2-32 IEC 61373 xa's website for the most up-to-date certification etween failures) 1,275,915 hours Telcordia, Ground Benign 25°C 5 years See www.moxa.com/warranty Camera tamper (Pending) ction: 3 independently configurable motion areas repeat timing schedule
Shock Freefall Vibration Note: Please check Mc status. MTBF (mean time be Time Standard Warranty Warranty Period Details Alarm Features • Intelligent Video: 0 • Video Motion Dete • Scheduling: Daily • Imaging: JPEG sna	IEC 60068-2-32 IEC 61373 xa's website for the most up-to-date certification etween failures) 1,275,915 hours Telcordia, Ground Benign 25°C 5 years See www.moxa.com/warranty Camera tamper (Pending) ction: 3 independently configurable motion areas
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Shock Freefall Vibration Note: Please check Mc status. MTBF (mean time be Time Standard Warranty Warranty Period Details Alarm Features • Intelligent Video: 0 • Video Motion Dete • Scheduling: Daily • Imaging: JPEG sna • Email/FTP Messag or FTP as event-tr	IEC 60068-2-32 IEC 61373 xa's website for the most up-to-date certification atween failures) 1,275,915 hours Telcordia, Ground Benign 25°C 5 years See www.moxa.com/warranty Camera tamper (Pending) ction: 3 independently configurable motion areas repeat timing schedule apshots for pre/trigger/post alarm images ing: Automatic transfer of stored images via email
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Security						
Password: User	Password: User level password protection					
Filtering: By IP	address					
Encryption: HTT	TPS, SSH					
Minimum Viewing	System Requirements					
• Pentium 4, 2.4	Pentium 4, 2.4 GHz					
• 512 MB of mem	512 MB of memory					
 Windows XP wit 	Windows XP with SP3 and above, Windows 7					
 Internet Explore 	Internet Explorer 9.x or above					
 DirectX 9.0c or 	DirectX 9.0c or above					
Software Development Kit						
VPort SDK PLUS Includes CGI commands, ActiveX Control, and AP						
	library for customized applications or system					
	integration for third-party developer					
Standard	Standard ONVIF					