1CH H.264 Video Encoder

WJ-GXE100

1CH H.264 Real-time Network Video Encoder

Key Features

- Full frame H.264 transmission
- H.264 and JPEG triple encoding: A total of 3 outputs, comprising of 2 H.264 outputs and 1 JPEG output, can be provided.
- Motion adaptive interlace/progressive conversion allows every frame to be clear even when the subject is moving.
- Open command conversion table for RS485 ensures the control of various manufacture's PTZ camera.
- Camera title display: Up to 20 alphanumeric characters embedded in the image
- PoE. The power will be supplied by simply connecting a LAN cable. (IEEE802.3af compliant) 12 V DC power supply* is also available.
- Small size. And can be installed into the outdoor housing with a camera.
- Alarm sources including VMD, Command alarm, and Video loss
- VMD (Video Motion Detector) with 4 programmable detection areas
- Internet mode: H.264 images can be transmitted by over HTTP protocol.
- Multi-language GUI and setup menu: English, French, Italian, Spanish, German, Russian, Chinese, Japanese
- IPv4/IPv6 protocol supported
- ONVIF® compliant model

* For UL listed model(s), only connect 12 V DC Class 2 power supply.

Standard Accessories

- Installation Guide.....1 pc.
- CD-ROM*1 .....1 pc.
- Code label*2.....1 pc.
- Power cord plug.....1 pc.
- Cable tie ..... 2 pcs. (incl. 1 spare)

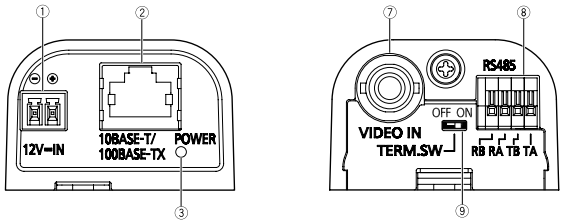
*1 The CD-ROM contains the operating instructions and different kinds of tool software programs.
*2 This label may be required for network management. The network administrator shall retain the code label.

Specifications

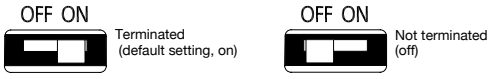
TV System			NTSC	PAL
Video IF	Video Input Connector		1 V [p-p]/75 Ω, NTSC or PAL composite video signal* * NTSC and PAL can be switched in the setup menu.	
Browser GUI	Camera Control		pan / tilt / zoom / focus / preset positions / auto focus / brightness	
	Camera Control Protocol		i-PRO (Panasonic) / Pelco-D / Pelco-P / Custom	
	Display Mode		Up to 16 camera images can be displayed simultaneously on a multi-screen. (Including the camera itself)	
	Unit Title		Up to 20 characters	
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks) On/Off	
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Auto / Manual)	
	Alarm Control		Reset	
	One Shot Capture		A still picture will be displayed on a newly opened window.	
	GUI/Setup Menu Language		English, French, Italian, Spanish, German, Russian, Chinese, Japanese	
	System Log		Up to 100 (Internal)	
	Supported OS*1 *2		Microsoft® Windows® 7 Microsoft® Windows Vista® Microsoft® Windows® XP Professional SP3	
	Supported Browser		Windows® Internet Explorer® 9.0 32 bit Windows® Internet Explorer® 8.0 32 bit Windows® Internet Explorer® 7.0 32 bit Internet Explorer® 6.0 SP3	
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector	
	Image Resolution	Picture (Camera) mode [4:3]	H.264: VGA (640x480)/QVGA (320x240), max. 30 fps JPEG: VGA (640x480)/QVGA (320x240), max. 30 fps	H.264: VGA (640x480)/QVGA (320x240), max. 25 fps JPEG: VGA (640x480)/QVGA (320x240), max. 25 fps
		Picture (Camera) mode [16:9]	H.264: 640x360/320x180, max. 30 fps JPEG: 640x360/320x180, max. 30 fps	H.264: 640x360/320x180, max. 25 fps JPEG: 640x360/320x180, max. 25 fps
		Picture (Camera) mode [D1]	H.264: D1 (720x480), max. 30 fps JPEG: D1 (720x480), max. 30 fps	H.264: D1 (720x576), max. 25 fps JPEG: D1 (720x576), max. 25 fps
	H.264*3	Transmission Mode	Constant bitrate / Framerate priority / Best effort	
		Frame Rate	1 / 3 / 5 / 7.5 / 10 / 15 / 20 / 30 fps	1 / 3.1 / 4.2 / 6.25 / 8.3 / 12.5 / 20 / 25 fps
		Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps	
		Image Quality	Low / Normal / Fine	
		Refresh Interval	0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s	
		Transmission Type	Unicast / Multicast	
	JPEG	Image Quality	10 steps	
		Refresh Interval	0.1 fps ~ 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.)	0.08 fps ~ 25 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.)
		Transmission Type	Pull / Push	
	Total Bit Rate		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited	
	Supported Protocol		IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP	
	FTP Client		Alarm image FTP transmission, FTP periodic image transmission*4	
	No. of Simultaneous Users		Up to 14 users (Depends on network conditions)	
	Cellular Phone Compatibility		JPEG image	
	Mobile Terminal Compatibility*5		iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals	
Alarm	Alarm Source		VMD, Command alarm, Video loss alarm	
	Alarm Actions		E-mail notification Indication on browser, FTP image transfer, TCP alarm notification output	
Input/ Output	RS485 Port		1x RS485 (4 wire / 2 wire, Full/Half duplex. Open command conversion table for other manufacturers' PTZ camera)	
General	Safety/EMC Standard		UL (UL60950-1), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60950-1), DOC (ICES003 ClassA)	CE (EN55022 ClassB, EN55024)
	Power Source and Power Consumption		12 V DC*: 200 mA, PoE 48 V: 75 mA (Class 1 device) * For UL listed model(s), only connect 12 V DC Class 2 power supply.	
	Ambient Operating Temperature		-10 °C ~ +50 °C (14 °F ~ 122 °F) (During start-up: 0 °C to +50 °C {32 °F to 122 °F})	
	Ambient Operating Humidity		Less than 90 % (no condensation)	
	Dimensions		45 mm (W) x 29.5 mm (H) x 88 mm (D) {1-25/32 inches (W) x 1-5/32 inches (H) x 3-15/32 inches (D)} (excluding projections)	
	Mass (approx.)		Approx. 110 g {0.24 lbs}	
	Finish		Unit (resin part): PC resin, sail white Unit (metal part): Electrogalvanized steel sheet, sail white coating	

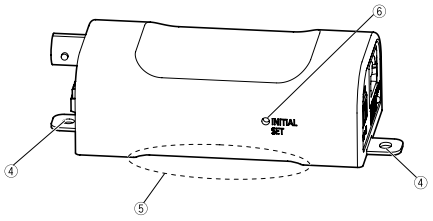
*1 For further information about PC system requirements and precautions for when using Microsoft® Windows® 7, Microsoft® Windows Vista®, or Windows® Internet Explorer®, click "Manual" - "Open" from the supplied CD-ROM and refer to "Notes on Windows®/Internet Explorer® versions".
*2 When using IPv6 for communication, use Microsoft® Windows® 7 or Microsoft® Windows Vista®.
*3 Transmission for 2 streams can be individually set in the same compression method.
*4 Not available when "D1" is selected for "Picture (Camera) mode".
*5 For further information about compatible devices, refer to our website (https://i-pro.com/global/en/surveillance/training-support/support).

Part Names and Functions



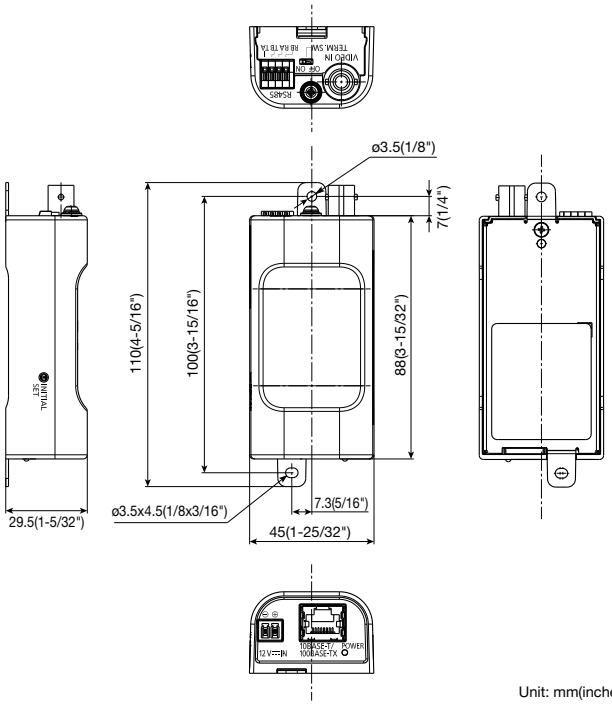
Video Input terminal switch





① 12 V DC Power Supply Terminal
② Network Connector
③ Live Indicator
④ Mounting Hole
⑤ Ventilation Area (also on the other side of the unit)
⑥ INITIAL SET Button
⑦ Video Input Connector
⑧ RS485 Port
⑨ Video Input Terminal Switch

Appearance



Unit: mm(inches)

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Important
– Safety Precautions : Carefully read the Basic Information, Installation Guide and Operating Instructions before using this product.
– i-PRO Co., Ltd. cannot be held responsible for the performance of the network and/or other manufacturers' products used on the network.

• Masses and dimensions are approximate.
• Specifications are subject to change without notice.
• These products may be subject to export control regulations.

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