

i-PRD
SmartHD

ONVIF



H.264 / JPEG

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.

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	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 Test	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				
Network	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			
		10Base-T / 100Base-TX, RJ-45 connector			
	Network IF	Image Resolution	Picture (Camera) max. 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) max. 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) max. [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 / Frame rate 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		
JPEG		Transmission Type	Unicast / Multicast		
		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.)	
Total Bit Rate		Transmission Type	Pull / Push		
		Supported 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)			
Alarm	Cellular Phone Compatibility	JPEG image			
	Mobile Terminal Compatibility ⁵	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals			
	Alarm Source	VMD, Command alarm, Video loss alarm			
Input/Output	Alarm Actions	E-mail notification Indication on browser, FTP image transfer, Panasonic protocol output			
	RS485 Port	1x RS485 (4 wire / 2 wire, Full/Half duplex. Open standard conversion table for other manufacturers' PTZ camera)			
General	Safety/EMC Standard	UL (UL60950-1), FCC (Part 15 ClassA), CE			
		C-UL (CAN/CSA C22.2 No.60950-1), (EN55022 ClassB, EN55024)			
		DOC (ICES003 ClassA)			
	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.			
		-10 °C ~ +50 °C (14 °F ~ 122 °F) (During start-up: 0 °C to +50 °C (32 °F to 122 °F))			
	Ambient Operating Temperature	Less than 90 % (no condensation)			
	Ambient Operating Humidity	45 mm (W) x 29.5 mm (H) x 88 mm (D) (1-25/32 inches (W) x 1-1/32 inches (H) x 3-15/32 inches (D)) (excluding projections)			
	Dimensions	Approx. 110 g (0.24 lbs)			
	Mass (approx.)	Unit (resin part): PC resin, sail white Unit (metal part): Electroalvanized steel sheet, sail white coating			
	Finish				

*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 (<http://panasonic.net/psc/security/support/info.html>).

Figure 1 consists of two diagrams. The left diagram is a rear panel view showing three main terminals: 12V-IN, 108BASE-T7/100BASE-TX, and POWER. The right diagram is a front panel view showing VIDEO IN, TERM.SW, RS485, and a VIDEO INPUT SWITCH. The front view also shows a ventilation area and a mounting hole.

Video Input terminal switch

OFF ON
Terminated (default setting, on)

OFF ON
Not terminated (off)

Figure 2 shows two states of the Video Input terminal switch. The first state is 'OFF ON' with the switch set to 'Terminated (default setting, on)'. The second state is 'OFF ON' with the switch set to 'Not terminated (off)'.

Figure 3 shows the front view of the unit with the following components labeled:

- 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

Technical drawing of the Panasonic VUJ-GKE100 unit, showing front, side, and rear views with dimensions in inches and millimeters.

Front View Dimensions:

- Overall Height: 110 (4-5/16")
- Overall Width: 45 (1-25/32")
- Mounting Hole Spacing (Horizontal): 7.3 (5/16")
- Mounting Hole Spacing (Vertical): 88 (3-15/32")
- Bottom Mounting Hole Diameter: $\phi 3.5 \times 4.5$ (1/8 x 3/16")

Side View Dimensions:

- Overall Depth: 29.5 (1-5/32")

Rear View Details:

- Top Mounting Hole Diameter: $\phi 3.5$ (1/8")
- Top Mounting Hole Spacing (Vertical): 7 (1/4")
- Bottom Mounting Hole Diameter: $\phi 3.5 \times 4.5$ (1/8 x 3/16")
- Bottom Mounting Hole Spacing (Horizontal): 7.3 (5/16")
- Bottom Mounting Hole Spacing (Vertical): 88 (3-15/32")

Unit Label: Panasonic VUJ-GKE100

Unit: mm(inches)

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- Safety Precaution: Carefully read the operating instructions and installation manual before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

- Printed in Japan (2A-104AL)