

Fujitsu Real-time Video Transmission Gear IP-HE900



IP-HE900 is a compact real-time video compression and transmission gear in a 1U half-rack size. It has implemented convenient functions that can be used in a variety of scenes, such as information cameras and on-site broadcasts. The video coding methods are H.264 and H.265.



Features

■ Robust network error correction

Fujitsu proprietary network error correction method “Fujitsu QoS (FEC/ARQ combination)” is a proven IP series feature that achieves stable video transmission over IP Networks. It also supports the industry standard SMPTE 2022-1.

■ Scan convert function

The encoder provides a resolution down converter and the frame rate converter for optimizing the coding rate. The decoder can upconvert SD and output it as HD video signal.

■ Compact chassis

The 1U half rack size compact and rugged chassis.

■ Low latency

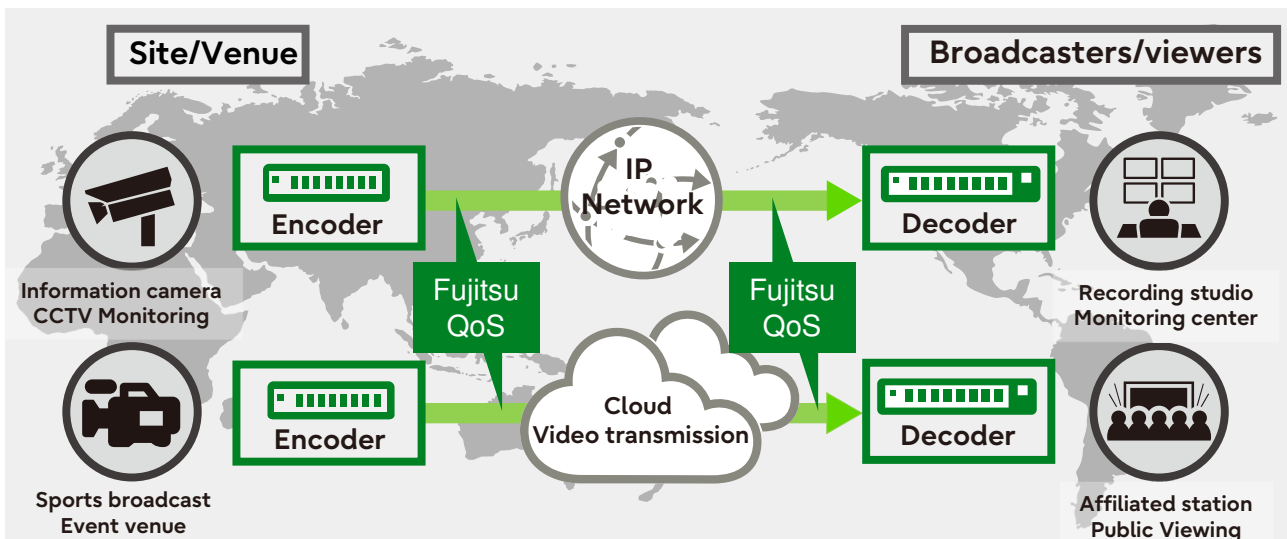
Provides a minimum latency of approximately 99ms for IP transmission (excluding network latency).

■ Superimpose

Characters and timecode can be superimposed on the video and encoded.

■ Dual encoding function

One video can be simultaneously streamed at two different resolutions and encoding rates.



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Specifications

Items		IP-HE900E (Encoder)	IP-HE900D (Decoder)
Video	Interface, Format	1 x HD-SDI(SMPTE 292M)/SD-SDI(SMPTE 259M) input, 1 x HDMI input	1 x HD-SDI(SMPTE 292M)/SD-SDI(SMPTE 259M) output, 1 x HDMI output
		1080i x 1920 (50/59.94/60Hz), 720p x 1280 (50/59.94Hz), 480i x 720 (59.94Hz), 576i x 720 (50Hz)	
	Converter	Down converter : HD to SD	Up converter : SD to HD
	Coding	ITU-T H.264/MPEG-4 AVC (ISO/IEC 14496-10) HP@L4, HP@L3, MP@L4, MP@L3	
		ITU-T H.265/HEVC (ISO/IEC/ISO/IEC 23008-2) Main	
Resolution, Frequency, Bit Rate		1080i x 1920/1440/960 (25/29.97/30fps) 1080i x 1920/1440/960 (~14.985fps) 720p x 1280/960/640 (50/59.94fps) 480i x 720 (29.97fps), 576i x 720 (25fps) 480i x 720 (~14.985fps)	: 500kbps-27Mbps : 100kbps-5Mbps : 500kbps-27Mbps : 300kbps-10Mbps : 100kbps-5Mbps
		240i x 352 (29.97fps), 288i x 352 (25fps) 240i x 352 (~14.985fps), 288i x 352 (~12.5fps) 112i x 176 (~14.985fps), 144i x 176 (~12.5fps)	: 150kbps-10Mbps : 25kbps-1Mbps : 25kbps-1Mbps
Reference	----	1 x Reference Input (BB)	
Audio	Interface	1 x SDI embedded(SMPTE 299M/272M) input, 1 x HDMI input	1 x SDI embedded (SMPTE 299M/272M) output, 1 x HDMI output
	Coding	MPEG-1 Layer2 (ISO/IEC 11172-3) 4ch(2/0) MPEG-2 AAC (ISO/IEC 13818-7) 4ch(2/0)	:128,256,384kbps/Stereo :56 ^(*) ,64,128,256,384kbps/Stereo
System format		MPEG-2 TTS, MPEG-2 TS	
Transport		RTP, UDP, SMPTE 2022-2	
Error correction		Fujitsu QoS (FEC and ARQ), SMPTE 2022-1 (Pro-MPEG FEC)	
Network	IPv4	PPPoE, DHCP, SNTP, SNMP v1/SNMP v2c, IGMP v3	
	IPv6	SNTP, SNMP v1/SNMP v2c, MLDv2	
Control		Web GUI, SNMP	
Additional functions		Dual encoder, Superimpose	----
Network interface		1 x 10BASE-T/100BASE-TX	
Data (outside MUX.)		RS-232C (Pass-thru)	
External Dimensions (W x D x H)		210 x 300 x 42 mm (w/o protrusions)	
Weight		Approx. 2.3 kg	
Power Supply		AC100 ~ 240 V	
Power Consumption		75VA (max.)	64VA (max.)
Temperature		-10 ~ 55 degrees C	
Humidity		20 ~ 90RH (No condensations)	
Compliance		UL, CE, UKCA, FCC, VCCI, RoHS, KC	

There are limitations when the video encoding is H.265 (optional). Please refer to "H.265 Functions of V01L010" sheet. The specifications are subject to change without notice.

Appearance of Main unit

IP-HE900E (Encoder)

IP-HE900D (Decoder)



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