FUJITSU Network
Real-time Video Transmission Gear IP-HE950

IP-HE950 is a video transmission equipment adopted highly efficient video encoding technology "H.265/HEVC". H.265/HEVC realizes 2 times compression ratio than H.264/AVC. 1U half rack size small chassis with high performance LSI will realize real-time 4K contribution.

Features

◼ 1U half size chassis

1U half rack size chassis with front panel and keys will realizes PC less operation .

◼ SD~4K Video

SD~HD transmission as normal function and 4K transmission as optional function will be supported. User can install as HD model first, then can upgrade to 4K later based on the 4K environmental improvement. This will realize user's efficient investment. Also, video format auto sensing function will adjust compression video format automatically.

◼ Robust Network Error Correction

Fujitsu proprietary FEC and ARQ combination proven by Fujitsu IP series and standardized SMPTE-2022-1 FEC will provide robust network error correction.   In addition, 2 LAN port for IP network redundancy will provide robust network error tolerance.

◼ For contents transmission

Support 4:2:2 format, 8ch audio, ancillary data transmission for contents transmission.
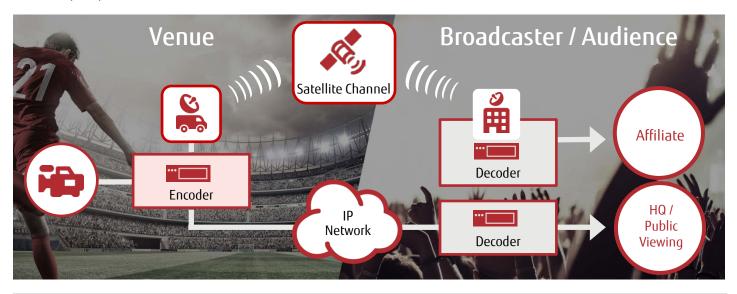
◼ Variable I/O Interface

BNC I/O supports 12G/3G/HD/SD-SDI video signals. In addition, support SFP for other new interface such as HDMI and SDI over IP.

◼ Video Archive, Video File Transmission

Support recording compressed video and audio into local storage and pickup them in arbitrary timing. Offline recording and transmitting will be also possible.

◼ Dual Encode

Support transmitting main video and proxy video simultaneously for remote video switching application.

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Product Lineup

□ **Main Unit**
   IP-HE950E (Encoder)
   IP-HE950D (Decoder)

□ **Hardware Option**
   Quad 3G-SDI Input
   Quad 3G-SDI Output
   HDMI Input, HDMI Output
   SDI Output
   SDI over IP

□ **Software Option**
   4K
   Contribution-plus（422/ANC etc.）
   BISS scramble
   Dolby Digital

Note: These options are tentative and are subject to change without notice.

Specifications

Product	IP-HE950E (Encoder)	IP-HE950D (Decoder)

Video coding	**H.265/HEVC**
	□ Profile : Main422 10, Main 10, Main □ Level : 5.1, 4.1, 4.0, 3.0
	□ Resolution (Frequency) : 2160p x 4096/3840 (50/59.94Hz),
	   1080p x 1920/1440/960 (50/59.94Hz), 1080i x 1920/1440/960 (50/59.94Hz),
	   720p x 1280/960/640 (50/59.94Hz), 480i x 720/352 (59.94Hz), 576i x 720/352 (50Hz)	

	H.264/MPEG-4 AVC □ Profile : High422, High, Main □ Level : 4.2, 4.0, 3.0 □ Resolution (Frequency) : 1080p x 1920/1440/960 (50/59.94Hz), 1080i x 1920/1440/960 (50/59.94Hz), 720p x 1280/960/640 (50/59.94Hz), 480i x 720/352 (59.94Hz), 576i x 720/352 (50Hz)	

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		□ Profile : 422, High □ Level : High, Main
		□ Resolution (Frequency) : 1080i x 1920 (50/59.94Hz),
		   720p x 1280 (50/59.94Hz),
		   480i x 720 (59.94Hz), 576i x 720 (50Hz)

Audio coding	MPEG-1 Layer2, MPEG-2 AAC LC, MPEG-4 AAC LC, MPEG-4 HE-AAC V2, MPEG-4 AAC-ELD, Dolby Digital, SMPTE 302M	
	8ch, 5.1ch	
Ancillary data	SMPTE 2038, SMPTE 334, SMPTE RD 11, CEA-608/708, ARIB STD-B40	
Streaming protocol	RTP, UDP, Unicast, Multicast(IGMPv3/IPv4, MLDv2/IPv6)	
Error correction(IP)	FEC, ARQ, SMPTE 2022-1	
Encryption	BISS-1 / E	
Audio & Video I/F	1 x 12G/3G/HD/SD-SDI input AES-EBU 2stereo input, Analog (Balanced) stereo input 2 x SFP I/F(HDMI, Quad 3G-SDI, SDI over IP, SDI output(Active thru))	1 x 12G/3G/HD/SD-SDI output AES-EBU 2stereo output, Analog (Balanced) stereo output 1 x Reference input, 1 x Reference output 2 x SFP I/F(HDMI, Quad 3G-SDI, SDI over IP, SDI output)
Streaming I/F	2 x 10BASE-T/100BASE-TX/1000BASE-T(Stream & Control) 2 x DVB-ASI output	2 x 10BASE-T/100BASE-TX/1000BASE-T(Stream & Control) 1 x DVB-ASI input
AUX data	1 x RS-232C/RS-422	
Misc. functions	HDR support, Recording*1, Dual Encoding(Proxy)*1, Superimpose*1, File reproduction*2	
Dimensions / Weight	210(W) x 300(D) x 43(H) mm / Approx. 2.5kg	
Temp / Humidity	-10 ~ 55°C (Except under 0°C start) / 20 ~ 90RH (No condensation)	

*1 : Encoder's function , *2 : Decoder's function
Note : Functions in this table include optional features and they will be enhanced in stages.

IP-HE950E (Encoder)   **IP-HE950D (Decoder)**

● The specifications are subject to change without notice.

Contact Information
   Planning & Global Business Support Team

   Development & Technology Department
   Product & System Development Division
   Safety Solution Business Unit
   Inquiry: https://www.fujitsu.com/global/products/computing/peripheral/video/contact/video-contact-form.html