

# 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 basic 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 changing its market requirement. This will realize user’s efficient investment. In addition, Decoder recognizes receiving stream formats automatically and decodes to output video. HDx4ch multi-channel transmission is also available.

### ■ Variable I/O Interface

Onboard BNC supports 12G/3G/HD/SD-SDI video signals. In addition, support SFP for other new interface such as HDMI and Video over IP. Analog audio is also supported.

### ■ Robust Network Error Correction

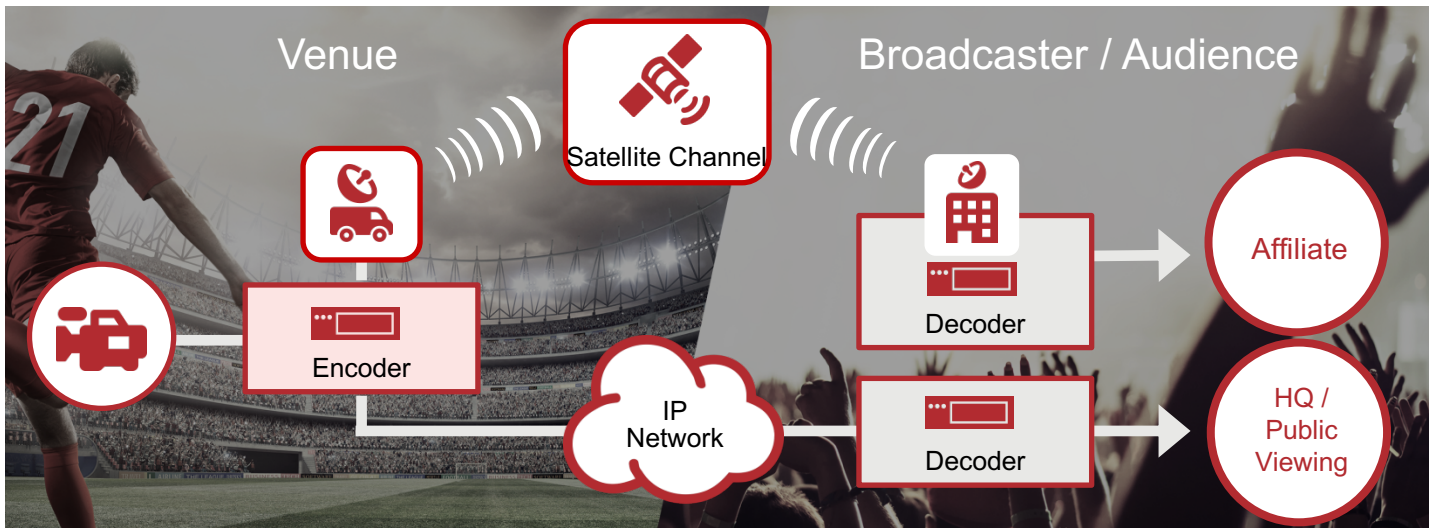
Fujitsu proprietary FEC and ARQ combination proven by Fujitsu IP series and standardized SMPTE-2022-1 FEC will provide robust network error correction. In addition, 2 LAN port for IP network redundancy provides robust network error tolerance by using different IP network.

### ■ Simultaneous transmission over IP & DVB-ASI

Support plurals unicast transmission and multicast transmission. Simultaneous transmission to IP and DVB-ASI with BISS is also possible.

### ■ Dual Encode

Support transmitting H.265 steam from primary encoder and H.264 video stream from secondary encoder simultaneously. This realizes flexible migration from existing H.264 system to new H.265 system.



## Product Lineup

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| <ul style="list-style-type: none"> <li>❑ Main Unit</li> <li style="padding-left: 20px;">IP-HE950E (Encoder)</li> <li style="padding-left: 20px;">IP-HE950D (Decoder)</li> </ul> | <ul style="list-style-type: none"> <li>❑ Hardware Option</li> <li style="padding-left: 20px;">Quad 3G-SDI Input</li> <li style="padding-left: 20px;">Quad 3G-SDI Output</li> <li style="padding-left: 20px;">SDI Output</li> <li style="padding-left: 20px; color: blue;">HDMI Input, HDMI Output</li> <li style="padding-left: 20px; color: blue;">Video over IP</li> </ul> | <ul style="list-style-type: none"> <li>❑ Software Option</li> <li style="padding-left: 20px;">4K</li> <li style="padding-left: 20px;">Contribution-plus (422/ANC/HDx4ch etc.)</li> <li style="padding-left: 20px;">BISS scramble</li> <li style="padding-left: 20px;">IP redundancy Decoder</li> </ul> |
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## Specifications

Note: These options are subject to change without notice.

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, <b>3.0</b> □ Resolution (Frequency) : 2160p x 3840 (29.97/50/59.94Hz)*, 1080i x 1920 (50/59.94Hz) x 4ch* 1080p x 1920/ <b>1440/960</b> (50/59.94Hz), 1080i x 1920/ <b>1440/960</b> (50/59.94Hz), 720p x 1280/ <b>960/640</b> (50/59.94Hz), 480i x 720/ <b>352</b> (59.94Hz), 576i x 720/ <b>352</b> (50Hz)	
	H.264/MPEG-4 AVC □ Profile : High422*, High, Main □ Level : 4.2, 4.0, <b>3.0</b> □ Resolution (Frequency) : 1080p x 1920/ <b>1440/960</b> (50/59.94Hz), 1080i x 1920/ <b>1440/960</b> (50/59.94Hz), 720p x 1280/ <b>960/640</b> (50/59.94Hz), 480i x 720/ <b>352</b> (59.94Hz), 576i x 720/ <b>352</b> (50Hz)	
	Secondary encoder (IP output)	MPEG-2 □ Profile : Main □ Level : High □ Resolution (Frequency) : 1080i x 1920/1440 (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, SMPTE 302M, MPEG-4 AAC LC, MPEG-4 AAC-ELD, <b>Dolby-E pass thru</b> 4ch, 8ch*, 5.1ch	
Ancillary data	SMPTE 2038*, ARIB STD-B40*, <b>SMPTE 334*</b> , <b>SMPTE RD 11*</b> , <b>CEA-608/708*</b>	
Streaming protocol	RTP, UDP, Unicast, Multicast(IGMPv3/IPv4, MLDv2/IPv6)	
Error correction(IP)	FEC, ARQ, SMPTE 2022-1, IP network redundancy	
Encryption	BISS-1 / E*	
Audio & Video I/F	1 x 12G*/3G/HD/SD-SDI input Analog (Balanced) stereo input*, <b>AES-EBU 2stereo input*</b> , 2 x SFP I/F(Quad 3G/HD-SDI*, SDI output(Active thru)*), <b>HDMI*</b> , <b>Video over IP*</b>	1 x 12G*/3G/HD/SD-SDI output Analog (Balanced) stereo output*, <b>AES-EBU 2stereo output*</b> , 1 x Reference input, 1 x Reference output 2 x SFP I/F(Quad 3G/HD-SDI*, SDI output*, <b>HDMI*</b> , <b>Video over IP*</b> )
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	
Dimensions / Weight	210(W) x 300(D) x 43(H) mm / Approx. 2.5kg	
AC IN / Power consumption	AC 100 ~ 240V / <90W	AC 100 ~ 240V / <87W
Temp / Humidity	-10 ~ 55° C (Except under 0° C start) / 20 ~ 90RH (No condensation)	

\* : Optional function 3G-SDI supports Level-A  
 Note : Functions in blue letters will be enhanced in stages.



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## Contact Information

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