

Fujitsu Real-time Video Transmission Gear IP-HE950

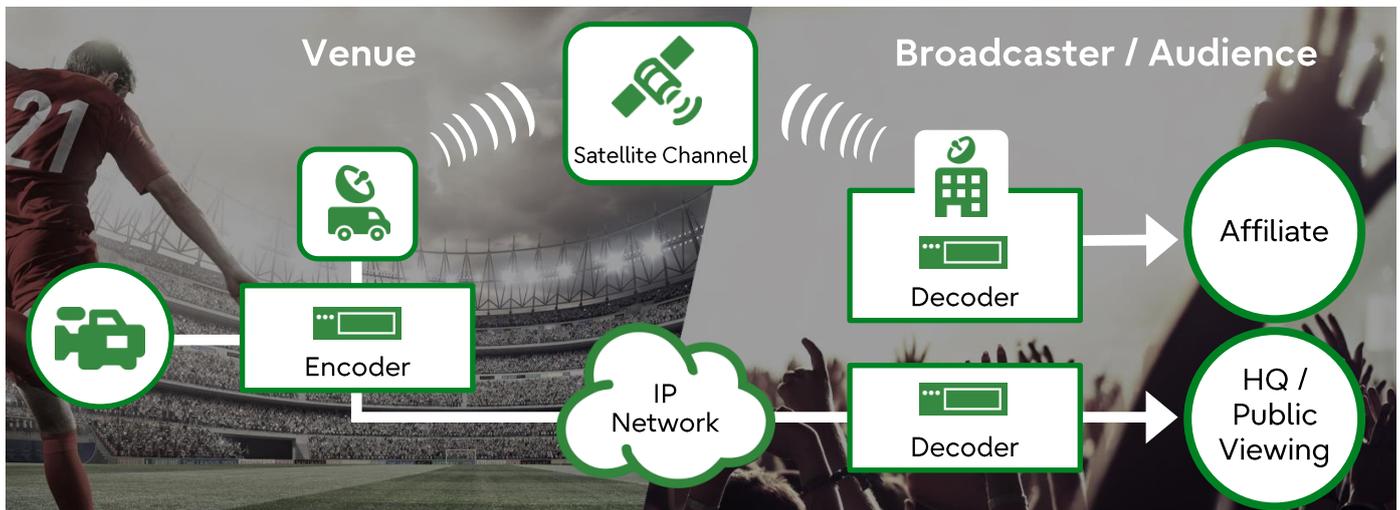


IP-HE950 is a video transmission equipment adopted highly efficient video encoding technology "H.265/HEVC" that realizes 2 times compression ratio than H.264/AVC. Equipped with the high-performance LSI, it is 4K compatible in a small 1U half-rack size chassis.



Features

- **1U half size chassis**
1U half rack size chassis with front panel.
- **SD~4K Video**
SD~HD transmission as basic function and 4K transmission as optional function is supported. User can that upgrade on their site. Decoder recognizes receiving stream formats automatically and decodes to output video. In addition, HDx4ch multi-channel transmission is also available.
- **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.
- **Robust Network Error Correction**
Fujitsu's proprietary network error correction nethod, Fujitsu QoS (FEC/ARQ combination), provides stable video transmission over IP In addition, IP network redundancy with two LAN ports provides robust network error tolerance.
- **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.
- **Variable I/O Interface**
Onboard BNC supports 12G/3G/HD/SD-SDI video signals. In addition, the SFP interface supports other new I/Os. Analog audio is also supported.



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Product Lineup

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

 - Hardware Option
 - Quad 3G-SDI input
 - Quad 3G-SDI Output
 - SDI Output

 - Software Option
 - 4K
 - Contribution-plus (422/ANC/HDx4)
 - BISS scramble
 - IP redundancy Decoder

Note: There are also various conversion cables and rack mounting kits.

Specifications

Product	IP-HE950E (Encoder)	IP-HE950D (Decoder)
Video coding	H.265/HEVC <input type="checkbox"/> Profile : Main422 10*, Main 10, Main <input type="checkbox"/> Level : 5.1*, 4.1, 4.0 <input type="checkbox"/> Resolution (Frequency) : 2160p x 3840 (29.97/50/59.94Hz)*, 1080p x 1920 (50/59.94Hz), 1080i x 1920/1440 (50/59.94Hz), 720p x 1280 (50/59.94Hz), 480i x 720 (59.94Hz), 576i x 720 (50Hz)	
	H.264/MPEG-4 AVC <input type="checkbox"/> Profile : High422*, High, Main <input type="checkbox"/> Level : 4.2, 4.0 <input type="checkbox"/> Resolution (Frequency) : 1080p x 1920 (50/59.94Hz), 1080i x 1920/1440 (50/59.94Hz), 720p x 1280 (50/59.94Hz), 480i x 720 (59.94Hz), 576i x 720 (50Hz)	
	Secondary encoder (IP output)	MPEG-2
	H.264/MPEG-4 AVC <input type="checkbox"/> Profile : High, Main <input type="checkbox"/> Level : 4.1 <input type="checkbox"/> Resolution (Frequency) : 1080i x 1920/1440 (50/59.94Hz)	<input type="checkbox"/> Profile : Main <input type="checkbox"/> Level : High <input type="checkbox"/> Resolution (Frequency) : 1080i x 1920/1440 (50/59.94Hz), 720p x 1280 (50/59.94Hz)
Audio coding	MPEG-1 Layer2, MPEG-2 AAC LC, MPEG-4 AAC LC, MPEG-4 AAC-ELD, SMPTE 302M / 4ch, 5.1ch, 8ch*	
System	MPEG-2 TS(H.265/H.264), MPEG-2 TTS(H.264)	
Ancillary data	ARIB STD-B40*, SMPTE 2038*	
Streaming protocol	RTP, UDP, SMPTE 2022-2, Unicast, Multicast(IGMPv3/IPv4, MLDv2/IPv6)	
Error correction	Fujitsu QoS(FEC/ARQ), SMPTE 2022-1, IP network redundancy	Fujitsu QoS(FEC/ARQ), SMPTE 2022-1, IP network redundancy*
Encryption	BISS-1 / E*	BISS-1 / E
Audio & Video I/F	1 x 12G*/3G/HD/SD-SDI input, Analog (Balanced) stereo input*, 2 x SFP I/F(Quad 3G/HD-SDI input*, SDI output(Active thru)*)	1 x 12G*/3G/HD/SD-SDI output Analog (Balanced) stereo output*, 1 x Reference input, 1 x Reference output 2 x SFP I/F(Quad 3G/HD-SDI output*, SDI output*)
Stream 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	
Control	Web GUI, Front panel, SNMP	
Power	100~240VAC / up to 90W	100~240VAC / up to 87W
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)	

*: Optional function

Note: 3G-SDI supports Level-A. The specifications are subject to change without notice. Please contact us for further enhancement.

Appearance

IP-HE950E (Encoder)

IP-HE950D (Decoder)

Front



Rear



Fujitsu Limited

Media Solutions Project, Solution & Service Department, Social Systems Unit

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