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.

■ Simultaneous transmission over IP & DVB-ASI

Support plural unicast and multicast transmission. Simultaneous transmission over IP and DVB-ASI with BISS is 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
  - SDI Output
  - HDMI Input, HDMI Output
  - Video over IP

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

## Specifications

### H.265/HEVC
- **Profile**: Main422 10*, Main 10, Main
- **Level**: 5.1*, 4.1, 4.0, 3.0
- **Resolution (Frequency)**: 2160p x 3840 (29.97/50/59.94Hz)*, 1920 x 1080/1440/480 (50/59.94Hz), 720 x 1280/960/640 (50/59.94Hz), 576i x 720 (50Hz)

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

### Secondary encoder (IP output)
- **Profile**: High
- **Level**: High, Main
- **Resolution (Frequency)**: 1920 x 1080/1440 (50/59.94Hz)

### 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 2038**, 2ch, 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, SMPTPE 2022-1**

### Encryption
- **BISS-1 / E**

### Audio & Video I/F
- 1 x 12G*/3G/HD-SDI input
- Analog (Balanced) stereo input*, AES-EBU 2stereo input*, 2 x SFF I/F (Quad 3G/HD-SDI*, SDI output (Active thru)*, HDMI*, Video over IP*)

### Streaming I/F
- 2 x 10BASE-T/100BASE-TX/1000BASE-T(Stream & Control)
- 2 x DVB-ASI output

### AUX data
- 1 x RS-232C/RS-422

### Dimensions / Weight
- 210(W) x 300(D) x 43(H) mm / Approx. 2.5kg

### Power
- AC 100 ~ 240V

### Temp / Humidity
- -10 ~ 55°C (Except under 0°C start) / 20 ~ 90RH (No condensation)

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* : Optional function

3G-SDI supports Level-A

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

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