FUJITSU Network
Real-time Video Transmission Gear IP-920

IP-920 is a Video Transmission Equipment adopted highly efficient video encoding technology, “H.264” to perform live transmission of high fidelity SDTV and HDTV at low bit-rates. IP-920 supports balanced analog audio for professional legacy equipment users. IP-920E: Encoder IP-920D:Decoder

### Features

**Best-in-Class Video Fidelity**
- Applying the latest MPEG-4 AVC (H.264) compression tools and image processing algorithms, it provides best-in-class video fidelity. High Profile @ Level 4 encoding provides high video fidelity for use over enterprise network.

**Compact, Light and Half Width**
- Compact (1RU and 210mmW) and rugged construction enable you to use in remote sites which is demanded SDTV and HDTV video.

**Support Balanced Analog Audio**
- IP-920E supports balanced audio interface instead of unbalanced audio IP-900 supported. XLR-3 connector is used for legacy analog, audio equipment for broadcast can be connected via attached.

**Low Latency**
- IP-920 has “Low Latency Mode” as one of settings and has implemented less than 400ms with H.264 IP transmission among Encoder/Decoder.

**Ultra Low Latency**
- In addition to “Low Latency” mode, “Ultra Low Latency” mode as a new option of IP-920 is enabled less than 99ms with H.264 IP transmission among Encoders/Decoders.

**NIT (Carrier ID)**
- Video can be smoothly transmitted using Carrier ID and NIT over Satellite Network. This feature is suitable for global video transmission among plural countries.

**Multiple Interfaces**
- SD-SDI/HD-SDI - HDMI
- NTSC/PAL (Video Input/Output) - Balanced analog audio

**Archiving and File Transfer**
- Encoded video and audio data can be recorded in encoder, then downloaded remotely from the network operation center whenever you need it. Even if the network is thin, high fidelity video can be transferred to designated point.
- 16GB internal storage (optional).

**Robust Error Correction (FEC/ARQ)**
- Assembles Fujitsu Proprietary FEC (Forward Error Correction) /ARQ (Automatic Repeat Request) proven at existing Fujitsu IP series equipment and “Pro-MPEG FEC” of industry-standard, this offers powerful network error correction.

**Other Features**
- Dual encoder (2 types of bit rate encoding)
- Superimpose (text and time)
- RS-232C (pass-thru)

**Application:** News Gathering (SNG/ ENG), Live Sports Backhaul, etc.

## Specifications

<table>
<thead>
<tr>
<th>Items</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video</strong></td>
<td></td>
</tr>
<tr>
<td>Input / Output</td>
<td>1 x HD-SDI(SMPTE 292M) / 1 x SD-SDI (SMPTE 259M), 1 x HDMI, 1 x NTSC/PAL</td>
</tr>
<tr>
<td><strong>Coding</strong></td>
<td></td>
</tr>
<tr>
<td>Resolution, Frequency, Bit Rate</td>
<td>1080i x 1920/1440/960 (50/59.94/60Hz) 1080p x 1920 (29.97Hz)*4: 100kbps-27Mkbps 720p x 1280/960/640 (60/59.94Hz), 720p x 1280 (25/29.97Hz)*5: 500kbps-27Mkbps 480i x 720/352 (59.94Hz), 576i x 720/352 (50Hz) : 100kbps-10Mkbps 240i x 352 (59.94/29.97Hz), 288i x 352 (50/25Hz) : 25kbps-1Mkbps</td>
</tr>
<tr>
<td><strong>GOP</strong></td>
<td>Closed GOP/Open GOP</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
</tr>
<tr>
<td>Input / Output</td>
<td>2 x SDI embedded (SMPTE 299M/272M), 1 x HDMI, 1x Balanced Analog pair (D-Sub 9 pin)</td>
</tr>
<tr>
<td><strong>Coding</strong></td>
<td></td>
</tr>
<tr>
<td>Resolution, Frequency, Bit Rate</td>
<td>128,256,384kbps/Stereo</td>
</tr>
<tr>
<td><strong>Multiplexing Method</strong></td>
<td>MPEG-2 TTS, MPEG-2 TS</td>
</tr>
<tr>
<td><strong>Ancillary Data</strong></td>
<td>NIT (Carrier ID), SDT</td>
</tr>
<tr>
<td><strong>Transport</strong></td>
<td>RTP/UDP/IP, UDP/IP</td>
</tr>
<tr>
<td><strong>Error correction</strong></td>
<td>Fujitsu FEC and ARQ, SMPTE 2022-1 (Pro-MPEG FEC)</td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td>IPv4: PPPoE, DHCP, SNTP, SNMP v1/SNMP v2c, IGMP v3</td>
</tr>
<tr>
<td><strong>Control</strong></td>
<td>Web GUI, SNMP</td>
</tr>
<tr>
<td><strong>Additional functions</strong></td>
<td>Recording*, Dual encoder, Superimpose</td>
</tr>
<tr>
<td><strong>Network interface</strong></td>
<td>1 x 10BASE-T/100BASE-TX</td>
</tr>
<tr>
<td><strong>Data (outside MUX.)</strong></td>
<td>RS-232C (Pass-thru)</td>
</tr>
<tr>
<td><strong>External Dimensions (W x D x H)</strong></td>
<td>210 x 300 x 42 mm (w/o protrusions)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 2.3 kg</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>AC100 ~ 240 V</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>38VA</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>-10 ~ 55 degrees C</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>20 ~ 90RH (No condensations)</td>
</tr>
<tr>
<td><strong>Compliance</strong></td>
<td>UL, CE, FCC, RoHS, KC</td>
</tr>
</tbody>
</table>

*1: IP-920E with HD option software, IP-920D
*2: Need Optional CF card
*3: Selectable 2ch (2 x Stereo) mode (Single Encoder) or 1ch (1 x Stereo) mode (Dual Encoder)
*4: Connector conversion cable is attached  *5: Decoder’s function  *6: when not using sub encoder  *7: Need Optional license and cable

Front Panel

Rear Panel

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Note) HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

The specifications are subject to change without notice.

Contact

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