IP-9500 is a Video Transmission Equipment adopted highly
efficient video encoding technology, “H.264” to perform live
transmission of high fidelity HDTV at low bit-rates over broadband
networks.

The super low latency mode is realized with IP-9500/IP-9500D
decoder and used in the delay-sensitive contribution and
distribution applications, especially ENG/SNG live coverage.

Features

Best-in-Class Video Fidelity
Applying the latest MPEG-4 AVC (H.264) compression tools and video
processing algorithms, it provides best-in-class video fidelity. High Profile
@ Level 4 encoding provides high video fidelity to 6Mb/s for use in
broadcast contribution and distribution networks.

HDTV Transmission over IP and DVB-ASI
Compared with MPEG-2, MPEG-4 AVC (H.264) reduces bit rates more
than half for equivalent video fidelity. This enables you to transmit HDTV
content over inexpensive broadband networks and reduce your network
costs drastically.

Low Latency
IP-9500 has “Low Latency Mode” as one of settings and has
implemented 500ms for IP and 300ms for DVB-ASI interface among
Encoder/Decoder.

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

Compact 1RU and Half Depth
Compact (1RU and 350mmD) and rugged construction enable you to
use at remote sites which is demanded HDTV video fidelity.

Optional DVB-S/S2 Modulator
An optional DVB-S/S2 modulator card provides the direct
interoperability with SNG systems. IP-9500 is the smallest HD
SNG encoder with this card (1RU, less than 400mm Depth).

HD/SD Hybrid Platform
IP-9500 provides a same platform for HD and SD decoder.
According to the news source, it enables you to change the
environment easily and quickly from/ to HD and SD.

Encoder/Decoder Switchable
IP-9500 transforms from/to encoder and decoder by
operation mode selection (software switchable). It enables to
change direction of transmitting easily and reduce your facility
costs.

Archiving and File Transfer
Encoded video and audio data can be recorded in encoder,
then downloaded remotely from the network operation center
everywhere you need it.
- 4 or 8GB internal storage (optional)

Ancillary Features
- Simulcast (HD and SD encoding)
- Intercom
- Down converter (HD to SD)
- RS-232C

Application: Transmits High-Definition Video using IP network and Satellite

shaping tomorrow with you
## Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VIDEO</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Input</strong></td>
<td>1 x HD-SDI (SMPTE 292M) or SD-SDI (SMPTE 259M), 1 x HDMI</td>
</tr>
<tr>
<td><strong>GENLOCK Input</strong></td>
<td>1 x NTSC/PAL Black Burst or HD Tri-level Sync</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>1 x HD-SDI (SMPTE 292M) or SD-SDI (SMPTE 259M), 1 x HDMI (Down-converted)</td>
</tr>
<tr>
<td><strong>Coding</strong></td>
<td>ITU-T H.264/MPEG-4 AVC (ISO/IEC 14496-10) HP, MP@L4, HP, MP@L3</td>
</tr>
<tr>
<td></td>
<td>4:2:2 Coding (CSC422)</td>
</tr>
<tr>
<td><strong>Resolution, Frequency, Bit Rate</strong></td>
<td>HD: 1920/1440/960 x 1080i (59.94/50Hz), 1280/960/640 x 720p (59.94/50Hz)</td>
</tr>
<tr>
<td></td>
<td>SD: 720 x 480i (59.94Hz), 720 x 576i (50Hz)</td>
</tr>
<tr>
<td></td>
<td>HD: 3 ~ 38 Mbps, SD: 1.3 ~ 14 Mbps</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Input / Output</strong></td>
<td>4 x AES Pairs embedded in SDI (SMPTE 299M/272M), 1 x HDMI</td>
</tr>
<tr>
<td></td>
<td>1 x Analog Stereo Pair (Balanced)</td>
</tr>
<tr>
<td><strong>Coding</strong></td>
<td>MPEG-1 L2 (ISO/IEC 11172-3), MPEG-2 AAC (ISO/IEC 13818-7)</td>
</tr>
<tr>
<td></td>
<td>Dolby-E Pass-thru, SMPTE302M Pass-thru, AC-3/ATSC or DVB Pass-thru</td>
</tr>
<tr>
<td><strong>Intercom</strong></td>
<td>G.711</td>
</tr>
<tr>
<td><strong>Network Interface</strong></td>
<td>10BASE-T/100BASE-TX/1000BASE-T, DVB-ASI, DVB-S/S2 (IF-Band, L-Band)</td>
</tr>
<tr>
<td><strong>Latency</strong></td>
<td>Low / Standard</td>
</tr>
<tr>
<td></td>
<td>IP : Max. 500ms / Max. 1.56s</td>
</tr>
<tr>
<td></td>
<td>DVB : Max. 300ms / Max. 1.38s</td>
</tr>
<tr>
<td><strong>Error Correction / Encryption</strong></td>
<td>Fujitsu FEC and ARQ, Pro-MPEG FEC / BISS-1 and E</td>
</tr>
<tr>
<td><strong>External Dimensions (W x D x H)</strong></td>
<td>425 x 350 x 42 mm (1RU)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 6kg</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>100 - 240 VAC</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>-10 - 55 degrees C</td>
</tr>
</tbody>
</table>

- 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.

### Front Panel

![Front Panel Image](image)

### Rear Panel

![Rear Panel Image](image)