**Futura II ASI+IP™**


**Features**
- Encodes Analog, HDMI, or HD/SD-SDI video to ASI and/or IP
- Inputs: Component, Composite, HDMI, HD/SD-SDI video
- Supports EIA-708 closed caption insertion via HD-SDI (SMPTE 334)
- Outputs: ASI, IP (UDP/IP or RTP/IP)
- Low latency – 800 milliseconds
- Digital, Analog and Serial Digital embedded audio inputs
- 5.1 channel SPDIF audio optical input (pass through)
- Auto detection of video resolution
- Magnum chip based – results in incredible quality
- Simultaneous outputting of mirrored ASI streams or UDP/IP or RTP/IP transport stream
- CBR or VBR outputs
- Audio encoding: Dolby® Digital® (AC-3), MPEG-1 Layer II, AAC-LC, HE-AAC
- User selectable resolution and bit rate
- Resolutions: 480i, 480p, 576i, 576p, 720p, 1080i 25, 29.97/30, 50, 59.94/60
- Chroma format: 4:2:0
- Supports PAT, PMT, SDT, NIT, VCT (TVCT, CVCT) and a dynamic PSIP insertion ASI port
- Control and monitoring via web browser, front panel, or SNMP
- Supports closed captioning with CEA-708

**Applications**
- Encoding uncompressed Broadcast or Cable
- Distribution of video in any setting

**Overview**

MPEG-2 is now the de facto standard codec for Broadcast, Satellite, and Cable content distribution in many parts of the world. H.264 is the emerging standard for broadcast.

The Futura II ASI+IP™ is an affordable Broadcast oriented MPEG-2 or H.264 encoder that supports all of the standard broadcast formats used throughout the world, including all North American standards. It supports PSIP tables and has an ASI port for dynamic PSIP.

The unit supports HD-SDI, HDMI, YPbPr, and CVBS input and two identical ASI outputs, plus one IP output. The Futura II ASI+IP delivers MPEG-2 video at bit rates of 3.4 to 19.39 Mbps, and H.264 video at 2.5 to 19.39 Mbps.

Audio support includes Dolby® Digital® (AC-3), MPEG-1 Layer II, AAC-LC, and HE-AAC.

The Futura II ASI+IP is "Magnum Semi" chip based. Magnum Semiconductor created one of the best quality encoder chips. One look and you will be impressed.

**Sample GUI**

![Video Settings](image_url)

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### Specifications

#### Video Input

<table>
<thead>
<tr>
<th>Component</th>
<th>(YPbPr), Composite (CVBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Analog:</strong></td>
<td>Component (YPbPr), Composite (CVBS)</td>
</tr>
<tr>
<td><strong>Level:</strong></td>
<td>1 Vp-p</td>
</tr>
<tr>
<td><strong>Digital:</strong></td>
<td>HDMI, SDI, HD-SDI</td>
</tr>
<tr>
<td>Passes through VBI, AFD, Bar Data, VANC</td>
<td></td>
</tr>
<tr>
<td><strong>Levels:</strong></td>
<td>1000 mVp-p (HDMI), 800mVp-p (SDI)</td>
</tr>
<tr>
<td><strong>Resolutions:</strong></td>
<td>480i 29.97/30, 576i 25, 720p 50/59.94/60, 1080i 25, 29.97/30, 50, 59.94/60</td>
</tr>
<tr>
<td><strong>Aspect Ratios:</strong></td>
<td>16:9 (Digital only), 4:3</td>
</tr>
</tbody>
</table>

#### Audio Input

| Input: | One Stereo (Two channels) |
| Frequency Range: | 20 Hz – 20 kHz |
| Impedance: | 600 Ω/20 Ω |
| Connector: | Mini XLR |
| **Digital:** | Inputs: AES-EBU, Embedded SDI/HDMI (2 stereo pairs, H.264 only) |
| Sampling Rate: | 32, 44.1, 48 kHz |
| Connector: | BNC (75Ω)/HDMI-19PIN |
| **Optical Input:** | SPDIF (5.1 Channel) (pass through) |

#### Video Encoding

- **Encoding:** MPEG-2: HP@HL, MP@ML, MPEG-4: H.264-HP@L4, MP@ML
- **Encoding Rate:** MPEG-2: 2 – 17.2 Mbps, MPEG-4: H.264: 0.5 – 17.2 Mbps
- **Chroma Format:** 4:2:0
- **PSNR:** 33dB
- **Bit Rate Modes:** CBR, VBR
- **Latency:** 800 milliseconds
- **Closed Captioning:** EIA-708, 608 in converts to 708

#### Audio Encoding – One Audio Pair

- **Sampling Rate:** 32, 44.1, 48 kHz
- **Dolby® Digital® AC-3:** 128, 192, 256, 384 Kbps
- **MPEG-1 Layer II:** 192, 224, 256, 320, 384 Kbps
- **MPEG-4 AAC-LC:** 32 – 384 Kbps
- **MPEG-4 HE-AAC v1:** 32 – 192 Kbps
- **MPEG-4 HE-AAC v2:** 32 – 96 Kbps

### Ordering Info

**Futura II ASI+IP**

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