

**MediaRig Encoder SD** is a feature-rich, affordably priced MPEG-2 encoder system suitable for a full spectrum of cable, satellite and terrestrial DTV applications. Combining dramatic improvements in the Intel platform with Ligos' own innovative software and hardware design, MediaRig Encoder SD is the compact, reliable alternative that redefines the cost vs. performance tradeoff that broadcasters are often forced to address.



satellite contribution/distribution, ingest-to-archive and IPTV services. And MediaRig is proven, already in use by industry leaders such as SeaChange, Sony, Time-Warner cable, Broadbus and more – a testament to the excellence and versatility of the technologies that have made Ligos a leader in the global digital video market.

## Technical Specifications

<b>INPUT FORMAT OPTIONS</b>	<p>Video</p> <ul style="list-style-type: none"> <li>Analog Composite per SMPTE 170M, BNC</li> <li>Digital SDI @270 Mbit/s per SMPTE 259M, BNC</li> <li>NTSC and PAL</li> <li>Closed Captioning: DVS 157, EIA608 Line 21, EIA708</li> </ul>	<p>Audio</p> <ul style="list-style-type: none"> <li>2 stereo pairs or 4 independent mono channels</li> <li>Analog: balanced audio input of up to 4 total channels via four 3-pin female XLR connectors</li> <li>Digital: SDI embedded</li> </ul>
<b>PROCESSING</b>	<p>Video</p> <ul style="list-style-type: none"> <li>Formats: ISO/IEC 13818 MPEG-2 (MP@ML and 4:2:2P@ML), including 4:2:2 D-10 Sony IMX</li> <li>500 kbit/s - 15 Mbit/s (4:2:0); 1.5 - 50 Mbps (4:2:2)</li> <li>Constant Bit Rate and Variable Bit Rate modes</li> <li>Horizontal Res: 720, 704, 544, 528, 480, and 352</li> <li>Vertical Res: 576, 480 and 4:2:2 Expanded Window</li> <li>Built-in scaling for popular broadcast formats</li> <li>Frame rates: 29.97 and 25 fps</li> <li>Aspect ratio: 1:1, 4:3, 16:9, 2.21:1</li> <li>Adaptive and manual spatial pre-filtering options</li> </ul>	<p>Audio</p> <ul style="list-style-type: none"> <li>Formats: <ul style="list-style-type: none"> <li>ISO/IEC 11172-3 MPEG audio Layer II</li> <li>Uncompressed PCM file (WAV)</li> <li>Dolby Digital (AC-3) 2 Channel</li> </ul> </li> <li>Operating Modes: Mono or Stereo</li> <li>Encoding Bit Rates: <ul style="list-style-type: none"> <li>MPEG audio Layer 2 - 64 to 384 kbps</li> <li>Dolby Digital (AC-3) - 56 to 640 kbps</li> </ul> </li> <li>Sampling Frequency: 16-bit 48 kHz</li> <li>Audio attenuation from -20db to +20db</li> </ul>
<b>OUTPUT FORMATS</b>	<ul style="list-style-type: none"> <li>Transport Stream (SPTS/SCPC)</li> <li>Program and Elementary Stream options</li> <li>Static PSIP and PSI/SI control tables</li> </ul>	<ul style="list-style-type: none"> <li>DVB-ASI output via BNC</li> <li>UDP multicast streaming over IP</li> <li>Output to file(s)</li> </ul>
<b>MANAGEMENT</b>	<ul style="list-style-type: none"> <li>Sophisticated and intuitive graphical user interface</li> <li>Customizable presets for drag-and-drop operation</li> <li>Input monitoring</li> </ul>	<ul style="list-style-type: none"> <li>Ligos NMS: Control up to 25 systems remotely via IP</li> <li>Event and alarm monitoring, with customizable alarm prioritization, cues and logging</li> </ul>
<b>ADDITIONAL FEATURES</b>	<ul style="list-style-type: none"> <li>Genlock input with analog option</li> <li>Logo/bug static image insertion and positioning</li> <li>Manual A/V sync adjustment</li> <li>Ligos' exclusive techniques for superior quality, even at lower bit rates</li> </ul>	<ul style="list-style-type: none"> <li>Full control over IPB sequence, including Long GOP, I-frame only and scene detection with automatic I-Frame insertion</li> <li>Telecine detection with 3:2 Pull Down</li> <li>Online software updates and support</li> </ul>

## System Details

<b>SYSTEM</b>	<b>Single Channel 1RU SD Encoder Rackmount</b> (Dual Channel version no longer available)
<b>INTERFACES</b>	Ligos PCI Media Adapter for input and output. SDI with embedded audio in and DVB-ASI output, or; Composite video in with Genlock & breakout cable with XLRs for balanced audio, and DVB-ASI output. Complete specifications available from Ligos.
<b>PLATFORM</b>	Dual Core Pentium E2180 2.0 GHz, 1MB Cache, 800MHz Front Side Bus 1GB DDR2 RAM ; 80 GB 7 2K HDD & DVD-ROM Windows XP Professional
<b>PHYSICAL</b>	<ul style="list-style-type: none"> <li>1U rack height</li> <li>1.68"/4.2cm H x 17.6"/44.70cm W x 21.5/54.61cm D</li> <li>Weight 26 lb./ 11.8 kg</li> <li>Tool-less stationary rails; mounts in 2- or 4-post racks</li> <li>Dual onboard Gigabit NICs</li> </ul>
<b>POWER &amp; ENVIRONMENTAL</b>	1 x 345W (non-redundant), 110/220 Volts Operating Temperature: 10° C to 35° C (50° F to 95° F) Operating Humidity: 20% to 80% (non-condensing), gradient: 10% per hour
<b>WARRANTY</b>	MediaRig Encoder Software and Fero Media Adapters 1 year from date of purchase; Dell Computer 3-Year Limited Warranty and Next-Business-Day On-Site Service and Parts (USA)



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