

# ENC-5004 Distribution Encoder

## DVB, ATSC and IPTV Distribution Multi-Encoder Designed for 24x7 applications

### Applications

- 24x7 Video Distribution

### Features

- Specifically designed for demanding 24x7 distribution applications
- Up to four (4) encoders per chassis
- Digital SDI with embedded audio input
- SD or HD compression for maximum flexibility of operation
- MPEG-2 or MPEG-4 compression
- SDI or HD-SDI inputs with embedded audio
- Full EIA 608 and 708 Closed Caption support
- Dual redundant power supplies
- 7-button front panel
- Large illuminated LCD display
- 1RU compact rugged rackmount chassis
- Two (2) ASI outputs
- IP output as MCPC & 1-4x SCPC
- Fully ATSC and DVB Compliant
- AC-3, MPEG Layer II and AAC audio compression

### Description

The ENC-5004 distribution encoder is specifically designed for demanding 24/7 distribution applications. With all of the features necessary for SD and HD compression in either MPEG-2 or MPEG-4 operation at an industry- leading low price, the ENC-5004 is the perfect distribution encoding system for multichannel operations.

### Configurable

The ENC-5004 can be purchased with either 2 or 4 encoders per chassis. This reduces rack space requirements and allows the user to easily and cost effectively upgrade and expand their encoding systems.

### Easy to use

There is a complete set of front panel button controls for easy configuration, even in the dark. The large LCD display is illuminated, yet provides high contrast for visibility in direct sunlight. Control may be via the simple front panel interface or via the integrated web browser controlled simple software interface.

### Reliable and affordable

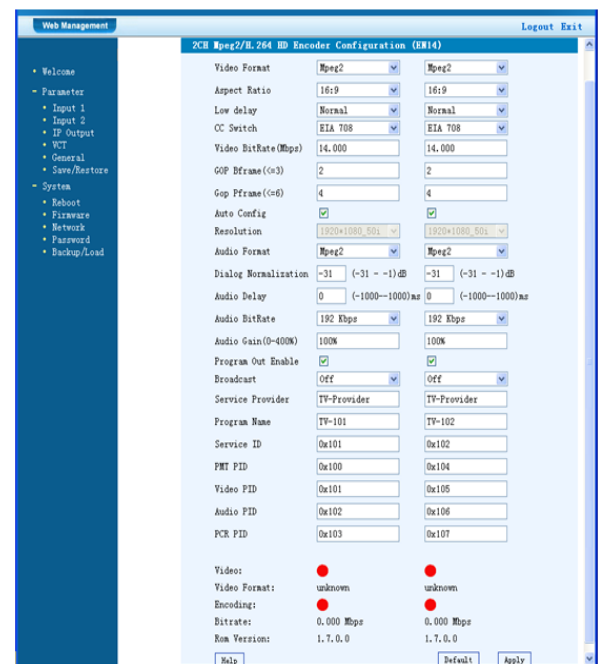
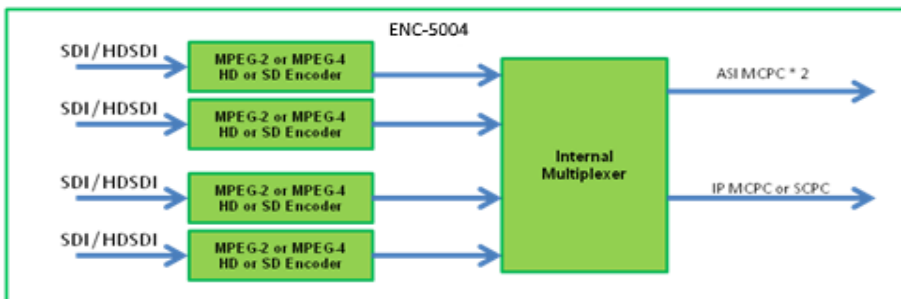
By using the latest integration of MPEG and low-power digital electronics technology, the ENC-5004 combines 4 encoders in a single chassis to provide the most cost effective multi-encoder product on the market. With dual redundant power supplies, you can be comfortable knowing the ENC-5004 will operate in your demanding 24 / 7 environments.

### Configuration

The ENC-5004 is configured for SD and HD operation including MPEG-2 & MPEG-4 codecs, so it is ready for advanced operation when you are.

Setup and operation by:

- Front Panel (pictured on next page)
- Web browser GUI (as below)



# TECHNICAL SPECIFICATIONS—ENC-5004 Distribution Multi-Encoder



STANDARD FEATURES	
<b>Video Inputs</b>	<ul style="list-style-type: none"> <li>SD formats: PAL (625 Line) or NTSC (525 Line)</li> <li>HD formats: 720px50/60 or 1080ix25/29.95</li> <li>Two (2) or four (4) SDI / HD-SDI on BNC</li> <li>SMPTE 259M or SMPTE 292M with embedded audio</li> </ul>
<b>Video Processing</b>	<ul style="list-style-type: none"> <li>MPEG-2 4:2:0 (1.0 to 19.5 Mb/s)</li> <li>MPEG-4 AVC / H.264 4:2:0 (500 kb/s to 19.5 Mb/s)</li> <li>Encoding Delay: 3 Modes Normal, Mode 1, Mode 2</li> <li>4:3 and 16:9 Configurable Aspect Ratio</li> <li>Low Latency function supported</li> <li>VBR or CBR operation</li> </ul>
<b>Vertical Blanking Interval</b>	<ul style="list-style-type: none"> <li>ATSC Closed Captions, Per A/53 (SDI)</li> <li>EIA 608 or 708 Captions</li> </ul>
<b>Audio Inputs</b>	<ul style="list-style-type: none"> <li>Embedded audio extraction as per SMPTE 272M / 299M</li> </ul>
<b>Audio Processing</b>	<ul style="list-style-type: none"> <li>MPEG-1 Layer II, AC-3 2.0, HE-AAC or LC-AAC</li> <li>One audio pair per video compression</li> </ul>
<b>Control Tables</b>	<ul style="list-style-type: none"> <li>Internally-Generated DVB or ATSC Compatible PSI/SI Tables</li> <li>PSI Editing capabilities</li> </ul>
<b>Timing</b>	<ul style="list-style-type: none"> <li>Lip Synchronization Adjustment -30 to +300 ms</li> </ul>
<b>Transport Output</b>	<ul style="list-style-type: none"> <li>MPEG-2, DVB-Compliant Transport Streams</li> <li>Two DVB ASI Outputs 75 Ohm BNC Connectors 1 to 20 Mbps, in Units of 1 bps</li> <li>IP Output, UDP or RTP, MPTS or 4x SPTS</li> </ul>

STATUS AND CONTROL INTERFACES	
<ul style="list-style-type: none"> <li>7 button front panel control</li> <li>Backlit LCD Display</li> <li>Web based control management</li> </ul>	
POWER REQUIREMENTS	
<b>Supply Voltage</b>	100 to 240 VAC, 50 or 60 Hz
<b>Power Consumption</b>	45 Watts maximum
PHYSICAL PARAMETERS	
<b>Chassis</b>	1RU rackmount
<b>Dimensions (H, W, D)</b>	4.4 cm x 48.2 cm x 40 cm (1.73" x 19" x 15.7")
<b>Weight</b>	4.5 kg (9.9 lbs.)
ENVIRONMENTAL CONDITIONS	
<b>Operating Temperature</b>	0° to 45° C (32° to 113° F)

HD Video Resolutions	
	1920*1080_50i
	1920*1080_60i
	1440*1080_60i
	1440*1080_50i
	1280*720_60p
	1280*720_50p
	720*480_60i
	720*576_50i
	720*480_60p
	720*480_30p
	720*480_25p
	720*576_50p
	720*576_30p
	720*576_25p

<b>H.264 Profile</b>	Automatic
	Baseline Profile
	Main Profile
	High Profile
<b>H.264 Level</b>	Level 2.2
	Level 3
	Level 3.1
	Level 3.2
	Level 4
	Level 4.1
	Level 4.2
	Level 5
	Level 5.1

<b>Audio Format</b>	MPEG2
	MPEG2 AAC
	MPEG4 AAC
	AC 3

<b>Audio Bit Rate</b>	64 kb/s
	96 kb/s
	128 kb/s
	192 kb/s
	256 kb/s
	320 kb/s

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