



## MPEG-2 Encoder

### MAIN CHARACTERISTICS:

- 1U Rack
- PAL/NTSC Video Input
- Two Analogue Audio Channels
- Video Noise Reduction Filter
- Full D1 Picture Resolution
- Up to 15Mbps Video Bit-Rate
- Complete Remote Control
- ISO/IEC 13818-1 compliant Output
- Built-in Time Base Corrector
- Broadcast Picture Quality
- Perfect for any DVB application

### APPLICATIONS:

- Fixed and Mobile Contribution/Distribution
- Cable TV head-ends
- Video-on-Demand
- Video-over-IP (using external multiplexer)
- Direct Broadcast Satellite
- DVB-T Transmissions
- DVB-S/C/T Encoding for Local Insertion
- Encoding for Digital Microwave Links
- High-quality Video Surveillance
- Digital News Gathering
- Remote Education

### FEATURES AND OPTIONS:

- Up to 27Mbps Output System Bit-rate
- Composite and Y-C Video Input
- SDI Video Input
- AES/EBU Digital Audio Input
- Variable GOP Structure

The MPEG-2 ENCODER is a compact, high-quality, real-time MPEG-2 4:2:0 Audio-Video Encoder offered by Elettronika for the extremely demanding Digital Television market. It offers **great simplicity of operation** together with a top-performance compression engine and an **excellent picture quality**. It exceeds the audio&video encoding specifications of Digital Video Broadcasting (DVB) for Broadband Satellite, Terrestrial and Cable applications.

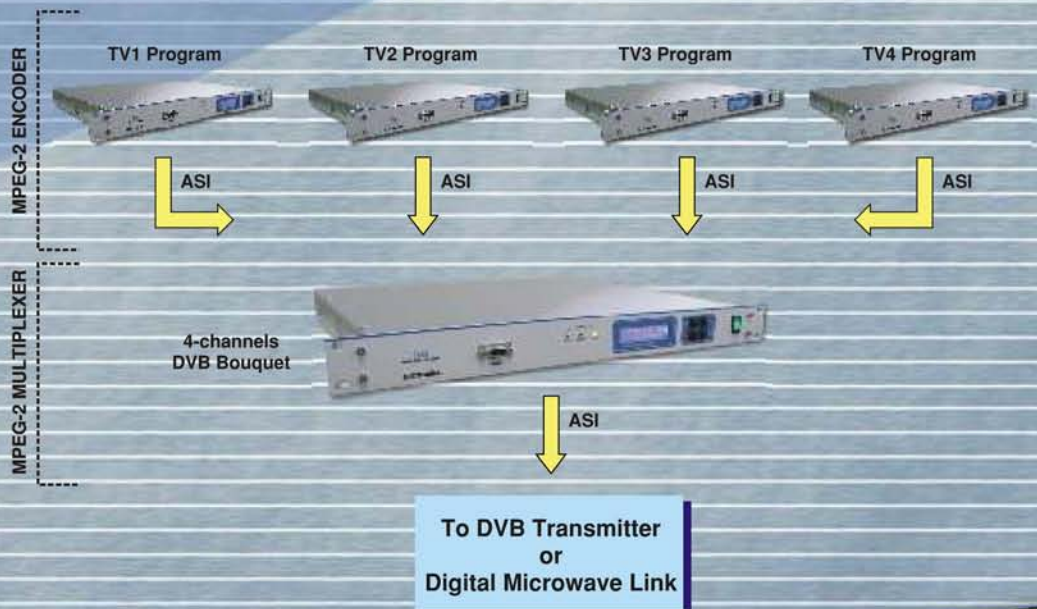
The MPEG-2 ENCODER is assembled in a single 1U case containing a multi-standard video decoder, an analog-to-digital audio&video conversion stage, a unique digital compression engine, an embedded stream multiplexer for combining the compressed Audio and Video streams, and a dual DVB-ASI output interface.

The excellent video quality together

with the low bit-rate operation let the MPEG-2 ENCODER achieve **excellent performances with optimal bandwidth utilisation**.

The MPEG-2 ENCODER parameters are completely configurable by the user and can be saved in **four user-programmed presets**, easily recallable by the front-panel interface. Other **four factory-programmed presets** are available for user operation.

The MPEG-2 ENCODER is the perfect solution for any state-of-the-art audio-video applications, including digital TV, high-quality video surveillance, videoconference, remote education, news gathering, etc.





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# Technical characteristics

## VIDEO SECTION

|                 |                                    |
|-----------------|------------------------------------|
| Video Formats   | NTSC / PAL                         |
| Analogue Inputs | Composite, Y-C (S-Video)           |
| Digital Input   | SDI (Option)                       |
| Composite Input | BNC 75 $\Omega$ -1Vpp              |
| Resolution      | D1, 3/4D1, 2/3D1, 1/2D1, SIF, QSIF |
| Encoding Rate   | Up to 15Mbit/s                     |

## AUDIO SECTION

|                         |  |
|-------------------------|--|
| Audio Formats           | 2 analogue   |
| Audio Modes             | 2 mono, 1 stereo, dual channel, joint-stereo         |
| Analogue Inputs         | Balanced 6-pole mini-DIN, 600 $\Omega$ , 0dBu (adj.) |
| Digital Inputs (Option) | SDI-embedded or AES/EBU                              |
| Sampling Rates          | 32kHz, 44.1kHz, 48kHz                                |
| Encoding Rate           | Up to 448kbit/s                                      |

## PRE-PROCESSING

|               |  |
|---------------|--|
| Video Section | Noise Reduction Filtering<br>Time Base Corrector<br>Notch/Comb Video Filtering |
|---------------|--|

## PROCESSING

|                       |  |
|-----------------------|--|
| Video Encoding Format | MPEG-2 4:2:0 (ISO/IEC 13818-2 MP@ML)<br>Variable GOP: I, P and B frames processing<br>CBR output |
| Audio Encoding Format | MPEG-1 layer 1/2 (ISO/IEC 11172-3)<br>CD-quality audio processing                                |
| Parameters Preset     | 4 factory-programmed and 4 user-configurable   |

## OUTPUT

|                  |   |
|------------------|---|
| ASI              | 2 x BNC 75 $\Omega$ - DVB-ASI interface |
| System Bit Rate  | Up to 27Mbit/s                          |
| System Interface | ISO/IEC 13818-1 MPEG-2                  |

## GENERAL

|                            |   |
|----------------------------|---|
| Physical                   | Rack 19"-1U - 4kg                             |
| Remote Control Port        | RS232 / RS485                                 |
| Remote Control Option      | PSTN-GSM-Ethernet with external RCU equipment |
| Front Panel User Interface | LCD Display + Keyboard + Status LEDs          |
| Power Supply Voltage       | 90 - 250V <sub>ac</sub>                       |
| Operating Temperature      | 0 - 45°C                                      |

*These specifications are subject to change without notice*



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