



CODICO® E-90 Professional MPEG-2 Encoder

General:

The E-90 is a professional, high quality real time MPEG-2 encoder designed to meet the demanding requirements of cable distribution.

The E-90 is ATSC/DVB compliant and supports a rich variety of output interfaces. It is housed in an industrial compact 19" one rack mountable enclosure.

Scopus' decades of experience developing state of the art video compression technologies enable the E-90 to provide high video quality at low bit rates.

Applications:

- Migration to digital
- Encoding of local channels
- MMDS/Cable
- Private Networks

Features and Options:

- IP output
- Dolby Digital (AC-3) 2.0 Encoding
- VBI Support
- Cue Tone Insertion (SCTE-35)
- Cascading
- Linear PCM or Dolby-E Pass-Through
- -48V Power Supply (optional)
- Variable GOP
- Low Power Consumption

1 RU

4:2:0 Encoding profile

Cascading

MPEG-2, DVB/ATSC compliance

Full D1 resolution

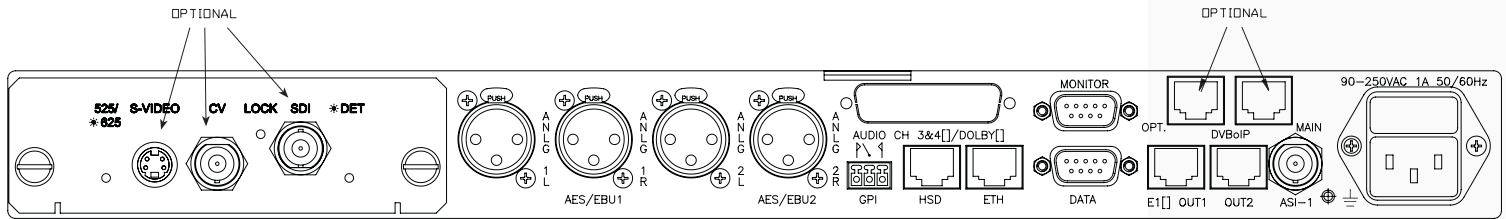
Proven interoperability

Cue tone insertion (SCTE-35)

Telco DS3 Interface Option

IP output

Dolby Digital (AC-3) 2.0
Encoding



Inputs

Video

- Video formats: NTSC/PAL
- Digital Input: SDI (optional)
- Analog Inputs: Composite, Super VHS
- A/D resolution: 10-bit

Video resolution

- Vertical: PAL-576, 288; NTSC- 480, 240
- Horizontal: 720, 704, 640, 528, 544, 480, 368, 352
- Aspect Ratio: 16:9, 4:3

VBI processing (over Analog)

- CC, WSS, VITC, VPS
- Teletext (WST)

Audio

- Up to 2 Stereo channels (4 Mono): Analog, AES/EBU, Embedded
- Encoding Rate: up to 384 Kbps
- Sampling Rates: 32K, 44.1K, 48K
- Dolby Digital (AC-3) Pass-Through (optional)
- Linear PCM or Dolby-E Pass-Through (optional)

Data

- Asynchronous RS-232: up to 115Kbaud

Processing

Video encoding formats

- MPEG-2 4:2:0MP@ML
- Variable GOP: I, P and B Frames processing
- Built-in multiplexer for encoder cascading
- Cue Tone detection - comply with SCTE-35 (optional)
- Multi channel cascading (optional)

Audio encoding formats

- MPEG I layer II, CD Quality
- DVB compliance
- ATSC - statistic PSIP table
- Dolby Digital (AC-3) 2.0 Encoding (optional)

Output

- DVB interface: 2 x ASI
- Electrical interface: 2 x RS-422
- Video Rate: 1-8Mbps
- Clock Source: Internal/External

DVB-PDH (optional)

- Interface: ATM; AAL-1
- Data rates: DS3, E3 (Leased-Line)

IP output (option)

- 10/100 BaseT
- UDP/RTP
- Up to 34 Mbps

Control and Monitoring

Local

- 6 button keys and 24 character LCD
- 10 Pre-programmed Setups
- Configurable Hot alarm relay (GPI)

Remote

- SNMP
- RS-232

SW upgrade

- Compact Flash Disk
- RS-232
- Ethernet (TCP/IP)
- NMS

Physical and Power

Dimensions

- 1RU (19" rack)
- 4.4 x 48.3 x 53cm
- 1.75" x 19" x 21"
- Weight: 4.5Kg / 9Lbs

Power

- Voltage 100-260V
- -48V DC (optional)
- Power consumption: 100W Max

Environment

Temperature

- Operating 0-50 °C
- Storage : -40-70 °C

Humidity: 85% non-condensing

Vibration and shock: in accordance with MIL-STD-810D

Compliance

- CE marked in accordance with EN 50082-1and EN 55022, Class B, FCC

Safety

- in accordance with EN 60950

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