

BDX-E1000

MPEG Encoder Unit

- Fully compliant with MPEG2 MP@ML and 4:2:2P@ML (option)
- MPEG2 MP@ML with bit rates from 1.5 to 15Mbps
- MPEG2 4:2:2P@ML (option) with bit rates from 3.0 to 50Mbps (All I: 10 to 50Mbps)
- Low-delay mode (less than 7 frames, encoder input to decoder output)
- Scrambler support within the encoder in option
- MPEG1 audio compression
- Linear PCM audio mode
- Video inputs include Component/Composite SDI and Analog
- Audio inputs include SDI-embedded, AES/EBU, and Analog
- Encodes VBI information such as VITC and Tele-Text
- Transport stream output is DVB-ASI and DVB Parallel, and SDTI (TS)
- Data/control interface via Ethernet (10Base-T) and RS-232C
- Internal monitor decoder for local operation monitoring

Accessories Supplied: Operation manual (1)
Installation manual (1)
Rack mount metals (2)

Optional function Boards:
BDKP-E1002, Audio Input Board (for 5-8th AES/EBU channels)
BDKP-E1003, 4:2:2Profile Upgrade Board
BDKP-E1004, Scrambler Board (for DVB Common)
BDKP-E1005, Scrambler Board (for DES)

Specifications:

Analog Video Input

Formats: 525/60 or 625/50 (Component), NTSC or PAL (Composite)

Inputs: Composite: BNC (1), 75 Ω loop through
Component: BNC (3), 75 Ω

Reference video: VS or VBS (BNC (1), 75 Ω, loop through)

Signal to noise ratio: > 56 dB (Composite and component)

Digital Video Input

Formats: 525/60 or 625/50 (D1-Component), NTSC or PAL (D2-Composite)

Inputs: SDI (D1/D2 switchable): BNC (1), 75 Ω active through

Video Encoding

MPEG2 MP@ML (standard)

Bit-rate: 1.5-15 Mbps

Resolution(525/60): 720×480, 544×480, 480×480, 352×480, 352×240

Resolution(625/50): 720×576, 544×576, 480×576, 352×576, 352×288

MPEG2 4:2:2P@ML (with BDKP-E1003)

Bit-rate: 3.0-50 Mbps (All I mode: 10-50 Mbps)

Resolution(525/60): 720×512, 720×480, 544×480, 480×480, 352×480, 352×240

Resolution(625/50): 720×608, 720×576, 544×576, 480×576, 352×576, 352×288

Frame rate: 29.97, 25 Hz.

VBI: VITC/UB, Tele-Text

Analog Audio Input

Number of channels: 4

Inputs: XLR (4), 10k or 600 Ω

Level: +4 dBu (+24 dBu max), 3/ 0/ +4 dBu switchable

Time code input: LTC(XLR x 1)

Digital Audio Input

Number of channels: 4 (Expandable to 8 with BDKP-E1002)

External AES/EBU inputs: BNC (4), 75 Ω

Embedded AES/EBU input: SDI Input

Audio Encoding

Sampling frequencies: 32, 44.1, & 48kHz.

Bit rates, MPEG Layer I: 32, 64, 96, 128, 160, 192, 224, 256, 288, 320, 352, 384, 416, & 448 kbps

Bit rates, MPEG Layer II: 32, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320, & 384 kbps

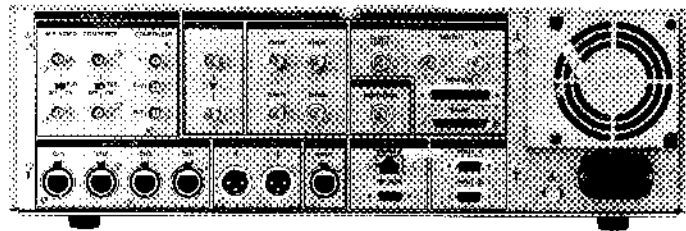
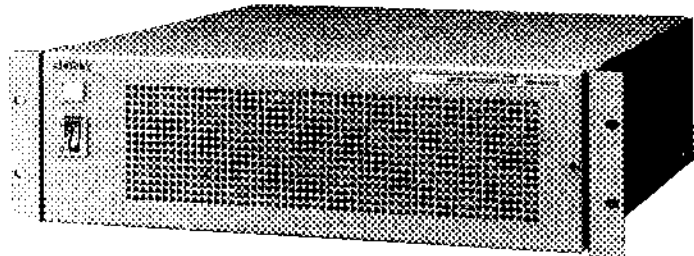
Linear PCM audio: Yes (with BDX-D1000)

Output

Transport stream: DVB-ASI/SDTI (TS) (BNC (1), switchable),
DVB-parallel (D-sub 25-pin)

Clock input: BNC (1)

Monitor: SDI(video, BNC × 1) and analog audio (XLR (2), L&R)



Control I/F

Maintenance port: Ethernet (10base-T), RS-232C
ISR

General

Dimensions (W/H/D): 482 × 132 × 424 mm
(Approx.) (19 × 5 1/4 × 16 3/4 inches)

Mass (Approx.): 14.5 kg (31 lb 15 oz)

Operating temperature: 5°C to 40°C (41°F to 104°F)

Power requirements: 120/240 V

Power consumption: Max.130 W