



CODICO® E-1200 TriplePass™ MPEG-2 Encoder

General

Scopus advanced encoder, CODICO® E-1200, is a professional high quality encoder that applies state-of-the-art video compression quality, efficient bit-rate optimization and buffering control. The E-1200 model P, with enhanced preprocessing in CBR mode, provides superb picture quality for low bit rate application. A unique pre-processing mechanism, based on Preceptive View™, utilizes human visual perception threshold and allows superb image quality at low bit-rate.

The E-1200 is part of Scopus statistical multiplexing system supporting Scopus TriplePass™ - a three step parallel approach, securing best encoding and multiplexing mechanism in a multi-encoder environment.

TriplePass™ is based on pre-processing, compression complexity and statistical multiplexing.

Applications

- Satellite Contribution / Distribution
- Cable TV Headends
- Telco networks
- Direct Broadcast Satellite

Features and Options

- Advanced statistical multiplexing capability
- Advanced pre-processing
- SNMP management (optional)
- Redundancy support
- IP output (optional)
- -48v power supply (optional)
- Teletext and VBI Support, Analog and over SDI (optional)
- Dolby Digital (AC-3) 2.0 Encoding (optional)

1 RU

4:2:2/4:2:0 Encoding profile

TriplePass™ - based look-ahead mechanism

Supports Statistical Multiplexing

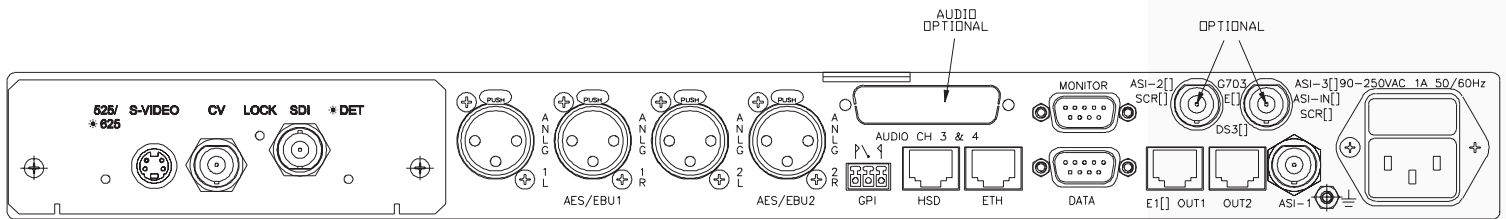
MPEG-2, DVB/ATSC compliance

Enhanced preprocessing

Proven interoperability

Dolby Digital (AC-3) 2.0 Encoding

Cue tone insertion (SCTE-35)



Inputs	Video	<ul style="list-style-type: none"> • Video formats: NTSC/PAL • Digital Input: SDI (optional) • Analog Inputs: Composite, S-Video • A/D resolution: 10-bit 	Audio	<ul style="list-style-type: none"> • Up to 2 Stereo channels (4 Mono): Analog, AES/EBU, Embedded • Option for 4 stereo (8 Mono) • Audio mode: Stereo, joint stereo, single channel, dual channel • Encoding Rate: up to 192 Kbps • Sampling Rates: 32K, 44.1K, 48K
	Video resolution	<ul style="list-style-type: none"> • Vertical: PAL-576, 288; NTSC- 480, 240 • Horizontal: 720, 704, 640, 544, 528, 480, 368, 352 • Aspect Ratio: 16:9, 4:3 	Data	<ul style="list-style-type: none"> • Synchronous RS-422: up to 20 Mbps
Pre-Processing	VBI processing	<ul style="list-style-type: none"> • Teletext (WST) • CC, WSS, VITC (Internal), VPS, SMC 	Enhanced CBR pre-processing (optional)	<ul style="list-style-type: none"> • Dynamic Rate Reduction
	Processing	<ul style="list-style-type: none"> • Analog TBC, Frame Synchronizer • Automatic frame re-sizing 	Video encoding formats	<ul style="list-style-type: none"> • MPEG-2 4:2:2@MP@ML • MPEG 4:2:2 MP@ML (option for CBR only) • Variable GOP: I, P and B Frames processing
Output	Statistical Multiplexing mode	<ul style="list-style-type: none"> • TriplePass™ - based on look-ahead mechanism • Enhanced Complexity Estimation - up to 60 frames • Cue tone detection — comply with SCTE 35 • ATSC - static PSIP tables 	Audio encoding format	<ul style="list-style-type: none"> • MPEG I layer II, CD Quality • Dolby Digital (AC-3) 2.0 Encoding (optional) • Cue tone Compliance with SCTE 35
	Control and Monitoring	<ul style="list-style-type: none"> • DVB interface: 2 x ASI • Electrical interface: 2 x RS-422 • Output Rate: 0.25-52Mbps 	IP Output (CBR only)	<ul style="list-style-type: none"> • 10/100 BaseT • UDP/RTP • Up to 34 Mbps
Physical and Power	Local	<ul style="list-style-type: none"> • 6 button keys and 24 character LCD 	SW upgrade	<ul style="list-style-type: none"> • Compact Flash Disk • Ethernet (TCP/IP)
	Remote	<ul style="list-style-type: none"> • Ethernet (TCP/IP) • SNMP Agent 	Power	<ul style="list-style-type: none"> • Voltage 90-260V • -48V DC (optional) • Power consumption: 150W Max
Environment	Dimensions	<ul style="list-style-type: none"> • 1RU (19" rack) • 4.4 x 48.3 x 53cm (1.75" x 19" x 21") • Weight: 4.5Kg / 9Lbs 	Humidity: 85% non-condensing	
	Temperature	<ul style="list-style-type: none"> • Operating 0-50 °C • Storage: -40-70 °C 	Vibration and shock: in accordance with MIL-STD-810D	
Compliance	CE marked in accordance with EN 50082-1and EN 55022, Class B, FCC		Safety	<ul style="list-style-type: none"> • In accordance with EN 60950

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