



BROADCAST ENCODER

MPE-4001

MPEG2 & h.264 AVC Broadcast Encoder

H.264/AVC

MPEG-2

HDMI

HD-SDI

ASI

IP / Ethernet

Model designation as per manufacturer reference

Overview

The VIZOBOX MPE-4001 is a professional broadcast-grade video encoder that converts HDMI/SDI sources into IP and transport streams for reliable, low-latency live distribution to any network.

Key Features & Applications

- ✓ MPEG-2 HD/SD and MPEG-4 AVC/H.264 HD/SD video encoding and therefore flexible
- ✓ ASI output and IP over UDP and RTP output (SDI, CVBS, YPbPr and
- ✓ MPEG1 Layer II, HE-AAC (v1&v2), LC-AAC and DD AC3 audio encoding interfaces (AES, BNC and
- ✓ DD AC3 pass-through (for SDI and HDMI in) with different signal
- ✓ Video buffer, selectable Video sources (all video interfaces available Multiple audio and video
- ✓ Support TT/CC (closed caption-US norm), EIA 608 and EIA 708 (for available to meet your
- ✓ Dual parallel ASI output and IP over UDP and RTP requirements.
- ✓ AD-Insertion: QR code, LOGO, OSD-text be embedded to the TS
- ✓ 1080i, 720P, 480i, 576i video resolution and downscaling Video input interfaces
- ✓ Low latency mode HDMI) and Audio input
- ✓ Dolby Digital AC3 audio pass through (for SDI in)
- ✓ 2 stereo or 4 mono audio encoding sources.
- ✓ in parallel Inputs) seamless switch video sources
- ✓ CVBS and SDI in)
- ✓ LCD / Keypad control and Web based management by RJ45 Ethernet 2 stereo (4 mono) or one

Technical Specifications

Technical Data:	
Interface	1×SDI, 1×YPbPr and 1×HDMI, 1×CVBS (for CC/TT)
Input	Output · Interfaces
1920×1080p@60/59.94	1920×1080p@60 HDMI, SDI
1920×1080p@50	1920×1080p@50
1920×1080i@60/59.94	1920×1080i @60 Resolution
1920×1080i@50	1920×1080i@50 HDMI, SDI, YPbPr
1280×720p@60/59.94	1280×720p@60 Video
1280×720p@50	1280×720p@50
720×576i@50	720×576i@50 SDI, HDMI
720×480i@60	720×480i@60
Encoding	MPEG-2 HD/SD; MPEG-4 AVC/H.264 HD/SD · Bitrate Range · 2.5 – 19.00 Mbps
Rate Control	CBR/VBR (Encoding) · GOP Structure · IP, IBBP, IBBBP
Aspect Ratio	4:3, 14:9 (for SD video), 16:9 (for HD video) · Chroma · 4:2:0 Advanced

Pretreatment	De-interlacing, noise reduction, sharpening
Interface	2x2×XLR, 2×AES, 2×2 BNC, 1×SDI (support maximum 2 stereos synchronous processing), 1×HDMI
Encoding	MPEG-1 Layer II, HE-AAC (v1&v2), LC-AAC, DD AC3 (2.0), DD AC3 pass-through (for SDI and HDMI in) Audio
Sampling rate	48KHz · Resolution · 24-bit
Bit-rate	32Kbps...384Kbps
Low Latency options	150ms, 200ms, 350ms, 650ms depending on Resolution and S-Rates
Stream output	1×ASI output ports, BNC interface 2 IP (MPTS) over UDP / RTP /RTSP, 2x GbE with independent IP addresses (multicast/unicast)
System function	LCD/Keypad and web management, Language: English, Ethernet based software updates
Dimensions	482mm × 405mm × 44.5mm (W × D × H)
Weight	Approx. 4.0 Kg
General Temperature	0...45°C(Operation), -20...8°C(Storage)
Power	AC110V ±10%, 50/60Hz; AC 220V ±10% , 50/60Hz
Consumption	21W



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Model designation follows the manufacturer reference. Specifications are indicative, may vary by configuration and are subject to change without notice. © 2026 Vizobox Development GmbH. All rights reserved.