



HEAD-END ENCODER-STREAMER

EMU-8500

Stream output

- H.265/HEVC
- H.264/AVC
- MPEG-2
- HDMI
- ASI
- IP / Ethernet
- DVB-C
- QAM

Model designation as per manufacturer reference

Overview

The VIZOBOX EMU-8500 is a high-density head-end encoder-streamer, converting multiple HDMI/SDI inputs into IP (SPTS/MPTS) and ASI streams for scalable IPTV and CATV head-ends.

Key Features & Applications

- ✓ 8 HDMI* input, 8 SPTS IPTV and 1 MPTS output (EMU 8508)
- ✓ 16 HDMI* input, 16 SPTS IPTV and 1 MPTS output (EMU 8516)
MPEG4 AVC/H.264 HD IP
- ✓ 1 ASI output (optional) (Copy of the MPTS) HD audio & video
- ✓ Accurate PCR adjusting
- ✓ PSI/SI rebuilding and editing interfaces, supporting
- ✓ Remote control by a modern Web based management
- ✓ 12 HDMI* input, 12 SPTS IPTV and 1 MPTS output (EMU 8512)
- ✓ 24 HDMI* input, 24 SPTS IPTV and 1 MPTS output (EMU 8524)
Encoder is a professional
- ✓ On-Screen Graphics, Scrolling Text, QR Code insertion
- ✓ PID filtering and re-mapping compatible Video input
- ✓ "Null PKT Filter" function MPEG-4 Video encoding
- ✓ Updates via Web-interface This very compact

Technical Specifications

Input	8 / 12/ 16 / 24 HDMI compatible inputs 1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, input 1280×720_60P, 1280×720_50P,
Resolution	720×576_50i,720×480_60i, 1920×1080_30P, 1920×1080_25P,
output	1280×720_30P, 1280×720_25P,
Video	720×576_25P,720×480_30P,
Encoding	MPEG-4 AVC/H.264 or h.265 HEVC
Bitrate	1Mbps...13Mbps each channel
Encoding Rate Control	CBR/VBR
GOP Structure	IP...P (P Frame adjustment, without B Frame)
Encoding	MPEG-1 Layer 2, LC-AAC, HE-AAC and AC3 Pass through
Sampling rate	48KHz
Resolution	24-bit
Audio	Audio Gain adjustable · 0...255
HE-AAC Bitrate	48/56/64/80/96/112/128 kbps
LC-AAC Bitrate	48/56/64/80/96/112/128/160/192/224/256/320/384 kbps
MPEG-1 Layer 2 Bitrate	48/56/64/80/96/112/128/160/192/224/256/320/384 kbps Maximum PID 180 input per channel Remapping
Multiplexing	PID remapping (automatically or manually)
Function	PCR adjusting Generation of PSI/SI table automatically 8 SPTS (8/12/16/24 SPTS) IP and 1MPTS output over UDP/RTP,

Stream output	1x 1000Base-T Ethernet interface ASI output (optional) as copy of the multiplexed MPTS Network management (WEB-IF) System English language menu function Firmware upgrade by Web-Browser
Dimension(W×L×H)	482mm×410mm×44mm *
Approx weight	8kg *
Miscellaneous	Environmental cond. · 0...45°C (work); -20...80°C (Storage)
Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz
Power consumption	70W * *) depending on Model Corresponding products: - IP to 16 QAM DVB-C Modulator HDC-5016 - HDC-5004 IP to QAM Modulator with remuxed TV services i.e. for hospitality content addons to existing networks - Digital Signage: IP Decoder HDD-275 - IPTV Middleware Server OMNISCREENTV + SetTopBoxes or Hospitality TV Sets from tested vendors - VIZOBOXIPTV STB: 6800+ - OmniscreenTV STB M15 (h.264/MPEG2, FullHD, Multicast UDP only)



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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.