

ENC-300-DVI-Portable



COMPACT MPEG-4 AVC H.264 SD/HD ENCODER

The ENC-300-DVI-Portable encoder is designed for LIVE streaming applications where single computer based DVI signals or HDMI signals are distributed or published on a network or the internet. The ENC-300-DVI mainly targets medical, military, control room and training applications where high resolution DVI/HDMI signals from medical instruments and cameras, radar devices, monitoring displays, or any kind of PC desktop views - need to be shared, published and distributed. It processes inputs from D1 up to Full-HD resolution for professional MPEG-4 AVC H.264 SD/HD streaming to any kind of device. ENC-300-DVI-Portable encoders are built for robust 24/7 LIVE operations and can be used in tough environmental conditions. They are designed without any moving parts, making them disk-, fan- and noiseless.

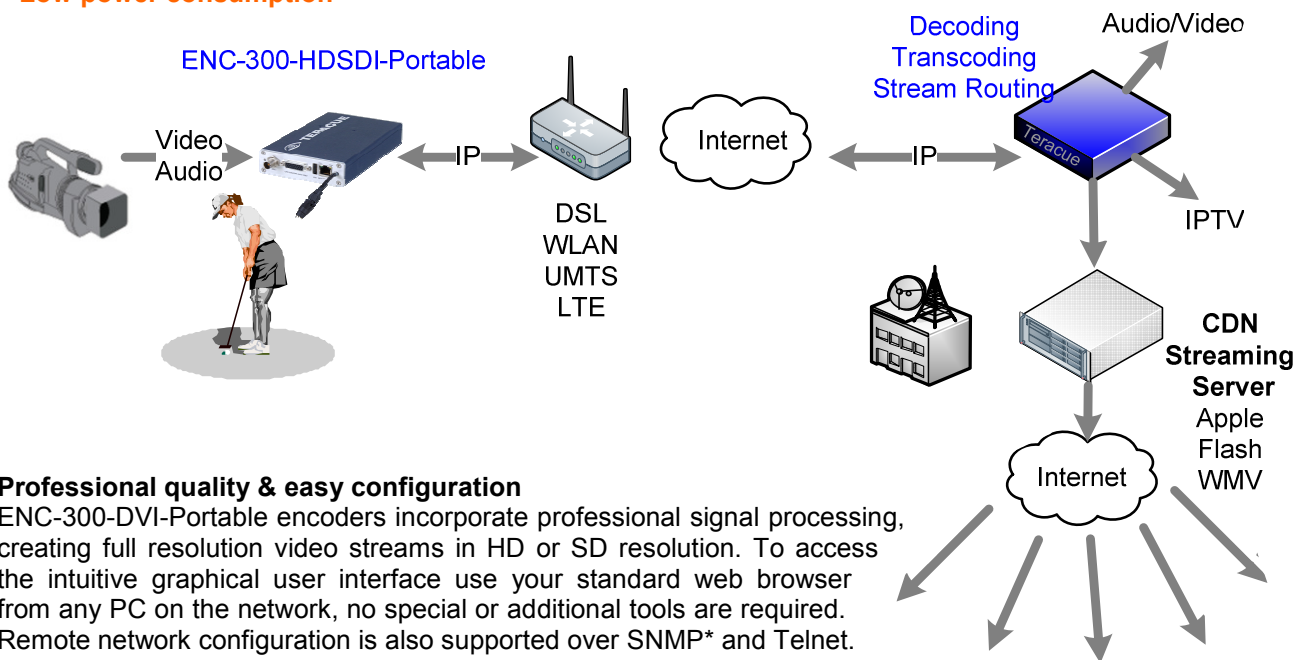


Unique Features:

- Real-time encoding of DVI and HDMI signals (with embedded audio)
- Supports HDMI loop through
- DVI Resolutions are supported
- Resolution: up to 1920x1200 60Hz
- Adjustable framerate* (e.g. 5 fps)
- Scaling* supported
- Low-latency compression technology
- IPTV streams fully ISO/IEC compliant
- Low power consumption

Main Features:

- Robust HD encoding solution for 24/7 streaming
- Transmission of multicast / unicast streams
- Supports H.264 SD/HD
- Supports AAC-LC
- Supports UDP and RTP* transport streaming (TS)
- Supports SNMP*
- Talkback for audio conferencing*
- Configuration by web interface



Professional quality & easy configuration

ENC-300-DVI-Portable encoders incorporate professional signal processing, creating full resolution video streams in HD or SD resolution. To access the intuitive graphical user interface use your standard web browser from any PC on the network, no special or additional tools are required. Remote network configuration is also supported over SNMP* and Telnet.

TALKBACK* audio conferencing

The ENC-300-DVI-Portable supports TALKBACK*. This allows audio conferencing and communication between encoder standpoint and viewer. TALKBACK to ENC encoders is supported by PC's, as well as from the DEC decoder series.

Extremely robust and durable

The portable encoders are designed without any moving parts to ensure system uptime, reliability and noiseless operation. The light weight and compact design allows an extended temperature environment. The low power consumption supports longer battery operation.

ENC-300-DVI



PRODUCT NAME: ENC-300-DVI-portable
MPEG-4 AVC H.264 DVI encoder blade with DVI/HDMI input (with embedded audio).
BELT-HOLDER - optional belt holder for the ENC-300-Portable

ENCODING SPECIFICATION:

DVI/HDMI Inputs: 1x HDMI 1.3 Typ A, RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2; 1x HDMI loop through (without HDCP)
DVI supported via HDMI interface

Video Encoding: H.264 (MPEG-4 AVC Part 10; ISO/IEC 14496-10)

Video Encoding Bitrates: 250Kb/s – 10Mb/s, CBR/VBR, low latency support

DVI Resolutions: 1920x1200, 1600x1200, 1280x1024, 1024x768, 800x600

Video Resolutions: 1920x1080p 30/29.97/25Hz, 1920x1080i 60/59.94/50Hz, 1280x720p 60/59.94/5030/29.97/25Hz,
720x480/576i 60/59.94/50Hz
Frame rates can be reduced with the adjustable frame rate divider.

Audio Inputs: 1x Stereo*, unbalanced, AC-coupled, Mini-Jack 3.5
Audio nominal level: -10 dBV (0.316Vrms), Maximum level: 2 V_{P-P}
Microphone nominal level: -60 dBV (1mVrms), Gain Control for microphone and line input
Minimum load resistance 20kΩ
HDMI embedded Audio

Audio Encoding: MPEG-4 AAC LC (ISO/IEC 14496-3)

Supported Sample Rates: 48 kHz, 16Bit Sample Rate, 16-576 kbit data rate

Audio Outputs (TALKBACK)*: 1x Stereo, unbalanced, AC-coupled, via multipoint socket connector
Output gain adjustment* from (off) -78 dB to +9 dB
Talkback*: 16 bit stereo, PCM, Sample Rate 48kHz

Multiplex Format: ISO/IEC 13818-1 Transport
ISO/IEC 14496-10 NAL (Network Abstraction Layer)
Stream Types: Transport Stream and Elementary Audio/Video* Stream

I/O SPECIFICATION:

Network: 10/100TX Ethernet, RJ45, half/full duplex, Auto-sensing or manual control

Streaming Traffic: Unicast and Multicast traffic supported

IP Protocols: HTTP, TCP/IP Control Protocol, UDP/IP Streaming, RTP*, IGMPv2, SAPv2*, Unicast/Multicast, SNMPv2*, DHCP

USB*: 1x USB 2.0 (Blade Connector), High Speed, Type A socket
1x USB 2.0 (on board Connector), High Speed, Type A socket

MANAGEMENT:

Software updates via web browser,
Fault measurement with log file generation*, authorization via user password, RTC (Real Time Clock) support

ENVIRONMENTAL:

Agency Approvals: CE, RoHS, EN 55103-1, EN 55103-2, EN 55022

Humidity: Up to 90%, non-condensing

Temperature: -25 to +45°C environment temperature

Weight: Approx. 650 grams

Blade dimensions (H/W/D): 28mm x 105mm x 180mm

Power: 5Vdc ±5% / 8W per blade

Limited Warranty: 1 year standard limited warranty. Warranty extensions available.

***PLEASE NOTE: Live Streaming/Multicast Streaming requires specially designed and configured networks. Minimum Requirements include: Layer-3 Switched Ethernet, Multicast Enabled, IGMPv2/3, Network and Multicast Routing Supported.

* = Will be supported in future firmware versions.

** = On request

