

Odyssey 1HDe5 1 Channel H.264 Network Video Encoder

Key Features

- ▶ 1080i60 Blu-Ray Quality Video Over Any IP Network
- ▶ H.264 High Profile (L4.1) Video Compression
- ▶ Compatible with Virtually All Video Interfaces
- ▶ Small, Rugged Enclosure, Low Power Consumption
- ▶ 24/7 Reliability with No Moving Parts
- ▶ Gigabit Ethernet, PoE & USB 2.0 Connectivity
- ▶ Built-in Web Server with Advanced WebUI
- ▶ Auto Discover, Auto Config., Distributed C³
- ▶ Designed & Manufactured in California, USA



The Odyssey Family of Codecs

Odyssey 1HDe5 is a member of Teradek's complete line of the world's most advanced H.264 network video codecs. The Odyssey line includes three encoders and two companion codecs. The Odyssey line is unique in its ability to encode virtually every video input and resolution in the world today. Odyssey's 1080p60 HD video broadcast over IP provides startling clarity and resolution, with extremely low latency network bandwidth and low latency.

Industrial Strength and Mission Critical

Odyssey is extremely rugged, and features an aluminum case with a small footprint, no moving parts inside and an embedded operating system designed for mission critical reliability. Odyssey is extremely energy efficient. Odyssey's hardware compression provides the highest performance at lowest power consumption. Odyssey can utilize both power over ethernet (PoE) or DC via an input jack, with redundant power sources to further increase reliability. Installation and operation are simple and intuitive.

Built-in Web Server and Feature Rich Web User Interface

Odyssey features gigabit ethernet and includes an advanced built-in web server that automatically discovers and pairs with other Teradek devices independent of network infrastructure greatly simplifying installation and use. Odyssey's WebUI is simple yet sophisticated allowing the user to easily configure the unit, name video streams, watch live or recorded video, and much more.

Advanced Monitoring Via Composite Video Output

Odyssey features a composite video output for displaying video. Odyssey can display the local video input or remotely captured video in a single screen.

Applications

- Surveillance
- Law Enforcement
- Defense
- Mobile Applications
- Digital Signage
- Broadcast Distribution
- Point to Point
- Video Conferencing
- Automotive Infotainment
- Education
- Home Theater
- ...and More

The Odyssey Advantage

Odyssey is designed around the world's premier video processor, Maxim's Mobiclygen MG3500 H.264 High Profile Hardware Codec.

Level 4.1 H.264 is an advanced compression algorithm providing a 2:1 reduction in bit rates with equal image quality when compared to MPEG2.



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Technical Specifications

Video

- Input: 1 Channel HD, up to 1080i60/50
- Connector: 5 BNC, RGB HsVs, or YPbPr HsVs
- Monitor Output: 1 Channel 480p60/525p50
- Output Connector: BNC

Audio

- Channels: 1 Stereo or 2 Mono
- Connector: Terminal Block
- Audio Outputs: HDMI & 3.5mm audio jack

Codec

- Compression Algorithm: High Profile H.264 (L4.1), MJPEG
- Compression Rate: 30FPS down to 1FPS
- Resolution: HD (1920 x 1080), Full D1, CIF
- Audio Compression: AAC, MP2

Network

- Ethernet: 10/100/1000 Base-T
- Ethernet Protocols: TCP/IP, UDP, HTTP, DHCP, NTP, RTP, RTSP, SSL
- Advanced built-in web server
- Feature-rich, advanced WebUI
- Bit Rate: 5 Mbps to 20 Mbps

Interfaces

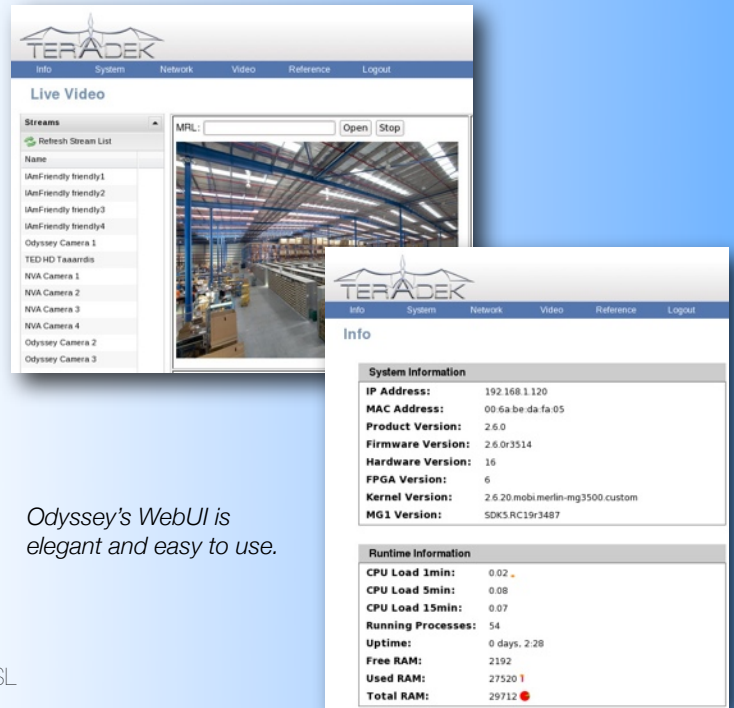
- Point to Point, Multiple Unicast, Multicast
- USB 2.0: 2 Powered
- RS485, RS422, RS232: 1 ea.
- Alarm Inputs: 4
- PTZ & POS Integration
- Wifi/GPS/GSM Connectivity: Contact Teradek for list of tested peripherals.

Environmental

- Temperature: 0 to +50 C
- Humidity: 95% non condensing

Physical

- Dimensions: 6.2"W x 5.7" D x 1.2" H
- Weight: Approx. 1 lb.
- Nominal Power Consumption: 7.5W
- PoE: 802.3af Compliant
- Auxiliary Power Input: 9-40V DC
- EMC Emission: EN 55022, FCC Ch 15 Subpart B
- EMC Immunity: EN 55024



Ordering Information (Available Now)

TED10-1HDe5	1ch HD Encoder : 5 wire Component in RGB+HV
TED10-1HDe3	1ch HD Encoder : 3 wire Component in RGB, Sync on green
TED10-1HDC	1ch HD Codec : 1HDMI in, 1 HDMI out
TED10-4SDe	4ch SD Encoder : 4 Composite SD in, 1 composite SD out
TED10-1SDC	1ch SD Codec : 1 Composite SD in, 1 composite SD out

Specifications preliminary and subject to change. All certifications pending.

