

# EngagePHD™ HD441 Encoder

The EngagePHD™ HD441 H.264 Encoder transforms live video sources into full-screen (or L-Bar), full resolution, Internet Protocol Digital Video, compatible with multicast, webcast and video-on-demand protocols. This high quality H.264 video encoder is suitable for all applications requiring cost-effective, low bit rate, exceptionally low latency, HD or SD video distribution over IP networks.



## Key Features

### Superior Audio/Video Quality

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### Closed Captioning

The HD441 allows Closed Captioning of SD signals using the Composite input. EIA-608 is supported.

### Audio Inputs

A terminal block connector provides audio inputs for Balanced and Unbalanced connections. This allows for easy onsite connections regardless of the cabling outputs of the audio source. There are also two RCA audio connectors (L/R) which support only unbalanced connections, and the HDMI input carries audio as well. The HD441 features user control of audio parameters, including mute, pre-amp and volume.

### Video Inputs

The HD441 includes three BNC connectors for component YPbPr, RGB, or Composite and one HDMI input (DVI-D with optional adaptor cable) for connecting video and audio source equipment

### External Device Connections

The HD441 includes a serial connection via an RJ-45 connector. This connector can be used as an RS-232 port (full-duplex, no hand shaking) or an RS-422 (full-duplex) port. These ports allow the HD441 to interface with external devices such as terminal emulation equipment.

### Management & Configuration

The HD441 can be managed and configured via a console menu, a web interface or via the EngagePHD™ cloud based web application from anywhere in the world, meaning you do not have to physically connected to the LAN to make changes to your encoding profile. A discreet Microsoft Windows client will need to sit on the LAN to facilitate remote settings management.



## Specifications

### Input/Output

- Component YPbPr or
- RGB Composite
- 3 x BNC connectors
- RCA supported via adaptors
- HDMI or DVI-D with opt. adaptor cable
- Terminal block audio connector for Balanced and Un-Balanced Stereo
- RCA Stereo Audio
- RJ-45 Ethernet 10/100
- RJ-45 Serial RS-232C or RS-422

### HD Video Encoding

- H.264 MPEG-4 AVC Compression
- High Profile at level 4 (HP@L4)
- 5Mbps to 20Mbps
- IGMP v1, v2, v3

### SD Video Encoding

- H.264 MPEG-4 AVC Compression
- Main Profile at Level 3 (MP@L3)
- 2Mbps to 10Mbps
- IGMP v1, v2, v3

### Closed Captioning (CC)

- Composite (SD) – EIA-608 only

### Video Resolutions

- 1080p 60
- 1080p 24
- 1080i 59.94/60
- 1080i 50
- 720p 59.94/60
- 720p 50
- 576i 50
- 480i 59.94

### Weight

- 230g or .51 lb. (approximate)

### Audio Encoding

- MPEG-1 Layer II stereo
- 64kbps to 384kbps
- MPEG-2 AAC stereo
- 128kbps to 512kbps (average bitrate)

### Dimensions

- W: 40 x D: 131 x H: 175 (1.6" x 5.2" x 6.9")

### Power Input

- DC Input 4.25 Watts

### Environmental

- Operating Temperature -10°C to 50°C (14°F to 122°F)

### Compliance

- CE, UL Listed I.T.E E257717
- EMC: FCC Part 15 Class A or B [MPP200] Class B, EN55022 [MPP1700] Class A, EN55022 EN61000-3-2, EN61000-3-3, EN55024
- SAFETY: EN60950-1

