

The Drake HDE24 high-definition encoder module generates an MPEG2 or MPEG4 (H.264) video stream, with Dolby® AC-3 or MPEG1 layer 2 audio. This module is designed to be installed into Drake's EH24 or MEQ1000-style chassis which provides the control and output interface to the unit. This configuration of encoder module and host chassis provides the ultimate in bandwidth management and economy by allowing multiple HD and SD streams to be multiplexed together dependent upon the limitations of the bandwidth of the chosen output: QAM and/or ASI (see EH24 and MEQ1000 manuals for more information on multiplexing). The HDE24 high-definition encoder accepts non-encrypted HDMI or component video inputs and can inject closed-captioning data from a synchronized composite video source (typically provided by the same decoder that produces the HD video stream). Composite analog audio inputs provide the audio source when component video inputs are used. Typically HDMI has embedded audio but if the HDMI is derived from a source converter that does not provide audio, such as DVI-to-HDMI, then the analog composite inputs may be used.



Applications

- Hospitality
- Health Care
- Commercial
- Government/Military
- Digital Signage
- Cable Networks

Benefits

- High quality low cost High Definition real time encoding in MPEG2 or MPEG4 H.264 with Dolby® AC-3 audio
- Module/chassis design allows multiplexing of multiple streams and saves rack space



HDE24 HIGH DEFINITION MPEG ENCODER MODULE

SPECIFICATIONS

Video Inputs

HDMI
 Component
 Composite
 Closed Caption Input Format

HDMI input (does not support HDCP/Copy protection)
 1x HD Component (YCrCb) video input
 1x 1V p-p +/- 3dB, 480i only
 1x 1V p-p +/- 3dB 480i composite video input
 (used for Closed Captioning data extraction during HD encoding)

Audio Inputs

RCA type L + R

 HDMI embedded audio

1x 1Vrms nominal, 3.5Vrms max
 supports +/- 15dB gain adjustment
 Supports stereo PCM digital audio from HDMI

Video Options

Input Video Modes Supported

 Encoder format
 Video Adjustments
 MPEG4 profile support
 Bitrate

480i (640x480/720x480 @30fps)
 480p (640x480/720x480 @60fps)
 720p (1280x720 @60fps)
 1080i (1920x1080 @30fps)
 Supports auto-scan for input resolution
 MPEG2 or MPEG4 H.264
 Brightness, Contrast, Hue, Saturation, Sharpness
 Simple, Advanced Simple, High
 Up to 19Mbps (depends on input format)

Audio Options

Encoder format
 Output bitrate

Dolby® Digital AC-3 or MPEG1 Layer 2
 320kbps

Manufactured under license from Dolby Laboratories.