



## Envivio Broadcast Series 4Caster HD30

### Real-time MPEG-4 AVC (H.264) HD Encoder

#### Targeting HD broadcast contribution

Envivio® 4Caster™ HD30 is a live high-definition encoding system that produces the highest quality video for broadcast applications. The HD30 encodes both 720p and 1080i HD formats and provides broadcast-quality video in a flexible range of bit rates between 4 and 20 Mbps. The real-time system can simultaneously output compressed streams on IP and DVB-ASI interfaces. With better quality levels than MPEG-2 at less than half the bit rates, the HD30 is ideal for use in broadcast contribution applications.

Comprehensive support for the full range of AVC/H.264 encoding tools ensures the highest picture quality and bandwidth efficiency.

A compact size and rugged construction allow the 4Caster HD30 to reduce the cost of transmission from remote locations that demand HDTV image quality.

Using the optional 4GB internal storage, the 4Caster HD30 can also provide non real-time file transfers across IP networks. Encoded data can be stored in the encoder, then downloaded remotely. Data can therefore be transferred even when network bandwidth is too low to support real-time transmissions.

#### Features

- High-definition MPEG-4 AVC (H.264) real-time encoder supporting 720p and 1080i formats
- DVB-ASI output
- Low-delay mode
- Instant recording capability with offline file exchange for store & forward applications
- Advanced user interface control
- Proven interoperability with professional IRD
- Low-resolution encoding



#### Product Highlights

- Best-of-class broadcast-quality H.264 HP@L4 video encoder/decoder
- Selectable bit rates from 4 Mbps to 20 Mbps
- Low-delay mode: 300 ms over DVB
- Real-time HDTV transmission over DVB and broadband IP networks
- High QoS with robust FEC
- Optional internal storage for non real-time file transfers

#### Applications

- HD Broadcast contribution



## Envivio Broadcast Series 4Caster HD30

### Input

#### Video

HD-SDI  
HDMI

#### Audio

Up to 4 stereo channels  
2 analog balanced (XLR)  
4 stereo HD-SDI embedded

### Output

#### IP Output

2 x Ethernet (10/100/1000 Base-T)

#### Streaming

IP unicast or multicast

#### MPEG-2 transport

MPEG-2 TS over UDP or RTP  
DVB-ASI

### Preprocessing and encoding

#### Video encoding

MPEG-4, H.264 codec with:

- 1920/1440/960 x 1080i and 1280/640 x 720p resolutions
- Low-delay / High-quality modes
- Constant bit rate
- CAVLC/CABAC, B-frames, multiple references

H.264 High Profile Level 4

Data rate: 4 Mbps to 20 Mbps

#### Audio processing

Level adjustment  
Stereo to Mono conversion  
Audio resampling

#### Audio encoding

MPEG-1 Layer2  
MPEG-2 AAC\*  
Dolby pass-through  
Sampling rate: 48 kHz  
Data rate: 128 to 384 kbps

### Advanced features

Low-delay mode  
Store and forward  
ProMPEG FEC\*  
Integrated video recorder  
Presets and advanced configuration  
Closed captioning\*

### Control

#### Local

Front-panel LCD control from basic configuration  
Preprogrammed setups

#### Remote Interface

1x Ethernet (10/100/1000 Base-T)  
Web-based interface for monitoring and control  
Alarm protocol: SNMP

### Physical and Power

#### Dimensions

1RU  
Size: 425 mm (16.73") x 350 mm (13.78") x 42 mm (1.65")  
Weight: 6 kg (13.23 lbs)

#### Power

Power supply: 100-240 VAC auto-ranging, 150 W maximum

#### Agency Certifications:

- FCC Class A
- RoHS 5-compliant
- CE
- WEEE-compliant
- TUV

#### Operating conditions

Operating temperature range: -10°C to 55°C (22 to 127° F)  
Non-operating/storage: -40 to 70°C (-40 to 158° F)  
Relative humidity non-operating: 95% at 30°C (86° F) no-condensing  
Max. acoustic emissions: 56 dB

\* Check availability

### For more information, visit:

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