NCoder HD II™

Easy to Use, Very Low Latency High Definition MPEG-2 4:2:2 and 4:2:0 Transport Stream Encoder with HD-SDI or HDMI In and DVB-ASI and/or IP Out – 1080i, 1080p, and 720p

Features

- MPEG-2 4:2:2 or 4:2:0 video compression: 15 to 100 Mbps
- Input: HD-SDI, HDMI
- Output: **Simultaneous DVB-ASI and IP (UDP or TCP), in one system**
- Low Latency – 100 milliseconds
- Compatible with both PAL and NTSC
- MPEG-1 Layer-II audio encoding
- Accepts 1080i, 1080p, and 720p
- World's first 1080p/60 real time MPEG-2 encoder – encodes 1920 x 1080 @ 59.94 fps
- Supports IP Unicast or Multicast
- Stereo audio bit rates to 384 Kbps
- Audio sampling rates: 32K, 44.1K, and 48K samp/sec
- LCD front panel control
- Web-based management
- Fully compliant with the latest DVB standards
- Boots up in 30 seconds
- We are now shipping an HD decoder with 100 ms delay – DCoder HD™
- Optional recorder function

Applications

- Sports broadcasting
- HD videoconferencing
- Military and law enforcement video surveillance
- Electronic News Gathering

Overview

MPEG-2 is a very complex process that enables digital video to be compressed hundreds of times, using powerful processors that make accurate predictions about motion as scenes unfold in front of a camera.

Standard definition, or resolution, MPEG-2 encoders start with 720 pixels x 480 lines, and High Definition video encoders start with 1920 x 1080 lines digital video. The encoded or compressed output is sometimes at a lower resolution such as 720p, or 1280 x 720 pixels.

Our **NCoder HD II** can encode or compress uncompressed high definition content to either standard, plus others. Our unique difference from the others, however, is our "low latency". This means that we do the compression in less time and thus provide a low latency.

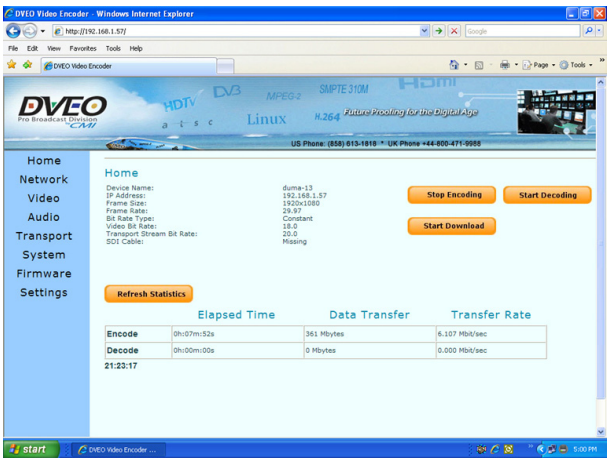
NCoder HD II is targeted at certain organizations that need low latency but still require high definition, such as sports broadcasters, companies doing HD videoconferencing, and the military.

This new product is a front panel controlled appliance that is easy to manage and reconfigure. In fact it can be managed remotely if desired.

A recent customer is using this encoder in a sports arena along with our ATSC modulator in their sky boxes.

DVEO Broadcast Division
11409 West Bernardo Court
San Diego, CA 92127
Tel: 858-613-1818 Fax: 858-613-1815
www.DVEO.com

GUI's For Remote Management (NCoder HD II Also Features Front Panel Controls)

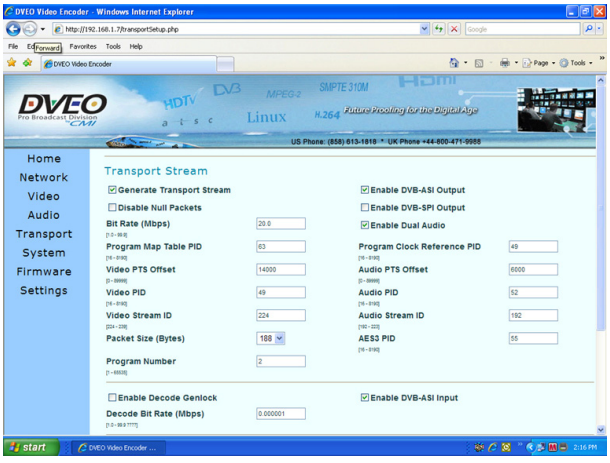


Main GUI

Network Setup

Video Setup

Audio Setup



Transport Stream Setup

Settings

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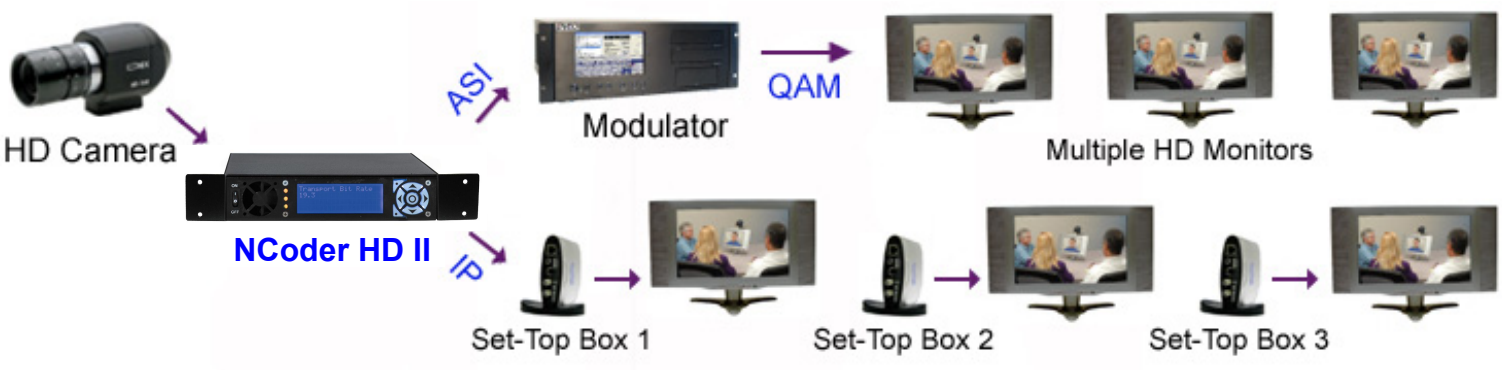
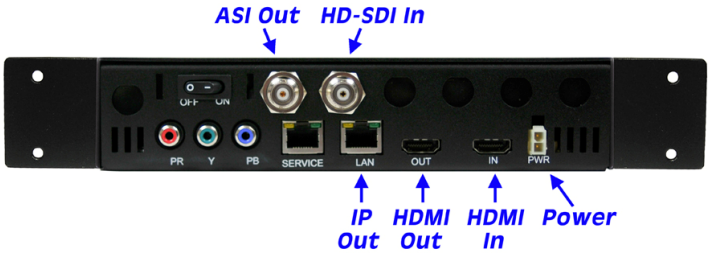
Application Example



Optional Accessories

- Y Pr Pb to HD SDI converter – HD 10 AD
- MVC 101 decoder for previews
- MPEG -2 Clips editor – Software
- AJA 4 Channel Audio to HD-SDI embedder
- ASI to ATSC mux/converter – NN6-1131™

Input/Output



Specifications

Supported Network Interface:

- Two IEEE 802.3 1000/100/10 Base-TX Ethernet interfaces (RJ-45)
- Configuration and Monitoring on either interface

Signal Processing and Capacity:

- MPEG-2 4:2:2 or 4:2:0 video compression: 15 to 100 Mbps
- MPEG-1 Layer-II audio encoding
- Stereo audio bit rates to 384 Kbps
- Audio sampling rates: 32K, 44.1K, & 48K samp/sec
- ISO/IEC-11172-3 Layer-II and ISO/IEC-13818-2 and standards compliant

System:

- Embedded Linux® OS

Mechanical:

- Rack Mount: 1RU
- Dimensions: 12”(W) x 8” (D) x 1.75” (H)
- Dimensions (mm): 305 (W) x 203 (D) x 44.5 (H)
- Unit Weight: TBD
- Operating Temperature: 0 to 70^0 C

Ordering Info

NCoder HD II – ASI, IP out
NCoder HD II REC – ASI, IP out, Recorder to Hard Drive

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