**Overview**

H.264, also called MPEG-4 Part 10, or MPEG-4 AVC, is the next generation codec that is optimized to deliver high quality digital video at significantly lower bit rates. It uses less than 60% of the bandwidth for the same quality.

Generally some appliances only provide uncompressed video. reCoder/IP™ is our new MPEG-4/H.264 encoder for re-encoding analog video into H.264 for use over private IP networks.

The reCoder/IP is not a broadcast encoder, in that it does not support all the features that broadcasters need. It is designed specifically for re-encoding incoming video feeds from devices that provide YPrPb only.

Target devices are inexpensive IP set top boxes such as Amino or Sigma Design based IP STB’s that support H.264 decoding.

The unit supports YPbPr, DVI (via cable), and CVBS input and UDP multicasting output. Audio encoding is AAC.

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**Features**

- **Input:** YprPb, DVI, or CVBS
- **Output:** transport stream over IP (UDP)
- **Compliant with H.264/MPEG-4 AVC standard**
- **AAC audio encoding or Dolby Digital® AC-3 passthrough**
- **Encoding bit rates: 1 Mbps to 12 Mbps**
- **Configure and operate via web-based remote management**
- **Constant Bit Rate (CBR)**
- **Supports unicast or multicast**
- **Tested to work with STB’s (set-top boxes)**
- **Tested to Work with Wowza® and Adobe® Flash® Encoder Software**
- **1 RU with mounting holes**

**Applications**

- **Encoding analog video for transmission over IP**
- **IPTV unicasting or multicasting**
- **Hotels, Restaurants, Resorts**
- **Streaming to designated VideoLAN VLC or similar clients, or to Roku®, Amino™, or other set-top boxes**
- **Reduce MPEG-2 distribution bitrate by up to 60% with no change in picture quality**
Rear View

Sample GUI

Settings Menu

Application Example

Specifications

Inputs

- Video Inputs: DVI – Adapter
- YPbPr (Component) – BNC
- CVBS (Composite) – BNC
- Audio Inputs: AAC or Dolby Digital® AC-3 passthrough
- Connectors: BNC 75 ohm
- Resolutions: 1080i, 720p, 480p, 480i – 59.94 fps

Outputs

- IP Output: UDP (Unicast or Multicast)
- H.264 bit rates: 1 Mb/s to 12 Mb/s
- Network Types: DHCP or Static IP Address
- Connector: RJ45

Video Encoding

- YPbPr or CVBS: MPEG-4/H.264 AVC (Main Profile)
- Data Rate Control: CBR
- Streaming Modes: On Demand, Always On, or Factory Mode
- Latency: 750 milliseconds

Audio Encoding

- Standards: AAC, Dolby Digital® AC-3 passthrough
- Channel Supporting: Stereo, Mono

Control & Monitoring

- Remote: Remote control via RJ-45 connector
- Web-based management software

Physical & Power

- Input Voltage: 120 VAC
- Boot-up Time: 45 seconds
- Dimensions – 1 RU 19 inch rack: 19” (W) x 14” (D) x 1.7” (H) 484 (W) mm x 356 mm (D) x 44 mm
- Weight: 9 lbs. (4 Kg.)
- Operating Temperature: -20°C to +85°C
- Storage Temperature: -65°C to +125°C
- Conformities: UL, CSA, RoHS

Ordering Info

reCoder/IP (Ships with DVI cable)

Warranty: 13 months
Proudly designed, engineered, and manufactured in the USA.

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