

# MGW HD COMPACT

Full-HD H.264

Encoding Appliance



The portable MGW HD Compact H.264 HD and SD encoding and streaming appliance provides unmatched picture quality at optimal bit rates for video monitoring, video confidence, situational awareness, enterprise services and field applications.

MGW HD Compact is a high-performance HD and SD MPEG-4 H.264 encoder in a space-saving compact form-factor. It offers superb video quality, Full HD resolution up to 1080p60, and carrier-grade reliability.

MGW HD Compact encodes content from broadcast sources as well as other digital sources such as computers, video conferencing appliances and satellite/cable set top boxes - up to 1080p60. It is fully interoperable with Optibase FITIS and EZ TV IPTV systems, as well as with standard MPEG-4 software or hardware decoders. The easily deployed appliance offers a user-friendly HTTP web management interface for controlling and monitoring the streaming service.

The cost-effective MGW HD Compact encodes and streams content to a variety of network clients including local users via multicast, streaming servers and remote unicast destinations.

The MGW HD Compact is available in two configurations:

- HDMI + RGBHV
- HD/SD-SDI

## Benefits

- Versatile input options offer connectivity for both consumer and professional equipment
- Best-in-class H.264 SD and HD codecs ensure optimal network performance

## Applications

- Contribution in Full HD
- Encoding and multicasting High-Res HDMI/DVI sources
- Digital signage
- Streaming PC screens over the LAN /WAN
- HD monitoring and surveillance
- Encoding and streaming cable and satellite set-top-boxes with HDMI

## Key Features

- Carrier-grade reliability for on-air applications
- Unmatched HD/SD H.264 video quality in a small form factor
- Encodes broadcast and computer sources up to 1080p60
- Web management interface for monitoring and provisioning
- Automatically activates saved configuration after boot

## Technical Specifications

---

### Video Inputs

- HDMI + RGBHV Specification 1.3
- HD/SD-SDI SMPTE 292M

### Audio Inputs

- Unbalanced stereo RCA
- HDMI Audio (HDMI configuration)
- SPDIF digital audio (HDMI configuration)
- Embedded audio (HD/SD-SDI configuration)

### Resolution Supported

- 525i
- 625i
- 720p 50Hz/59.94Hz/60Hz
- 1080i 50Hz/59.94Hz/60Hz
- 1080p 23.98Hz/24Hz/
- 1080p 50Hz/59.94Hz/60Hz (HDMI configuration)

### Video Encoding

- H.264 (ISO/IEC AVC MPEG-4 part 1014496-10) encoding at constant or variable bitrates
- Main Profile L3 (2Mbps - 10Mbps)
- High Profile L4 (4Mbps - 24Mbps)
- High Profile L4 (6Mbps - 24Mbps)
- High Profile L4.2 (6Mbps - 30Mbps)

### Audio Encoding

- MPEG-1 Layer 2
- Encoding bitrates 48Kbps - 384 Kbps
- AC3 audio pass through

### Network Interfaces

- 1x 10/100 BaseT Ethernet for Streaming
- 1x Serial Connection for Administration

### Streaming Formats

- MPEG-2 transport stream (SPTS) ISO/IEC 13818
- UDP, RTP, Multicast and Unicast
- Channel announcement using SAP

### Network Protocols

UDP, RTP, IGMP, SNMP, HTTP

### Management

- HTTP Web management interface
- Serial admin port

### Power Consumption

10W Typical (15W Max)

### Dimensions

5.25" (W) 11" (D) 1.75" (H)

### Environmental

- Operating Temperatures: 0°C - 40°C
- Relative Humidity: 5% - 95%