

# MGW Micro

## Portable Rugged MPEG-4 AVC Encoder



MGW Micro is an industrial-grade, high-quality MPEG-4 AVC (H.264) encoder designed for the most extreme environments. Optimized for mission critical 24/7 applications, MGW Micro offers real-time, low-latency streaming of live video sources delivered at broadcast quality, full screen picture.

MGW Micro is the smallest, professional grade, rugged MPEG-4 AVC (H.264) encoder available, suitable for mobile installations as well as long-term deployments. MGW Micro includes best-in-class MPEG-4 AVC (H.264) video compression, ensuring excellent image quality and enabling high frame-rates through low bandwidths. Its integrated web interface enables a remote management of parameters on the fly.

With its unique robust construction, and operation temperature range of -40°F to 158°F (-40°C to 70°C), MGW Micro is the ideal solution for tactical video, portable intelligence assets, security and surveillance applications, distance learning, mobile vehicles and TV trucks.

Use MGW Micro with Optibase EZ TV IPTV System and provide an end-to-end IP video delivery solution using your existing IP infrastructure. With the advanced EZ TV Player, local network users and remote users will be able to connect to multiple MGW Micro streams and watch situation awareness video in multi-window mosaic views.

### Benefits

- Ultra small rugged enclosure
- Bandwidth efficiency
- Low latency streaming
- Supports a wide range of resolutions and bit-rates
- Extended Temperature -40°C to 70°C (-40°F to 158°F)

### Applications

- Tactical Video
- Security and Surveillance
- Mobile Vehicles
- Point to Point Video Contribution
- Education and Training
- Monitoring

## Key Features

- Robust design with no moving parts
- Remote management via web interface
- High quality MPEG-4 AVC (H.264) video compression
- Bit-rate, resolution and frame rate control
- Integrated Intelligent alarm functionality
- Masking, text overlay and NTP services

## Technical Specifications

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### Video

**Standards:** H.264 baseline and main profile

**Bit Rate:** 64 Kbps - 2.2 Mbps

**Frame Rate:** 5-30 fps

**Bit Rate Regulation Modes:** Constant / Variable

**Resolutions:** QCIF / CIF / 2CIF / HalfD1 / Full D1

**Low Latency:** Encoding / Decoding < 200ms

### Network

**Streaming Protocols:** UDP, RTP, RTSP, SDP (unicast or multicast mode)

**Supported protocols:** TCP, UDP, HTTP, DHCP, NTP, SAP, SDP

### Alarm

**Triggers:**

Video signal loss, Video Obstruction, Camera Movement, Video Blur, System Failure, Digital Input (40V/100mA), VMD (Video motion detection)

**Resulting Actions:**

Text on screen display, digital output (40V/100mA), LED, user message via TCP command

### System

**Management:** Web based remote management application (HTTP) with remote firmware upgrade capability

### Audio

**Standard:** AAC-LC (mono)

**Bit Rate:** 32 - 64 kbps

**Sampling Rate:** 8 kHz - 48 kHz

### Interfaces

**Video:** 1 x BNC input

**Audio:** 1 x mono input

**Ethernet:** RJ45 10/100 Mbps Base-T

**Serial Links:** 1 x RS232/RS422/RS485

**Power:** Jack connector

### Physical

**Enclosure:** rugged metal case

**Dimensions:** 130 mm x 35 mm x 105 mm (5.12" x 1.38" x 4.13")

**Power Consumption:** 9-12 VDC, max 5W

### Environmental

**Operating Temperatures:** -40°C to 70°C (-40°F to 158°F)

**Relative Humidity:** 5 to 95% (non-condensing)

**EMC Standards:** FCC part 15 class B and CE

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