

# MGW Micro

## Portable Rugged MPEG-4 H.264 Encoder



**MGW Micro is an industrial-grade, MPEG-4 H.264 IP encoder designed for the most extreme environments. Optimized for mission critical ISR applications, MGW Micro offers real-time, low latency streaming of live video sources in a portable, ruggedized airborne-ready foot print.**

MGW Micro is the smallest, professional grade, rugged MPEG-4 H.264 Full Motion Video (FMV) encoder available, optimized for mobile and airborne platforms as well as mission critical deployments. MGW Micro uses advanced MPEG-4 AVC (H.264) video compression, to ensure excellent video stream quality and using low bandwidths. With advanced video processing features such as video masking, metadata insertion, text overlay and boot up time of 2 seconds the Optibase MGW Micro is the optimal solution for UAV's and other ISR applications.

With its unique robust construction and no moving parts, the MGW Micro withstands extremes environmental conditions of -40°F to 158°F (-40°C to 70°C), 5%-95% relative humidity without compromising operation and quality of service. The auto-saved configuration feature allows operator to recover encoding and streaming service immediately after the unit is powered-up.

Use MGW Micro with Optibase EZ TV or FITIS IPTV Systems and provide an end-to-end IP video delivery solution using your existing IP infrastructure. With the advanced Optibase IPTV Player, local and remote network users permitted will be able to access and view MGW Micro streams and watch situational awareness and tactical video in multi-window mosaic views.

### Benefits

- Ultra small form factor, ideal for mobile applications
- Rugged, securable enclosure, optimized for extreme environments
- Suitable for any transport infrastructure Satellite, xDSL, LANs and WANs
- Enables access to situational awareness and tactical video from the edge

### Applications

- Tactical Video / KLV Metadata Insertion
- Intelligence Security and Surveillance (ISR)
- Mobile and Airborne Vehicles
- Point to Point Contribution
- Monitoring

## Key Features

- Superb full motion video MPEG-4 H.264 compression
- Supports a wide range of bit rates, frame rates and resolutions
- Airborne-ready rugged design with no moving parts
- Streams FMV sources in low latency with metadata insertion
- Masking, text overlay and IP tunneling
- Low power consumption of less than 5W
- Withstands extreme temperatures: -40°C to 70°C (-40°F to 158°F)

## 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 30 mm x 105 mm (5.12" x 1.18" 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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