



Two-Way Single-
Channel IP
Video Streaming
Platform

MGW 230



MGW



MGW 230, the latest addition to Optibase's family of IP streaming gateways, is a compact, single-channel encoding, decoding and streaming platform. It is ideal for IP streaming applications such as video contribution, corporate communications and video server upload.

With its small footprint and easy to set up operation, MGW 230 is also designed for live and on-demand IP video streaming in education and training applications and high-end video monitoring solutions.

MGW 230 offers a user-friendly web-based control application for effortless management as well as a front panel display on the chassis that keeps you up to speed with encoding and streaming.

Instantaneous Video Communications

The MGW 230 combines ease-of-use with advanced features and top video quality, providing all you need to set up a stable video over IP streaming solution. For full duplex communications, the MGW 230 is available with a hardware decoder, which allows you to transmit and receive streams simultaneously. This configuration, combined with the MGW 230's low latency feature, allows instantaneous two-way communications and video delivery.

Broadcast Standards

The MGW 230 transmits and receives live video that is transmitted over an IP network. It can encode a single live analog or SDI source in MPEG-2 or MPEG-1 and stream it in real-time over an IP network in multicast or unicast mode. MGW 230 also supports previews of the incoming stream. The MGW 230 supports both the Session Announcement Protocol (SAP) and Session Description Protocol (SDP). This standards-based approach allows you to easily display programming information. The MGW 230's traffic shaping mechanism optimizes bit-rates and video quality, enabling the best video quality over any IP network infrastructure.



230



Web-based Remote Management

The MGW 230's remote management enables the configuration, operation and monitoring of full duplex communications between two MGW 230 units.

Available Configurations

MGW 230 Basic

Supports a single analog video input. It creates an MPEG-2 or MPEG-1 stream.

MGW 230 Basic - Low Latency

Basic plus low latency streaming/support in addition to standard mode.

MGW 230 Duplex - Low Latency

Supports both encoding and decoding in a single chassis using analog interfaces. Provides low latency encoding support in addition to standard mode.

MGW 230 SDI

Supports a single SDI video input. It creates an MPEG-2 or MPEG-1 stream.

MGW 230 Decoder - Low Latency

Supports a single analog video output from an MPEG-2 or MPEG-1 stream. Provides low latency support in addition to standard mode.

Benefits

- An integrated box offers an elegant, two-way communication, space-saving solution
- Front panel LCD provides instant status and setup information
- A single web-based management application controls all MGW 230 platforms used throughout the network (based on the familiar MGW 2000e management application)
- Live or store-and-forward streaming allows flexible content management
- Compact and light-weight chassis makes it easy to mobilize wherever needed
- Low latency enables smooth and continuous two-way communications
- Traffic shaping optimizes video quality at any connection speed

Applications

- Two-way video communications
- Live video streaming for e-learning and education
- Video-on-Demand (VOD) for training
- Video contribution between post production and broadcasting facilities
- Corporate communications
- High quality video surveillance

Features

- Single-channel MPEG-2 and MPEG-1 streaming from 170 Kbps to 10 Mbps
- Small foot print, 1 RU high, plug&play rack-mounted unit with front panel display
- 24 by 7 reliability
- Low latency
- Diffserv QoS support and RTP/RTCP protocol
- TV/ DVD quality
- Web-based remote management
- Real-time stream upload to video servers

MGW 230

Technical Specifications

Standard Compliance

ISO/IEC 11172 (MPEG-1); ISO/IEC 13818 (MPEG-2)

Physical Dimensions:

Width: 12.283" (312 mm); Depth: 11.889" (302 mm);

Height: 1U-metal frame height for mounting (44 mm)

Weight: Up to 5.51 lbs (2.5 kg)

Fans: Up to three fans, no more than 35 decibels each

Electrical Characteristics

Unit power input: DC 10-30V

External power supply:

Input: 90-130V, 180-260V auto range

Output: 19V / 8A

Operating Line Frequency: 47-63 Hz

Input/Output Interfaces

Back Panel I/O

Power switch

Power Input

2 x network adapters; 1 x RS-232; 2 x USB 2.0

Video I/O (Video options depend on the selected configuration)

NTSC/PAL

Composite, SDI

Audio I/O (Audio options depend on the selected configuration)

Unbalanced (Input impedance 10kOhm)

Balanced (Input impedance 600 Ohm)

Embedded SDI

Digital AES EBU

Front Panel I/O

LCD screen

Power LED

Environmental

Operating temperature: 5-45° C, 41-113° F

Storage temperature: -10-70° C, 14-158° F

EMC standards: CE Class B, FCC Class B, CSA Class B

Safety Standards

CE- LVD

Management

Web-based remote management application: Telnet for remote configuration

Local configuration via RS-232 port

Network Protocols

UDP Multicast/ Unicast; RTP Multicast/ Unicast; SAP RFC 2974; SDP RFC 2327

International HQ

7 Shenkar St., P.O.B 2170

Herzlia 46120, Israel

T: +972-9-9709-200

F: +972-9-9709-222

Americas HQ

625 Ellis Street

Mountain View,

CA 94043, USA

T: 1-800-451-5101

F: 1-650-965-2764

info@optibase.com

www.optibase.com

www.optibase.com