

LiveFeed

Compact IP Video Encoders



> Features

- Superb HD and SD H.264 AVC compression quality - up to Full HD 1080p
- Supports a wide range of bit rates, frame rates and resolutions
- Less than 65 milliseconds latency with metadata insertion
- Built-in AES encryption, interoperable with software players and Premium Decoder appliance
- KLV and CoT metadata processing – ingest from serial, IP and SDI (VANC)
- Ability to encode a video source up to 5 times at different resolutions and data rates in parallel
- Built-in Scaler - convert and scale high resolution imagery to any size and rate

> Benefits

- High density with multiple encoding engines up to 2xHD or 5xSD concurrent channels
- Best selection of video inputs in a single platform: 3G, HD/SD-SDI, HDMI, DVI, Composite
- Compact form factor - ideal for mobile applications
- 100% silent, fan-less, securable enclosure, optimized for extreme environments
- Transport infrastructure agnostic: Satellite, xDSL, LANs, WANs, 3G/4G/LTE and FTTx
- Industry-standard, open architecture allows decoding TurboVideo™ streams with any H.264 players in low delay
- Low power consumption – drive encoders on-the-go with battery packs. Battery cables available

> Overview

Integrating with any video environment - the encoder appliances offer the largest selection of inputs types in the industry including 3G, HD-SDI, SD-SDI, DVI, HDMI, Composite, and S-Video.

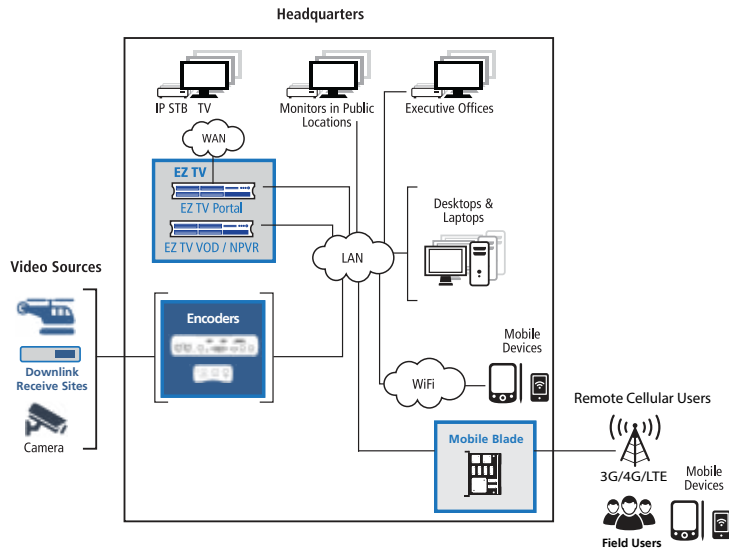
A built-in video matrix and scaler enable the operator to downscale incoming resolutions and frame rates as well as to route a single video source to multiple compression cores for encoding up to five different resolutions and frame rates at the same time.

The encoders deliver superb HD quality streams with under than 65 milliseconds encoding latency, while ensuring uncompromising quality of service and smooth playback.

Featuring a hardware-based AES encryption module – these portable appliances can be used to provide a fully secure end-to-end IP video delivery solution in conjunction with the EZ TV IPTV Software System or with the Premium Decoder appliance that supports AES decryption capability.

Providing the most complete offering for delivering Situational Awareness Video and ISR imagery with KLV Metadata, The MGW family of compact and portable encoders are deployed on numerous manned and unmanned vehicles as well as in use by various corporate and education projects. The appliances feature a rugged design, with no moving parts, combined with real-time embedded video and metadata processing that ensures delivery of critical video and telemetry data in harsh environments. The units ingest Cursor-on-Target (CoT) and Key-Length-Value (KLV) metadata and generate MISB/STANAG compliant streams. The use of an innovative image stabilization chip incorporated in the premium level encoders enhances viewing quality in real-time and allows for reducing bandwidth requirements when streaming motion-intensive content.

> IP Video Encoder



PREMIUM ENCODER



Nano ENCODER



Pico ENCODER

> Technical Specifications - By Device

	MGW Pico	MGW Nano	MGW Premium
Input / Output Interfaces			
Ethernet (MGMT + STRM)	✓	✓	✓x2
3G / HD-SDI / SD-SDI	✓(HD / SD-SDI)	✓	✓x2
HDMI / DVI-D		✓	✓
DVI-I (Analog + Digital)			
Composite			✓x4
S-Video			✓x4
Serial RS-232			✓x2
Embedded Audio Support	SDI	SDI + HDMI	SDI + HDMI
Mini-jack Analog Audio in			✓
Streaming and Encapsulation			
Concurrent unique HD channels	1	1	2
Concurrent unique SD channels	1	1	5
No. of secondary proxy streams			4
RTP Streaming	✓	✓	✓
UDP Streaming	✓	✓	✓
TurboVideo™ Low Latency Streaming	✓	✓	✓
Transport Stream Multiplexing	✓	✓	✓
Session Announcement Protocol (SAP)	✓	✓	✓
Smoothing / Traffic Shaping	✓	✓	✓
Video Compression			
AVC MPEG-4 Part-10 H.264 Baseline	L3	L3	L3
AVC MPEG-4 Part-10 H.264 Main	up to L4	up to L4	up to L4
AVC MPEG-4 Part-10 H.264 High	up to L4.1	up to L4.1	up to L4.2
SIF to Full HD 1920x1080 Streaming	✓	✓	✓
Resolution and frame rate Scaling	✓	✓	✓
Audio Compression			
MPEG-1 L2	✓	✓	✓
AAC-LC	✓	✓	✓
Signal Processing & Metadata			
CoT input over serial	✓	✓	✓
MISB KLV/STANAG input over UDP/IP	✓	✓	✓
MISB KLV/STANAG over SDI	✓	✓	✓
AES Encryption		✓	✓
Image Stabilization		✓	✓
Physical - With Enclosure			
Fan-less enclosure 100% silent	✓	✓	✓
Rack-Mounting ears for 19" IT Racks			✓
Mounting holes for secure install	✓	✓	✓
Height	1.15" (29.3mm)	1.41" (36 mm)	1.75" (44.6 mm)
Width	2.71" (68.85mm)	5.46" (138.85 mm)	7.48" (190 mm)
Depth	3.16" (80.5mm)	4.66" (118.5 mm)	4.66" (118.4 mm)
Weight	0.42lb (0.194Kg)	1.44lb (0.655Kg)	2.42lb (1.098 Kg)
Power			
Secure-lock Power Port	✓	✓	✓
Power input	7-48 VDC	9-12 VDC	9-12 VDC
Maximum power consumption	4W	10W	13W

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