MGW VISION

4K/UHD HEVC Encoder for IPTV

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With the significant increase in deployed UHD TV sets and UHD content growth, users are looking for real-time UHD encoding for streaming and distribution. The MGW Vision provides real-time hardware encoding of 4K HEVC video in broadcast quality at various bit-rates for all IPTV applications.

The MGW Vision processes uncompressed Ultra High Definition signals with up to 4 times the pixel count of current HD sources and encodes it to IP streams using the most advanced compression technology – HEVC (H.265). With its wide range of encoding tools and compression settings MGW Vision enables users to stream broadcast quality UHD/HD video and save up to 50% on network bandwidth utilization compared to today's H.264 standards.
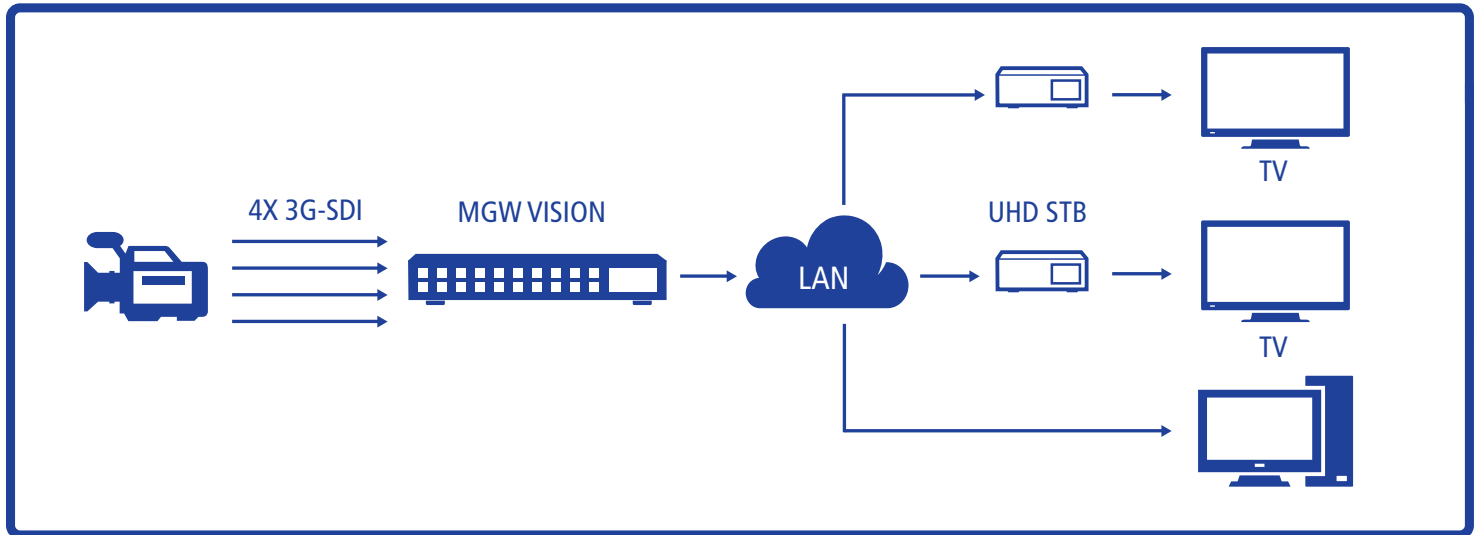
The next generation TV resolution - 4K/UHD

MGW Vision uses a high quality 4:2:2 chroma sampling and 10-bit encoding to deliver premium content to displays, PC players and mobile devices for any video application. MGW Vision's faster HEVC encoding combined with it's easy to use web based management system produces picture perfect in-house distribution of 4K content to IPTV players with easy integration to 4K streaming at sports and entertainment venues and live event broadcasts filmed with 4k cameras.

Applications

• Broadcasting Live Events filmed with 4K Cameras

• Real-Time streaming of 4K Sports Game within Sports Arenas and stadiums

• In-house distribution of 4K content to IPTV players

Key Features

• Hardware based HEVC encoding far faster, power efficient processing

• 4K60 encoding – capture all pixels and all frames to produce the perfect picture

• Encodes single UHD source or 4x1080p HD sources

• Encoding Profiles: Main 8bit 4:2:0 and 10bit 4:2:2

• Records compressed content to File in parallel to live streaming

Technical Specifications

Video Inputs
- 4x3G-SDI (SMPTE 259M-C, SMPTE 292M, SMPTE 274M, SMPTE 296M)

Video Input Resolutions / Frame Rates
- 720x576i @ 50 Hz
- 720x480i @ 59.94 Hz
- 1280x720p @ 50, 59.94, 60 Hz
- 1920x1080p @ 25, 29.97,30, 50, 59.94, 60 Hz
- 3840x2160p @ 25, 29.97,30, 50, 59.94, 60 Hz

Audio Input
- SDI Embedded audio

Video Output
Video Codec:
- HEVC (ISO/IEC 23008-2)
- Modes:
  - Main profile 4:2:0 8 Bits
  - Main profile 4:2:2 8 and 10 bits
- Bit Rate: 500Kbs to 120Mbps
- GOP structure IP/IBP

Audio Output

- MPEG1 Layer 2
- AAC-LC
- AAC-HE v1 and V2
- Format: mono, stereo

Output Streams

- UDP TS
- RTP
- Unicast/Multicast

Management

- Password protected web based management

Environmental

- Operating Temperature: 0º C to 35º C (32º F to 95º F)
- EMC: EN55022, EN55024
- Safety: EN60950 FCC
- Input voltage range: 90-264VAC 50/60 Hz (Auto Senses)
- Redundant Power Supply

Physical

- Dimensions: 1.7" H x 17" W x 17.25" D (43mm H x 433mm W x 438mm D)
- Weight: 22lbs (10kg)

Advanced Features

- Up to 4 channels HD
- One channel UHD
- Storage capacity 256 GB SATA SSD
- Network Interfaces: 2xGb Ethernet

Ordering Information

16791 ⟶ MGW Vision

www.vitec.com