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HERO HEVC DECODER

HIGH-QUALITY POINT-TO-POINT HEVC DECODER



Media Excel's HERO HEVC Encoder-Decoder product line is ideal for point-to-point video distribution. Offering professional quality and proven reliability HERO Encoder product line is the perfect solution for content gathering, head-end feeds, confidence feeds with the flexibility to deliver high quality video anywhere you need. Content distributors, aggregators, broadcasters and operators can capture, contribute and distribute live video content with confidence and efficiency.

Paired with Media Excel's HERO Transcoder product line, HERO Encoder product line leverages Media Excel's 15+ years of leadership in encoding/decoding technologies to provide an ecosystem-wide video delivery solution.

PRODUCT LINES

- > **HERO 5000E HEVC**
HEVC low-bitrate contribution/distribution encoder for IP/ASI networks.
- > **HERO 5000D HEVC**
Multi-channel multi-format contribution/distribution decoder for IP/ASI networks.
- > **NETWORK MANAGEMENT SYSTEM (HMS)**
Central configuration & monitoring platform for contribution, distribution and multi-screen transcoding services.

APPLICATIONS

- > NEWS GATHERING
- > CONTENT AGGREGATION
- > TELEPORT SERVICES
- > DIGITAL TURN-AROUND
- > IPTV & OTT CONTRIBUTION
- > REGIONAL DISTRIBUTION

KEY FEATURES

- > Up to Full HD video
- > HEVC/H.265 support
- > Highest video quality across the delivery chain
- > Low latency decoding mode
- > Advanced content delivery redundancy schemes
- > Digital and analogue outputs

HERO 5000D HEVC

Point-to-Point Decoder for IP & ASI Networks

HERO 5000D HEVC is a new decoder platform specifically designed for efficient point-to-point video delivery over IP & ASI networks. It can ingest up to two independent channels in HEVC/H.265 and deliver SD or HD 4:2:0 or 4:2:2 uncompressed output.

HERO 5000D HEVC relies on a fully redundant 1RU chassis and Media Excel's state-of-the-art video processing technologies to deliver highly available services for mission-critical low delay applications. Also, HERO 5000D HEVC offers content delivery redundancy schemes allowing for switchover between Satellite/ASI and IP network feeds.

Further, FEC Pro MPEG support enables delivery over unreliable transports and HERO's enhanced decoding density helps streamline workflows further. Those features reduce the overall operating expenditure of contribution/distribution services considerably.

Finally, the Web-based management and configuration interface provides full control of the operating needs, while the front panel LCD and keypad enable quick access to pre-configured profiles.

HERO 5000D HEVC - DECODER

INPUT

VIDEO

- HEVC/H.265 4:2:0 8-bit
- SD: 0.1 – 6Mbps
- HD: 0.5 – 20Mbps

HD FORMAT

- 720p50, 720p59.94, 720p60
- 1080p23.98, 1080p24, 1080p25
- 1080p29.97, 1080p30
- 1080i50, 1080i59.94, 1080i60

TRANSPORT

- MPEG-2 TS over UDP, unicast/multicast
- MPEG-2 TS over DVB-ASI *
- MPEG-2 TS, DVB, ATSC
- FEC ProMPEG (SMPTE 2022) *
- VBR or CBR (null padding)

OUTPUT

VIDEO

- SD-SDI (SMPTE 259M) 625/525
- 10-bit SD SDI (SMPTE 259M) 625/525
- 10-bit HD SDI (SMPTE 292M)
- HDMI (Type A) *
- Component Video (3 BNCs)
- S-Video
- Composite NTSC/PAL

HD FORMAT

- 720p50, 720p59.94, 720p60
- 1080p23.98, 1080p24, 1080p25
- 1080p29.97, 1080p30
- 1080i50, 1080i59.94, 1080i60

AUDIO

- Dolby E/AC3/AC3+ (Pass-through)
- AAC-LC/AAC-HE (MPEG-2, MPEG-4)
- Multi-channel AAC (5.1) *
- MPEG-1 Layer I & II

SD FORMAT

- 576i50 PAL
- 480i59.97 NTSC

SPTS or MPTS

- Service/PID filtering
- On-the-fly format detection & change
- Multi-service BISS descrambling *
- Dual/redundant GigE/ASI input

AUDIO

- 8 channels embedded in SDI
- 2 channels embedded in HDMI
- 6 channels unbalanced AES/EBU
- 4 channels balanced analog (1/4")
- Sampling 48kHz/24bit

SD FORMAT

- 625/25 PAL
- 525/23.98 NTSC
- 525/29.97 NTSC

PROCESSING

VIDEO HEVC

- HM11 compliant
- Low latency mode
- Aspect ratio detection & adaptation
- Content adaptive de-interlacing
- Contrast/Brightness/Gamma control
- Up/down/cross conversion
- Frame cropping
- Graphic/Logo overlay with alpha colo
- DVB-Subtitles, Teletext & EIA 608/708 CC
- SCTE-35/104 signaling *

AUDIO

- Down-mix options
- Audio level monitoring
- Audio gain control
- Dynamic audio normalization
- Multiple audio tracks/languages

MANAGEMENT

CONFIGURATION

- Embedded Web Server
- Front panel with LCD/Keypad
- Import/Export/Backup of configuration

MONITORING

- SNMP (MIB v.2) with traps/alarms
- Configurable audio visual alarms
- Remotely upgradable

CHASSIS

FORM FACTOR

- 1U standard 19" wide (rack mount)
- 1.75" (44mm) high x 23" (58cm) deep
- 24lb (11kg)

POWER SUPPLY

- Auto-switch AC 90-264V (47- 63Hz)
- 600w

ENVIRONMENTAL

- Operating temp: 0 to 50° C (32 to 122° F)
- Storage temp: -20 to 65° C (-5 to 150° F)
- Humidity: 5 to 90 %
- Shock: 10G / 11ms in all axis
- Vibration: 0.8G / 5 to 100 Hz

REDUNDANCIES

- Redundant HDD *
- Dual hot-swappable power supply *
- 4 GigE ports with teaming/bonding

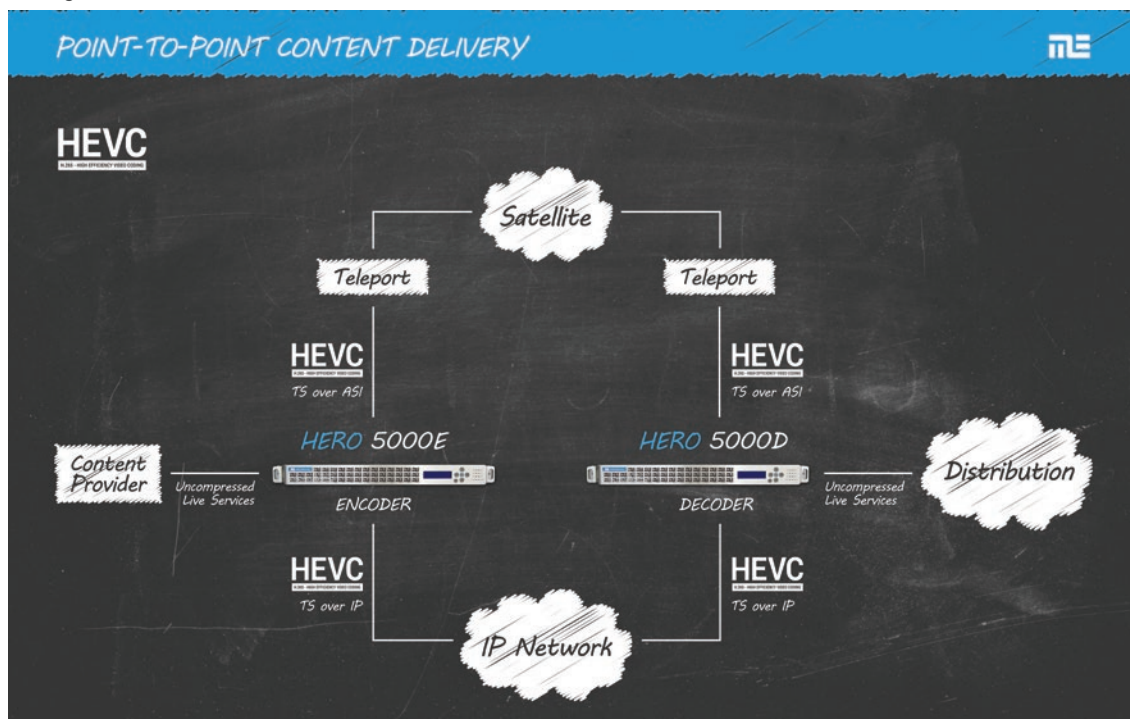
DISPLAY & INTERFACE

- 32-character liquid crystal display (LCD) control panel (2x16) with backlight

CERTIFICATIONS & COMPLIANCE

- FCC Class A
- CE/RoHS 5-compliant
- WEEE-compliant
- EN61000-6-2 EN55022/24 EN60950:2000
- UE 89/336/EEC, UE 73/23/EEC

* Option available in specific models only.
- Specifications subject to change without notice.



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