

High-Performance Multi-Channel HEVC Encoder with Advanced StatMux Technology



The Visionova Stellar Series is a high-performance multi-channel encoder designed for professional broadcast and IPTV applications. Featuring advanced Statistical Multiplexing (StatMux), it optimizes bandwidth while delivering exceptional video and audio quality. Supporting HEVC (H.265) and MPEG-4 (H.264) up to 4K resolution, it ensures efficient compression for multiple simultaneous channels. With versatile inputs (SDI, HDMI, IP) and outputs (ASI, TS over IP), the Stellar Series offers full standalone HeadEnd functionality. It supports industry-standard audio codecs including AAC, HE-AAC, and Dolby Digital (AC3). Available in 1U and 2U versions, it provides intuitive web-based remote management for maximum flexibility and control.

Key Features

- **Simultaneous Multi-Channel Encoding**
- **Advanced Bandwidth Management with StatMux**
- **Input Interfaces:** SDI, HDMI, IP
- **Embedded Audio Input:** 8 stereo channels
- **Output Interfaces:** ASI, TS over IP
- **Input Video Support up to 2160p30 (4K)**
- **Multi-Service Support**
- **Down Conversion Capabilities**
- **Supports 8-bit and 10-bit Video**
- **Video Compression:** HEVC (H.265), MPEG-4 (H.264)
- **Audio Compression:**
 - MPEG1 Layer II
 - AAC-LC
 - HE-AAC (AAC+)
 - HE-AAC V2
 - AC3 (Dolby Digital)
- **1U Version:** Front panel LCD and keypad for management
- **2U Version:** Full touchscreen front panel
- **Remote Management via Web Interface**
- **Available in 1U and 2U rackmount sizes**



Rackmount
1U
For SNG



Rackmount
1U
For HeadEnd,
Datacenter



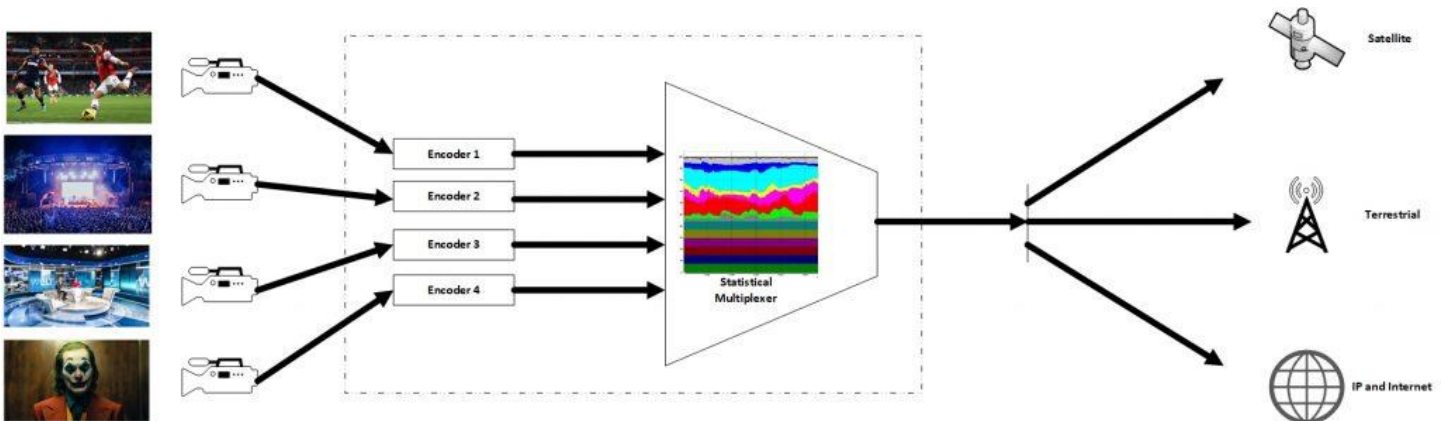
Rackmount
2U
For HeadEnd, Datacenter
With touch screen Display



Application

- Live Broadcasting of Sports Events
- Live Streaming of Cultural Ceremonies
- National Television Networks
- Local TV Channels
- Online Education
- VoD (Video on Demand)
- OTT (Over-the-Top) Platforms
- Video Conferencing
- Audio-Video HeadEnd
- SNG (Satellite News Gathering) Vehicles
- IP-Based Transmission
- Satellite Broadcasting
- Terrestrial Broadcasting
- Point-to-Point Links
- FlyAway Systems
- Professional Broadcast Environments

a comprehensive device engineered to optimize your video processing requirements. Our state-of-the-art technology seamlessly integrates multi channel encoder, multiplexing, and statistical multiplexing (statmux) functions into a single, robust unit, ensuring unparalleled efficiency and performance for your video processing needs.



Technical Specifications



Subject	Specification
Input (Optional)	1 or 4 or 8x3G-SDI or 1x12G-SDI 8xEmbedded Audio (SDI) 1xHDMI 2.0a connector 8xEmbedded Audio (HDMI) - IP
Output (Optional)	1 or 2 or 3xDVB-ASI (coax) 0 to 214 Mbps - TS over IP (RJ45) - SDI LoopBack
Number of channels and Input Resolution (Optional)	1x4k or 4x4K or 8xHD or 8xSD channels Encoding - Statistical Multiplexer - Multiservice 525i59.94 NTSC, 625i50 PAL 720p50, 720p59.94, 720p60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30, 1080i50, 1080i59.94, 1080i60, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30,
Video Encoding (Optional)	- HEVC (H.265) - Main, Main 10 - Level: 6.2 - AVC (H.264, MPEG-4) - Main, High, High 10 - Level: 4.2, 5, 5.1
Audio Encoding (Optional)	- MPEG1 Layer II - AAC-LC - HE-AAC (AAC+) - HE-AAC V2 - AC3 (Dolby Digital)
Features (Optional)	- UDP, RTP, RTMP, SRT - Up/Down Convert - SPTS, MPTS - Unicast or multicast - VBR, CBR - Chroma Sampling 4:2:0 8-bit, 10-bit - I-only, IP, IB, IBP, IBB, IBBP, IBBB, IBBBP, IBBBB, IBBBBP H.264: - HEVC: I-only, IP, IB, IBP, IBB, IBBP, IBBB, IBBBP, IBBBB, IBBBBP
Scrambling (Optional)	- BISS-0, 1, E - BISS-CA
Management (Optional)	- WEB Interface - Key and Display in 1U Encoder - Touch Screen Display in 2U Encoder
Physical Specifications (Only one model should be selected)	- Rackmount 1U (SNG Version) - Rackmount 1U (Datacenter Version) - Rackmount 2U

Device Order Code:

To place an order for this product, please contact us so we can provide a unit with the right options tailored to your needs.

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