



DESCRIPTION

Open-standard, 4K60 AVoIP encoding for optimal performance with minimal network bandwidth usage.

Starview SA-TU101 (SA-TU101 and SA-TU101H) single-channel video encoders are designed to deliver a comprehensive and flexible streaming solution using open standards. These standalone AVC/HEVC encoders provide high compression, ultra-low latency, 4K60 input capture and high-quality encode with zero-latency passthrough. Both models are compact, fanless, low power, and rack-ready. Leveraging H.265 technology, Starview SA-TU101H can encode video at low bitrates.

Starview Encoder SA-TU101 and SA-TU101H provide secure streaming, offer adjustable parameters, and support multiple streaming protocols. These encoders fit seamlessly into existing infrastructures and complement the Starview SA-TU101 product line. Well-suited for diverse applications, Starview SA-TU101 is ideal for secure command and control centers, operation rooms, and other mission critical environments.

HIGHLY SECURE AND ROBUST AV OVER IP SOLUTION

Starview SA-TU101 Encoder offers enterprise-grade security features to ensure protection of both the encoded video streams as well as our hardware device within your network. These include integration with Microsoft Active Directory for access control, HTTPS communication for secure device control, secure and verified firmware updates, 802.1x support for network authentication, regular vulnerability updates, and the Secure Reliable Transport (SRT) support.

SA-TU101

ENCODER

KEY FEATURES AND BENEFITS

- **4K60 input capture and encode**

Stream and record - simultaneously - up to 4K60, with high quality scaling options.

- **Zero latency pass-through**

Achieve zero-latency pass-through for real-time output of desktop, camera, and other types of content.

- **Standards-based HEVC and AVC codecs**

Deliver interoperability between existing devices and environments.

- **H.265 efficiency**

Achieve flawless quality with minimal bandwidth usage.

- **Fanless, quiet, and rack mountable**

Deliver zero noise operation thanks to its fanless design, making SA-TU101 ideal for control room environments and operator desktops. Install up to three devices horizontally in 1 RU of rack space.

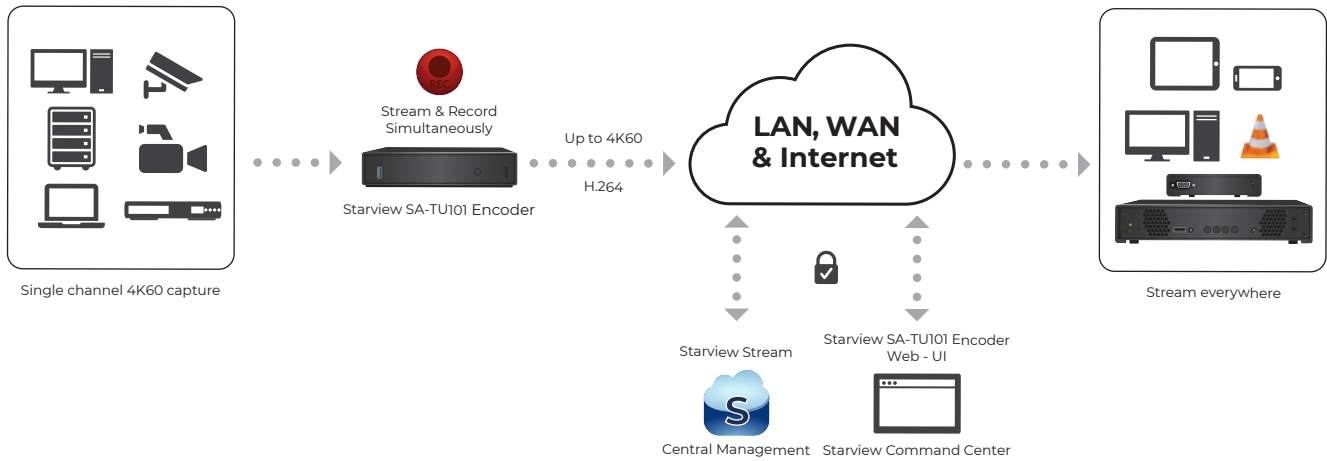
- **Flexible streaming**

Enjoy five streaming protocols - RTSP, MPEG2-TS, RTP, RTMP(S) and SRT - for secure, trouble-free streaming.

UNMATCHED CONVENIENCE WITH SINGLE STREAM AND RECORD

Starview SA-TU101 Encoder encoders deliver source content to on-premises end points over LAN, WAN (VPN), and internet. Feed cloud-based servers, and record to any accessible network location, including a Network Attached Storage (NAS) and Network Video Recorder (NVR) - all in a compact form factor. You can also leverage RTMP for seamless cloud integration and reliable video streaming. Secure Reliable Transport (SRT) protocol ensures high-quality reliable streaming even on noisy or unpredictable networks.

STARVIEW SA-TU101 ENCODER DELIVERS WORKFLOW FLEXIBILITY



Technical specifications

SA-TU101 ENCODER

| | STARVIEW SA-TU101 ENCODER | STARVIEW SA-TU101H ENCODER | |
|-----------------------------|----------------------------|--|---|
| Performance | Maximum capture resolution | 1x 3840x2160 @60Hz | |
| | Color space capture | <ul style="list-style-type: none"> • RGB and YUV 8-bit support • Color space conversion support | |
| | Encoding formats (Codecs) | <ul style="list-style-type: none"> • Video: H.264/MPEG-4 Part 10 (AVC) • Audio: MPEG-4 AAC-LC, OPUS and LPCM | <ul style="list-style-type: none"> • Video: H.264/MPEG-4 Part 10 (AVC) • Video: H.265/MPEG-H Part 2 (HEVC) • Audio: MPEG-4 AAC-LC, OPUS and LPCM |
| | Chroma sub-sampling | 4:2:0 (8-bit) | |
| | Encoding capability @4:2:0 | 1x 3840x2160 @60Hz | |
| | Profiles | Baseline (BP), Main (MP), High (HiP), High10 (Hi10P), Intra, up to Level 5.2 | Main (MP), Main Intra, Main10, Main10 Intra, Main, Intra up to Level 5.1 High Tier |
| | Encoding level | Up to 5.2 | |
| | Bitrate range (Per stream) | <ul style="list-style-type: none"> • 64Kbps to 60 Mbps • 15 Mbps (default) | |
| | Rate Control | CBR, VBR, adjustable GOP size | |
| | Audio sample frequency | 32 kHz, 44.1 kHz, and 48 kHz | |
| Recording | Audio bitrates | From 64 to 320 Kb/s (AAC-LC, OPUS and LPCM) | |
| | Scaling | Yes | |
| | File formats | Transport Stream (.TS) | |
| Recording | Programmability | Start/stop, duration, file location | |
| | Recording locations | <ul style="list-style-type: none"> • Shared network drive or NAS • USB 3.0 | |
| Networking interface | Streaming protocols | <ul style="list-style-type: none"> • RTSP (TCP), RTCP & RTP (UDP) - all required RTP over UDP SRT over UDP • RTMP/(S) • MPEG2-TS over UDP • MPEG2-TS over RTP RTSP over TCP (interleaved) | |
| | Command & control | HTTPS over TCP, UPnP (discovery), SSDP | |
| | Network standard | <ul style="list-style-type: none"> • 100/1,000 base-T Ethernet, auto speed, half/full duplex • IGMPv2 and IGMPv3 support | |
| | IP addressing | IPv4, DHCP (default) and static IP address support, IPv6 | |
| | IP stream support | Unicast, multicast | |
| | Network security | 802.1x support | |
| | Software | Command Center Web-UI | <ul style="list-style-type: none"> • Encoding and recording management • Multi-protocol management • Frame rate management • Resolution control • Scaling management |
| REST API | | Available for lower-level development | |
| Supported operating systems | | Microsoft® Server® 2022, Windows® Server® 2019, Windows® 11, Windows® 10 | |

For technical or sales support, please visit:
www.starviewint.asia

For assistance with confirming the Jurisdiction & Classification of Starview Asia products, please contact
info@starviewint.asia

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Technical specifications (Cont.)

| | STARVIEW SA-TU101 ENCODER | STARVIEW SA-TU101H ENCODER |
|--------------|---------------------------|---|
| Connectivity | Network connector | 1x RJ45 with status LED indicators |
| | Video input | 1x HDMI®2.0 (Type A) with audio support |
| | Video output/Pass-through | 1x HDMI®2.0 (Type A) with audio support |
| | Audio input | <ul style="list-style-type: none"> • 1x HDMI digital LPCM two-channel stereo audio • 1x 3.5 mm analog stereo audio in <ul style="list-style-type: none"> - 0.57 Vrms -29 kΩ -6 dB to +16.5 dB |
| | Audio output | 1x HDMI digital LPCM two-channel stereo audio |
| | USB | 1x USB 3.0 |
| | Noise emission | Fanless |
| Hardware | Power supply | <ul style="list-style-type: none"> • 100-240 VAC in, 12 VDC out, ~12W typical (40W max) • Barrel locking power connector |
| | Runtime | 24/7 |
| | Power cords included | Yes |
| | Product dimensions | 7.11 x 5.50 x 1.31 in (18.07 x 13.97 x 3.33 cm) |
| | Form factor | <ul style="list-style-type: none"> • Standalone appliance • Rack mountable (1U, 1/3R) • Weight is ~350 grams/0.77 lbs |
| | Operating conditions | Temp: 0 to 45 degrees C Altitude: 650 hPa (3580m) to 1013 hPa (0m) Humidity: 10 to 90% non-condensing |
| | Storage conditions | Temp: -40 to 70 degrees C Altitude: 192 hPa (12000m) to 1020 hPa (-50m) Humidity: 10 to 90% non-condensing |
| | Warranty | 3-years |
| | | |

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Performance specifications are typical. Due to constant research, specifications are subject to change without notice. For the most up-to-date specifications, please contact an authorized Starview representative.

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