



VAST: Video Assured Secure Transmission

VAST is a versatile software-based video encoder capable of streaming video with higher compression ratios than standard codecs for the same quality, and can stream video over data networks as small as UHF TACSAT.

Software Encoding

Modular video encoder designed to run across a range of hardware, including our VAST appliances.

Transport Agnostic RTC

Designed to stream real-time video on any IP-based network, no matter the bitrate.

Direct Streaming

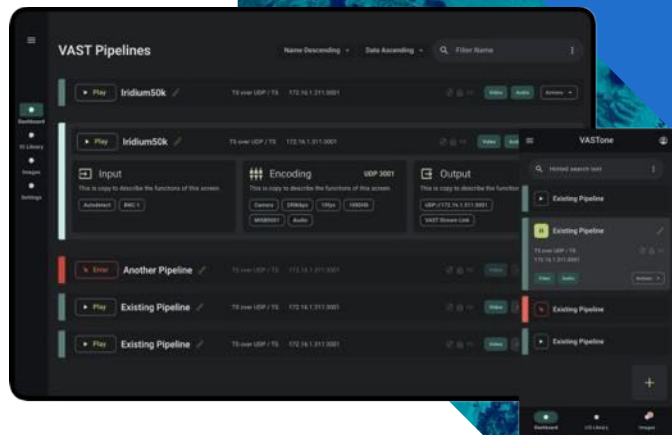
VAST operates without the need for a video management system or server to stream low bandwidth video.

Open Standards

Leverage open media standards, no proprietary formats.

Clean Video, No Distortion

VAST leverages the AV1 compression standard, so even highly compressed video is clear with no visual artifacts like tearing or image distortions.



Easy to Use UI

VAST apps feature a simple UI for creating, storing and managing video workflows.

Still Image Compression

Can compress image files as much as 5,000 to 1 compression ratio.

Support for Multiple Workflows

VAST can support a diverse range of workflows and CONOPS. This includes real-time video streaming, transcoding, re-streaming, as well as non-real-time applications such as image compression or video archiving.



VAST Alpha
appliance in Cerakote
H-210 Sig Dark Grey

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VAST Alpha

Our VAST Alpha Appliance is purpose-built for encoding on the move in remote and austere environments.



Hardware Inputs	Device can be configured to support HDMI, 3G or 12G SDI
Supported Inputs	ONVIF, RTMP, RTSP, UDP, UDP Multicast and SRT
Video Compression	Real-time AV1 encoding VAST Alpha supports encoding up to 4k 4:0:0 (monochrome), 4:2:0, 4:2:2, and 4:4:4 up to 12 bit color HD video at bitrates as low as 40 kbps Still image compression up to 5000:1 (vs. uncompressed)
Legacy Support	Legacy encoding for H.264 and HEVC coming soon
Supported Outputs	Support for CDNs, including Dolby.IO / Millicast Any CDN service that supports the Whip Sink protocol UDP, RTMP, TCP, SRT (RTSP coming soon) KLV metadata support for MISB0601 coming soon YouTube Live and more streaming support coming soon
Edge Compute & AI	Linux OS, Snapdragon 8 Gen2, 8 GB RAM, expandable storage and 15 TFLOPS of neural processing power available for your applications and services. Compute IO includes Gigabit Ethernet, WiFi 6 (Option, Pending Regulatory Approval), RS-232, Expandability via M.2 for Storage or 4G/5G modems (Option, Pending Regulatory Approval), and GPIO support via Raspberry Pi HAT.
Hardware and Software based solutions	VAST is both a software and hardware solution in order to offer our customers maximum flexibility in how they deploy. VAST is well-positioned to run locally, in the cloud, on the body - or wherever you need it most. OTA software updates
VAST Apps	Easy to use multi-platform apps for VAST management, streaming control, and playback
VAST Alpha Physical	8.3 cm (3.265") x 2.4 cm (.930") x 11.2 cm (4.365") USBC-PD (power delivery) -10° C to 65° C

