



VELA ENCOMPASS

Compliance Monitoring
Multiviewer & Smart Logger
System



24/7 capture solution
with live multiviewer,
QoS monitoring, logging,
alerting and Transport
Stream analytics

KEY FEATURES

- Scalable Inputs
- 24/7 Monitoring and Logging
- 24/7 Proxy Capture
- Local Multiviewer/Video Wall
- Remote Access via Web or Mobile App
- User Configurable Alerts and Alarms
- Email, Text and SNMP Alerts
- Microsoft Teams, WebEx Teams, Slack,
Teams Integration
- Transcoding
- Live Stream Editing
- Ratings Integration
- Live Keyword Alert
- AdRecon
- Cloud Services Integration

A comprehensive solution that enables broadcast television stations to create, distribute and monetize their content while fully meeting their regulatory and advertiser compliance requirements.

Compliance Monitoring & Logging

Monitor transport stream parameters per ETSI TR101.290 and ATSC A/78, with 24x7 monitoring and logging of Loudness/LKFS per ATSC A/85 CALM Act, 24x7 monitoring and logging of 608 and 708 closed captioning, PSIP logging and loss of PSIP detection, black screen detection, loss of audio detection, static image and ratings watermark detection and SCTE 104/35 detection, decoding, and logging with configurable alarms and thresholds on each parameter within each stream.

Capture & Recording

Fully selectable proxy configuration including resolution and bitrate. Choose what is best for your quality and user experience needs. Each stream is transcoded into a low res proxy for easy playback, review, segmenting, and download through a web browser.

Live Editor Workflow

Create clips in real-time from live broadcasts. HTML5 compliance means this can be done from anywhere in the world (work, home, etc) with any web browser without the need to download and install any browser plugins.

Multitude of Input Options

Inputs options from baseband (SDI, HD-SDI, UHD, Composite, HDMI) to TS (ASI, DVB, ATSC 1.0, ATSC 3.0) to IP (UDP, IGMPv3, SMPTE 2022, SMPTE 2110) to Over the Top Platforms (HLS, MPEG-DASH, vMVPD capture). Mix and match what you need all in the same box.

Choose the Platform that Best Fits Your Needs

Encompass comes as a Turnkey system, can run on a virtual Machine, or as a hosted cloud solution.

PRODUCT SPECIFICATIONS

DVB-ASI	Full 213 DVB-ASI Receiver. Signalling rate is full 270 Mbps
IP	(2 or 4) x 1 Gbps Ethernet 10 Gbps Ethernet available (optional) SMPTE 2022 Multicast
RF	8VSB Option for more tuners available. QAM: ClearQAM / Cablecard
Baseband	Video: UHD (4k)/HD/ SD SDI HDMI Component / Composite / S-Video Audio: SDI/HDMI Embedded Analog TRS, RCA
Video	SD/HD/UHD/4K MPEG2, H264, H265 4K: Up to 60 fps 1080i/P: Up to 60 fps 720P: 50, 59.94 480i/486i: 29.97 576i/582i: 25
Audio	Up to 32 channels of audio per video program in 7.1, 5.1, and 2 channel format combinations
Video Wall	HDMI and Display Port

SYSTEM SPECIFICATIONS

Chassis	3RU 17.2" x 5.2" x 25.5"(WxHxD)
Gross Weight	75 lbs
Storage	RAID 1 Mirrored Storage for OS RAID 5 Storage for Content Hotswap Drives Scalable Storage
Processors	Dual Multi-Core Processors
Power Supply	Dual, Redundant, Hotswappable Power Supplies 100-240VAC 50/60Hz auto range rated at 920 Watts each
OS	Windows 10 Pro (64 bit) OS Windows Server 2016/2019

TRANSCODING/ENCODING

H265	HD/SD/UHD/4K Up to 60 fps
H264	HD/SD/UHD/4K Up to 60 fps AVC-Intra Class 50, Class 100 support. Options for Apple devices, Social Media and mobile devices
MPEG2	HD/SD/UHD/4K Up to 60 fps Simple, Main, High and 4:2:2 Profile CBR/VBR Bitrate Modes
Audio	SMPTE 302 PCM AAC LC/HE MPEG 1 Layer 2 MP3
Containers	MPEG2 TS, MOV, MP4

MEASUREMENTS

ATSC	A/78
ETSI TR 101.290	Level 1, Level 2, Level 3
Video	Black Image Static Image CC608 CC708 PSIP
Audio	Amplitude Loss of Audio Program/Channel Loudness per BT.1770-3 ATSC A/85 Calm Act
Nielsen	No Nielsen Data Incorrect SID CBET/CQoE
SCTE 35/104	Loss of SCTE Data Type of SCTE Data Log SCTE Triggers/Event

ALERT COMMUNICATIONS

Local	Alarm LEDs Audible Alarms Penalty Box GPIO Option
Remote	SNMP Traps Email Text/SMS Messaging Slack Microsoft Teams WebEx Teams Push Notifications

