



VELA LUNA+

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

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

Luna+ 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 |

