

# LYRAE

Advanced Monitoring Multiviewer Solution



LYRAE is a **TV or Radio channels monitoring solution**.

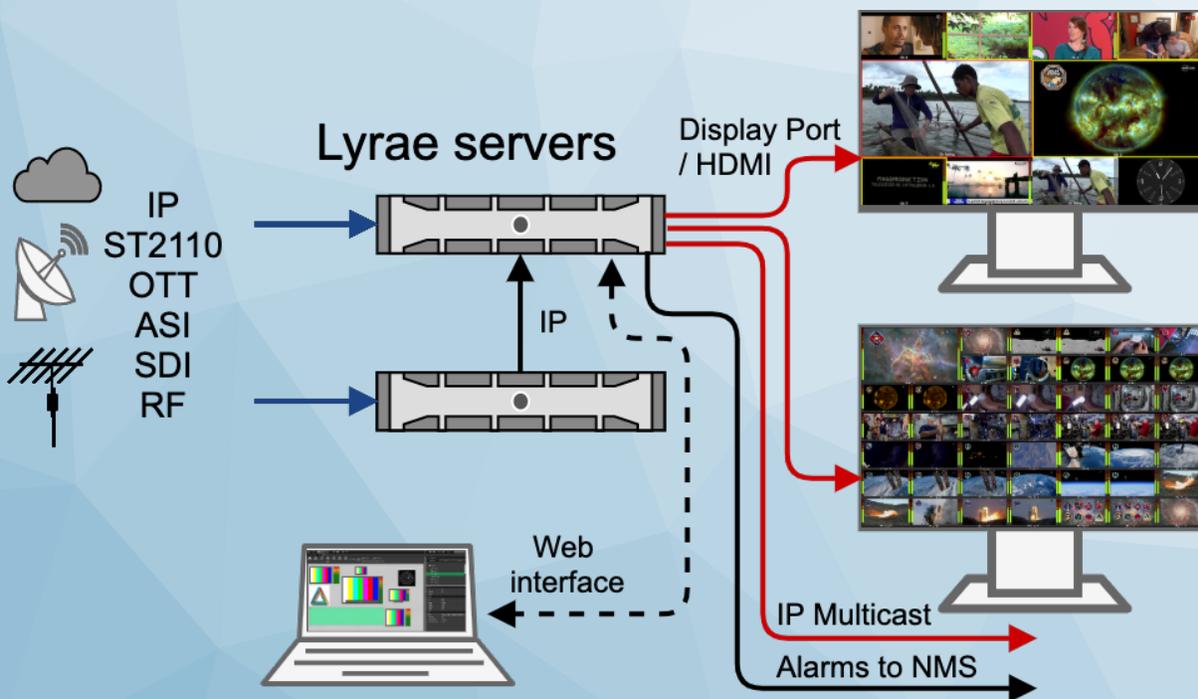
It comes with 2 main features :

First, it is a **smart analysis device**, a **probe** able to detect issues on the contribution or distribution monitored streams and notify an NMS or the operator via alarms.

It is also a **flexible visualisation tool**, giving complete freedom to its operator for the composition of the **multiviewer screen** : each element can be freely scaled and moved according to the constraints or habits of each customer.

## KEY FEATURES

<b>Any input</b>	IPTV, ST-2110, OTT, ASI, Baseband, Terrestrial, Satellite, Cable
<b>Scalable</b>	Unlimited density thanks to the distributed architecture
<b>Any design</b>	Complete freedom for composing any kind of mosaic screen
<b>4K support</b>	For crisp and clear thumbnails on dense multiviewer walls
<b>Monitor anywhere</b>	Multiviewer is displayed locally on video walls or remotely with the streaming output and web interface
<b>Advanced stream analysis</b>	For reliable stream monitoring and alarms



<b>TRILOGIC ALBIRO</b>	Multicoder and Multiplexer for Broadcast and IPTV/OTT
<b>TRILOGIC CUTSCENE</b>	Content Extraction for Easy Publishing on Video Sharing Platforms
<b>TRILOGIC LYRAE</b>	<b>Advanced Monitoring Multiviewer</b>
<b>TRILOGIC B2MOSAIC</b>	Mosaic Channel Generator for MSOs
<b>TRILOGIC TSDelay</b>	Delay Server for Logging or Timezone Adjustment

### Inputs

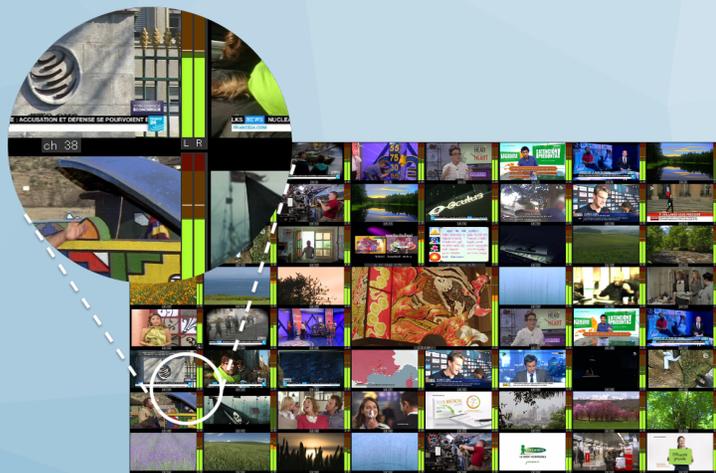
- o IP (Multicast, Unicast, UDP, RTP 2250)
- o SMPTE 2110 uncompressed IP streams
- o OTT (HLS)
- o ASI
- o RF (DVB-S/S2, DVB-T/T2, ISDB-T, etc...)
- o SDI, HD-SDI, 3G-SDI, 12G-SDI

### Supported Formats

- o Video : MPEG-2, H.264, HEVC, uncompressed
- o Pixel formats : 4 :2 :0, 4 :2 :2, 4 :4 :4
- o Audio : MPEG-1, AAC-LC, Dolby AC3-E/AC3, HE-AACv1/v2
- o Subtitles : Teletext, OP47, VBI

### Composition

- o Video thumbnails
- o Audio vumeter
- o Clocks
- o Still images with auto refresh
- o Templates support
- o Flexible labeling of thumbnails
- o Multiscreen support
- o Any output screen resolution, 4K included (see below)

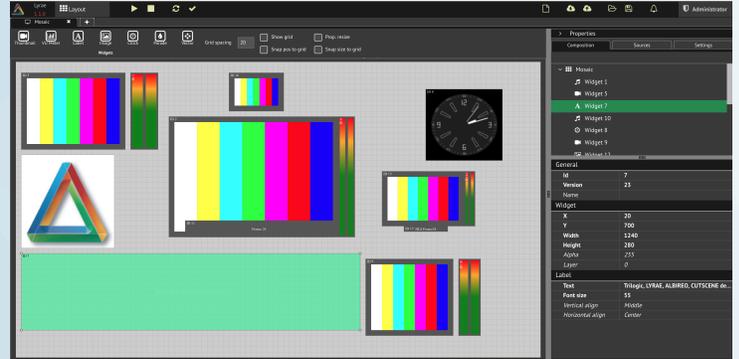


### Integration with Third Party Systems

- o Comprehensive XML format for defining the sources, layout and monitoring parameters
- o REST API interface (HTTP) with the LYRAE engine for operations like getting the current status including alarms, changing the multiviewer layout and retrieving thumbnails
- o Integrated with Dataminer Network Management System

### Operations and Management

- o Advanced web GUI for creating the multiviewer screens
- o Setting any of the input audio streams to the output audio
- o Display of alarm status of each stream
- o Inputs Thumbnails display in the web interface
- o Seamless layout change support



### QOS Analysing and Monitoring

- o Signal loss
- o Packet loss
- o Video or Audio PID missing
- o Main ETR-290 parameters

### QOE Analysing and Monitoring

- o Black
- o Freeze
- o Audio level (high and low) / Silence
- o Teletext / OP47 Subtitles Display

### Alarms

- o Colored border on the mosaic around failing services
- o Support for advanced combined alarm rules using scripts
- o Support for external alarms display
- o SNMP traps
- o Events log

### Multiviewer Outputs

- o Local output on monitor (SDI or HDMI / DisplayPort)
- o Encoded IP stream output

### Roadmap

- o DVB subtitles decoding : EN 300 743

Being its third multiviewer product, Trilogic has more than 10 years of experience in the multiviewer space. In 2015, Trilogic completely rethought all the specifications for its monitoring multiviewer in order to address the new needs of its demanding customers and make **the most versatile Multiviewer solution on the market**. The result is LYRAE, the next generation **visual monitoring solution** by Trilogic.