

2060LCG-LVP



LiveView Multi Image Processor



The exponential growth of IP based streaming networks has allowed both broadcast the service providers to scale operations faster than ever. Consumers are now being offered the luxury of watching any content, anywhere and at any time, and expect the highest level of service without compromise.

This unification between IP networks and streaming media does present its own set of challenges to ensure that media is originated, processed, and delivered in compliance. IP flows can frequently suffer from packet loss, jitter, operational production violations and encoding impairments to name a few. Having the right monitoring and multiview technologies in place to proactively identify issues and service disruption is imperative to the success of an operation.

LAWO has engineered the LiveView Processor (LVP) as the Multiviewing eyes and ears of both your uncompressed media production and compressed delivery network. This high-density software multiviewing platform incorporates the essential technologies needed to visualize and identify media and packet related impairments.

The LVP is ideal for many unified multiview and monitoring operations including:

- **Live Production**
- **Linear Payout**
- **PayTV, Distribution and Delivery Operators**
- **Over-The-Top CDN**

At the heart of the LVP, packets are processed for compliance with also the unique ability to analyze the conditions of the streaming network. This dual focussed analysis approach provides a clear demarcation between video delivery and video processing thereby drastically reducing the mean time to repair (MTTR) and eliminating finger pointing between processing departments.

The LVP is designed to:

- Operate on COTS bare metal servers or virtual machine environments
- Acquire a wide variety of media flows across multiple high capacity IP interfaces (up to 200Gb/s)
- Analyze streams for compliance with long term logging using the award winning smartSCOPE technology inside
- Output full frame rate decoded video, audio, and ancillary data metrics into the distributed multiview ecosystem

The fast standing LVP can be configured in 3 easy steps:



- Join media flows directly or have them streamed patched automatically with the VSM Broadcast Controller



- Inspect the service for compliance using the award winning smartSCOPE deep packet analyzer built inside

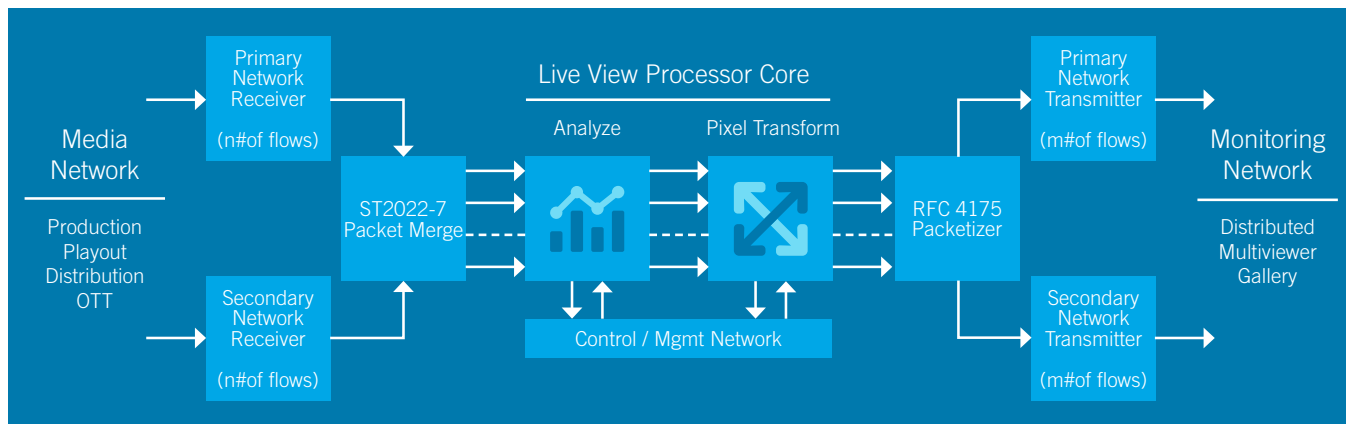


- Stream out the LiveView profiles into the Distributed Multiview ecosystem in any desired mosaic arrangement

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Block diagram:



Software Ordering Options:

- 2060LCG-LVP-BASE16
16 Channel LiveView Processor base license with integrated smartSCOPE
- 2060LCG-LIC-LVP1
Single channel LiveView Processor license
- 2060LCG-LIC-CODEC
Additional CODEC license for mixed format environments concurrently

Server Order Options:

- LSRV-SM1029-100G-XT4-100G
Dual 100G 1RU COTS server with GPU accelerator (where X=1, 2, or 3)

KEY FEATURES

- Manually or automatically join many compressed and/or uncompressed media flows in a single LVP instance
- Full ST2110 stream packet analyzer (all parts) including bitrate, RTP profiler and timing inspection
- Full MPEG-2/H.264/HEVC/OTT-ABR stream packet analyzer including PID Tree, ETR 101 209 and table inspection
- Timing lock to NTP, PTP or free-run
- Complete PTP analyzer with alarm status
- Integrated with the Distributed MultiViewer for “lean-back” wide view of all media streams
- Integrated with the smartQC deep packet inspection operator station for a “lean-forward” view
- Full API support including broadcast controller integration

RECOMMENDED SERVER SPECIFICATIONS

- Dual socket Intel XEON Gold 6240 or similar
- 64GB DDR4 Memory
- 1TB HDD for standard logging
- 512GB SSD
- Standard 1G Ethernet for management/control
- Up to 4 high performance GPUs
- Recommended: Mellanox Dual Port ConnectX-5 MCX516A-CCAT Network Interface Card (NIC)