

broadcast & IP > compliance • recording • multiviewer • monitoring software - under your control - local or in the cloud

# **IP Multiviewer Up to 64 HD sources per screen**

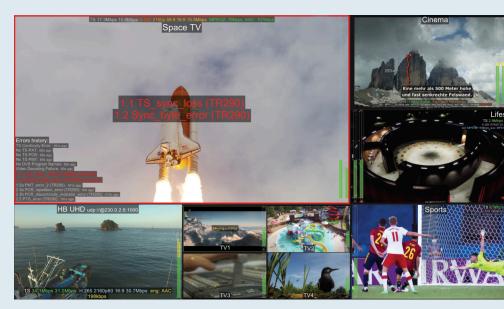
- O Up to 128 video sources on a single system
- O HDMI/DP and IP outputs with audio

Modern, light and fast software solution to display any number of channels in a mosaic on one or multiple physical and virtual HD/4K screens

Runs on standard Windows platforms with NVIDIA GPUs, scalable to thousands of sources mixing IP and SDI inputs. Supports any MPEG-TS source, SRT, HLS/DASH/RTSP/RTMP, NDI® and SDI - all audio and video codecs up to H.265 4K/UHD. Outputs with audio over HDMI/DP or IP - low latency browser playback, MPEG-TS, SRT and NDI®. Flexible display layout with visual, audible and remote alarms for all vital parameters. Display of subtitles, CC and SCTE35. Optional advanced monitoring for MPEG-TS and HLS.

Designed for remote work - with full quality low-latency IP output to web browser, web management and optional cloud support.

IP Multiviewer combined with IPMV Enterprise enables broadcasters and TV platforms to create a software based MCR running on Windows OS servers - standalone, virtualized or in the cloud.



- O Software based video and audio multiviewer, light and fast
- O Works on generic servers or PCs with NVIDIA GPUs (Quadro or GTX, starting with Pascal architecture)
- O Supports large installations hundreds of sources with integrated single-screen monitoring and alarms
- O Native IP support, ASI supported over gateway
- Multi display support, up to 64 HD or 16 UHD per screen, up to 6 screens per machine + IP outputs
- O Support for multiple virtual displays with IP output
- O Live broadcast of low-delay, full quality output streams to web browser (with audio), MPEG-TS UDP/SRT (H.264 or H.265, with audio) and to NDI®
- 4K/UHD display support
- O Video codecs: AVC/H.264, HEVC/H.265, MPEG2
- O Audio codecs: AC3, AAC, AAC+, MPEG 1/2, E-AC3
- O IP Inputs: MPEG-TS over UDP/RTP/SRT, HLS, MPEG-DASH, RTMP, RTSP, NDI
- O IP Inputs Audio only: MPEG-TS over UDP/RTP/ SRT, HLS, MPEG-DASH, RTMP, RTSP, Shoutcast/Icecast

- O Inputs: SDI (up to 3G) and HDMI sources using DeckLink cards - up to 24 inputs per machine
- O Video outputs with embedded audio: MPEG-TS UDP/SRT, MSE to browser, HDMI/DP; video-only: NDI®
- O Display of 2.0 and 5.1 audio levels/loudness, DVB Subtitles (concurrent multiple languages), Teletext, EIA 708 CC, SCTE35 data
- O Flexible layout, visual stats and alarms
- O Live audio selection with web control and optional mixing engine
- Basic monitoring: input loss/transport degradation, basic MPEG-TS structure, video freeze or black/blue frame, audio below or above given levels, missing subtitles, missing SCTE35, PID traffic
- O Advanced monitoring & reporting: MPEG-TS (TR 101 290, 1/2/3) and HLS - all profiles
- O Alarms: visual, audible/TTS, SNMP, SMTP, logs, database - with flexible conditions
- O Automatic archiving of MPEG-TS file on detected error or event
- O Web preview and management
- Digital and analog clocks
- Enterprise edition with centralized monitoring

## **Stirlitz Media IP Multiviewer Enterprise**

- Single screen NOC operator interface (desktop app & web)
- O TS Monitor: Advanced monitoring for MPEG-TS in IP Multiviewer
- HLS Monitor: Advanced monitoring for HLS in IP Multiviewer

**IP Multiviewer Enterprise** is a software based MCR offering comprehensive live monitoring for satellite, cable, terrestrial and OTT. It enables broadcasters and operators to create a software based Master Control Room running on Windows OS servers - standalone or virtualized.

It displays and monitors all vital parameters of any number of MPEG-TS (SPTS/MPTS) and OTT feeds, from quality of delivery, through all elements of the stream, up to quality of metadata delivery – like subtitles or SCTE35. Includes a **single screen interface** for the NOC operator providing alarms from all sources - local and in remote locations.

The TS Monitor and HLS Monitor modules add advanced monitoring for DVB broadcast, including TR 101 290 checks; and advanced monitoring for all HLS profiles

#### O Single NOC operator interface

- >all active and recent alarms from IPMV with audible and visual alarms and video preview
- O Thousands of streams within a single system
- O Audible (including TTS) and visual signaling
- Flexible alarms sent through:
  - > visual and audible alerts (including text-to-speech)
    > SNMP, e-mail
  - >SQL database with reporting interface
  - >web API, logs
  - >visualized in central management console
- O Video: freeze, black/blue detection; decoding errors
- Audio: levels below/above configured;
  2.0/5.1 mismatch, decoding errors

#### O TS Monitor

- >full DVB streams support (SPTS and MPTS)
- >all parameters TR 101 290, levels 1, 2 & 3
- >MPEG-TS structure
- >delivery, packet loss, delay, invalid or corrupted packets
- >metadata delivery including DVB subtitles and SCTE35

#### O HLS Monitor

- > playlist verification for all profiles
- >audio and video verification for all profiles
- >including segments structure, timecodes and codecs
- >delivery verification and logging of all events



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