

stirlitz

MEDIA SOFTWARE

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

IP Multiviewer

- Up to 128 stations on a single system
- Up to 64 HD stations per screen
- HDMI/DP and IP outputs - now 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.



- Software based video multiviewer, light and fast
- Works on generic servers or PCs with NVIDIA GPUs (Quadro or GTX, starting with Pascal architecture)
- Supports large installations – hundreds of sources with integrated single-screen monitoring and alarms
- Native IP support, ASI supported over gateway
- Multi display support, up to 64 HD or 16 UHD per screen, up to 6 HDMI/DP screens per machine
- Flexible layout, visual stats and alarms
- Support for multiple virtual displays with IP output and embedded audio
- Live broadcast of low-delay, full quality output to NDI® web browser, MPEG-TS (H.264 or H.265) - UDP and SRT
- 4K/UHD display support
- Video codecs: AVC/H.264, HEVC/H.265, MPEG2
- Audio codecs: AC3, AAC, AAC+, MPEG 1/2, E-AC3
- IP Inputs: MPEG-TS over UDP/RTP/SRT, HLS, MPEG-DASH, RTMP, RTSP, NDI
- Outputs: MPEG-TS UDP/SRT, MSE to browser, NDI®, HDMI/DP
- Display of 2.0 and 5.1 audio levels/loudness, DVB Subtitles (concurrent multiple languages), Teletext, EIA 708 CC, SCTE35 data
- SDI (up to 3G) and HDMI sources using DeckLink cards – up to 24 inputs per machine
- 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
- Advanced monitoring & reporting: MPEG-TS (TR 101 290, 1/2/3) and HLS
- Alarms: visual, audible/TTS, SNMP, SMTP, logs, database - with flexible conditions
- Automatic archiving of MPEG-TS file on detected error or event
- Web preview and management
- Enterprise edition with centralized monitoring

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IP Multiviewer Enterprise

Software based MCR - standalone, virtualized or in the cloud

Single NOC operator interface with all active and recent alarms

Advanced MPEG-TS/DVB and HLS monitoring, scalable up to thousands of sources

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/SRT) 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.



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

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

Contact Stirlitz Media:

Stirlitz Media sp. z o.o.
President: Greg Podsiadlo
International: Cesco van Gool

Tel: +48 22 389 7642
Email: info@StirlitzMedia.com



www.stirlitzmedia.com