StreamScope®

CALM Monitors
Audio loudness monitoring

Triveni Digital's StreamScope® RM-40 CALM is a low-cost DTV loudness monitor that remotely monitors, measures, records, and analyzes DTV streams to ensure their compliance with the U.S. government's Commercial Advertisement Loudness Mitigation (CALM) Act.

The compact 1-RU device measures audio loudness in real time for multiple transport streams and services at any TV station or network node location. Through an intuitive user interface, station engineers can review loudness levels and dialnorm ranges for all audio streams, as well as set loudness thresholds to trigger alerts, review audio graphs, and analyze log files.

Dynamic reporting and spot checks

The StreamScope RM-40 CALM delivers a daily report that accurately identifies possible CALM violations for all services on a given transport, including IP, ASI, 8VSB, and QAM. Potential CALM violations are identified and displayed with thumbnails and timestamps to verify whether commercial content was present during the time of the potential violation.

Real-time alarming

The StreamScope RM-40 CALM also features extensive alarming functionality that sends traps, SMS, emails, or reports to station engineers, so they can quickly address the issue at hand. Potential errors are flagged and logged, so engineers can perform postmortem analysis as well as resolve chronic or network wide issues.

Loudness compliance helps customer retention

The StreamScope RM-40 CALM maximizes customer satisfaction for any broadcaster, cable, telco, satellite, mobile TV, and IPTV operator, leading to customer retention and, in turn, increased revenue. Poor audio variation in television programming increases the number of viewer complaints and dissatisfaction with a service provider, creating churn. By reducing the number of audio loudness level issues within televised programming, service providers can retain current subscribers as well as extend their customer base.

BENEFITS

- Fully BS.1770 compliant
- Easy 24-hour spot checks
- Thumbnails for violation reports
- Dynamic report generation and Golden Rule capabilities
- Real-time monitoring
- Intuitive graphical user interface
- Support for IP, ASI and RF options
- Alarms via SMS, SNMP, and email
- Based on proven StreamScope RM-40 software
- Connection to MT-40 for in-depth analysis
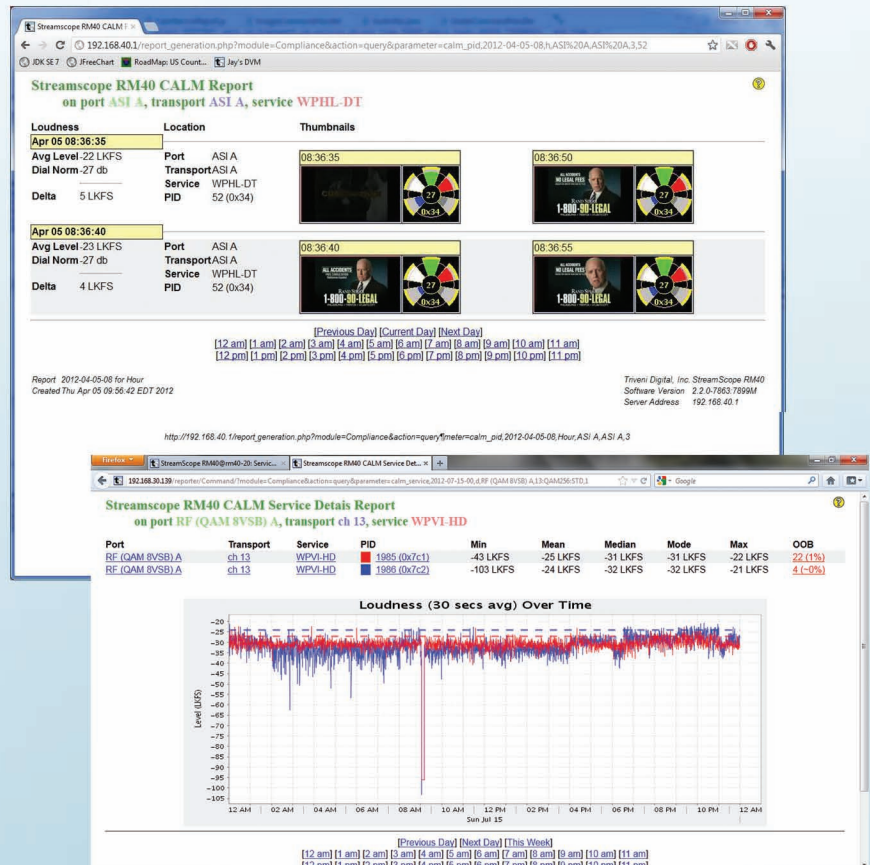- Integrated into EM-40 Enterprise Monitor

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triveni DIGITAL

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KEY FEATURES

- Fully BS.1770 compliant
- Easy 24-hour spot checks
- Thumbnails for violation reports
- Dynamic report generation and Golden Rule capabilities
- Real-time monitoring
- Intuitive graphical user interface
- Support for IP, ASI and RF options
- Alarms via SMS, SNMP, and email
- Based on proven StreamScope RM-40 software
- Connection to MT-40 for in-depth analysis
- Integrated into EM-40 Enterprise Monitor
- Shows "potential" CALM violations information for a selected service
- Displays thumbnails during "potential" CALM violation to verify commercial content present or not
- Displays timestamp to determine whether commercial content present or not

StreamScope RM-40 CALM Specifications

RM-40 CALM
1RU rack-mountable chassis
Linux operating system
~12 HD MPEG2 audio programs simultaneously
One card option
RF, ASI and nrt-GigE options
100-240 V, 50-60 Hz, 4.2-1.8 Amp
1.7"(H) x 17.2" (W) x 14.5" (D)
Gross weight: 18 lbs.

RM-40 Ultra CALM
1RU rack-mountable chassis
Linux operating system
~50 HD MPEG2 audio programs simultaneously
2 card slots
Single or Quad ASI and nrt-GigE options
100-240 VAC @ 50-60 Hz, 5-10A AC
1.7"(H) x 19"(W) x 30.39 "(D)
Gross weight: 39 lbs.

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