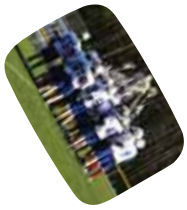
Cost effective A/V content logging, QoE monitoring and troubleshooting

With intense industry competition, broadcasters, networks, cable and IPTV operators are all trying to raise service offerings, reduce troubleshooting time and maximize quality of experience (QoE). Network and organizational handoffs, manipulating and transporting digital video, both require proactive monitoring as well as quick, effective troubleshooting of A/V service issues. While many operators have deployed consumer grade remote video streaming solutions to troubleshoot, operators are typically stymied by the lack of enterprise features making such systems difficult to manage and short on utility.

Observer Scout is the perfect solution to solving these issues. With proactive A/V QoE content monitoring & alerting, plus remote streaming of live or historical content, operators can now become proactive and detect problems before customers complain. With continuous local A/V logging, Scout enables quick troubleshooting of chronic or intermittent issues, eliminating costly "no trouble found" events and wasted technician dispatch calls. With multi-user, content export, central element management, and single sign-on capabilities, operators can more effectively access, share and manage a probe system.

Volicon Observer™ Scout



Key Benefits:

- **Identify issues before your customers do**
- **Raise service levels and availability**
- **Quickly isolate fault locations**
- **Eliminate costly chronic troubleshooting**
- **Monitor to the edge of the network**

Key Features:

- **24x7 local logging** of all A/V content for up to 3 days
- **A/V QoE monitoring and alerting** (SNMP, email)
- **Web Streaming** of live or historical content
- **Logging at up to 30 frames per second** for frame level visibility
- **Multi-users and streams per probe**
- **Content bookmarking**, export and forwarding

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Observer™ Scout

Required Modules:

Obs-CS
Observer Central Server enables central probe configuration, single sign-on web server, centralized fault database alarm management, and probe health monitoring.

HW Modules:

Obs-STB
Includes virtual remote control using IR emitter and STB mounting shelf that provides optical isolation and enables reliable IR/STB operation.

SW Modules:

Obs-Scout-QoE:
Proactive A/V content monitoring content for static screen, black screen, closed captions/teletext, and audio level violations.

Obs-Scout-Scan:
Channel lineup, managed in the central server to enable scanning of a large number of channels for QoE. (Requires Obs-Scout-QoE option and Obs-STB).

Obs-Scout-VPN:
IPSec VPN client that enables the scout to be securely deployed over public IP infrastructure. This option must be paired with a compatible VPN gateway.

Key Use Cases:

- Monitor station or network ingress feeds
- Monitor pay-TV station handoffs
- Edge of network monitoring for Cable and IPTV

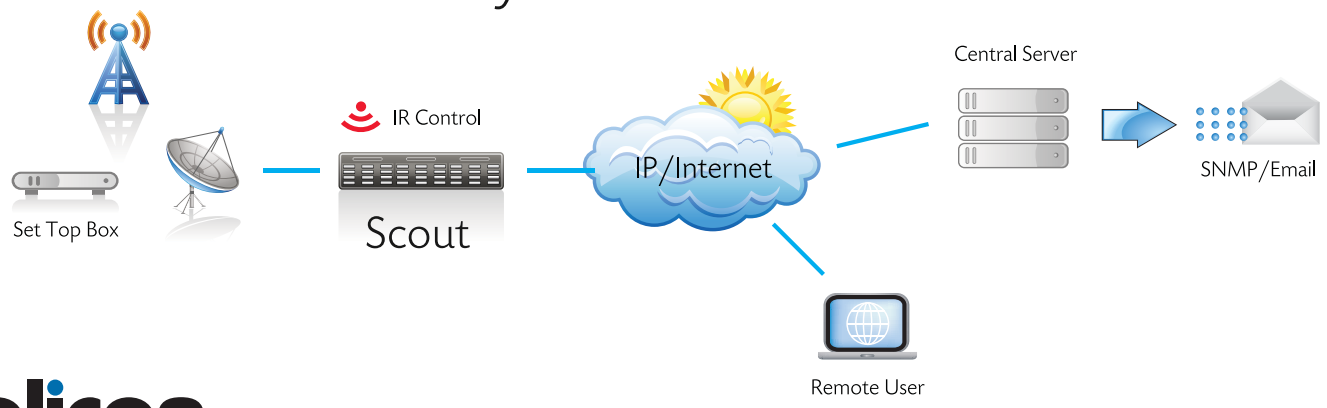
Scout HW:

- 1RU, 19" width, 20" deep single A/V input
- SD or HD (option) input A/V
- Composite, S-Video, Component and HDMI
- Enterprise solid state video storage
- IPMI 2.0 Lights-out Management (LOM)
- Dual 10/100 Network Interfaces

OBSERVER Scout Specifications

Feature	Model: Scout-SD	Model: Scout-HD
Inputs	1 SD	1 HD/SD
Maximum Input Resolution	720x576	1920x1080 (1080i60)
Maximum Stream Resolution	320x240	800x450
Operating Temperature	10°C-35°C	10°C-35°C
19" Rackmount Chassis Depth	<20"/51cm	<20"/51cm
Storage of continuous logged video	40GB/3 days of SD	80GB/3 days of HD
Power Requirement (100V-240V)	280W	280W

Scout System Architecture



Volicon

Volicon, Inc. 111 South Bedford St., Burlington, MA 01803
Tel: +1 781 221 7400 Fax: +1 781 221 7407
Web: www.volicon.com E-mail: info@volicon.com

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