



## Applications

- Monitoring radio programs end-to-end
- Compliance recording

## Protocols

- Icecast, HLS, MPEG-DASH
- MPEG-2 Transport Stream
- EDI (ETI and STI-D)
- RAVENNA/AES67

## Features

- Web-based Control Room Views with Peak Level Meters and Graphs
- Easy-to-use graphical view editor
- Multi-Input Recording
- Live Listening in the Web Browser

## The multi-standard audio monitoring system.

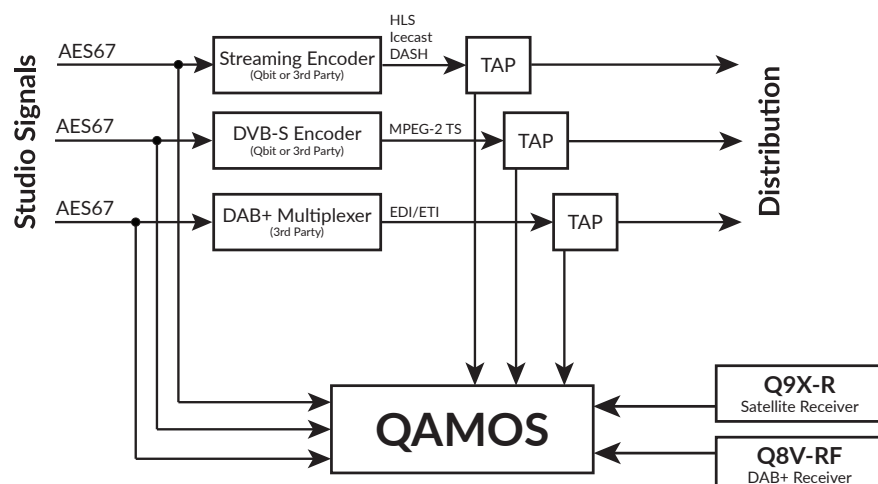
The QAMOS multi-standard audio monitoring system is the solution to monitor your radio programs end-to-end, from the studio signal in RAVENNA/AES67 format, via the Encoder outputs to the downlink monitoring.

For each input signal, the audio level as well as protocol-specific metrics are monitored. The current audio level as well as some of the metrics may be displayed on web browser based control room views. Up to 100 peak meters may be rendered in one view with real-time display.

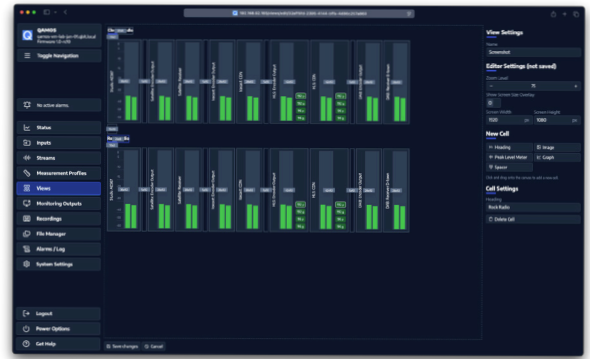
The control room views may be configured using an easy-to-use graphical editor, where elements can be put onto the canvas using drag-and-drop.

The rock-solid Qbit software platform comes with an advanced user management and security features such as an integrated firewall and HTTPS support for the Web UI.

## Example application



## Specifications



### Input Protocols

- Icecast
- HLS (as per RFC 8216bis)
- MPEG-DASH (as per ISO 23009-3)

MPEG-2 Transport Stream

EDI (as per ETSI TS 102 693)

RAVENNA, Livewire+™, AES67, ST2110-30/-31 compliant (with ST2022-7 Redundancy Support)

### Supported Measurements

Audio Peak Level

Audio Loudness (as per EBU R 128, Global Integrated, Momentary, Short-Term, True Peak)

MPEG-2 Transport Stream Measurements (as per ETSI TR 101 290)

IP Metrics (Jitter, IAT, etc.)

Others available on request

### Control Room Views

Web-based control room views

Up to 100 peak meters in one view

10+ users may access a single view at once

Easy-to-use graphical editor using drag-and-drop

Graphs for protocol and system metrics

### Alarming

Visual and audible alarms using the web-based control room view

SNMPv2 Traps and Web Hooks for external alarming

User-configurable thresholds and alarm profiles

### Networking

Roles can be freely assigned to any of the interfaces

Isolation of all networks by integrated firewall

### System Configuration, Control and Monitoring

HTML5 Web UI

Remote Control

REST API

### System Requirements

The system requirements depend on the number of monitored audio streams. The given specifications should allow for up to 50 streams.

Installation Options

- Qbit Hardware Appliance
- Bare-metal (COTS server)
- Virtual Machine
  - Kubernetes deployment

CPU

Modern Intel(R) or AMD(R) CPU with support for the SSE2 and AVX instruction sets. At least 4 cores are recommended.

Memory

8 GB

Disk

16 GB (for the OS, more disk space is needed for recordings)

OS

Custom Linux system, supplied by Qbit

Legend:

• Default

○ Optional