



DVStation: Advanced Monitoring for Digital Networks

## Audio Monitor Module

The Audio Monitor Module (AMM) provides real-time evaluation and analysis of audio signals embedded within a serial digital interface (SDI). Four of the sixteen audio channels with the SDI interface can be selected for display. Individual alarms can be set on each parameter allowing you to be notified of problems when and where you choose.

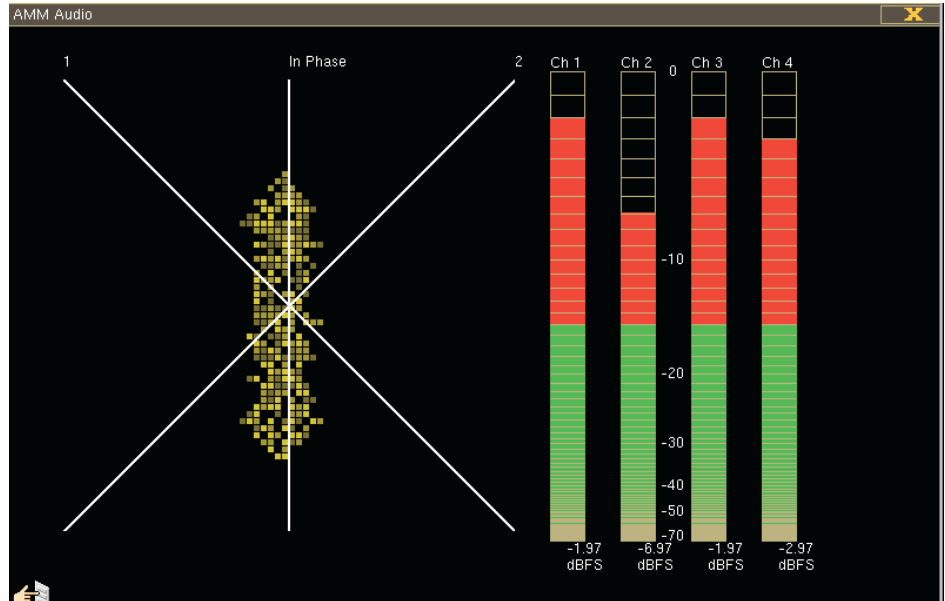
### KEY FEATURES

- Real-time audio signal analysis
- Audio impairment detection of silence, over peak, L-R phase mismatch
- Four channel audio VU meter
- Simultaneous Audio Phase Display of L-R
- Programmable alarm thresholds for mute, peak, and signal loss
- User definable hold off period
- HTML, VNC, X- Window, SNMP and CORBA Remote Control

### APPLICATIONS

The AMM can be used alone or in conjunction with other DVStation modules to provide flexible solutions for fault isolation and performance monitoring.

For example, an audio problem detected by the AMM could trigger other DVStation modules to record a snapshot of other signals at several upstream locations. This provides you with a full view of your network enabling problems to be quickly located.



### AUDIO dBFS METER

The audio meter presents the amplitude levels of four user-selected channels within the SDI interface. Mute and other peak alarm thresholds can be set for each channel.

### AUDIO PHASE DISPLAY

Audio Phase display depicts the phase relationship between any two audio streams within the SDI interface. Results are displayed in real-time allowing you to quickly identify whether audio channels are in-phase or out-of-phase.

### ALARMS

Thresholds can be independently set on any of the AMM's parameters:

- Audio mute level threshold
- Audio clips or over peak level threshold
- Hold off time for Audio below mute threshold
- Hold off time for Audio above clip threshold
- Loss of signal



## SPECIFICATIONS

### Input Signal Format

- 270 Mb/s serial component digital video
- ITU-R BT 601, BT.656, SMPTE 259M
- Embedded audio over SDI, SMPTE 272M

### Impairment Detection

- Audio Mute
- Audio Signal Loss
- Audio over peak

### User Parameters

- Audio mute and peak level threshold
- Hold off time for mute and peak level threshold
- Loss of signal

## IDEAL COMPANION TO QMM

The AMM is the ideal companion to the DVStation QMM – Quality Monitor Module. Equipped with a single SDI input, the QMM is a Single-ended, real-time Picture Quality Monitor Module for the DVStation family. It provides real-time evaluation of video compression quality. Impairments such as MPEG block noise, black out and freeze frame are quickly identified allowing corrective action to be taken. Individual alarms can be set on each parameter allowing you to be notified of problems when and where you choose.

Web-based Controller  
 Embedded Processor  
[View Software Report](#)

Displaying 1-7 of 7 log entries

### DVStation Error Log (log:20030213.1)

Time	Time	Source	Priority	Code	Message
18:24:18.000	08:24:18.000+0:00	OS	Info	0010	CPU Process ID 13601 (C#Many) started
18:26:01.251	08:26:01.251+0:00	01	HBO	E 2008	Audio Mute detected on channel 2
18:23:21.880	08:23:21.880+0:00	01	HBO	E 2008	Audio Mute detected on channel 1
18:23:28.876	08:23:28.876+0:00	01	HBO	E 2011	Audio Mute cleared on channel 2
18:23:34.314	08:23:34.314+0:00	01	HBO	I 2011	Audio Mute cleared on channel 1
18:26:12.129	08:26:12.129+0:00	01	HBO	E 2010	Audio Clip detected on channel 3
18:27:02.759	08:27:02.759+0:00	01	HBO	I 2012	Audio Clip cleared on channel 3

Summary Report



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