DVRAS : D-Mitri VRAS

thinking sound   Meyer Sound®
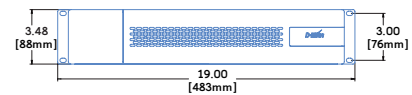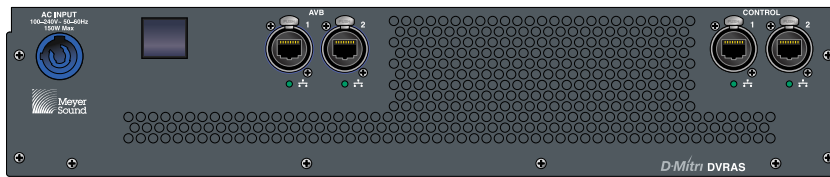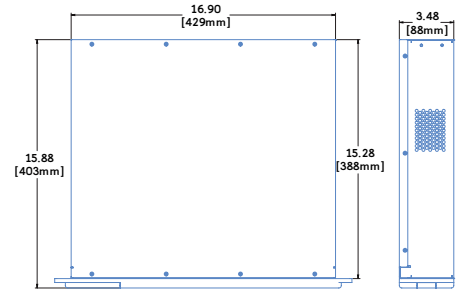

The DVRAS is a 2U rackmountable processing module for use in Constellation® acoustic systems built on the D-Mitri digital audio platform. The DVRAS module provides input channel and VRAS (Variable Room Acoustic System) processing for up to 16 microphones and 16 return channels in one zone of a Constellation system. The module also contains SSD storage for measurement data and audio files used in system verification.

D-Mitri is a sophisticated digital audio platform which is the basis for a family of powerful modules aimed at providing comprehensive audio processing, matrix mixing and routing for a variety of professional audio applications, including theatrical and spectacle productions, theme parks, and active acoustics. D-Mitri systems feature an extremely flexible and highly programmable control scheme that can be customized by the user via the Python scripting language and Open Sound Control real-time protocol (both open-source tools) to accomplish even the most complex tasks. D-Mitri modules communicate using the Ethernet/AVB standard, which provides guaranteed QoS (quality of service) and very low-latency.

Selections of D-Mitri modules can be assembled to provide nearly any configuration of digital or analog inputs and outputs and channels of processing.

Constellation electroacoustic architecture is a highly integrated hardware/software system built on D-Mitri that combines the natural acoustics of a space with powerful technology to create acoustics with natural characteristics, the aural qualities of the world's best rooms, and broad flexibility. The DVRAS module is intended exclusively for use in D-Mitri Constellation systems and executes the high-quality processing algorithms used in electroacoustic architecture. It additionally supplies equalization, dynamics processing, and delay for each input channel.

The DVRAS module sends and receives all audio over D-Mitri's AVB-enabled Ethernet network. The DVRAS has two additional redundant Ethernet ports for connecting to a separate control network, to receive communication from CueStation software or an external hardware controller.

FEATURES & BENEFITS

- Provides high-quality VRAS processing for up to 16 input and 16 output channels in a D-Mitri Constellation system
- Supplies channel processing for each input
- VRAS processing controlled by CueStation software
- Processes streams of up to 32 bits of resolution at a 96 kHz sample rate
- Sends and receives audio to and from D-Mitri's Ethernet/AVB network
- Redundant control ports
- Additional redundant AVB port

PRELIMINARY SPECIFICATIONS

DIGITAL AUDIO AND CONTROL

Network	Two AVB-enabled Ethernet ports for connection to D-Mitri system
Software Control	Full bidirectional communication with D-Mitri processors for control by CueStation software within a client-server architecture
Control Connections	Two Ethernet control ports for control by CueStation software and/or hardware controllers.

AC POWER

Connector	PowerCon®
Operating Voltage Range	100–240 V AC, 50–60 Hz
Power Consumption	150 W maximum

PHYSICAL

Dimensions	Two rack spaces 19" w x 3.5" h x 15.9" d (483 mm x 89 mm x 404 mm)
Weight	20 lbs

NOTES

System requirements	D-Mitri requires a Gigabit Ethernet infrastructure
Cabling	Cat-5e or Cat-6