

SECTION 27 41 16
INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

Equipment Specified in this section:

AMP-8075

AMP-8150

AMPi-8075

AMPi-8150

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SECTION 27 41 16 INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

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PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. Multi-channel Audio Amplifiers

PART 2 PRODUCTS

2.1 AUDIO AMPLIFIERS

Specifier Note:

AMPLIFIER TYPES

AMPLIFIER TYPE 1 – Crestron AMP-8075

AMPLIFIER TYPE 2 – Crestron AMP-8150

AMPLIFIER TYPE 3 – Crestron AMPi-8075

AMPLIFIER TYPE 4 – Crestron AMPi-8150

- A. Multi-Channel Audio Amplifier Series
 - 1. The Audio Amplifier Audio will be purpose built for professional use.
 - 2. Each Amplifier shall include advance audio controls to service low impedance and high impedance speaker configurations.
 - 3. Amplifier Type 1 and 3 shall deliver a maximum 75 watts per channel, low or high impedance
 - 4. Amplifier Type 2 and 4 shall deliver a maximum 150 watts per channel, low or high impedance
 - 5. All models shall have an input sensitivity of 1.29V, +4dBu balanced for the rated power
- B. Physical
 - 1. The amplifier shall be in a 1RU EIA standard enclosure for rack mounting
 - 2. Unit depth shall be 14.35 inches, 365mm
 - 3. The internal fan cooling shall provide side-to-side airflow
 - 4. The amplifier shall have a front panel bi-color LED to indicate unit status
 - a. Connection to AC mains

- b. Connection to a LAN.
 - 5. The amplifier shall have front panel LED status indicators
 - a. Fault
 - b. Over Current
 - c. DC
 - d. Thermal
 - e. High impedance output selected
 - 6. The amplifier shall have a series of front panel LED output indicators
 - a. Indicating signal Clip
 - b. Indicating signal level of -40dB, -30dB, -20dB, -10dB
 - 7. The front panel Reset shall return the unit to the last saved configuration
 - 8. The rear panel LAN connector shall provide network communications
 - 9. The rear panel attenuators shall control the 8 analog outputs
 - 10. Rear support brackets shall be provided for rack attachment
 - 11. The amplifier shall include a Universal Power Supply
 - a. Operational 50-60Hz, 100-240VAC.
- C. Communications
- 1. The amplifier shall be configured, monitored and controlled by the Amplifier software tool.
 - 2. The Amplifier software tool shall allow multiple amplifier instances to be active on a common network.
 - 3. Remote communications with the amplifier software tool and Touch Panels by same manufacturer will be via standard Ethernet.
 - a. The amplifier shall support: 10/100/1000 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, SSH, SFTP (SSH File Transfer Protocol)
 - 4. The amplifier shall provide a local Universal Serial Bus (USB) console port connection on a standard USB-B type connector.
- D. Audio I/O
- 1. Amplifiers Type 1, 2, 3 and 4
 - a. Each model shall provide 8 balanced input connections, line level
 - b. Each model shall provide 8 speaker level output connections
 - 2. Amplifier Type 1 and 2
 - a. The amplifier shall provide 70V high impedance outputs for distributed speaker systems.
 - b. High impedance outputs shall be direct coupled.
 - c. High impedance mode selection shall be available in the Amplifier software tool.

- d. A front panel indicator LED shall illuminate when in high impedance mode.
 - 3. Amplifier Type 3 and 4
 - a. The amplifier shall provide 100V high impedance outputs for distributed speaker systems
 - b. High impedance outputs shall be direct coupled
 - c. High impedance mode selection shall be available in the Amplifier software tool
 - d. A front panel indicator LED shall illuminate when in high impedance mode
- E. Audio Configuration
 - 1. The amplifier object in the Amplifier software tool shall be configurable for instant audio delivery.
 - 2. The Amplifier software tool presets shall recall any system configuration
 - 3. The Amplifier software tool views shall recall any system control screen configuration
 - 4. The amplifier object in the software tool shall provide:
 - a. Stereo grouping of adjacent channel pairs
 - b. Bridging of adjacent channel pairs
 - c. Output level control
 - d. Mute
 - e. Status indicators for Clip, DC Protect, Over Current & Thermal events
- F. User Interface Export
 - 1. Graphic control elements including digital attenuators and VU meters shall be user selectable and exportable directly from the amplifier software tool.
 - 2. The User Interface Export file shall enable the building of touch panels with a drag and drop process.
- G. Warranty
- H. The product warranty shall be 3 years.

PART 3 NOT USED

END OF SECTION 27 41 16