SECTION 27 41 16

INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

Equipment Specified in this section:

AMP-8075

AMP-8150

AMPi-8075

AMPi-8150

Table of Contents

PART 1 GENERAL 3

1.1 SUMMARY 3

A. Section Includes 3

PART 2 PRODUCTS 3

2.1 AUDIO AMPLIFIERS 3

A. Multi-Channel Audio Amplifier Series 3

B. Physical 3

C. Communications 4

D. Audio I/O 4

E. Audio Configuration 5

F. User Interface Export 5

G. Warranty 5

H. The product warranty shall be 3 years. 5

PART 3 NOT USED 5

END OF SECTION 27 41 16 5

SECTION 27 41 16

INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

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1. GENERAL
   1. SUMMARY
      1. Section Includes
         1. Multi-channel Audio Amplifiers
2. PRODUCTS
   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

* + 1. 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
    2. 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
          1. Connection to AC mains
          2. Connection to a LAN.
       5. The amplifier shall have front panel LED status indicators
          1. Fault
          2. Over Current
          3. DC
          4. Thermal
          5. High impedance output selected
       6. The amplifier shall have a series of front panel LED output indicators
          1. Indicating signal Clip
          2. 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
           1. Operational 50-60Hz, 100-240VAC.
    3. 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.
          1. 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.
    4. Audio I/O
       1. Amplifiers Type 1, 2, 3 and 4
          1. Each model shall provide 8 balanced input connections, line level
          2. Each model shall provide 8 speaker level output connections
       2. Amplifier Type 1 and 2
          1. The amplifier shall provide 70V high impedance outputs for distributed speaker systems.
          2. High impedance outputs shall be direct coupled.
          3. High impedance mode selection shall be available in the Amplifier software tool.
          4. A front panel indicator LED shall illuminate when in high impedance mode.
       3. Amplifier Type 3 and 4
          1. The amplifier shall provide 100V high impedance outputs for distributed speaker systems
          2. High impedance outputs shall be direct coupled
          3. High impedance mode selection shall be available in the Amplifier software tool
          4. A front panel indicator LED shall illuminate when in high impedance mode
    5. 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:
          1. Stereo grouping of adjacent channel pairs
          2. Bridging of adjacent channel pairs
          3. Output level control
          4. Mute
          5. Status indicators for Clip, DC Protect, Over Current & Thermal events
    6. 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.
    7. Warranty
    8. The product warranty shall be 3 years.

1. NOT USED

END OF SECTION 27 41 16