

QM-MD-8x8**SECTION XXXXX -MEDIA DISTRIBUTION SPECIFICATION****PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to work of this Section.

1.2 SUMMARY

- A. This Specification, in conjunction with the Drawings, establishes the requirements necessary to achieve the intended performance, installation and functions of the Media Distribution System.
- B. Provide the services necessary to furnish, install, train, and to provide maintenance support for the Media Distribution System including all required peripheral apparatus conforming to acceptable industry standards. All work shall be in accordance with the true intent of these Drawings and Specifications, and as required to leave the Room Media Controller complete and in satisfactory operating condition.
- C. Verify dimensions and conditions at the job site prior to installation, and perform installation in accordance with these Specifications, Manufacturers recommendations and the latest edition or revision of all applicable codes and standards.
- D. The Media Matrix Switcher shall include providing and integrating the following principal systems:
 - 1. Audio/Video Switching and distribution
 - 2. Audio/Video breakaway
 - 3. Front Panel controls -lock out via control system if desired
 - 4. Ethernet and e-Control Support. Via Control System
 - 5. RoomView and SNMP support. Via Control System
 - 6. Room Control Processor. Via Control System

1.3 CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS

- A. It is intended that any contractor furnishing materials and/or labor necessary for the completion of this specification shall furnish it in compliance with this specification. Where conflict exists with other specifications concerning such materials and labor, this specification takes precedence unless otherwise approved in writing by the Engineer.
- B. Drawings pertaining to this specification shall be considered as a part of said specification and shall be a part of the bid documents.

1.4 REQUIREMENTS OF REGULATORY AGENCIES

- A. The system shall be registered under the most current applicable rulings of the Federal Communications Commission (FCC). Provide the FCC registration number with the equipment submittal. All components and installations shall bear an Underwriters' Laboratories (UL) listing and shall conform with the latest edition or revision of the following codes and standards were required:
 - 1. ANSI - American National Standards Institute

2. ASTM - American Society for Testing and Materials
3. BICSI - Building Industry Consulting Services International
4. EIA - Electronics Industries Association
5. FCC - Federal Communications Commission
6. ICEA - Insulated Cable Engineers Association
7. IEEE - Institute of Electrical and Electronics Engineers
8. ISO - International Organization for Standardization
9. NEC - National Electrical Code
10. NEMA - National Electrical Manufacturer's Association
11. NFPA - National Fire Protection Association.
12. TIA - Telecommunications Industry Association
13. UL - Underwriters Laboratories, Inc.

- B. The code or standard establishing the more stringent requirements shall be followed where areas of conflict occur between codes and standards or between codes and standards and Drawings and Specifications.

1.5 SHOP DRAWINGS

- A. Shop Drawings: Within Seven (7) calendar days after award of contract, submit detailed shop drawings to the Engineer for approval. Do not begin installation or fabrication without such approval. All shop drawings shall be marked with the pertaining specification paragraph or drawing number when submitted.
- B. Shop drawings shall be provided clearly depicting any proposed modification to the project drawings. Any modifications shall be highlighted on the shop drawings.
- C. Shop drawings shall be provided indicating proposed mounting arrangements and details of all equipment, including positioning devices, framework supports and interface with adjacent architecture.

1.6 JOB CONDITIONS

- A. Keep the job adequately staffed at all times. Unless illness, loss of personnel or other circumstances beyond the control of the contractor, maintain the same individual in charge throughout.
- B. Cooperate with all appropriate parties in order to achieve well-coordinated progress with the overall construction completion schedule and satisfactory final results.
- C. Watch for conflicts with work of other contractors on the job and execute, without claim for extra payment, moderate moves or changes as are necessary to accommodate other equipment or to preserve symmetry and aesthetically pleasing appearance.
- D. Immediately report to the Engineer any design or installation irregularities, particularly architectural elements that interfere with the intended coverage angles of loudspeakers and projectors, so that appropriate action may be taken.
- E. Do all cutting, patching and painting necessary for proper and finished installation of the system and repair any damage done as a result of such installation. Cleanup and dispose of trash from all work areas.

1.7 QUALITY ASSURANCE

- A. All materials shall be new and shall conform to applicable provisions of Underwriters Laboratories and the American Standards Association.
- B. Procure and pay for all necessary permits, licenses and inspections and observe any requirements stipulated therein. Conform in all trades with all local regulations and codes.
- C. Comply with federal, state and local labor regulations and applicable union regulations.

PRODUCTS

2.1 MEDIA DISTRIBUTION SYSTEM

- A. The room Media Distribution shall consist of a media controller system, media receiver, media matrix switcher and media transmitter

2.2 MEDIA DISTRIBUTION MATIX SWITCHER

- D. Provide and install as indicated on the drawing a Media Matrix Switcher.
- E. The Media Distribution Matrix Switcher shall be an integrated A/V control technology solution and shall incorporate the following five (5) principal devices into a single integrated housing.
 - 1. 8x8 Audio/ Video switcher
 - 2. Audio breakaway
 - 3. Control System network distribution
 - 4. Front Panel control available
 - 5. Local control or control system integration

2.4 VIDEO Outputs

- F. The Video outputs shall be equipped with 16 Cat 5 output connectors 8 Inputs and 8 Outputs. Inputs and Outputs shall feature RJ-45 connections.
 - 1. Media Input
 - a. Quick Media Input :
 - 1) Eight (8) RJ-45 female.
 - 2. Media Output
 - a. Quick Media Output :
 - 1) Eight (8) RJ-45 female.

2.6 MEDIA MATRIX SWITCHER

Provide and install as indicated on the drawing a media matrix switcher

- G. Media matrix switcher shall receive, to one of eight (8) inputs via a single CAT 5 cable audio and video signal from transmitter(s).
- H. Media matrix switcher shall convey, to one of eight (8) outputs, via a single CAT 5 cable audio and video signal to the receiver.
- I. The media matrix switcher shall be an integrated technology solution and shall incorporate the following principals devices into a single integrated housing.
- J. Media matrix switcher shall transmit computer resolutions up to 1920x1200 at 60Hz up to 450ft
- K. Switcher shall be equipped with the following connectivity on the rear panel:
 - a. 1) Eight (8) RJ-45 CAT 5 female inputs connectors
 - b. 2) Eight (8) RJ-45 CAT 5 female output connectors
 - c. 3) Eight (8) 4pin 3.5mm detachable terminal blocks on input side for Cresnet
 - d. 4) Eight (8) 4pin 3.5mm detachable terminal blocks on output side for Cresnet
 - e. 4) One (1) 4 pin 5mm detachable terminal block for connection to Crestron control system via Cresnet
 - f. 5) Four (4) 2 pin 5mm detachable terminal block for power distribution to every 4 Cresnet ports
- 2. Transmitter shall be equipped with the following buttons and indicators
 - a. Eight (8) Input pushbutton & LEDs for manual input selection
 - b. Eight (8) Output pushbutton & LEDs for manual output selection
 - c. One (1) pushbutton and LED select manual audio routing and view in system mode
 - d. One (1) pushbutton and LED select manual Video routing and view in system mode
 - e. One (1) recessed pushbutton and LED activates front panel control
 - f. One (1) recessed pushbutton and LED enables audio breakaway in local mode.
 - g. One (1) pushbutton and LED implements routing in local mode
 - h. One(1) Power LED
 - i. One (1) Cresnet LED
 - j. One(1) recessed pushbutton and LED for Touch-Settable ID

END OF SECTION XXXX