**SECTION 27 41 16**

**INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT**

**GUIDE SPECIFICATION**

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*Specifier: Please see PART 4 for a listing of products specified in this Guide Specification.*

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# **GENERAL**

*NOT USED in this Guide Specification. Specifier shall Specify PART 1 administrative and procedural requirements as needed.*

## **SUMMARY**

### Section Includes:

#### UNIFIED COMMUNICATIONS AND COLLABORATION SYSTEMS

## **RELATED REQUIREMENTS**

### Section 27 15 00 - Communications Horizontal Cabling

### Section 27 41 16 - Audio-Video Systems and Equipment

## **REFERENCES**

### Abbreviations and Acronyms

#### BYOD - Bring You Own Device

#### UC - Unified Communications

#### UCS - Unified Communication System

#### UCC - Unified Communications Computer

# **PRODUCTS**

## **TABLETOP CONFERENCE SYSTEMS**

### Basis of Design Tabletop UCS for Large Rooms:

#### Crestron UC-MX70-Z

*Specifier Note:*

*The UC-MX70-Z system provides a complete video conference room solution for use with the Zoom Rooms software. It supports single or dual video displays, and features the Crestron Flex tabletop conference device, UC Bracket Assembly with UC-ENGINE, AVer® CAM520 PRO enterprise-grade camera, mic pod, cables, and power supply.*

*For additional information see:*

*https://www.crestron.com/Products/Workspace-Solutions/Unified-Communications/Crestron-Flex-Tabletop-Conferencing-Systems/UC-MX70-Z*

### Basis of Design Tabletop UCS For Medium Rooms:

#### Crestron UC-MX50-Z

*Specifier Note:*

*The UC-MX50-Z system provides a complete video conference room solution for use with the Zoom Rooms software. It supports single or dual video displays, and features the Crestron Flex tabletop conference device, UC Bracket Assembly with UC-ENGINE, Huddly IQ™ Collaboration Camera, cables, and power supply.*

*For additional information see:*

*https://www.crestron.com/Products/Workspace-Solutions/Unified-Communications/Crestron-Flex-Tabletop-Conferencing-Systems/UC-MX50-Z*

### Collaboration Platforms:

#### The USC shall natively support Zoom Rooms.

#### UCS shall support collaboration platforms installed on user laptop computers via HDMI and USB connections located on the tabletop user interface device.

*Specifier Note:*

*Bring Your Own Device (BYOD)*

*Conference room visitors can connect their laptop computer to the tabletop user interface device to use their own UC conference platform. The UC-MX(50/70)-x's built-in content ingest device switches to the connected laptop's UC platform and returns to the native UC platform when disconnected.*

### Unified Communication System Components:

#### Hardware Components:

##### Tabletop Console:

###### Integrated System Components:

Microphone

Speaker

User interface

###### System Connections:

HDMI Input

HDBT Output

LAN port

Table microphone connections

USB B

##### Unified Communications Computer (UCC):

###### The UCC shall include pre-installed collaboration software.

###### The UCC shall include connections for the following hardware devices:

Dual displays

External Source Content Device

HD Camera

##### Table Microphone

*Specifier Note:*

*CCS-UCA-MIC*

*The add on extension microphone is included with the UC-MX70-x and is an optional accessory for the UC-MX50-x.*

*For additional information see:*

*https://www.crestron.com/Products/Audio/Microphones/Wired-Microphones/CCS-UCA-MIC-KIT*

##### HD Camera

*Specifier Note:*

*UC-MX70-x camera:*

*UC-CAM-HD-520 - AVer® CAM520 PRO*

*UC-MX50-x camera:*

*CCS-CAM-USB-F-400 Huddly IQ*

##### Cabling and Mounting Hardware

#### Software Components

##### Integrated Zoom Rooms

### External content source device integration

#### The UCS shall support connection of HDMI source devices for use as collaboration content.

### User Laptop Integration

#### UCS shall include wired connections for a user provided laptop with installed collaboration software.

#### User Interface and Control Integration Software

##### The UCS user interface shall support switching between native collaboration software and collaboration software installed on a user laptop.

#### User laptop shall receive camera and microphone content through a single USB connection.

### Video Presentation

#### The UCS shall include a USB HD camera for integration with web video conferencing software.

#### The UCS tabletop console shall include an HDMI input connection that is extended to the UCC via a single cable HDBT connection. Additional video and USB extending hardware shall not be accepted.

### Touch Screen User Interface

#### The Tabletop Conference System shall include an integrated touch screen user interface with the following capabilities:

##### Native Zoom Rooms Touch Screen User Interface

##### One-touch Zoom meeting joins

### System Installation

#### The connection between the user interface device and the UC engine assembly shall require no more than a single category 5 type cable.

*Specifier Note:*

*The Crestron UC-MXxx-x units utilyze a single CAT5/6 cable for AV extension, Ethernet, and USB extension.*

#### Unified collaboration engine shall be a component of an integrated mounting assembly designed for installation behind display devices.

### Network Management

#### The Tabletop Conference System shall support:

##### Cloud based management service by same manufacturer

##### Cloud-based provisioning enabling complete network configuration in advance of hardware installation, with touchless updates following installation.

# **EXECUTION**

*NOT USED in this Guide Specification. Specifier shall Specify PART 3 On-Site work as needed.*

# **APPENDICES**

## **SPECIFIED PRODUCTS**

### Crestron UC-MX70-Z

### Crestron UC-MX50-Z