**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.*

**Table of Contents**

**1 GENERAL 3**

1.1 SUMMARY 3

1.1.1 Section Includes: 3

1.2 RELATED REQUIREMENTS 3

1.2.1 Section 27 15 00 - Communications Horizontal Cabling 3

1.2.2 Section 27 41 16 - Audio-Video Systems and Equipment 3

1.3 REFERENCES 3

1.3.1 Abbreviations and Acronyms 3

**2 PRODUCTS 3**

2.1 Basis of Design Tabletop UCS for Small Rooms: 3

2.1.1 Crestron UC-MMX-30-T 3

2.1.2 Crestron UC-MMX-30-T-I 3

2.1.3 Crestron UC-MMX-30-Z 4

2.1.4 Crestron UC-MMX-30-Z-I 4

2.2 Collaboration Platforms 4

2.2.1 Microsoft 4

2.2.2 Zoom 4

2.2.3 BYOD 4

2.3 Tabletop Conference Systems 5

2.3.1 Unified Communication System Components: 5

2.3.2 External content source device integration 7

2.3.3 User Laptop BYOD Integration 7

2.3.4 Video Presentation 7

2.3.5 Touch Screen User Interface 7

2.3.6 Network Management 8

2.4 Manufacturer Service and Support 8

2.4.1 Manufacturer shall make available an optional Service and Support plan including the following: 8

**3 EXECUTION 8**

**4 APPENDICES 8**

4.1 SPECIFIED PRODUCTS 8

4.1.1 Crestron UC-MMX30-T 8

4.1.2 Crestron UC-MMX30-T-I 9

4.1.3 Crestron UC-MMX30-Z 9

4.1.4 Crestron UC-MMX30-Z-I 9

# **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**

## **Basis of Design Tabletop UCS for Small Rooms:**

### Crestron UC-MMX-30-T

### Crestron UC-MMX-30-T-I

### Crestron UC-MMX-30-Z

### Crestron UC-MMX-30-Z-I

## **Collaboration Platforms**

*Specifier Note:*

*The "T" version includes Microsoft Teams collaboration software.*

*The "Z" version includes Zoom Rooms collaboration software.*

*Both Teams and Zoom versions support BYOD.*

*Specifier: Delete the version below that is not being specified in the project Specification.*

### Microsoft

#### The UCS shall natively support Microsoft Teams Rooms.

*Specifier Note:*

*The "T" version systems brings the full Microsoft Teams Rooms UC experience to any meeting space in an enterprise or SMB facility, whether implementing a cloud based Microsoft Teams Rooms deployment, on-premises Skype® for Business software, or a hybrid of the two.*

*Microsoft Teams Rooms are purpose-built calling and meeting room solutions delivering a native Microsoft Teams experience, with HD audio and video, on Teams certified 3rd party hardware. Teams Rooms deliver consistent, intuitive, and inclusive meeting experiences.*

*https://rooms.microsoft.com/*

##### The UCS shall be a certified Microsoft Teams solution.

*Specifier Note:*

*https://rooms.microsoft.com/*

### Zoom

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

*Specifier Note:*

*Native Zoom Rooms™ Software Experience*

*The "Z" version systems features Zoom Rooms conferencing software that enables audio and video connectivity for easy collaboration and content sharing.*

### BYOD

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

## **Tabletop Conference Systems**

### Unified Communication System Components:

#### Hardware Components:

##### Tabletop Console:

###### Integrated System Components:

Microphone

Speaker

User interface

##### Table Transmitter

*Specifier Note:*

*The UC-PR Presentation Transmitter provides connectivity from the table location to the bracket assembly over a CAT5 type cable (for AV) and a CAT5 type cable for LAN.*

###### UCS shall include a connection hub providing local AV and USB connections with a single cable for transmission to the UCC assembly.

###### Transmitter Unit Available Connections:

HDMI source input

USB B for audio

USB A for tabletop console

USB C for source video and audio

RJ45 single cable transmission to UCC assembly

LAN connection for Tabletop console

Network connection for UCC assembly

##### 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

HD Camera

##### HD Camera

*Specifier Note:*

*Camera Type 1:*

*UC-CAM-HD-520; AVer® CAM520 PRO:*

*UC-MX70-x*

*Camera Type 2:*

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

*UC-MX50-x*

*UC-MMX30-x*

*UC-MMX30-x-I*

##### Cabling and Mounting Hardware

#### Software Components

*Specifier Note:*

*The "T" version includes Microsoft Teams collaboration software.*

*The "Z" version includes Zoom Rooms collaboration software.*

*Both Teams and Zoom versions support BYOD.*

*Specifier: Delete the version below that is not being specified in the project Specification.*

##### Integrated Zoom Rooms

##### Integrated Microsoft Teams

### External content source device integration

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

### User Laptop BYOD Integration

#### 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 table transmitter shall include an HDMI input connection that is extended to the UCC assembly 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:

*Specifier Note:*

*The "T" version includes Microsoft Teams collaboration software.*

*The "Z" version includes Zoom Rooms collaboration software.*

*Both Teams and Zoom versions support BYOD.*

*Specifier: Delete the version below that is not being specified in the project Specification.*

##### Native Microsoft Teams Rooms Touch Screen User Interface

##### One-touch Teams meeting joins

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

##### One-touch Zoom meeting joins

### 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.

## **Manufacturer Service and Support**

### Manufacturer shall make available an optional Service and Support plan including the following:

*Specifier Note:*

*Please see the following link for additional information on the Crestron Flex Care Plan.*

*https://www.crestron.com/Legal/FlexCareTerms*

*All provisions of Crestron’s Standard Terms and Conditions of Sale and Standard Limited Warranty, both available at https://www.crestron.com/Legal/sales-terms-conditions-warranties, ( and at www.crestron.com/crestroneuropeterms for Europe) continue to apply to the Crestron Flex Care Plan and the Eligible Products.*

*The complete list of Eligible Products can be found at https://www.crestron.com/Products/Featured-Solutions/Crestron-Flex.*

#### Advance Replacements

#### Extended Remote Support Hours

#### Five Year Extended Limited Warranty

#### Reduced Rate On-Site Support

# **EXECUTION**

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

# **APPENDICES**

## **SPECIFIED PRODUCTS**

### Crestron UC-MMX30-T

### Crestron UC-MMX30-T-I

### Crestron UC-MMX30-Z

### Crestron UC-MMX30-Z-I