**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**

## **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 Custom UCS:**

### Crestron UC-CX100-T

### Crestron UC-CX100-Z

## **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:*

*Please see below link for additional Microsoft information.*

*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**

### UCS Component orientation

#### Tabletop User Interface and Source Laptop Connection Module

#### Wall or Equipment Rack mounted UCC assembly unit

### Unified Communication System Components:

#### Hardware Components:

##### Tabletop Touch Screen User Interface

###### Tabletop Touch Screen with 10.1 inch display

###### Native Collaboration Software UI

##### 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 C for source video and audio

RJ45 single cable transmission to UCC assembly

LAN connection for Tabletop User Interface

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:

AV Source Content Single Cable Extension Receiver

*Specifier Note:*

*The Crestron HD-CONV-USB-260 CAT5 to USB 3.0 converter provide AV content ingest to the UCC (UC Engine/Unified Communications Computer).*

Dual displays

HD Camera

##### USB Camera

*Specifier Note:*

*This Crestron UC kit does not include a camera. Integrator shall provide a USB camera compatible with the collaboration software being specified.*

##### 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 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 UCS 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**

*Specifier Note: This Article includes Crestron products specified in this Guide Specification document. This Article is for reference only and should not be required in actual project manual unless included in an overall system equipment list.*

### Crestron UC-CX100-T

### Crestron UC-CX100-Z