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

## UNIFIED COMMUNICATIONS AND COLLABORATION SYSTEMS

### Phone System

### Tabletop System

### Wall Mounted System

### Integrator System

## RELATED REQUIREMENTS

### Section 25 08 00 - Commissioning of Integrated Automation

### Section 25 10 00 - Integrated Automation Network Equipment

### Section 25 11 13 - Integrated Automation Network Servers

### Section 25 13 13 - Integrated Automation Control and Monitoring Network Supervisory Control

### Section 25 13 16 - Integrated Automation Control and Monitoring Network Integration Panels

### Section 25 13 19 - Integrated Automation Control and Monitoring Network Interoperability

### Section 25 15 16 - Integrated Automation Software for Control and Monitoring Networks

### Section 26 09 43.13 - Digital-Network Lighting Controls

### Section 27 15 00 - Communications Horizontal Cabling

### Section 27 41 00 - Audio-Video Systems

# PRODUCTS

## UC SYSTEM TYPES

### Phone Based System

#### Basis of Design Phone UC System

##### Crestron UC-P-100 Series

Specifier Note:

Multiple models are offered to accommodate different applications.

UP-P100-x: Desk phone with user interface

UC-P110-x: Desk phone with tilt screen user interface

#### User Interface

##### Phone unit shall include an integrated touch screen user interface.

##### Unit shall support the following:

###### Microsoft Teams

###### Skype for Business

#### System Display

##### Phone shall display system information via touch screen display.

### Tabletop System

#### Basis of Design Tabletop UC System

Specifier Note:

Multiple models are offered to accommodate different applications.

##### Crestron UC-M-150-T

Specifier Note:

The UC-M-150-T supports audio and video.

##### Crestron UC-M-130-T

Specifier Note:

The UC-M-130-T supports audio and video.

##### Crestron UC-M-100-T

Specifier Note:

The UC-M-100-T is an audio only system.

#### See AV System Drawings for equipment and device connection details.

Specifier Note:

See example AV System Drawings for Flex M- Series.

#### System - The UC System shall be composed of the following components:

Specifier Note:

The UC-M150-T and UC-M130-T are composed of the following key components: UC Engine with Operating System, User Interface, camera and Display (provided by others).

##### UC Engine

Specifier Note:

Select the appropriate model for the application being specified.

The UC-M150-T supports single or dual displays.

The UC-M130-T supports a single display only.

###### The UC engine shall support:

Dual or single display operation

Single display operation

###### HDMI content support - UC system shall support wired HDMI connection for external presentation source.

Specifiers Note:

TheUC-M100 is an audio only device.

###### System shall include support for wake on motion detection occupancy sensing.

##### Operating System

Specifier Note:

The UC-M1xx-T series is a native configured Microsoft Teams/Skype for business system.

###### Microsoft Edition

Specifier Note:

Current Microsoft software version SRSv2

Microsoft edition shall have native support for Teams and Skype for Business software.

Touch screen shall support on screen calendar view

Touch screen shall support one-touch room control

Specifier Note:

The UC-M150-T and UC-M130-T support one-touch room control, the UC-M100-T does NOT.

Touch screen shall support one-touch meeting join.

##### User Interface

###### Table top unit shall include an integrated touch screen user interface.

##### Display System

###### Video Display

Specifier Note:

This article (Video Display) applies to the UC-M150-T and UC-M130-T only.

Display Device

In room video display devices - Display equipment shall have the capability of viewing room UC content via an HDMI input connection.

Specifier Note: Specify Displays here. The room shall include video display device(s) that are compatible with the specified Crestron UC engine.

#### Audio

##### Table top unit shall include a built-in microphone with support for 360 degree room coverage.

##### The table top unit shall include a built-in speaker for system audio.

### Wall Mounted System

#### Basis of Design Wall Mounted UC System

Specifier Note:

Multiple models are offered to accommodate different applications.

UC-B160 Supports dual displays

UC-B140 Supports single display

UC-B130 Supports single display

##### Crestron UC-B160-T

##### Crestron UC-B140-T

##### Crestron UC-B130-T

#### See AV System Drawings for equipment and device connection details.

Specifier Note: See example AV System Drawings for Flex B Series.

#### System - The UC System shall be composed of the following components:

Specifier Note:

The UC-M150-T and UC-M130-T are composed of the following key components: UC Engine with Operating System, User Interface, camera and Display (provided by others).

##### UC Engine

Specifier Note:

Select the appropriate model for the application being specified.

The UC-B160 supports single or dual displays.

The UC-B140 and UC-B130 support single display operation only.

###### The UC engine shall support:

Dual or single display operation

Specifier Note:

The UC-B160 supports dual or single displays.

Single display operation

Specifier Note:

The UC-B140 and UC-B130 support single display operation only.

###### HDMI content support - UC system shall support wired HDMI connection for external presentation source.

##### Operating System

Specifier Note:

The UC-B1xx-T series is a native configured Microsoft Teams/Skype for business system.

###### Microsoft Edition

Specifier Note:

Current Microsoft software version SRSv2

Microsoft edition shall have native support for Teams and Skype for Business software.

Touch screen shall support on screen calendar view

Touch screen shall support one-touch room control

Touch screen shall support one-touch meeting join.

##### User Interface

###### The wall mounted system shall include an integrated touch screen with tabletop kit.

##### Audio and Camera

###### The wall mounted system shall include a speaker bar with integrated microphone and camera.

##### Display System

###### Video Display

Display Device

In room video display devices - Display equipment shall have the capability of viewing room UC content via an HDMI input connection.

Specifier Note: Specify Displays here. The room shall include video display device(s) that are compatible with the specified Crestron UC engine.

### Integrator System

#### Basis of Design Integrator UC System

##### Crestron UC-C160-T

#### See AV System Drawings for equipment and device connection details.

Specifier Note: See example AV System Drawings for Flex C-100 Series.

#### System - The UC System shall be composed of the following components:

Specifier Note:

The UC-C160-T is composed of the following key components: UC Engine with Operating System, and User Interface. The camera, Display and any other components shall be provided by others.

##### UC Engine

Specifier Note:

The UC-C160-T supports single or dual displays.

###### The UC engine shall support:

Dual or single display operation

Specifier Note:

The UC-C160 supports dual or single displays.

Single display operation

Specifier Note:

The UC-C160 supports dual or single displays.

###### HDMI content support - UC system shall support wired HDMI connection for external presentation source.

###### System shall include support for wake on motion detection occupancy sensing.

##### Operating System

Specifier Note:

The UC-C160-T series is a native configured Microsoft Teams/Skype for business integrator system.

###### Microsoft Edition

Specifier Note:

Current Microsoft software version SRSv2

Microsoft edition shall have native support for Teams and Skype for Business software.

Touch screen shall support on screen calendar view

Touch screen shall support one-touch room control

Specifier Note:

The UC-C160-T supports one-touch room control.

Touch screen shall support one-touch meeting join.

##### User Interface

###### The wall mounted system shall include an integrated touch screen with tabletop kit.

##### Audio and Camera

###### The integrator system shall include the user interface and UC engine to be integrated with a custom system including speaker, microphone and camera.

##### Display System

###### Video Display

Display Device

In room video display devices - Display equipment shall have the capability of viewing room UC content via an HDMI input connection.

Specifier Note: Specify Displays here. The room shall include video display device(s) that are compatible with the specified Crestron UC engine.

# 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-P100-S

### Crestron UC-P-100-T

### Crestron UC-P-110-S

### Crestron UC-P-110-T

### Crestron UC-M100-T

### Crestron UC-M130-T

### Crestron UC-M150-T

### Crestron UC-B160-T

### Crestron UC-B140-T

### Crestron UC-B130-T

### Crestron-UC-C-160-T