SECTION 27 41 16

INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

GUIDE SPECIFICATION

Specifier: The Specifier/Design Professional is responsible for the accuracy of all project specifications, including system application and coordination with related sections. This guide specification is provided as a convenience and requires editing to match actual project requirements. CRESTRON ELECTRONICS, INC. SHALL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF THE USE OF ANY OF ITS GUIDE SPECIFICATIONS. For Crestron design assistance and design review please contact Sales Support Services Department at 800.237.2041 or techsales@crestron.com.

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.

# PRODUCTS

## Large Room Unified Communications Conference Solution

Specifier Note:

*The Crestron® Flex UC-B70-A-Z tabletop conferencing system provides a medium to large room video conference solution for use with Zoom Rooms® software. It features a 10.1 in. tabletop touch screen, Crestron Videobar 70 with intelligent high-definition video and audio, a PoE injector, and cables.*

### Basis of Design

#### Crestron UC-B70-A-Z

##### Crestron TS-1070-B-S

##### Crestron UC-SB2-CAM-A-Z

##### Crestron PWE-4803RU

### Device Definition

#### Large room Unified Communications conference solution with the following:

##### Solution consists of the following components by same manufacturer:

###### Tabletop touch screen

Please refer to touch screen specification guide documents by same manufacturer for details

###### Intelligent video sound bar

###### Power over Ethernet (PoE) Injector

Please refer to device specification guide document by same manufacturer for details

##### Intelligent video sound bar shall have the following characteristics:

###### Four (4) cameras that track all occupants in room

###### AI enhanced video content

###### 10 W dual speakers

###### Acoustic echo cancellation

###### Dynamic noise suppression

###### Twenty-four (24) microphone array with beam forming

###### Android™ OS with QCS8250 chipset

###### Wall bracket included

###### Support for proprietary remote configuration and monitoring software by same manufacturer

###### Support for Zoom Device Management software

### Device Architecture

Specifier Note:

*This section outlines characteristics of intelligent video sound bar; please refer to device specification guide documents by same manufacturer for characteristics on tabletop touch panel and PoE Injector*

#### Construction

##### Plastic, smooth black finish

##### Rear air vents

##### Integrated mounting bracket

#### Mounting: Wall mount using integrated mounting bracket

#### Dimensions

##### Height: 4.33 in. (110 mm), 6.38 in. (162 mm) with bracket

##### Length: 38.58 in. (980 mm)

##### Depth: 3.77 in. (96 mm), 4 in. (101 mm) with bracket

#### Weight: 13.2 lb. (6 kg)

#### Environmental Operating Conditions

##### Temperature: 32° to 104° F (0° to 40° C)

### Functions

Specifier Note:

*This section outlines characteristics of intelligent video sound bar; please refer to device specification guide documents by same manufacturer for characteristics on tabletop touch panel and PoE Injector*

#### Video

##### Camera Configuration

###### One (1) Main camera

###### One (1) Left and One (1) right sub camera

###### One (1) center sub camera with 14° overlap

##### Main Camera Optics: 20 megapixels, 1” sensor

##### Camera Field of View

###### Main camera: 84.2° horizontal, 53.5° vertical

###### Left and right sub camera: 41° horizontal, 21° vertical

###### Center sub camera: 41° horizontal, 21° vertical

##### Camera Resolution

###### Main camera: 5472 x 3072

###### Left and right sub camera: 2976 x 1944

###### Center sub camera: 3648 x 1944

##### Autozoom: 8.5x digital zoom

##### Camera Shutter: Mechanical, electronically controlled

##### Video Input Signal Type: HDMI

##### Video Output Signal Type: HDMI

##### Video Content Protection: HDCP 1.4 and HDCP 2.2

##### Display Output: Up to three displays supported

##### Display Output Resolution: Two (2) 4K and one (1) 1080p

#### Audio

##### Speakers: Two (2) 10-watt speakers, stereo

##### Microphone: Twenty-four (24) Mic linear array

Specifier Note:

*Microphone pickup range may vary in rooms with highly reflective infrastructure (e.g., glass walls, metal furniture, open ceilings, etc.) or above average ambient noise.*

##### Audio DSP

###### Acoustic echo cancellation

###### Dereverberation

###### Automatic gain control

###### Dynamic noise suppression

###### Adaptive beamforming

###### Speaker volume control

###### Speaker EQ and limiting (fixed)

##### Audio Input Signal Type

###### HDMI: Two-channel LPCM

#### Miscellaneous

##### Operating System: Android OS running on the QCS8250 chipset

##### Memory: LPDDR5 12 GB; UFS 128 GB

##### Connectivity: 100/1000 Mbps Ethernet connectivity

##### UC Client: Zoom Rooms software

##### Management client: Proprietary cloud-based management service by same manufacturer

##### Content Ingest: HDMI input on device or direct sharing via Zoom software

### Connectors

Specifier Note:

*This section outlines characteristics of intelligent video sound bar; please refer to device specification guide documents by same manufacturer for characteristics on tabletop touch panel and PoE Injector*

#### HDMI

##### Input: Two (2) HDMI in, input 1 reserved for future use

##### Output: Three (3) HDMI out

#### 3.5 mm Line in (reserved for future use) / Line out

##### One (1) Audio in / one (1) Audio out

#### LAN: Two (2) 8-pin RJ45 connectors

#### USB A: Two (2) USB 3.0 Type A connectors

#### USB C: Two (2) USB 3.1 Type-C connectors (reserved for future use)

### Power

Specifier Note:

*This section outlines characteristics of intelligent video sound bar; please refer to device specification guide documents by same manufacturer for characteristics on tabletop touch panel and PoE Injector*

#### Input Power: 19 VDC via external 100-240 VAC, 50/60 Hz power pack (included)

### Controls and Indicators

Specifier Note:

*This section outlines characteristics of intelligent video sound bar; please refer to device specification guide documents by same manufacturer for characteristics on tabletop touch panel and PoE Injector*

#### Indicators

##### LED Indicators

###### Green indicates call is in progress

###### Red indicates call is muted

## Large Room Unified Communications Conference Solution

Specifier Note:

*The Crestron® Flex UC-B70-A-Z-I tabletop conferencing system provides a medium to large room video conference solution for use with Zoom Rooms® software. It features a 10.1 in. tabletop touch screen, Crestron Videobar 70 with intelligent high-definition video and audio, a PoE injector, and cables.*

### Basis of Design

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##### Crestron UC-SB2-CAM-A-Z-I

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###### Wall bracket included

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#### Indicators

##### LED Indicators

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# 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-B70-A-Z

### Crestron UC-B70-A-Z-I

## Input / Output Connection Diagrams

### UC-SB2-CAM-A-Z

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Description automatically generated

Specifier Note: UC-SB2-CAM-A-Z-I features identical input/output connection diagram to UC-SB2-CAM-A-Z.