**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**

## **Touch Screen User Interface**

### Basis of Design Touch Screen UI:

*Specifier Note: Please see system drawings or equipment lists for specified model and quantity.*

#### Crestron TSW-560

#### Crestron TSW-560-P

#### Crestron TSW-760

#### Crestron TSW-1060

### Device Architecture

#### The Touch Screen UI shall be composed of the following functional elements:

##### Graphical touch video display

##### Programmable capacitive buttons

##### Ambient light sensor

##### Built-In camera

##### Built-in microphone

##### Built-in speakers

##### Built-in bluetooth iOS device proximity beacon

### Graphical Display

#### Graphical UI - Touch screen UI display shall support the following viewable elements:

##### Control buttons and objects

##### Feedback indication via text, button object change in color, animated object or graphical element.

##### H.264 or MJPEG Streaming video

#### Brightness Control - Graphical UI shall automatically adjust screen brightness based on room ambient light levels.

### Touch UI Functions

#### Touch Screen UI shall support Multi-Touch control interfacing.

#### Touch Screen UI shall support gesture driven controls through custom programming and configuration.

### Functions - The Touch Screen UI shall include:

#### Custom Control UI - control of integrated system components through custom programming or preset configuration of the system control processor by same manufacturer.

#### System Integration - device shall support controls for compatible integrated AV systems, HVAC and Lighting hardware, and scheduling and management systems.

#### Audio Intercom via Ethernet network.

*Specifier Note: Intercom supports Crestron Rava enabled devices.*

#### Video Intercom shall be supported on units equipped with a built-in camera.

*Specifier Note: Intercom supports Crestron Rava enabled devices.*

#### Custom audio feedback via custom programming.

#### Multi-Language support

#### Internet Browsing shall be supported via Ethernet network.

*Specifier Note: Internet access required and to be provided by integrator.*

#### Voice Recognition - device shall support voice commands control functionality through custom programming and configuratIon of the system control processor.

*Specifier Note: Internet access required and to be provided by integrator.*

### Communication and Power

#### Communication: Bidirectional 10/100 Mbps Ethernet communication.

#### Power: IEEE 802.3af Class 3 PoE Powered Device

### Physical

#### Touch Screen UI shall be available in the following sizes:

##### 5 inch TFT active-matrix color LCD touch screen 960 by 540 qHD resolution display.

*Specifier Note: 5 inch version: Crestron TSW-560*

##### 5 inch TFT active-matrix color LCD Portrait touch screen 540 by 960 qHD (portrait) resolution display.

*Specifier Note: 5 inch portrait version: Crestron TSW-560-P*

##### 7 inch TFT active-matrix color LCD touch screen 1024 by 600 WSVGA resolution display.

*Specifier Note: 7 inch version: Crestron TSW-760*

##### 10.1 inch TFT active-matrix color LCD touch screen 1280 by 800 WXGA resolution display.

*Specifier Note: 10.1 inch version: Crestron TSW-1060*

#### Mounting Options

##### Manufacturer shall make available optional mounting hardware:

###### Flush mount wall kit

*Specifier Note:*

*Please see below links for additional information on flush mounting wall kits:*

*https://www.crestron.com/Products/Control-Surfaces/Accessories/Mounting-Hardware/TSW-560-FMKT*

*https://www.crestron.com/Products/Control-Surfaces/Accessories/Mounting-Hardware/TSW-760-FMKT*

*https://www.crestron.com/Products/Control-Surfaces/Accessories/Mounting-Hardware/TSW-1060-FMKT*

###### Table top mounting kit

*Specifier Note:*

*Please see below links for additional information on table top mounting kits:*

*https://www.crestron.com/Products/Control-Surfaces/Accessories/Mounting-Hardware/TSW-560-TTK-B-S*

*https://www.crestron.com/Products/Control-Surfaces/Accessories/Mounting-Hardware/TSW-760-TTK-B-S*

*https://www.crestron.com/Products/Control-Surfaces/Accessories/Mounting-Hardware/TSW-1060-TTK-B-S*

#### Touch Screen UI shall include five programmable backlit capacitive control buttons.

#### Wired Connection - Device shall utilize a single wired connection for power and data communication.

#### USB 2.0 Host connection for optional room availability sign by same manufacturer.

# **EXECUTION**

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

# **APPENDICES**

## **SPECIFIED PRODUCTS**

### TSW-560-TTK

### TSW-760-TTK

### TSW-1060-TTK

### TSW-560-FMKT

### TSW-760-FMKT

### TSW-1060-FMKT

### Crestron TSW-560

### Crestron TSW-560-P

### Crestron TSW-760

### Crestron TSW-1060