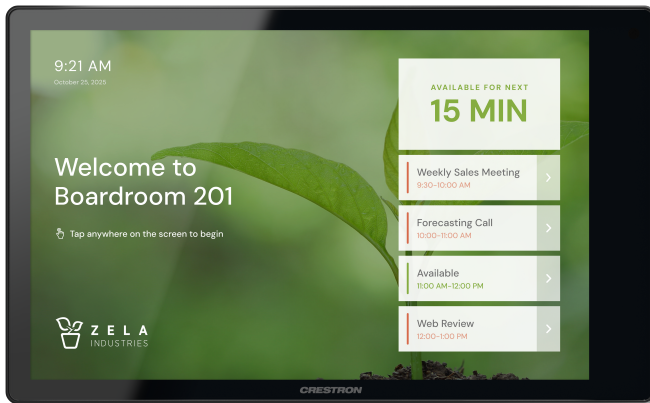


TSW-880

8.1 in. Wall Mount Touch Screen



- *Next generation Crestron wall mount touch screen*
- *8.1 in. (204 mm) widescreen active-matrix color display and 1280 x 800 WXGA display resolution*
- *Capacitive touch screen display*
- *Custom-programmable virtual control buttons*
- *Supports Crestron HTML5 software custom user projects*
- *Built-in Rava® SIP intercom*
- *Built-in speakers and microphone*
- *H.265, H.264, or MJPEG streaming video display*
- *Native apps for Crestron Home® OS and various room scheduling services*
- *Built-in web browsing*
- *Single wire Ethernet connection with PoE or PoE+ power*
- *Wi-Fi® network connectivity*
- *USB-C 2.0 port for room availability accessories and conferencing*
- *Enterprise grade security and authentication*
- *Web, cloud, or device-based configuration*
- *Electrical box mounting with provided mounting bracket*
- *Available in white or black finish*

The Crestron [TSW-880](#) wall mount touch screen is ideal for residential and enterprise applications. The TSW-880 features a 8.1 in. (204 mm) capacitive touch screen display with custom programmable control buttons and support for HTML5-based custom UI projects. PoE and Wi-Fi® network connectivity and a comprehensive assortment of mounting accessories simplify new and retrofit installations.

Advanced Touch Screen Control

The TSW-880 offers a sleek and powerful user interface for controlling technology in a home, boardroom, conference room, or command center. The touch screen provides an intuitive interface with easy-to-use capacitive controls, true feedback, and real-time status display. A built-in proximity sensor wakes the screen without requiring any user interaction, and automatic brightness controls ensure optimal visibility under varying lighting conditions.

Custom-Programmable Virtual Buttons

The TSW-880 comes preconfigured with virtual buttons for Power, Home, Lights, Up, Down, and Microphone. Each button can be programmed via a Crestron control system to provide custom functionality, and unused buttons can be hidden individually. The universal status bar is expanded or hidden using simple swipe gestures on touch screen display.

Dynamic User Interfaces

The TSW-880 supports custom user interfaces created with [Crestron HTML5 User Interface](#) and [Crestron Construct™](#) technologies, allowing greater flexibility for UI developers and programmers.

- Crestron HTML5 User Interface enables UI designers to develop rich, front-end user interfaces with increased reusability and efficiency using modern web methodologies. Development tools are provided to simplify creating user interfaces built on standard web technologies
- Crestron Construct is a cross-platform developer application that enables programmers to create HTML5-based user interfaces within a WYSIWYG (What You See Is What You Get) environment to further simplify UI development.

Streaming Video

Native support for H.265, H.264, and MJPEG formats allows the TSW-880 to display live streaming video from an IP camera or streaming encoder. Video is delivered to the touch screen over Ethernet, eliminating the need for extra video wiring.

Rava SIP Intercom

Rava® SIP Intercom Technology enables hands free VoIP communication with other Rava enabled touch screens and door stations. Rava works over Ethernet, supporting 2-way intercom and paging without requiring any special wiring. VoIP phone capability is also possible through integration with a SIP compatible IP phone system or SIP server, allowing hands free telephone functionality complete with speed-dialing, caller ID, custom ringers, and other enhancements. The far-field microphone picks up voice communication even when the user is not directly next to the touchscreen. Built in echo cancellation affords full duplex performance for clear, seamless voice communication using the integrated microphone and speakers.²

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Crestron Room Scheduling App

As part of a complete enterprise solution, the TSW-880 serves as a room booking interface through the Crestron Room Scheduling app. A Crestron scheduling panel can be installed at the entrance of a meeting room to provide indication of the room's availability and schedule for the day. If desired, a room can be reserved on the spot for an ad hoc meeting. A [CEN-ODT-C-POE](#) occupancy sensor can also be paired to the touch screen, allowing for occupancy status to be reported instantly to the scheduling app for no shows and unscheduled room usage.^{3,4}

Running the Crestron Scheduling App, the TSW-880 integrates directly with Microsoft Exchange Server® software (for users of Outlook® software and Microsoft 365® software), the Google Calendar™ calendaring app (including G Suite™ software), CollegeNET® 25Live® scheduling software, or Ad Astra™ software.

Third-Party Scheduling Apps

The TSW-880 also includes support for various third-party scheduling applications. New providers are made available via firmware or over the air updates. Whatever provider you choose, setup is as simple as connecting the touch screen to the network and choosing an app from the built-in setup screens. The selected app downloads from the cloud and installs on the touch screen without any programming or control system required.^{5,6}

Crestron Home OS Control

The TSW-880 is used to control a Crestron Home® OS whole home solution. Select the Crestron Home app from the touch screen to control lighting, shades, climate, media, security, and cameras, including the ability to create and recall scenes that create a desired ambiance throughout a home. A TSW-880 may be installed in each room to provide easy access to various Crestron Home functions for both the room and the home.

Web Browsing

Using its built in web browser, the TSW-880 provides access to online program guides and other web-based services, and it can be used to control DVRs and other devices without having to pick up a tablet or smartphone.¹

Wired and Wi-Fi Connectivity

An Ethernet LAN connection is all that is required to install the TSW-880, containing all control, video, intercom, and power signals within a single wire.

For deployments without access to Ethernet, the touch screen can also be connected to the network over Wi-Fi communications via a local wireless access point (WAP).

Power over Ethernet

Using PoE technology, the TSW-880 gets its operating power directly through the network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches offer a total networking solution with built in PoE for multiple touch screens. Refer to the full list of supported PoE switches [here](#).

NOTE: Refer to the Power specifications for more details.

Enterprise-Grade Security

Crestron touch screens employ enterprise-grade networking with robust security features such as 802.1X authentication, MDEP, TLS encryption, HTTPS connectivity, and Active Directory® service integration. These features are imperative to protect your network against service interruptions and malicious intrusions, and to ensure compliance with your organization's network policies. Cloud based provisioning and management streamlines the process of configuring, monitoring, and updating every touch screen on the network. Additional support for SNMP allows the touch screen to be monitored by your IT administrator.

XiO Cloud Service

The TSW-880 is compatible with the XiO Cloud® service, which is an IoT (Internet of Things) based platform for remotely monitoring and managing Crestron devices across an enterprise or an entire client base. Built on the Microsoft® Azure® software platform and utilizing Microsoft's industry leading Azure IoT Hub technology, XiO Cloud enables installers and IT managers to deploy and manage thousands of devices simultaneously. Unlike other virtual machine based cloud solutions, Azure services provide unlimited scalability to suit the ever growing needs of an enterprise. For more information, visit the [XiO Cloud](#) page.

Room Scheduling Accessories

The TSW-880 provides a USB-C port for connecting supported Crestron room scheduling accessories to the touch screen.³

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Optional Mounting Accessories

The TSW-880 supports numerous optional mounting accessories that allow the touch screen to be installed in all kinds of installations.

- The [TSW-880/1080-MSMK](#) multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface, which is ideal for mounting at the entrance to a meeting space for room scheduling applications.³
- The [TSW-880/1080-MUMK](#) allows the touch screen to be attached to the mullion of an interior glass wall, window, or partition.³
- The [TSW-880/1080-MSMK-ANG](#) multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface while displaying at an angle for easier viewing.

The TSW-880 is also compatible with Wall-Smart® flush wall mount products via a partnership with Crestron. Refer to [Wall-Smart](#) for more information on supported hardware.

Specifications

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	8.1 in. (204 mm) diagonal
Aspect Ratio	16:10 WXGA
Resolution	1280 x 800 pixels
Brightness	Minimum: 350 nits (cd/m ²) Maximum: 400 nits (cd/m ²)
Contrast	1000:1
Color Depth	24 bit, 16.7M colors
Illumination	Edgelit LED with auto brightness control
Viewing Angle	±80° horizontal, ±80° vertical
Touch Screen	Projected capacitive, 5 point multitouch capable

Buttons

Virtual Buttons	(6) Virtual buttons in collapsible universal tool bar, per button show/hide, preconfigured with icons for Power, Home, Lights, Up, Down, and Microphone
Reset	(1) Pin hole on bottom for hardware reset

Graphics Engine

Crestron HTML5 multilanguage web browser¹, multilanguage onscreen keyboard, screensaver, dual scalable streaming video window, native room scheduling applications^{4,5,6}, native Crestron Home® OS app, touch screen setup and diagnostics via web browser, cloud, or onscreen UI

Room Scheduling Support

Crestron Scheduling App	Microsoft Exchange Server® and Microsoft 365® software, Google Calendar™ calendaring app and G Suite™ software, CollegeNET® 25Live® software, and Ad Astra™ software
Third-Party Apps	Includes support for various third-party scheduling applications. ^{4,5,6}

Memory

RAM	8GB LPDDR4
Storage	40GB eMMC pSLC
Maximum Project Size	1000 MB

Wired Communications

Ethernet	1000Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup, XiO Cloud® client, IEEE 802.3 at compliant
USB	USB 2.0 host for room scheduling accessories

Wireless Communications

Transceiver	IEEE 802.11a/b/g/n/ac/ax Wi-Fi 6E (2.4, 5 GHz and 6GHz) 2x2 MIMO, static IP or dynamic IP via DHCP
Security	64 and 128-bit WEP, WPA, WPA2, WPA3, WPA Enterprise and WPA2 Enterprise
Range	Up to 50 ft (15 m), subject to site-specific conditions
Bluetooth® Hardware	BLE, BT5.2, 33 ft (10 m) typical range
Radio Frequency (RF) signals	Proximity sensor (Japan): 60.5 to 61 GHz Proximity sensor (Worldwide): 61 to 61.5 GHz

Streaming Decoder

Video Formats	H.265, H.264, MJPEG
Audio Formats	AAC Stereo
Bitrates	Up to 25 Mbps (20 Mbps maximum recommended)
Input Resolutions	Up to 3840x2160@30fps
Protocol	RTSP

Audio

Features	Built-in microphone ⁷ and speakers, Rava® SIP Intercom
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Connectors

LAN PoE	(1) 8-pin RJ-45 connector, female, with 2 LED indicators; 1000BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
USB	(1) USB Type C connector, female; USB 2.0 host port; USB 3.1 DisplayPort Alt Mode (coming soon)

Power

PoE (Power over Ethernet)	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP; Requests 15.4 W (PoE Class 0) from an 802.3af (or 802.3at Type 1)
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NOTE: Enabling the USB port requires use of an 802.3 at Type 2 PoE+ PSE.

Environmental

Temperature	32 to 104°F (0 to 40°C)
Humidity	10% to 95% RH (noncondensing)
Heat Dissipation	44 BTU/hr

Construction

Housing	Die-cast housing, smooth black or white finish, glass with black or white surround
Mounting	Surface mount over a 2 or 3-gang US electrical box, 2-gang European (DIN 49073) electrical box, or 2-gang UK (BS 4662) electrical box; Lectern mount over a 2 in. H x 3-3/4 in. W (51 mm H x 96 mm W) cutout; 1-3/8 in. (35 mm) minimum mounting depth; Wall mount, surface mount, and rack options available separately

Dimensions

Height	4.88 in. (124 mm)
Width	7.93 in. (201 mm)
Depth	1.18 in. (30 mm)

Weight

14.46 oz (410 g)

Compliance

Regulatory Model: M202404001

FCC Part 15 Class B, IC Class B, CE, UL® Listed for US and Canada/Intertek®

Models

TSW-880-B
8.1 in. Wall Mount Touch Screen, Black

TSW-880-W
8.1 in. Wall Mount Touch Screen, White

Available Accessories

For supported accessories, visit the TSW-880 product page at www.crestron.com.

Notes:

1. Web browsing, weather information, and certain other functions require an internet connection.
2. The microphone and Bluetooth® transceiver may be defeated programmatically at any time.
3. Item(s) sold separately. Refer to each product's spec sheet for complete information.
4. Room scheduling mode requires the TSW-880 to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
5. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
6. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSW-880 as they do on a tablet device. The TSW-880 runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSW-880.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English.
All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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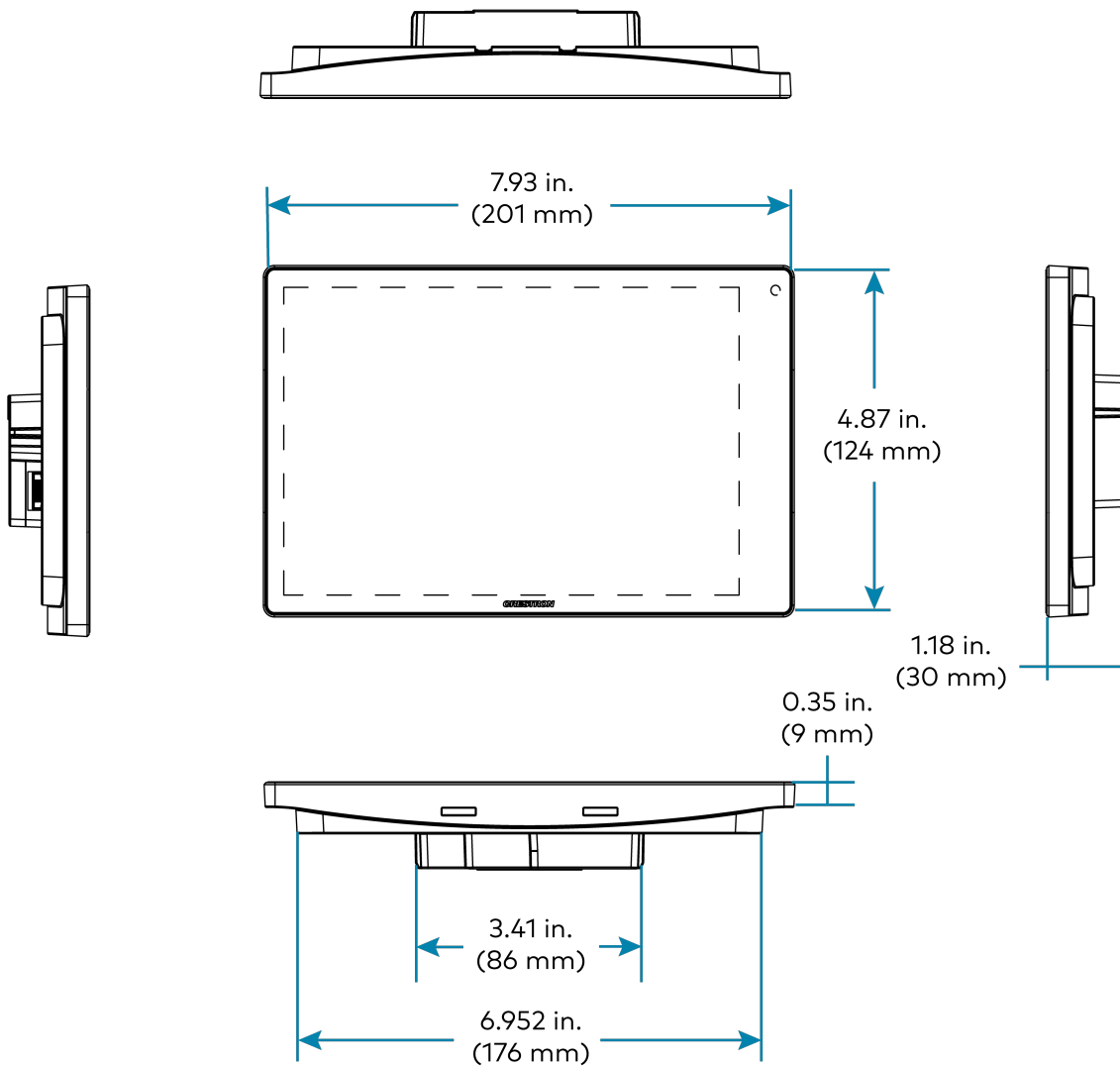
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