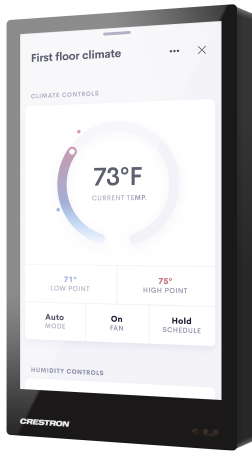


TSW-570PR

5 in. Wall Mount Touch Screen, Portrait, Crestron Home™ OS Version



- Next generation Crestron® portrait touch screen featuring a native Crestron Home™ OS application
- 5 in. (127 mm) widescreen active-matrix color display and 1280 x 720 qHD display resolution
- Capacitive touch screen display
- H.265, H.264, or MJPEG streaming video display
- Single wire Ethernet connection with PoE or PoE+ power
- Dual USB 2.0 ports
- Enterprise grade security and authentication
- Web or device-based configuration
- Wall mounting with provided mounting bracket

The TSW-570PR is compatible with [Wall-Smart® flush wall mounting accessories](#).

The Crestron® TSW-570PR series is a stylish and versatile portrait touch screen that is designed specifically to run the Crestron Home™ OS application. The TSW-570PR features a portrait-oriented 5 in. (127 mm) capacitive touch screen display. PoE connectivity and a comprehensive assortment of mounting accessories simplify new and retrofit installations.

Advanced Touch Screen Control

The TSW-570PR offers a sleek and powerful user interface for controlling technology in the home via the Crestron Home app. The touch screen provides an intuitive interface that is fully customizable 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.

Streaming Video

Native support for H.265, H.264, and MJPEG formats allows the TSW-570PR to display live streaming video from an IP camera, a streaming encoder (Crestron [CEN-NVS200-PWE](#),

[DM-TXRX-100-STR](#), or similar), or a [DigitalMedia™ switcher](#).¹ Video is delivered to the touch screen over Ethernet, eliminating the need for any extra video wiring.

Crestron Home OS Control

The TSW-570PR may be 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-570PR may be installed in each room to provide easy access to various Crestron Home functions for both the room and the home.

Wired Connectivity

An Ethernet LAN connection is all that is required to wire the TSW-570PR, containing all control, video, intercom, and power signals within a single wire.

Power over Ethernet

Using PoE technology, the TSW-570PR 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 ([CEN-SW-POE-5](#) or [CEN-SWPOE-16](#)¹) offer a total networking solution with built-in PoE for multiple touch screens. A PoE Injector ([PWE-4803RU](#)¹) is also available to support a single touch screen.

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, TLS encryption, HTTPS connectivity, and Active Directory® service integration.

Wall Mount Options

The TSW-570PR is easily installed into drywall and other surfaces using the included [TSW-UMB-70](#) universal mounting bracket, which affords the following mounting options:²

- Can be used by itself as a postconstruction solution for retrofitting the TSW-570PR into existing drywall.
- Can be used with the included [TSW-UMB-570P-PMK](#) preconstruction mounting kit for applications that don't require a back box.
- Can be used with the [TSW-UMB-70-BBI](#) back box for masonry and concrete applications.¹

A security bracket option is also included to deter unauthorized removal of the touch screen.

The TSW-570PR is also compatible with Wall-Smart® flush wall mount products via a partnership with Crestron. For more information on supported Wall-Smart hardware, click [here](#).

TSW-570PR

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Specifications

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	5 in. (127 mm) diagonal
Aspect Ratio	16:9 qHD (portrait)
Resolution	1280 x 720 pixels
Brightness	400 nits (cd/m ²)
Contrast	800:1
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	(5) Virtual buttons in collapsible universal tool bar, per-button show/hide, preconfigured with icons for Power, Home, Lights, Up, and Down
Reset	(1) Pin hole on rear panel for hardware reset

Graphics Engine

Native Crestron Home™ OS app, touch screen setup and diagnostics via web browser or onscreen UI, Crestron Home setup and diagnostics via Crestron Home Setup app

Languages

Onscreen Keyboard	Arabic, Chinese (Simplified), Croatian, Czech, Danish, Dutch, English (UK), English (US), Finnish, French (Canada), French (Switzerland), German, Hebrew, Hungarian, Italian, Japanese, Norwegian Bokmal, Polish, Portuguese, Russian, Serbian, Spanish, Swedish, Turkish
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Memory

RAM	2 GB LPDDR3
Storage	Firmware/Application: 16 GB eMMC pSLC

Wired Communications

Ethernet	100 Mbps, auto switching, auto negotiating, auto discovery, 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, IEEE 802.3at compliant
USB	USB 2.0 host

Streaming Decoder

Video Formats	H.265, H.264 (MPEG-4 part 10 AVC, MJPEG)
Audio Formats	AAC Stereo
Bitrates	Up to 25 Mbps (20 Mbps maximum recommended)
Input Resolutions	Up to 1920x1080@30fps
Protocol	RTSP

Connectors

LAN PoE	(1) 8-pin RJ45 connector, female, with 2 LED indicators; 100BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
USB	(2) USB Type A connectors, female; USB 2.0 host ports

Power

PoE (Power over Ethernet)	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 15 W from an 802.3at Type 2 PSE with LLDP advanced power management; 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) PSE
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Environmental

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

Construction

Housing	Plastic, smooth black or white finish, edge-to-edge glass with black or white surround
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TSW-570PR

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Mounting Surface mount over a 3-3/4 in. H x 2 in. W (96 mm H x 51 mm W) cutout; 2-13/16 in. (72 mm) minimum mounting depth; 1-1/4 in. (32 mm) maximum mounting surface thickness; Pre/postconstruction mounting bracket assembly included; Back box option sold separately

Dimensions

Height 5.02 in. (128 mm)
Width 2.84 in. (72 mm)
Depth 1.97 in. (50 mm)

Weight

8.82 oz (250 g)

Compliance

Regulatory Model: M201923001
IC, CE, FCC Part 15 Class B digital device

Models

TSW-570PR-B-S
5 in. Wall Mount Touch Screen, Portrait, Crestron Home™ OS Version, Black Smooth

TSW-570PR-W-S
5 in. Wall Mount Touch Screen, Portrait, Crestron Home™ OS Version, White Smooth

Included Accessories

TSW-UMB-70
Universal Mounting Bracket for TSW-70 Series

TSW-UMB-570P-PMK
Preconstruction Mounting Kit for TSW-UMB-70, Portrait

Available Accessories

TSW-UMB-70-BBI
Wall Mount Back Box for TSW-70 Series

CEN-SW-POE-5
5-Port PoE Switch

CEN-SWPOE-16
16-Port Managed PoE Switch

PWE-4803RU
PoE Injector

CEN-NVS200-PWE
Network Video Streamer with PoE Injector

DM-RMC-100-STR
HD Streaming Receiver and Room Controller 100

DM-TXRX-100-STR
HD Streaming Transmitter/Receiver

Notes:

1. Item(s) sold separately. Refer to each product's spec sheet for complete information.
2. The TSW-UMB-70 is also compatible with older TSW-UMB-PMK series preconstruction mounting kits and TSW-BBI series back boxes, allowing the TSW-570PR to be installed in place of a previous generation touch screen.

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 by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

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

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

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Rev 10/27/20

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