

TSW-552

5" Touch Screen

- > Ultra clean, modern appearance
- > Thin profile and small footprint
- > Affordable and easy to install
- > 5" widescreen active-matrix color display
- > 800 x 480 WVGA display resolution
- > Capacitive touch screen technology
- > Smart Graphics™ support [2]
- > Voice recognition capability [1]
- > High-performance H.264 streaming video
- > Rava® SIP intercom and phone technology
- > Customizable audio feedback
- > Web browsing [1]
- > On-screen keyboard
- > Customizable screensaver
- > Built-in microphone and speakers
- > 5 soft-touch capacitive buttons
- > Single-wire Ethernet connectivity
- > PoE network powered
- > Includes TSW-UMB Universal Mounting Bracket
- > Supports pre or post-construction wall mounting
- > Masonry mounting option available [3]
- > Available tabletop and swivel mount options [3]
- > Available in smooth black or white finish

Advanced Touch Screen Control

A Crestron® touch screen offers an ideal user-interface for controlling all the technology in your home, boardroom, classroom, courtroom, or command center. Touch screens do away with piles of remote controls, cluttered wall switches, and cryptic computer screens, simplifying and enhancing the way you use technology. For controlling audio, video, lighting, shades, HVAC, security, and other systems, Crestron touch screens are fully-customizable with easy-to-use controls and icons, true feedback and real-time status display, live streaming video, voice recognition, Web browsing, and advanced navigation of digital media servers, tuners, and other devices.

With its clean, contemporary design highlighted by edge-to-edge glass and stunning color graphics, the Crestron TSW-552 touch screen makes an elegant statement on any wall, tabletop, or lectern. Perfectly at home in the most contemporary residence or modern office building, its high-tech good looks underline its power for simplifying everyday tasks and functions throughout any facility.

The TSW-552 delivers the ultimate touch screen experience in an unobtrusive, space-saving design featuring a brilliant 5 inch capacitive touch screen display with Smart Graphics™ and 5 soft-touch buttons. PoE connectivity and a range of mounting options make installation a breeze for both new and retrofit applications. Additional advanced features include the abilities to control any function using voice commands, view security



cameras and other video sources, communicate using built-in intercom and phone capabilities, and browse the Internet.^[1]

Smart Graphics™ [2]

Crestron touch screens use Smart Graphics to deliver the ultimate user experience *and* the ultimate value by enabling the creation of dynamically rich user interfaces with incredible efficiency and unparalleled functionality. Using Smart Graphics, programmers can swiftly integrate fluid gesture-driven controls, animated feedback, rich metadata, embedded apps and widgets, and full-motion video for a deeply engaging and ultra-intuitive touch screen experience.

Crestron Smart Graphics offers these enhancements and more:

- Cool-looking graphical buttons, sliders, knobs, and gauges that are intuitive and fun to use
- Kinetic effects to enhance the feeling of realism, with lists and toolbars that scroll with momentum at the flick of a fingertip
- Drag-and-drop objects that snap into place, offering an easy way to switch sources
- Dashboard widgets to personalize the touch screen with clocks, weather, news, and other information [1]
- A power-saving screensaver that allows display of time, temperature, and other text content at a reduced brightness level
- Customizable themes allowing a completely different look and feel for every user, event, or season
- Fully-developed SmartObjects® that enable sophisticated control over complex devices with minimal programming

Soft-Touch Buttons

The TSW-552 includes five soft-touch capacitive buttons for quick access to commonly used functions. The buttons are pre-labeled with icons for “Power”, “Home”, “Lights”, “Up”, and “Down” functions. Each button is programmable via the control system for custom functionality.

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TSW-552-W-S – Shown in White

Voice Recognition

Some things are easier *said* than *done*, so why not just *say* what you want and let Crestron *do* it for you? With built-in voice recognition, the TSW-552 provides the ability to use spoken commands to control virtually anything. Voice recognition can be used to quickly turn devices on or off, select and play a specific media title or playlist, change the channel, choose a lighting scene, lock the doors, arm the security system, or enter a password. Simply press the Voice Recognition button and say a command and Crestron does the rest.^[1]

Streaming Video

High-performance streaming video capability makes it possible to view security cameras and other video sources right on the touch screen. Native support for H.264 and MJPEG formats allows the TSW-552 to display live streaming video from an IP camera, a streaming server (Crestron [CEN-NVS200](#), [DM-TXR-100-STR](#), or similar^[3]), or a [DigitalMedia™](#) switcher. Video is delivered to the touch screen over Ethernet, eliminating the need for any 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, video intercom^[4], and paging without any special wiring. VoIP phone capability is also possible through integration with an SIP-compatible IP phone system or SIP server, allowing hands-free telephone functionality complete with speed-dialing, caller ID, custom ringers, and other enhancements. Built-in echo cancellation affords full-duplex performance for clear, seamless voice communication using the TSW-552's integrated microphone and speakers.

Web Browsing

Its built-in Web browser allows the TSW-552 to be used to access the Internet, providing a useful utility for quickly checking on social media sites, online auctions, stocks, sports, and other online information.^[1]



TSW-552-B-S with TSW-550-TTK TableTop Mounting Kit

On-Screen Keyboard

On-screen multi-language keyboard capabilities provide for entry of passwords, URLs, and text search items.

Audio Feedback

Customized audio files can be loaded to add another dimension to the touch screen graphics using personalized sounds, button feedback, and voice prompts.

Single-Wire Connectivity

A simple Ethernet LAN connection is all that is required to wire the TSW-552, containing all control, video, intercom, and power signals within a single wire.

Power over Ethernet

Using PoE technology, the TSW-552 gets its operating power right through the LAN wiring. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. A PoE Injector ([PWE-4803RU^{\[3\]}](#)) simply connects in line with the LAN cable at a convenient location. Crestron PoE switches ([CEN-SW-POE-5](#) or [CEN-SWPOE-16^{\[3\]}](#)) may also be used to provide a total networking solution with built-in PoE.

Simple, Versatile Mounting

The TSW-552 installs easily into drywall and other surfaces using the included [TSW-UMB](#) Universal Mounting Bracket. The TSW-UMB provides a post-construction wall mounting solution that is compatible with a variety of current and future Crestron devices, allowing the device to be changed at any time without having to cut or patch the wall, or order any additional mounting hardware. Pre-construction mounting applications are also accommodated using the included [TSW-UMB-PMK](#) Pre-Construction Mounting Kit. A back box option ([TSW-550-BBI^{\[3\]}](#)) is also available for concrete and masonry applications.

When installed, the touch screen protrudes just 1/2 inch from the mounting surface and is magnetically adhered to the mounting bracket, eliminating any visible screws for an ultra clean appearance.

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Tabletop Option

Using the optional Tabletop Kit (TSW-550-TTK⁽³⁾), the TSW-552 becomes a stylish, freestanding touch screen that fits perfectly on a table, desk, or countertop. It can even be permanently attached to the surface using the optional Swivel Mount Kit (TSW-550/750/1050-SMK⁽³⁾).

SPECIFICATIONS

Touch Screen Display

Display Type: TFT Active matrix color LCD
Size: 5 inch (127 mm) diagonal
Aspect Ratio: 15:9 WVGA
Resolution: 800 x 480 pixels
Brightness: 300 nits (cd/m²)
Contrast: 450:1
Color Depth: 24-bit, 16.7M colors
Illumination: Edgelit LED
Viewing Angle: ±69° horizontal, +62°/-64° vertical
Touch Screen: Projected Capacitive

Buttons

Hard Keys: (5) Projected capacitive pushbuttons, programmable, pre-labeled with icons for "Power", "Home", "Lights", "Up", and "Down"
Reset: (1) Miniature pushbutton on rear panel for hardware reset

Memory

LPDDR2 RAM: 1 GB
Flash: 4 GB
Maximum Project Size: 512 MB

Graphics Engine

Supports Smart Graphics™⁽²⁾, multi-language Web browser⁽¹⁾, multi-language on-screen keyboard, screensaver

Languages

Smart Graphics: Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Danish, Dutch, English (UK), English (US), Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Portuguese (Brazilian), Romanian, Russian, Slovak, Spanish, Swedish, Thai

On-Screen 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

Voice Recognition: Afrikaans (South Africa); Chinese, Mandarin (China, Simplified); Chinese, Mandarin (Hong Kong, Simplified); Chinese, Mandarin (Taiwan, Traditional); Chinese, Yue (Hong Kong, Traditional); Czech (Czech Republic); Dutch (Netherlands); English (Australia); English (Canada); English (Generic); English (India); English (New Zealand); English (South Africa); English (UK); English (US); French (France); German (Germany); isiZulu (South Africa); Italian (Italy); Japanese (Japan); Korean (South

Korea); Polish (Poland); Portuguese (Brazil); Russian (Russia); Spanish (Spain); Turkish (Turkey)

Web Browser: Arabic, Bulgarian, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, Filipino, Finnish, French, German, Greek, Hebrew, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Latvian, Lithuanian, Norwegian Bokmal, Pashto, Persian, Polish, Portuguese, Romanian, Romansh, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Turkish, Ukrainian, Vietnamese

Communications

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP, IEEE 802.3af and 802.3at Type 1 compliant

Video

Streaming Formats: H.264 (MPEG-4 part 10 AVC), MJPEG

Audio

Features: Built-in microphone and speakers, Rava® SIP Intercom, multi-language voice recognition⁽¹⁾

Audio Feedback Formats: MP3

Connectors

LAN PoE: (1) 8-wire RJ45 with 2 LED indicators; 10Base-T/100Base-TX Ethernet port, Power over Ethernet compliant; Green and yellow LEDs indicate Ethernet port status

Power Requirements

Power over Ethernet: IEEE 802.3at Type 1 (802.3af compatible) Class 3 (12.95W) PoE Powered Device

Environmental

Temperature: 32° to 112°F (0° to 45°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 44 BTU/hr

Enclosure

Construction: Plastic, smooth black or white finish
Mounting: Surface mount over a 2.5 in (64 mm) high x 3.75 in (96 mm) wide cutout, pre/post-construction mounting bracket assembly included, optional tabletop kit or back box sold separately.

Dimensions

Height: 3.65 in (93 mm)
Width: 5.65 in (144 mm)
Depth: 2.03 in (52 mm)

Weight

9.5 oz (267 g)

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MODELS & ACCESSORIES

Available Models

- TSW-552-B-S: 5" Touch Screen, Black Smooth
- TSW-552-W-S: 5" Touch Screen, White Smooth

Included Accessories

- TSW-UMB: Universal Mounting Bracket (Qty. 1 included)
- TSW-UMB-PMK: Pre-Construction Mounting Kit for TSW-UMB (Qty. 1 included)

Available Accessories

- TSW-550-TTK: Tabletop Kit
- TSW-550/750/1050-SMK: Swivel Mount Kit for TSW-550-TTK
- TSW-UMB: Universal Mounting Bracket
- TSW-UMB-PMK: Pre-Construction Mounting Kit for TSW-UMB
- TSW-550-BBI: Wall Mount Back Box - International Version
- PWE-4803RU: PoE Injector
- CEN-SW-POE-5: 5-Port PoE Switch
- CEN-SWPOE-16: 16-Port Managed PoE Switch
- CEN-NVS200: Network Video Streamer
- DM-TXRX-100-STR: HD Streaming Transmitter/Receiver
- SW-VMK-WIN: TouchPoint® Virtual Mouse & Keyboard Software for Windows®

Notes:

1. Voice recognition, Web browsing, weather information, and certain other functions require an Internet connection.
2. Supports Smart Graphics only. Not compatible with "traditional" UI projects.
3. Item(s) sold separately.
4. H.264 compatible IP camera required.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

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

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