

# 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
- > Multi-touch capable
- > Smart Graphics™ performance [2]
- > Voice recognition capability [1]
- > H.264 or MJPEG streaming video
- > Rava® SIP intercom and phone technology
- > Customizable audio feedback
- > Built-in web browsing [1]
- > On-screen multi-language 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
- A consistent look and feel across multiple touch screens of varying sizes

# TSW-552 5" Touch Screen



TSW-552-W-S – Shown in White

## 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.

## 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.<sup>[1]</sup>

## 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 encoder (Crestron [CEN-NVS200](#), [DM-TXRX-100-STR](#), or similar<sup>[3]</sup>), 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,<sup>[4]</sup> and paging without requiring 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.



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

## Web Browsing

Using its built-in web browser, the TSW-552 provides quick access to online program guides and other web-based services at the touch of a button, allowing enhanced touch screen control of DVRs and other appliances without having to pick up a separate tablet or smartphone. If a device can be controlled or managed through a web browser, it can be integrated into the Crestron system through the TSW-552. Of course, the web browser may also be used to simply browse the Internet, check traffic conditions, or look up a recipe.<sup>[1]</sup>

## On-Screen Keyboard

Typing in passwords, URLs, and text searches is facilitated using the on-screen multi-language keyboard.

## Multi-Touch Support

The TSW-552's capacitive touch screen affords enhanced capabilities for browsing web pages using multi-touch gestures.

## 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](#)<sup>[3]</sup>) simply connects in line with the LAN cable at a convenient location. Crestron PoE switches ([CEN-SW-POE-5](#) or [CEN-SW-POE-16](#)<sup>[3]</sup>) may also be used to provide a total networking solution with built-in PoE.

# TSW-552 5" Touch Screen

## 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](#)<sup>[3]</sup>) 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.

## Tabletop Option

Using the optional Tabletop Kit ([TSW-550-TTK](#)<sup>[3]</sup>), 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](#)<sup>[3]</sup>).

## 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/m<sup>2</sup>)

**Contrast:** 450:1

**Color Depth:** 24-bit, 16.7M colors

**Illumination:** Edgelit LED

**Viewing Angle:** ±69° horizontal, +62°/-64° vertical

**Touch Screen:** Projected capacitive, 2-point multi-touch capable

### 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

### Graphics Engine

---

Crestron Smart Graphics,<sup>[2]</sup> multi-language web browser,<sup>[1]</sup> multi-language on-screen keyboard, screensaver, single scalable streaming video window

### 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

### Memory

---

**LPDDR2 RAM:** 1 GB

**Flash:** 4 GB

**Maximum Project Size:** 512 MB

### Communications

---

**Ethernet:** 10/100 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, IEEE 802.3af and 802.3at Type 1 compliant

### Streaming Decoder

---

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

**Audio Formats:** AAC stereo

**Bitrates:** Up to 25 Mbps

**Streaming Input Resolutions:** Up to 1920x1080@60fps (1280x720@15fps maximum recommended)

### Audio

---

**Features:** Built-in microphone and speakers, Rava SIP Intercom, multi-language voice recognition <sup>[1]</sup>

**Audio Feedback Formats:** MP3

### Connectors

---

**LAN PoE:** (1) 8-pin 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 (12.95 W) PoE Powered Device

# TSW-552 5" Touch Screen

## 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, edge-to-edge glass with black or white surround

**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)

## 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

### 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](http://www.crestron.com/salesreps) or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

Crestron, the Crestron logo, DigitalMedia, Rava, Smart Graphics, and SmartObjects are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography. Specifications are subject to change without notice. ©2016 Crestron Electronics, Inc.

# TSW-552 5" Touch Screen

