TSW-752

7” Touch Screen

> Ultra clean, modern appearance
> Thin profile and small footprint
> Affordable and easy to install
> 7” widescreen active-matrix color display
> 800 x 480 WVGA display resolution
> Capacitive touch screen technology
> Smart Graphics™ support [1]
> High-performance H.264 streaming video
> Rava™ SIP intercom and phone technology
> Customizable audio feedback
> Voice recognition capability
> Web browsing
> On-screen keyboard
> Customizable screensaver
> Built-in microphone and speakers
> 5 soft-touch capacitive buttons
> Single-wire Ethernet connectivity
> PoE network powered
> Supports US or European electrical wall box mounting
> Can be mounted directly to drywall or paneling over a cutout
> Compatible with TSW-UMB Universal Mounting Bracket [2]
> Compatible with TSW-RMB Retrofit Mounting Brackets [2]
> Pre-construction and masonry mounting options available [2]
> Available tabletop and swivel mount options [2]
> 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.

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, metadata, embedded
apps, and full-motion video for a deeply engaging and ultra-intuitive touch
screen experience.

With its clean, contemporary design highlighted by edge-to-edge glass and
stunning color graphics, the Crestron TSW-752 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-752 delivers the ultimate touch screen experience in an
unobtrusive, space-saving design featuring a brilliant 7 inch capacitive
touch screen display and 5 soft-touch buttons. PoE connectivity and a
range of mounting options make installation a breeze for both new and
retrofit applications. Additional features include voice recognition, high-

Smart Graphics™ [1]
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Crestron Smart Graphics include the following enhancements:

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

Soft-Touch Buttons
The TSW-752 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
As an alternative to pressing buttons and scrolling through lists, the TSW-752 provides the ability to simply use voice commands to control virtually anything. Voice recognition can be used to quickly select and play a specific media title or playlist, change the television or radio channel, choose a lighting scene, lock the doors, or enter a password. Simply press the Voice Recognition button and say a command and Crestron does the rest.

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-752 to display live streaming video from an IP camera, a streaming server (Crestron CEN-NVS200 or similar), a DigitalMedia™ switcher, or a Capture HD® system. 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 between any two Rava-enabled Crestron touch screens. Rava works over Ethernet, supporting 2-way intercom, video intercom(1), 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 true-duplex performance for clear, seamless voice communication using the TSW-752’s integrated microphone and speakers.

Web Browsing
Its built-in Web browser allows the TSW-752 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.

On-Screen Keyboard
On-screen keyboard capabilities provide for entry of passwords, URLs, and text search items in a range of international languages.

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-752, containing all control, video, intercom, and power signals within a single wire.

Power over Ethernet
Using PoE technology, the TSW-752 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(2)) simply connects in line with the LAN cable at a convenient location. Crestron PoE switches (CEN-SW-POE-5 or CEN-SWPOE-16(2)) may also be used to provide a total networking solution with built-in PoE.

Simple, Versatile Mounting
Using the bracket provided, the TSW-752 installs easily over a 2-gang or 3-gang electrical box, or a 2-gang European electrical box. It can also be attached directly to drywall and other surfaces over the front of a 2-3/8" H x 3-3/8" W (60mm H x 86mm W) cutout. When installed, it protrudes just 1/2 inch from the mounting surface and is magnetically adhered to its mounting bracket, eliminating any visible screws for an ultra clean appearance.(4)

Crestron also offers the TSW-UMB Universal Mounting Bracket(5), which provides a post-construction wall mounting solution that can accommodate a variety of current and future Crestron devices including the TSW-752. The TSW-UMB makes it easy to change devices at any time without having to cut or patch the wall, or order any additional mounting hardware. For a pre-construction mounting solution, the TSW-UMB can be used along with a TSW-UMB-PMK Pre-Construction Mounting Kit(6). Masonry and concrete applications can be accommodated using the TSW-UMB along with a TSW-550-BBI back box(6).
Replacing an older Crestron touch screen with a new TSW-752 can be made simple using a TSW-RMB Retrofit Mounting Bracket. A variety of adapter brackets are available to enable easy installation of the TSW-752 right over the existing back box, mounting kit, or cut-out.

**TableTop Option**

Using the optional TableTop Kit (TSW-750-TTK), the TSW-752 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).

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**SPECIFICATIONS**

**Touch Screen Display**

- **Display Type:** TFT Active matrix color LCD
- **Size:** 7 inch (178 mm) diagonal
- **Aspect Ratio:** 15:9 WVGA
- **Resolution:** 800 x 480 pixels
- **Brightness:** 300 nits (cd/m²)
- **Contrast:** 350:1
- **Color Depth:** 18-bit, 262k colors
- **Illumination:** Edgelit LED
- **Viewing Angle:** ±70° horizontal, ±65° 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™, multi-language Web browser, 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
- **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°F to 112°F (0°C 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 or 3-gang electrical box, 2-Gang European (DIN 49073) electrical box, or 2-3/8" H x 3-3/8" W (60mm H x 86mm W) cutout; additional wall mount and tabletop options available separately

**Dimensions**

- **Height:** 4.74 in (121 mm)
- **Width:** 7.59 in (193 mm)
- **Depth:** 2.03 in (52 mm)
**TSW-752  7” Touch Screen**

**Weight**

14.1 oz (400 g)

**MODELS & ACCESSORIES**

**Available Models**

- TSW-752-B-S: 7” Touch Screen, Black Smooth
- TSW-752-W-S: 7” Touch Screen, White Smooth

**Available Accessories**

- TSW-750-ETK: TableTop Kit
- TSW-550/750/1050-SMK: Swivel Mount Kit for TSW-750-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
- TSW-750-RMB-1: Retrofit Mounting Bracket - Converts APAD, CT/LC-1000, or TPS-2000L to TSW-752
- TSW-750-RMB-2: Retrofit Mounting Bracket - Converts TPS-4L to TSW-752
- PWE-4803RU: PoE Injector
- CEN-SW-POE-5: 5-Port PoE Switch
- CEN-SWPOE-16: 16-Port Managed PoE Switch
- CEN-SWPOE-24: 24-Port Managed PoE Switch Limited Supply
- CEN-NVS200: Network Video Streamer
- SW-VMK-WIN: TouchPoint® Virtual Mouse & Keyboard Software for Windows®

**Notes:**

1. Supports Smart Graphics only. Not compatible with “traditional” UI projects.
2. Item(s) sold separately.
3. H.264 compatible IP camera required.
4. For proper positioning of the touch screen unit, the electrical box or cut-out must be positioned approximately 1/4” to the right of center, and 1/10” above center.

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).

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