

# TPS-6XWALL

## Isys™ 5.7" Wall Mount Wireless Touchpanel

The TPS-6XWALL is a wall mount version of the Isys **TPS-6X** Wireless Touchpanel, delivering high-end style and performance in a convenient flush mount design. The TPS-6XWALL goes easily from wired wall mount to fully wireless handheld operation at the press of a button or entry of a passcode.

Compact and portable, the TPS-6X does away with piles of remotes and cryptic control panels, affording true "one-touch" control over a broad range of complex devices and systems. Featuring a bright, beautiful, high-contrast color touchscreen, and a smart array of backlit tactile pushbuttons<sup>[1]</sup>, the TPS-6X offers an ideal user-interface for controlling home theater and multimedia presentation, as well as a host of other uses.

### Isys™ Color Touchscreen

The TPS-6X provides a wide open canvas for the creation of custom control screens tailored to each unique application. Its brilliant 5.7" active-matrix display and powerful Isys engine combine to produce stunning 16-bit color graphics with extreme versatility and lightning-fast performance. Dynamic graphics and text capability enable the display of all kinds of useful data and alluring eye candy—from audio settings, TV channels, and lighting levels—to changing icons, photos, and logos—to digital media playlists complete with album cover art.

Crestron exclusive DNav and Synapse™ technologies enable system programmers to produce amazing graphics faster and easier using advanced dynamic control menus and 3D effects. Additional capabilities like animations, multimode objects, PNG translucency, and full-motion video<sup>[2]</sup> enhance the palette for creating GUIs that are both eye-catching and easy to use.

### Tactile Pushbuttons

In addition to its touchscreen, the TPS-6X features illuminated tactile pushbuttons for quick access to volume adjustment, channel selection, and on-screen menu navigation functions. Eight additional pushbuttons, elegantly trimmed by illuminated button dividers, flank the edges of the touchscreen to support additional programmable functions.

High-quality backlit laser-engraving lends a crisp, legible appearance to button text in both darkened and fully lit rooms<sup>[1]</sup>. The pushbuttons come pre-engraved with labeling suited to a typical home theater or multimedia presentation application. If needed, customized engraving can be attained simply using Crestron Engraver software. A no-button front bezel is also included with the TPS-6X, which may be installed in place of the button bezel for a very clean appearance with no front panel pushbuttons.

Two additional "trigger" style buttons are positioned on top of the TPS-6X for easy control of the display brightness, sleep mode, and other programmable functions.

### High Powered Wireless

The TPS-6X brings a new level of wireless versatility to the Isys family of touchpanels. With both 2-way RF and 1-way IR wireless capabilities built in, the TPS-6X offers a choice of wireless platforms to suit the environment.

Crestron high-power 2.4 GHz RF technology allows long range performance up to 200 feet indoors<sup>[3]</sup> using the **CEN-HPRFGW** High Powered RF Gateway<sup>[4]</sup>. For even greater coverage, the TPS-6X supports roaming amongst up to 8 CEN-HPRFGW gateways. A range of selectable RF channels and



power levels helps to maximize performance for both small and large facilities—from boardrooms, classrooms, and home theaters to auditoriums and convention centers. High-speed bidirectional communication supports true feedback with dynamic graphics and text, affording the capabilities of a wired Isys touchpanel in a fully wireless portable package.

Built-in IR capability affords a wireless alternative that's immune to extremely noisy RF environments and suitable for sensitive applications where RF may not be permitted. An operational range of up to 50 feet line-of-sight is possible using a **C2N-IRGW-1G** or **C2N-IRGW-F** IR Gateway<sup>[4]</sup> or **CNXRMIRD** IR Receiver<sup>[4]</sup>.

### Wall Mount Docking Station

Placing the touchpanel into the **TPS-6X-DSW** Wall Mount Docking Station<sup>[5]</sup> allows it to be used as a stationary wall mount touchpanel, providing wired communications and video capability while charging the touchpanel's internal battery. Both wired Ethernet and Crestron® connectivity are available. When the touchpanel is placed in the docking station, it can switch automatically from RF wireless to fully-wired operation if either Ethernet or Crestron is connected. Without a wired Ethernet or Crestron connection present, the touchpanel will continue to operate wirelessly while it charges.

While docked, the touchpanel is partially recessed, providing a refined appearance and useful functionality while inhibiting unauthorized removal. By pressing a button or entering a passcode on the touchpanel, the mechanism gently extends the touchpanel outward, allowing it to be released for wireless use.

The TPS-6X-DSW is designed for easy flush-mount installation in a flat, vertical wall structure. A variety of mounting accessories is offered for both pre- and post-construction applications.

### Full-Motion Video<sup>[2]</sup>

When docked, the TPS-6X can display full-motion video, providing the ability to monitor a security camera, or preview a DVD or television channel, right on the touchscreen display. The video image is fully scalable for viewing in any sized window or full screen. The choice of balanced or unbalanced composite inputs allows compatibility with both conventional coaxial and Crestron Home® Balanced AV distribution systems.

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- > Lightweight contoured design for wireless handheld use
- > Also affords full-featured wall mount touchpanel operation
- > Elegant high gloss black or white, or matte black finishes
- > Non-slip rubber grips on rear
- > Illuminated buttons and engravable backlit text<sup>[1]</sup>
- > 5.7" active matrix color touchscreen display
- > 16-bit Isys™ graphics | 640 x 480 resolution
- > Dynamic graphics & text capability
- > DNav dynamic menu objects
- > Synapse Image Rendering Algorithm
- > Displays full-motion video while docked
- > High-power, high-speed 2.4 GHz RF wireless technology
- > Up to 200 feet RF range indoors
- > Supports roaming for extended RF coverage
- > 1-way IR wireless capability also built in
- > Includes wall mount docking station and NiMH rechargeable battery pack
- > Wired Ethernet, Cresnet®, and Crestron Home® CAT5 video connectivity
- > No-button front bezel option included
- > Multiple wall mounting options available

## SPECIFICATIONS

### Touchscreen Display

**Display Type:** TFT Active matrix color LCD

**Size:** 5.7 inch (145 mm) diagonal

**Aspect Ratio:** 4:3 QVGA

**Resolution:** 640 x 480 pixels

**Brightness:** 350 nits (cd/m<sup>2</sup>)

**Contrast:** 400:1

**Color Depth:** 18-bit, 256k colors

**Illumination:** Backlit fluorescent

**Viewing Angle:** ±80° horizontal, +80°/-70° vertical

**Touchscreen:** Resistive membrane

### Buttons & Switches

**Sleep:** (1) Programmable top-mounted pushbutton (left); normally initiates "Sleep" mode when docked, turns power on/off when undocked; also resets touchpanel if held for 5 seconds

**Brightness:** (1) Programmable top-mounted pushbutton (right), normally sets display brightness level

**Hard Keys:** (8) Optional programmable pushbuttons, engravable backlit text<sup>[1,4]</sup> (default engraving included)

**Up/Down:** (2) Optional programmable "up/down" pushbuttons, backlit, engravable<sup>[1,4]</sup> on bezel (default engraving included)

**Thumbpad:** (5) Optional programmable pushbuttons for 4-way directional navigation and "enter", backlit

**Battery:** (1) Rear panel recessed DIP switch, shuts off battery for long-term storage

### LED Indicators

**Battery:** (1) Green LED, indicates battery condition and charging status when docked

### Connectors

**Docking Connector:** (1) multi-pin connector;

Mates with the docking port on the **TPS-6X-DSW** wall mount docking station<sup>[5]</sup>

See the **TPS-6X-DSW**<sup>[5]</sup> specification for other connectors

### Processor

**CPU:** 32-bit Freescale ColdFire® Microprocessor

### Memory

**SDRAM:** 32 MB

**Flash:** 32 MB

**Maximum Project Size:** 28 MB

### Graphic Engine

Isys engine; 16-bit non-palette graphics; 65,536 colors; Synapse image rendering algorithm; multi-mode objects, DNav dynamic menu objects, dynamic graphics, PNG translucency, full-motion (60 fps) animation, color key video windowing

### RF Wireless

**RF Transceiver:** 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), IEEE 802.15.4 compliant

**Transmitting Power:** 75 mW (Ch.11), 100 mW (Ch.12-23), 15 mW (Ch.24), 3.5 mW (Ch.25), 1 mW (Ch.26) @ High Setting; 1 mW (Ch.11-25), 0.5 mW (Ch.26) @ Low Setting

**Range:** 100 to 200 feet maximum indoor, 1000 feet outdoor, subject to site-specific conditions

**Gateway:** Requires a **CEN-HPRFGW** RF Gateway<sup>[4]</sup>

**Roaming:** Supports roaming amongst up to 8 RF gateways

### IR Wireless<sup>[6]</sup>

**IR Transmitter:** 38 kHz, RC5 format

**Range:** 50 feet typical

**Gateway:** Requires a **C2N-IRGW-1G** or **C2N-IRGW-F** IR Gateway<sup>[4]</sup>, or **CNXRMIRD** IR Receiver<sup>[4]</sup>

### Wired Communications<sup>[2]</sup>

**Ethernet:** 10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP

**Cresnet:** Supports Cresnet slave mode

### Video<sup>[2]</sup>

**Signal Types:** Composite

**Formats:** NTSC 480i or PAL 576i

**Color Depth:** 18-bit; 262,144 colors

**Windowing:** Single-window, deinterlaced and scalable up to full-screen

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## Audio

Internal transducer for keyclick sound

## Battery

**Internal Battery:** NiMH, 4.8 Volt, 2000 mAh, model **TPS-6X-BTP**<sup>[2]</sup>

**Usage per Charge:** ~2 hours continuous, 2 days under normal use with factory settings

**Charging Time:** ~2.5 hours (~2.5 to 3 hours when in use)

## Power Requirements

**Cresnet Power Usage:** 43 Watts (1.8 Amps @ 24 Volts DC), includes **TPS-6X-DSW** docking station<sup>[5]</sup>

## Environmental

**Temperature:** 32° to 112°F (0° to 45°C);

50° to 104°F (10° to 40°C) while charging

**Humidity:** 10% to 90% RH (non-condensing)

**Heat Dissipation:** 147 BTU/hour

## Enclosure

**Construction:** Injection-molded plastic, non-slip grips/feet, integral docking station port

**Front Bezels:** Button and no-button bezels included; button bezel includes white translucent illuminated Up/Down and Thumbpad buttons and 8 hardkey buttons with illuminated dividers and default backlit text engraving, optional custom backlit text engraving sold separately<sup>[1]</sup>

## Dimensions

**Height:** 5.10 in (130 mm)

**Width:** 8.08 in (206 mm)

**Depth:** 1.57 in (40 mm)

## Weight

1.59 lb (720 g)

## Available Models

**TPS-6XWALL:** Isys® 5.7" Wall Mount Wireless Touchpanel, Gloss Black

**TPS-6XWALL-B-T:** Isys® 5.7" Wall Mount Wireless Touchpanel, Matte Black

**TPS-6XWALL-W-S:** Isys® 5.7" Wall Mount Wireless Touchpanel, Gloss White

## Included Accessories

**TPS-6X-BTP** Replacement battery pack for TPS-6X

[Included Quantity for TPS-6XWALL, TPS-6XWALL-B-T, TPS-6XWALL-W-S: 1]

**TPS-6X-DSW** Wall Mount Docking Station for TPS-6X, Gloss Black

[Included Quantity for TPS-6XWALL: 1]

**TPS-6X-DSW-B-T** Wall Mount Docking Station for TPS-6X-B-T, Matte Black

[Included Quantity for TPS-6XWALL-B-T: 1]

**TPS-6X-DSW-W-S** Wall Mount Docking Station for TPS-6X-W-S, Gloss White

[Included Quantity for TPS-6XWALL-W-S: 1]

**TPS-6X-FP\_ENGRAVED** Backlit Engravable Button Bezel Kit (engraved), Gloss Black

[Included Quantity for TPS-6XWALL: 1]

**TPS-6X-FPB-T\_ENGRAVED** Backlit Engravable Button Bezel Kit (engraved), Matte Black

[Included Quantity for TPS-6XWALL-B-T: 1]

**TPS-6X-FPW-S\_ENGRAVED** Engravable Button Bezel Kit (engraved), Gloss White

[Included Quantity for TPS-6XWALL-W-S: 1]

**TPS-6X-FP-NB** No-Button Bezel Kit for TPS-6 & TPS-6X, Gloss Black

[Included Quantity for TPS-6XWALL: 1]

**TPS-6X-FPB-T-NB** No-Button Bezel Kit for TPS-6-B-T & TPS-6X-B-T, Matte Black

[Included Quantity for TPS-6XWALL-B-T: 1]

**TPS-6X-FPW-S-NB** No-Button Bezel Kit, Gloss White

[Included Quantity for TPS-6XWALL-W-S: 1]

## Available Accessories

**TPS-6X-FP\_ENGRAVED:** Backlit Engravable Button Bezel Kit (engraved), Gloss Black

**TPS-6X-FPB-T\_ENGRAVED:** Backlit Engravable Button Bezel Kit (engraved), Matte Black

**TPS-6X-FPW-S\_ENGRAVED:** Engravable Button Bezel Kit (engraved), Gloss White

**TPS-6X-FP\_BLANK:** Backlit Engravable Button Bezel Kit (blank), Gloss Black

**TPS-6X-FPB-T\_BLANK:** Backlit Engravable Button Bezel Kit (blank), Matte Black

**TPS-6X-FPW-S\_BLANK:** Engravable Button Bezel Kit (blank), Gloss White

**CEN-HPRFGW:** High Powered RF Gateway

**CENI-HPRFGW:** High Powered RF Gateway - International Version, 230V

**C2N-IRGW-1G:** Wall Mount IR Gateway

**C2N-IRGW-F:** Flush Mount IR Gateway

**CNXRMIRD:** IR Receiver

**BB-6X-DSW:** Pre-Construction Wall Mount Back Box

**BBI-6X-DSW:** Back Box - International Version

**PMK-6X-DSW:** Pre-Construction Wall Mount Kit

**TMK-6X-DSW:** Trim Ring for BB-6X-DSW or PMK-6X-DSW

**MMK-6X-DSW:** Mud Ring for BB-6X-DSW or PMK-6X-DSW

**WMKT-6X-DSW:** Post-Construction Wall Mount Kit with Trim Ring

**WMKM-6X-DSW:** Post-Construction Wall Mount Kit with Mud Ring

**TPS-6X-DS:** Desktop Docking Station, Gloss Black

**TPS-6X-DS-B-T:** Desktop Docking Station, Matte Black

**TPS-6X-DS-W-S:** Desktop Docking Station, Gloss White

**TPS-6XNL-DS:** Desktop Docking Station, No Lock, Charging Only, Gloss Black

**TPS-6XNL-DS-B-T:** Docking Station, No Lock, Charging Only, Matte Black

**TPS-6XNL-DS-W-S:** Docking Station, No Lock, Charging Only, Gloss White

**TPS-6X-DS-C:** Desktop Docking Station, Charging Only, Gloss Black

**TPS-6X-DS-C-B-T:** Desktop Docking Station, Charging Only, Matte Black

**TPS-6X-DS-C-W-S:** Desktop Docking Station, Charging Only, Gloss White

**TPS-6XNL-DS-C:** Desktop Docking Station, No Lock, Gloss Black

**TPS-6XNL-DS-C-B-T:** Desktop Docking Station, No Lock, Matte Black

**TPS-6XNL-DS-C-W-S:** Desktop Docking Station, No Lock, Gloss White

**CRESCAT-NP-SP500:** Crestron Home® CAT5 AV Cable, Single CAT5e & Cresnet, non-plenum, 500 ft spool

**CRESCAT-D-NP-SP500:** Crestron Home® CAT5 AV Cable, 2x CAT5e & Cresnet, non-plenum, 500 ft spool

**CRESCAT-D-HP-NP-TL-SP500:** Crestron Home® CAT5 AV Cable, 2x CAT5e & Cresnet "High-Power", non-plenum, teal, 500 ft spool

**CRESNET-NP-TL-SP500:** Cresnet® Control Cable, non-plenum, teal, 500 ft spool

**CRESNET-NP-TL-SP1000:** Cresnet® Control Cable, non-plenum, teal, 1000 ft spool

**CRESNET-NP-TL-B250:** Cresnet® Control Cable, non-plenum, teal, 250 ft box

**CRESNET-NP-TL-B500:** Cresnet® Control Cable, non-plenum, teal, 500 ft box

**CRESNET-NP-BK-B500:** Cresnet® Control Cable, non-plenum, black, 500 ft box

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**CRESNET-NP-OR-B500:** Cresnet® Control Cable, non-plenum, orange, 500 ft box

**CRESNET-NP-YL-B500:** Cresnet® Control Cable, non-plenum, yellow, 500 ft box

**CRESNET-P-TL-SP500:** Cresnet® Control Cable, plenum, teal, 500 ft spool

**CRESNET-P-TL-SP1000:** Cresnet® Control Cable, plenum, teal, 1000 ft spool

**CRESNET-P-BK-SP500:** Cresnet® Control Cable, plenum, black, 500 ft spool

**CRESNET-P-OR-SP500:** Cresnet® Control Cable, plenum, orange, 500 ft spool

**CRESNET-P-YL-SP500:** Cresnet® Control Cable, plenum, yellow, 500 ft spool

**CRESNET-HP-NP-TL-SP500:** Cresnet® "High-Power" Control Cable, non-plenum, teal, 500 ft spool

**CRESNET-HP-NP-TL-SP1000:** Cresnet® "High-Power" Control Cable, non-plenum, teal, 1000 ft spool

Notes:

1. Text engraving is not backlit on the white model.
2. Requires a wired connection via the docking station.
3. 100 to 200 feet indoor range, subject to site-specific conditions.
4. Item sold separately.
5. Item included, see individual product specifications for additional information.
6. When IR wireless is enabled, the RF transceiver is disabled, and wired communication is restricted to console functions only (i.e., programming and configuration).