

TPS-6XWALL

Isys® 5.7" Wall Mount Wireless Touch Screen

- > Lightweight contoured design for wireless handheld use
- > Also affords full-featured wall mount touch screen operation
- > Elegant smooth black or white, or textured black finishes
- > Non-slip rubber grips on rear
- > Illuminated buttons and engravable backlit text^[2]
- > 5.7" active matrix color touch screen 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
- > Extended Range 2.4 GHz RF wireless technology
- > Up to 200 feet RF range indoors^[4]
- > Supports roaming for even greater RF coverage
- > 1-way IR wireless capability also built in^[1]
- > 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^[5]

The TPS-6XWALL is a wall mount version of the Isys® TPS-6X Wireless Touch Screen, 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. Additional wireless versatility is afforded through the choice of Extended Range 2-way RF and 1-way IR wireless capability^[1].

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 touch screen display, and a smart array of backlit tactile pushbuttons^[2], 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 Touch Screen

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^[3] enhance the palette for creating GUIs that are both eye-catching and easy to use.

Tactile Pushbuttons

In addition to its touch screen display, 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 touch screen 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^[2]. 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^[2]. 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.

Extended Range RF Wireless

Crestron Extended Range 2.4 GHz RF technology affords exceptional wireless performance up to 200 feet indoors^[4] using the [CEN-ERFGW-POE](#) Extended Range RF Wireless Gateway^[5]. For even greater coverage, the TPS-6X supports roaming amongst up to 8 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 touch screen in a fully wireless portable package.

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IR Wireless^[1]

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^[5] or CNXRMIRD IR Receiver^[5].

Wall Mount Docking Station

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

While docked, the touch screen is partially recessed, providing a refined appearance and useful functionality while inhibiting unauthorized removal. By pressing a button or entering a passcode on the touch screen, the mechanism gently extends the touch screen 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.^[5]

Full-Motion Video^[3]

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 touch screen 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[®] CAT5 Balanced AV distribution systems.^[3]

On-Screen Keyboard/Mouse

On-screen keyboard and mouse capabilities enable the TPS-6X to provide full control of computers running TouchPoint[®] Virtual Mouse & Keyboard Software (VMK-WIN).

SPECIFICATIONS

Touch Screen 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/m²)
Contrast: 400:1
Color Depth: 18-bit, 256k colors
Illumination: Backlit fluorescent
Viewing Angle: ±80° horizontal, +80°/-70° vertical
Touch Screen: Resistive membrane

Buttons, Switches & Indicators

Sleep: (1) Programmable top-mounted pushbutton (left); normally initiates "Sleep" mode when docked, turns power on/off when undocked; also resets the unit 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^[2]

Up/Down: (2) Optional programmable "up/down" pushbuttons, backlit, engravable backlit text on bezel^[2]

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

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

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

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 (typical): 100 to 200 feet maximum indoor, 1000 feet outdoor, subject to site-specific conditions

Gateway: Requires a CEN-ERFGW-POE Extended Range RF Gateway^[5]

Roaming: Supports roaming amongst up to 8 RF gateways

IR Wireless^[1]

IR Transmitter: 38 kHz, RC5 format

Range: 50 feet typical

Gateway: Requires a C2N-IRGW-1G or C2N-IRGW-F IR Gateway^[5], or CNXRMIRD IR Receiver^[5]

Wired Communications^[3]

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP

Cresnet[®]: Supports Cresnet slave mode

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Video^[3]

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

Audio

Internal transducer for keyclick sound

Connectors

Docking Connector: (1) multi-pin connector;
Mates with the docking port on the TPS-6X-DSW wall mount docking station^[6]

See the TPS-6X-DSW^[6] specification for other connectors

Battery

Internal Battery: NiMH, 4.8 Volt, 2000 mAh, model TPS-6X-BTP^[6]
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^[6]

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: Plastic, non-slip grips/feet, integral docking station port
Front Bezels: Plastic, 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^[2]

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)

MODELS & ACCESSORIES

Available Models

TPS-6XWALL: Isys® 5.7" Wall Mount Wireless Touch Screen, Black Smooth
TPS-6XWALL-B-T: Isys® 5.7" Wall Mount Wireless Touch Screen, Black Textured
TPS-6XWALL-W-S: Isys® 5.7" Wall Mount Wireless Touch Screen, White Smooth

Included Accessories

TPS-6X-BTP: Battery pack (Qty. 1 included)
TPS-6X-DSW: Wall Mount Docking Station (Qty. 1 included)
TPS-6X-FP-NB: No-Button Bezel Kit (Qty. 1 included)

Available Accessories

TPS-6X-FP: Backlit Engravable Button Bezel Kit w/custom engraving
CEN-ERFGW-POE: Extended Range RF Wireless Gateway
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
TPS-6XNL-DS: Desktop Docking Station, No Lock, Charging Only
TPS-6X-DS-LP: Low-Profile Desktop Docking Station for TPS-6X
TPS-6X-DS-C: Desktop Docking Station, Charging Only
TPS-6XNL-DS-C: Desktop Docking Station, No Lock
TPS-6X-DSC-LP: Low-Profile Desktop Docking Station for TPS-6X, Charging Only
CRESCAT-NP: Crestron Home® CAT5 AV Cable, Single CAT5e & Cresnet, non-plenum
CRESCAT-D-NP: Crestron Home® CAT5 AV Cable, 2x CAT5e & Cresnet, non-plenum
CRESCAT-D-HP-NP: Crestron Home® CAT5 AV Cable, 2x CAT5e & Cresnet "High-Power", non-plenum
CRESNET-NP: Cresnet® Control Cable, non-plenum
CRESNET-P: Cresnet® Control Cable, plenum
CRESNET-HP-NP: Cresnet® "High-Power" Control Cable, non-plenum
SW-VMK-WIN: TouchPoint® Virtual Mouse & Keyboard Software for Windows®

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Notes:

1. When IR wireless is enabled, the RF transceiver is disabled, and wired communication is restricted to console functions only (i.e., programming and configuration).
2. Text engraving is not backlit on the white model. All models include default engraving. Custom engraving sold separately. All buttons may be removed using the TPS-6X-FP-NB No-Button Bezel (included).
3. Touch screen must be docked to enable video or wired communication.
4. 100 to 200 feet indoor range, subject to site-specific conditions.
5. Item(s) sold separately.
6. Item included, see individual product specifications for additional information.

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.

Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography.

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

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