

# TPS-6X

## Isys® 5.7" Wireless Touch Screen

- > Lightweight contoured design for wireless handheld use
- > Also affords full-featured tabletop tilt touch screen operation
- > Elegant smooth black or white, or textured black finishes
- > Non-slip rubber grips on rear
- > Illuminated buttons and engravable backlit text<sup>[2]</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
- > Extended Range 2.4 GHz RF wireless technology
- > Up to 200 feet RF range indoors<sup>[4]</sup>
- > Supports roaming for even greater RF coverage
- > 1-way IR wireless capability also built in<sup>[1]</sup>
- > Choice of 3 different tabletop docking stations
- > Wired Ethernet, Cresnet®, and Crestron Home® CAT5 video connectivity
- > No-button front bezel option included

The Isys® TPS-6X Wireless Touch Screen delivers high-end style and performance in a very versatile, ergonomic design. With its sleek and innovative desktop docking station, the TPS-6X goes effortlessly from wired tabletop use to fully wireless handheld operation. The TPS-6X brings a new level of wireless versatility to the Isys family of touch screens with Extended Range 2-way RF and 1-way IR wireless capabilities built in, affording a choice of wireless platforms to suit the environment<sup>[1]</sup>.

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<sup>[2]</sup>, the TPS-6X offers an ideal user-interface for controlling home theater and multimedia presentation, and 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<sup>[3]</sup> enhance the palette for creating GUIs that are both eye-catching and easy to use.



TPS-6X model shown with TPS-6X-DS Desktop Docking Station

### 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<sup>[2]</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<sup>[2]</sup>. 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<sup>[4]</sup> using the [CEN-ERFGW-POE](#) Extended Range RF Wireless Gateway<sup>[5]</sup>. 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.

# TPS-6X Isys® 5.7" Wireless Touch Screen

## IR Wireless<sup>[1]</sup>

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>[5]</sup>, or [CNXRMIRD](#) IR Receiver<sup>[5]</sup>.

## TableTop Tilt Docking Station

Placing the touch screen onto the [TPS-6X-DS](#) Docking Station<sup>[6]</sup> converts it to a stylish tilt touch screen, providing wired communications and video capability while charging the touch screen's internal battery. Both wired Ethernet and Cresnet® connectivity are available, so when the touch screen is placed on the docking station, it can switch automatically from RF wireless to fully-wired operation if either Ethernet or Cresnet is connected. Without a wired connection present, the touch screen will continue to operate wirelessly while it charges.

The TableTop Tilt Docking Station features a tiltable docking port, allowing the touch screen to be tilted at any angle up to 45 degrees for optimal viewing and operation when docked. The angle can be freely adjusted, or locked down at a fixed angle. Strong magnets help guide the touch screen onto the docking port and hold it in place, and a finger-operated latch can be engaged at any time to secure the touch screen to the docking station. The touch screen can even be attached to the docking station semi-permanently using a provided locking pin for a sleek, full-time tabletop touch screen solution.

For applications that do not require the latch or locking pin features, a "no-lock" docking station ([TPS-6XNL-DS](#)<sup>[6]</sup>) is also offered.

## Low-Profile Docking Option

As an alternative to the TableTop Tilt Docking Stations, a low-profile docking station ([TPS-6X-DS-LP](#)<sup>[6]</sup>) is also offered. The low-profile dock affords all the connectivity and charging capabilities of the tilt dock, but with a smaller footprint and lower stance that's perfect for certain countertops, side tables, and pull-out drawers.



TPS-6X-LP-B-T – Shown with TPS-6X-DS-LP Low-Profile Docking Station

## Interface Module

For easy, versatile placement, each docking station features a single flexible cable exiting the rear of the docking station base. On the tilt models, this cable can be repositioned to exit the bottom for a very clean, cordless appearance. The 9 ft (2.75 m) cable extends to a compact Interface Module ([TPS-6X-IMCW](#)<sup>[6]</sup>), which may be mounted conveniently in a wall box, or attached to any flat surface or rack rail. The interface module provides all the wired connections for power, communications, and video.

## Full-Motion Video<sup>[3]</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® CAT5 Balanced AV distribution systems.<sup>[3]</sup>

## 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 VGA  
**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  
**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<sup>[2]</sup>

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

**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

# TPS-6X Isys® 5.7" Wireless Touch Screen

## Memory

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**SDRAM:** 32 MB  
**Flash:** 32 MB  
**Maximum Project Size:** 28 MB

## Graphic Engine

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Isys® engine; 16-bit non-palette graphics; 65,536 colors; Synapse<sup>a</sup> 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

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**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<sup>[5]</sup>  
**Roaming:** Supports roaming amongst up to 8 RF gateways

## IR Wireless<sup>[1]</sup>

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**IR Transmitter:** 38 kHz, RC5 format  
**Range:** 50 feet typical  
**Gateway:** Requires a C2N-IRGW-1G or C2N-IRGW-F IR Gateway<sup>[5]</sup>, or CNXRMIRD IR Receiver<sup>[5]</sup>

## Wired Communications<sup>[3]</sup>

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**Ethernet:** 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP  
**Cresnet®:** Supports Cresnet slave mode

## Video<sup>[3]</sup>

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**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

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Internal transducer for keyclick sound

## Connectors

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**Docking Connector:** (1) multi-pin connector;  
Mates with the docking port on the docking station<sup>[6]</sup>  
See the TPS-6X-IMCW interface module<sup>[6]</sup> specification for other connectors

## Battery

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**Internal Battery:** NiMH, 4.8 Volt, 2000 mAh, model TPS-6X-BTP<sup>[7]</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

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**Power Pack:** 0.75 Amps @ 24 Volts DC;  
100-240 Volts AC, 50/60 Hz power pack, model PW-2407WU included  
**Cresnet Power Usage:** 18 Watts (0.75 Amps @ 24 Volts DC), includes TPS-6X-IMCW module<sup>[6]</sup>

Note: May be powered by power pack or Cresnet network power, not both. All power connections are made via the TPS-6X-IMCW interface module<sup>[6]</sup>

## Environmental

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**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:** 61 BTU/hour

## Enclosure

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**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<sup>[2]</sup>

## Dimensions

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**Height:** 5.10 in (130 mm)  
**Width:** 8.08 in (206 mm)  
**Depth:** 1.57 in (40 mm)

Note: Combined height of the TPS-6X touch screen docked is 6.21 in (158 mm) maximum on a TPS-6X-DS or TPS-6XNL-DS docking station, and 3.30 in (84 mm) on a TPS-6X-DS-LP.

## Weight

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1.59 lb (720 g)

## MODELS & ACCESSORIES

### Available Models

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**TPS-6X:** Isys® 5.7" Wireless Touch Screen, Black Smooth  
**TPS-6X-B-T:** Isys® 5.7" Wireless Touch Screen, Black Textured  
**TPS-6X-W-S:** Isys® 5.7" Wireless Touch Screen, White Smooth  
**TPS-6XNL:** Isys® 5.7" Wireless Touch Screen w/No-Lock DS, Black Smooth  
**TPS-6XNL-B-T:** Isys® 5.7" Wireless Touch Screen w/No-Lock DS, Black Textured  
**TPS-6XNL-W-S:** Isys® 5.7" Wireless Touch Screen w/No-Lock DS, White Smooth

# TPS-6X Isys® 5.7" Wireless Touch Screen

**TPS-6X-LP:** Isys® 5.7" Wireless Touch Screen w/Low-Profile DS, Black Smooth

**TPS-6X-LP-B-T:** Isys® 5.7" Wireless Touch Screen w/Low-Profile DS, Black Textured

**TPS-6X-LP-W-S:** Isys® 5.7" Wireless Touch Screen w/Low-Profile DS, White Smooth

## Included Accessories

**TPS-6X-BTP:** Battery pack (Qty. 1 included)

**TPS-6X-DS:** Desktop Docking Station (Qty. 1 included with TPS-6X, TPS-6X-B-T, & TPS-6X-W-S only)

**TPS-6XNL-DS:** Desktop Docking Station, No-Lock (Qty. 1 included with TPS-6XNL, TPS-6XNL-B-T, & TPS-6XNL-W-S only)

**TPS-6X-DS-LP:** Low-Profile Desktop Docking Station (Qty. 1 included with TPS-6X-LP, TPS-6X-LP-B-T, & TPS-6X-LP-W-S only)

**TPS-6X-IMCW:** Interface Module (Qty. 1 included)

**PW-2407WU:** Wall Mount Power Pack 24VDC, 0.75A, Universal (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

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

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

**TPS-6X-DSC-LP:** Low-Profile Desktop Docking Station, Charging Only

**SMK-6X:** Swivel Mount Kit

**TPS-6X-DSW:** Wall Mount Docking Station

**CRESNET-NP:** Cresnet® Control Cable, non-plenum

**CRESNET-P:** Cresnet® Control Cable, plenum

**CRESNET-HP-NP:** Cresnet® "High-Power" Control Cable, non-plenum

**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

**SW-VMK-WIN:** TouchPoint® Virtual Mouse & Keyboard Software for Windows®

## 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 models. 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. Touchpanel must be docked to enable video or wired communication.
4. 100 to 200 feet indoor range, subject to site-specific conditions.
5. Item sold separately.
6. TPS-6X-DS Tilt Docking Station included with TPS-6X models. TPS-6XNL-DS No-Lock Tilt Docking Station included with TPS-6XNL models. TPS-6X-DS-LP Low-Profile Docking Station included with TPS-6X-LP models. TPS-6X-IMCW Interface Module included with all models. See individual product specifications for additional information.
7. Item included.

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.

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

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