TPS-6X

Isys® 5.7" Wireless Touchpanel

The Isys TPS-6X Wireless Touchpanel delivers high-end style and performance in a very versatile, ergonomic design. Featuring a bright, beautiful, high-contrast color touchscreen, the TPS-6X offers an ideal user-interface for controlling home theater and multimedia presentation, as well as a host of other uses, providing a wide open canvas for the creation of custom control screens tailored to each unique application. 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.

Isys® Color Touchscreen
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's exclusive Synapse Image Rendering Algorithm enables system programmers to produce amazing graphics faster and easier—featuring advanced antialiasing for crisper, sharper objects and text—plus 3D effects for enhanced depth and style. Additional capabilities like animations, multimode objects, PNG translucency, and full-motion video* enhance the palette for creating GUI's that are both eye-catching and easy to use.

Backlit 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. 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's high-power 2.4 GHz RF technology allows long range performance up to 200 feet indoors† using the **CEN-HPRFGW** High Powered RF Gateway‡. 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‡, or **CNXRMIRD** IR Receiver‡.

TableTop Tilt Docking Station
Placing the touchpanel onto the **TPS-6X-DS** Docking Station§ converts it to a stylish tilt touchpanel, providing wired communications and video capability while charging the touchpanel's internal battery. Both wired Ethernet and Cresnet connectivity are available. When the touchpanel is placed on the docking station, it will 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 touchpanel will continue to operate wirelessly while it charges.

The docking station features a triple-lock tiltable docking port, allowing the touchpanel to be tilted at any angle up to 45 degrees for optimal viewing and operation when docked. The angle can be freely adjusted during use, or locked down at a fixed angle. A finger-operated latch can be engaged at any time to lock the touchpanel securely to the docking station, or left unlocked for easiest removal after recharging. The touchpanel can even be semi-permanently attached to the docking station for a sleek, full-time tabletop touchpanel solution.

A single cable exits the rear of the docking station base, extending to a wall or surface mounted **TPS-6X-IMCW** Interface Module§. The cable can also be repositioned to exit the bottom for a very clean, cordless appearance.

Full-Motion Video*
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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Long-Life NiMH Batteries

An internal NiMH (Nickel Metal Hydride) battery pack provides fast-charging, long-lasting wireless operation, with adjustable power management built in to allow up to 24 hours typical usage per charge.

> *Lightweight contoured design for handheld and tabletop use*

> *Elegant high gloss finish*

> *Non-slip rubber grips*

> *Illuminated buttons and engravable backlit text*

> *5.7" active matrix color touchscreen display*

> *16-bit Isys graphics | 640 x 480 resolution*

> *Dynamic graphics & text capability*

> *Synapse Image Rendering Algorithm*

> *Windows SideShow-enabled*

> *Displays full-motion video while docked*

> *High-power, high-speed 2.4 GHz RF wireless technology*

> *Up to 200 feet RF range indoors*

> *1-way IR wireless capability also built in*

> *Includes tabletop tilt docking station, interface module, and NiMH rechargeable battery pack*

> *Wired Ethernet, Cresnet, and Crestron Home CAT5 video connectivity*

> *No-button front bezel option included*

SPECIFICATIONS

Touchscreen Display

Display Type: TFT Active matrix color LCD
Size: 5.7 inch (14.5 cm) 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
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‡ (default engraving included)

Up/Down: (2) Optional programmable "up/down" pushbuttons, backlit, engravable backlit text‡ 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

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, 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 2483.6 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‡

IR Wireless**

IR Transmitter: 38 kHz, RC5 format
Range: 50 feet typical
Gateway: Requires a **C2N-IRGW-1G** or **C2N-IRGW-F** IR Gateway‡, or **CNXRMIRD** IR Receiver‡

Ethernet*

10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, IEEE 802.3U compliant

Video*

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

Battery

Internal Battery: NiMH, 4.8 Volt, 2000 mAh, model **TPS-6X-BTP** (included)
Usage per Charge: ~2 hours continuous, ~24 hours under normal use (10% active duty cycle with standby/powerdown activated)
Charging Time: ~2.5 hours (~2.5 to 3 hours when in use)

Power Requirements

12VDC Power Consumption: 1.5 Amps @ 12 Volts DC via **TPS-6X-IMCW** module§;
PW-1215 power supply included§

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Cresnet Power Usage: 15 Watts (0.63 Amps @ 24 Volts DC) via **TPS-6X-IMCW** module§; refer to TPS-6X-IMCW specification for additional power requirements
Note: May be powered by 12 Volts DC or Cresnet network power, not both.

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: 51 BTU/hour

Enclosure

Construction: Injection-molded plastic, high-gloss black finish, 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

Dimensions

Height: 5.10 in (12.96 cm)
Width: 8.08 in (20.51 cm)
Depth: 1.57 in (3.98 cm)

Weight

1.59 lb (720 g)

INTERNATIONAL VERSION (230 VAC)

TPSI-6X
All the features and specifications of the TPS-6X except:

Power Requirements

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PWI-1215 power supply included§
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INCLUDED ACCESSORIES

(See individual product specifications for complete information)
TPS-6X-BTP: Internal Battery pack
TPS(I)-6X-DS: Desktop Docking Station
TPS-6X-IMCW: Interface Module
TPS-6X-FP: Button Bezel w/Default Engraving
TPS-6X-FP-NB: No-Button Bezel
PW(I)-1215: 12 Volt Power Pack

AVAILABLE ACCESSORIES

CEN(I)-HPRFGW: High Powered RF Gateway
C2N-IRGW-1G: Wall Mount IR Gateway
C2N-IRGW-F: Flush Mount IR Gateway
CNXRMIRD: IR Receiver
SMK-6X: Swivel Mount Kit
TPS-6X-FP: Button Bezel w/Custom Engraving

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1.56 in
(3.96 cm)

4.51 in
(11.46 cm)

3.38 in
(8.58 cm)

5.1 in
(12.96 cm)

8.08 in
(20.51 cm)