TPS-6L

Isys® 5.7" Wall Mount Touchpanel

The Isys TPS-6L Wall Mount Touchpanel delivers high-end style and performance in a compact, cost-effective flush mount design. Featuring a bright, beautiful, high-contrast 5.7" color touchscreen with 16-bit Isys graphics, 640 x 480 resolution, and single video window display, the TPS-6L delivers a world of control capability yet leaves a very small footprint. The addition of 12 optional pushbuttons provides quick access to commonly used functions.

Crestron touchpanels offer an ideal user-interface for controlling everything from basic audio distribution and lighting to complete home automation and multimedia presentation, providing a wide-open canvas for the creation of custom control screens perfectly tailored to the needs of the end-user. Touchpanels do away with piles of remote controls, cryptic front panels, and cluttered wall switches, affording true "one-touch" control over a broad range of complex devices and systems.

Isys®

Isys power and beauty are infused throughout Crestron's entire touchpanel lineup. Under the hood, the Isys engine combines a 32-bit Freescale ColdFire® microprocessor with an ingenious and ultra efficient operating system to produce astonishing full-color graphics and high-res images with lightning-fast performance. Capabilities include dynamic graphics and text, full-motion animations, multimode objects, and PNG translucency.

Synapse™

Crestron's exclusive Synapse Image Rendering Algorithm enables system programmers to produce amazing graphics - faster and easier. Advanced antialiasing delivers crisper, sharper objects and text. Enhanced 3D effects add new depth and style. And because Synapse is native to the touchpanel, memory requirements and upload time are substantially reduced.

Full-Motion Video

The TPS-6L can display full-motion video from an external source, providing an exceptional utility for viewing security cameras and other video signals 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.

Audio Features

Customized WAV audio files can be loaded on the touchpanel to add dimension to its touchscreen graphics using personalized sounds, button feedback, and voice prompts. A speaker option can be added for amplification of external AV sources, and to supports programmable intercom functionality in combination with the built-in microphone.

Crestron Home® CAT5 AV

The TPS-6L is ideal for use with AV distribution and intercom systems of all sizes. Its balanced audio and video connections make installation easy and affordable using inexpensive CAT5 type wire and Crestron's popular CH CAT5 Balanced AV distribution switchers. A single balanced video input accepts signals from composite video sources over wiring distances of up to 750 feet, while balanced audio connections are included to accept incoming stereo program audio and intercom signals, and to output audio from the internal microphone.

Connection to conventional coaxial video and audio systems is also supported.

Pushbutton Options

The TPS-6L features a faceplate containing 12 programmable "hard key" pushbuttons, elegantly trimmed by illuminated button dividers. Integral to the faceplate, the pushbuttons are positioned along the left and right edges of the touchscreen, making it possible to align dynamically changing text and graphics onscreen beside the pushbuttons to support context-sensitive menu functions such as digital media titles, channels, or lighting presets. Custom engraving of the buttons is available, with a choice of solid or backlit text. A plain no-button faceplate is also included, allowing a very clean appearance with no pushbuttons.

Light Sensor

A light sensor is built into the TPS-6L to automatically adjust the display brightness for optimal visibility under varying light conditions.

High-Speed Connectivity

Both Cresnet and high-speed Ethernet are standard on the TPS-6L, providing for easy network integration and seamless communications with Crestron control systems.

Versatile Flush-Mount Design

The TPS-6L is designed for easy flush-mount installation in a wall, lectern or similar flat surface. Mounting clips furnished with the TPS-6L facilitate a clean installation in drywall and many furniture applications. Additional mounting options are available separately including optional back box and 19-inch rack mount kit.

> 5.7" active matrix color touchscreen display

> 16-bit Isys graphics | 640 x 480 resolution

> Synapse Image Rendering Algorithm

> Single full-motion, fully-scalable video window

> Amplified speaker (optional) and microphone

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> *Includes faceplate with 12 "hard key" pushbuttons*

> *Button engraving available as solid or backlit text*

> *No-button blank faceplate also provided*

> *WAV file audio feedback | Built-in light sensor*

> *Crestron Home CAT5 AV connectivity*

> *High-speed Ethernet and Cresnet communications*

> *Wall, lectern, and rack mounting options*

> *Available in almond, black, or white*

SPECIFICATIONS

Touchscreen Display
Display Type : TFT Active matrix color LCD
Size: 5.7 inch (14.48 cm) diagonal
Aspect Ratio: 4:3 SVGA
Resolution: 640 x 480 pixels
Brightness: 350 nits (cd/m^2)
Contrast: 400:1
Color Depth: 18-bit, 256k colors
Illumination: Backlit fluorescent
Viewing Angle: ±80° horizontal, +80°/-70° vertical
Touchscreen: Resistive membrane

Buttons
Hard Keys: (12) Optional engravable pushbuttons with available backlighting
Reset: (1) Miniature pushbutton behind faceplate, used to reset the touchpanel

Light Sensor
Programmable photosensor for automatic backlight dimming

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

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
Hardware Features: Built-in microphone, internal speaker for WAV/keyclick, optional amplified speaker for program/intercom, internal volume & tone control
Audio Feedback (WAV): 8-bit PCM, mono, 8 kHz sampling rate
Amplification: 0.75 Watt for internal WAV/keyclick speaker, 6 Watts for optional program/intercom speaker (requires **SPK-6L** speaker kit, sold separately)

Connectors
LAN: (1) 8-wire RJ45 with 2 LED indicators;
10/100BaseT Ethernet port;
Green LED indicates link status;
Yellow LED indicates Ethernet activity
NET: (1) 4-pin 3.5mm detachable terminal block;
Cresnet slave port, connects to Cresnet control network
MIC OUT: (1) 3-pin 3.5mm detachable terminal block;
Balanced mono line-level output;
Output Impedance: 600 ohms balanced, 300 ohms unbalanced;
Maximum Output Level: 2 V_{RMS} balanced, 1 V_{RMS} unbalanced
AUDIO INPUT: (1) 5-pin 3.5mm detachable terminal block;
Balanced/unbalanced stereo (summed to mono) line-level input (requires **SPK-6L** speaker kit, sold separately);
Input Impedance: 10k ohms balanced, 5k ohms unbalanced;
Maximum Input Level: 2 V_{RMS} balanced/unbalanced;
Normally connects to a Crestron CAT5 balanced audio source via CresCAT cable;
Maximum CAT5 Cable Length: 1000 feet
NTSC/PAL INPUT: (1) 5-pin 3.5mm detachable terminal block;
Balanced (CAT5) or unbalanced (coaxial) composite video inputs;
Formats: NTSC 480i or PAL 576i;
Input Impedance: 100 ohms balanced, 75 ohms unbalanced;
Input Level: 1 V_{P-P} nominal;
Balanced input normally connects to a Crestron CAT5 balanced video source via CresCAT cable;
Maximum CAT5 Cable Length: 750 feet
Speaker Option: 6-pin (2x3) rectangular connector;
Connects to optional **SPK-6L** speaker kit (sold separately)

Power Requirements
Cresnet Power Usage: 15 Watts (0.625 Amp @ 24 Volts DC)

Environmental
Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure
Construction: Injection-molded plastic, flush-mountable using (4) clips provided (additional mounting kits available)
Faceplate: Injection-molded plastic, button and no-button faceplates included, optional solid or backlit engraving sold separately

Dimensions
Height: 5.60 in (14.23 cm)
Width: 7.40 in (18.80 cm)
Depth: 2.28 in (5.78 cm);
3.58 in (9.08 cm) with **SPK-6L** speaker kit

Weight
1.52 lb (0.69 kg)

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AVAILABLE MODELS

TPS-6LA-T: Isys 5.7" Wall Mount Touchpanel, Almond, Textured
TPS-6LB-T: Isys 5.7" Wall Mount Touchpanel, Black, Textured
TPS-6LW-T: Isys 5.7" Wall Mount Touchpanel, White, Textured

AVAILABLE ACCESSORIES

TPS-6L-FP[A,B,W]-T: Engravable Faceplate w/Buttons (almond, black, or white; textured)
TPS-6L-FP-BKLT-[A,B,W]-T: Engravable Faceplate w/Backlit Buttons (almond, black, or white; textured)
TPS-6L-FP[A,B,W]-T-NB: Engravable Faceplate w/o Buttons (almond, black, or white; textured)
SPK-6L: Speaker Kit
BB-6L : Pre-Construction Wall Mount Back Box
PMK-6L: Pre-Construction Wall Mount Kit
TMK-6L : Trim Ring
MMK-6L : Mud Ring
WMKT-6L : Lectern or Post-Construction Wall Mount Kit with Trim Ring
WMKM-6L : Post-Construction Wall Mount Kit with Mud Ring
WMKB-6L : Replacement Wall Mount Clips
RMK-6L : Rack Mount Kit
CresCAT®D : Crestron Home® CAT5 Balanced AV Cable

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2.18 in (5.52 cm)
1.88 in (4.78 cm)
7.27 in (18.45 cm)
7.2 in (18.29 cm)
5.47 in (13.88 cm)
5.4 in (13.72 cm)

6.56 in (16.67 cm)
6.5 in (16.51 cm)
4.6 in (11.69 cm)
4.96 in (12.6 cm)
4.66 in (11.84 cm)
4.29 in (10.89 cm)

LAN
NET   MIC OUT   AUDIO INPUT   NTSC/PAL INPUT
24 Y Z G   + − S   R+ R− S L+ L−   + − S S V

3.5 in (8.89 cm)
6.19 in (15.71 cm)

2.28 in (5.78 cm)
1.88 in (4.78 cm)
7.4 in (18.8 cm)
5.6 in (14.23 cm)

7.4 in (18.8 cm)
5.6 in (14.23 cm)

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