

Crestron Isys® TPS-2000L

5" Compact Wall Mount Touchpanel

With Video

The TPS-2000L touchpanel provides Isys style and performance in a compact wall mount design. Featuring a vivid 5" active matrix color touchscreen plus 10 engravable pushbuttons and integrated video and audio, the TPS-2000L puts a world of control capability in the space of a common light switch.

Crestron touchpanels offer an ideal user-interface for controlling everything from audio distribution to complete AV or home automation, 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 produces astonishing full-color graphics with lightning-fast performance and incredible versatility. A 32-bit Motorola ColdFire® Microprocessor combines with an ingenious and ultra efficient operating system to support high-resolution graphics and images, dynamic text, full-motion video, animations, multimode objects (buttons, frames, gauges, and sliders), popup/dropdown subpages, and more.

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.

Video with 2:1 Virtual Pan/Zoom—A full motion video input provides an exceptional utility for viewing security cameras and other video sources on the touchscreen display. The ingenious virtual pan/tilt function with 2:1 digital zoom achieves "motorized pan/tilt" behavior, even from fixed-position cameras. Simply dragging a fingertip across the screen lets the user zero in on any subject for the best view. The video image is also scalable for display in any sized window or full screen. Advanced gamma correction and built-in time base correction ensure accurate color reproduction and a jitter-free image.

Built-in Audio—Audio features include built-in amplified speakers, volume control, line-level input, and a microphone with automatic gain control and line-level output. The speakers and microphone are ideal to support programmable intercom or baby-monitor capability. Customized WAV files may be loaded on the touchpanel to provide audible feedback, button clicks, and voice prompts.

Versatile Flush-Mount Design—The TPS-2000L features an eye-pleasing flush-mount design furnished standard with white faceplate and buttons. Optional faceplates and engravable buttons are offered in a variety of finishes to complement any decor. Numerous mounting options are available to facilitate a clean installation in any wall or similar flat surface. To accommodate a range of mounting heights, the display image may be inverted to attain an optimum viewing angle. A light sensor is also built in to automatically adjust the display brightness.

- > 5" Active Matrix Touchscreen Display | 320 x 234 Resolution
- > Isys Graphics Engine | Synapse Image Rendering Algorithm
- > Integrated Video with Gamma Correction | 2:1 Virtual Pan/Zoom
- > Built-in Amplified Speakers and Microphone
- > 10 Engravable Hardbuttons | Built-in Light Sensor
- > Stylish Flush Mount Design | Cresnet Communications



SPECIFICATIONS

Touchscreen Display

Display Type: Active matrix color LCD
Size: 5 inch (12.7 cm) diagonal
Resolution: 320 x 234 pixels
Illumination: Edgelit fluorescent
Viewing Angle: ±65° horizontal, +40°/-65° vertical (invertible)
Touchscreen: Resistive membrane

Processor

CPU: 32-bit Motorola ColdFire® Microprocessor
Processing Speed: 63 MIPS (Dhrystone 2.1 benchmark)

Memory

2MB flash, 8MB DRAM

Graphic Engine

Isys engine, 16 Bit non-palette graphics, 65,536 colors, Synapse image rendering

Video

Composite, NTSC/PAL, 65,536 colors, time base correction, gamma correction, 2:1 virtual pan/zoom

Audio

Features: Built-in microphone with defeatable AGC, built-in amplified speakers, internal volume control and audio mixer, WAV file capability
WAV File: 8-bit PCM, mono, 8 kHz sampling rate, ~3 minutes capacity
Amplification: 2 Watts X2 channels for built-in speakers (mono)

Connectors

NET: (1) 4-pin 3.5mm detachable terminal block
Connects to Cresnet control network

AUDIO/VIDEO: (1) 8-pin 3.5mm detachable terminal block

MIC OUT: (1) Balanced/unbalanced mono line-level output
Output Impedance: 600 ohms balanced, 300 ohms unbalanced
Maximum Output Level: 2 Vrms balanced, 1 Vrms unbalanced

AUDIO IN: (1) Balanced/unbalanced mono line-level input
Input Impedance: 20k ohms balanced, 10k ohms unbalanced
Maximum Input Level: 4 Vrms balanced, 2 Vrms unbalanced

VIDEO IN: (1) Composite input, balanced
100 ohms balanced, 1 Volt p-p
Connects to any Crestron CAT5 balanced video source
Also compatible with 75 ohm coaxial video sources

Buttons

(10) Replaceable engravable buttons, programmable

Light Sensor

Programmable photosensor for automatic backlight dimming

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Power Requirements

Cresnet Power Usage: 16 Watts (0.67 Amp @ 24 Volts DC)

Environmental

Temperature: 50° to 113°F (10° to 45°C)

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

Enclosure

Construction: Injection-molded plastic, white, flush mountable (all mounting kits sold separately)

Faceplate: Injection-molded plastic, white (optional colors and finishes available)

Dimensions

(With faceplate)

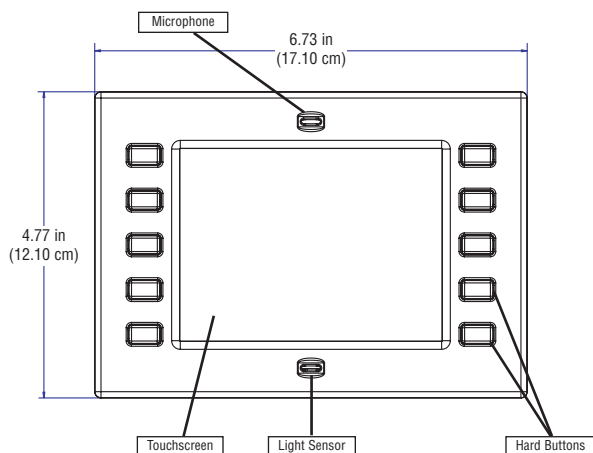
Height: 4.77 in (12.10 cm)

Width: 6.73 in (17.10 cm)

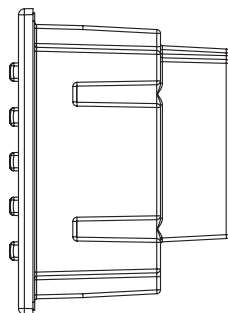
Depth: 3.43 in (8.71 cm)

Weight

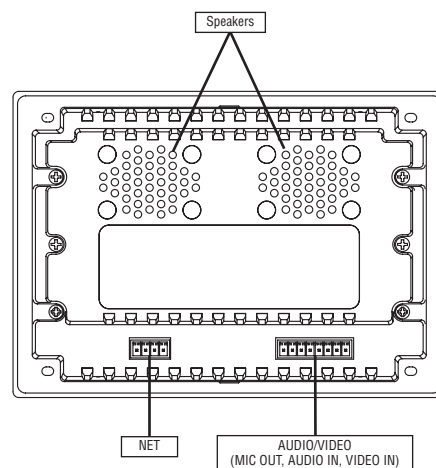
1.41 lbs (0.64 kg) – with faceplate



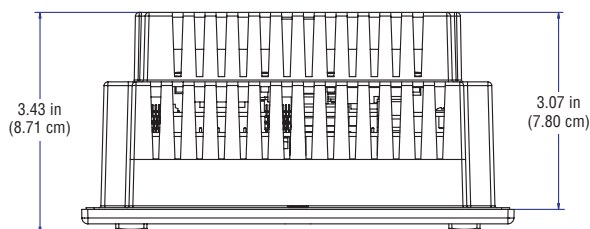
Front View



Right Side View

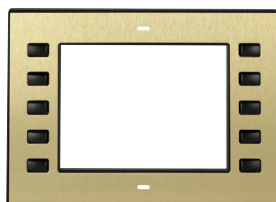


Rear View



Top View

AVAILABLE ACCESSORIES



TPS-FP
Designer and Standard
Faceplates



TPS-FPAR2000L
Architectural Faceplates

1000/2000-BTN
Engravable Button Cap

BB-2000L
Wall Mount Back Box

PMK-2000L
Pre-construction Wall Mount Kit

TPS-WPK
Water Resistant Cover Kit

TMK-2000L
Trim Ring Only

WMKT-2000L
Lectern Mount and Post-construction
Wall Mount Kit w/Trim Ring

MMK-2000L
Mud Ring Only

WMKM-2000L
Post-construction Wall Mount Kit
w/Mud Ring