

TPS-4000LB

Isys® 10.4" Wall Mount Touchpanel, Black

The Isys TPS-4000L presents a state-of-the-art flush mount touchpanel solution complete with integrated video and audio. A vibrant 640 x 480 10.4" touchscreen display delivers astounding graphical performance to support a host of control applications. The addition of 5 programmable hardbuttons provides quick pushbutton access to commonly used functions. Crestron touchpanels offer an ideal user-interface for multimedia presentation, videoconferencing, lighting, climate control, and much more, 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 Freescale 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 Advanced Gamma Correction

Video capability is standard in the TPS-4000L, accepting any



NTSC/PAL composite or S-video source, scalable for display in any sized window or full screen. Advanced gamma correction ensures accurate color reproduction.

Tactile Pushbuttons

Five programmable "hard" buttons are included to provide quick pushbutton access to commonly used functions. Individual button caps are custom engravable for easy operation at a glance.

Built-in Audio

Audio features include built-in amplified speakers, volume control, line-level stereo input, and a microphone with automatic gain control and line-level output. The speakers may be used to amplify signals from TV and video sources, or to support programmable intercom functionality in combination with the microphone. Customized WAV files can be loaded on the touchpanel to add dimension to the touchscreen graphics and pushbuttons with personalized sounds, button feedback, and voice prompts.

Cresnet®

Cresnet communication ensures compatibility with Crestron's

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complete product line.

Versatile Flush-Mount Design

The TPS-4000L is designed for easy flush-mount installation in a wall, lectern or similar flat surface. A variety of mounting accessories is offered including optional back box and 19" rack mount kit. A light sensor is built in to automatically adjust the display brightness for optimal visibility under varying light conditions.

SPECIFICATIONS

Touchscreen Display

Display Type: TFT Active matrix color LCD

Size: 10.4 inch (26.4 cm) diagonal

Aspect Ratio: 4:3 VGA

Resolution: 640 x 480 pixels

Brightness: 450 nits (cd/m²)

Contrast: 600:1

Color Depth: 18-bit, 256k colors

Illumination: Edgelit fluorescent

Viewing Angle: ±70° horizontal,

+45°/-55° vertical

Touchscreen: Resistive membrane

Buttons

(5) Replaceable engravable buttons with red feedback LEDs, programmable

Light Sensor

Programmable photosensor for automatic backlight dimming

Processor

CPU: 32-bit Freescale ColdFire® Microprocessor

Memory

DRAM: 8 MB

Flash: 8 MB

Maximum Project Size: 7 MB

Graphic Engine

Isys engine, 16-bit non-palette graphics; 65,536 colors; Synapse image rendering algorithm; multi-mode objects, color key video windowing

Video

Signal Types: Auto-detecting composite/S-Video

Formats: NTSC 480i or PAL 576i

Color Depth: 18-bit; 262,144 colors

Features: Single-window scalable to full-screen, gamma correction

Audio

Hardware Features: Built-in microphone with defeatable AGC,

built-in amplified speakers, internal volume control and audio mixer

Audio Feedback (WAV): 8-bit PCM, mono, 8 kHz sampling rate

Amplification: 5 Watts X2 channels for built-in speakers (mono)

Connectors

RS-232: (1) 6-pin RJ11 female;

Serial connection to PC for loading screen files;

Touchscreen output to PC or Telestrator;

Bidirectional RS-232 up to 115.2k baud;

NET: (1) 4-pin 3.5mm detachable terminal block;

MIC OUT: (1) 3-pin 3.5mm detachable terminal block;

Balanced/unbalanced stereo line-level output;

Output Impedance: 600 ohms balanced, 300 ohms unbalanced;

AUDIO INPUT: (1) 6-pin 3.5mm detachable terminal block;

Balanced/unbalanced stereo line-level input;

Input Impedance: 20k ohms balanced, 10k ohms unbalanced;

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NTSC/PAL INPUT (Balanced): (1) 6-pin 3.5mm detachable terminal block;

Composite or S-Video input, balanced;

Input Impedance: 100 ohms;

NTSC/PAL INPUT (Coaxial): (2) 2-pin 3.5mm detachable terminal blocks;

Composite or S-Video input;

Power Requirements

Cresnet Power Usage : 22 Watts (0.92 Amp @ 24 Volts DC)

Environmental

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

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

Enclosure

Construction : Black metal, flush mountable, 6U 19" rack-mountable (rack kit sold separately)

Faceplate: Injection-molded plastic; white, black, or almond

Dimensions

Height : 8.56 in (21.74 cm)

Width : 11.97 in (30.40 cm)

Depth : 2.99 in (7.60 cm)

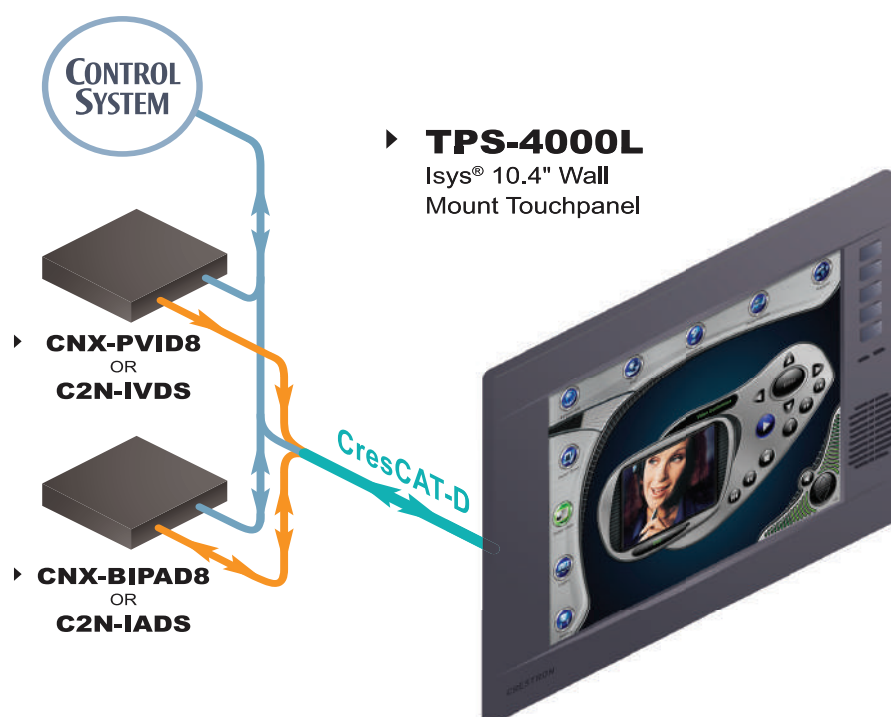
Weight

4.6 lbs (2.1 kg)

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TPS-4000L In a CAT5 Distribution System



Color Key

● Control
● CAT5E
● RGB

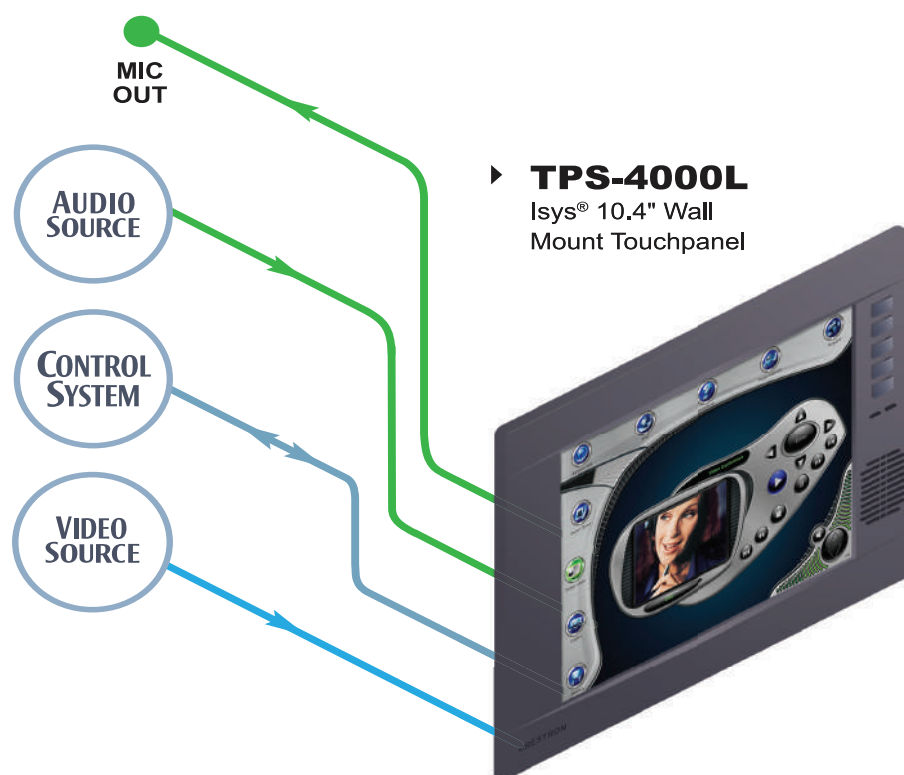
● Video
● Cresnet
● CresCAT

● Audio
● LAN

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TPS-4000L using conventional AV sources



Color Key

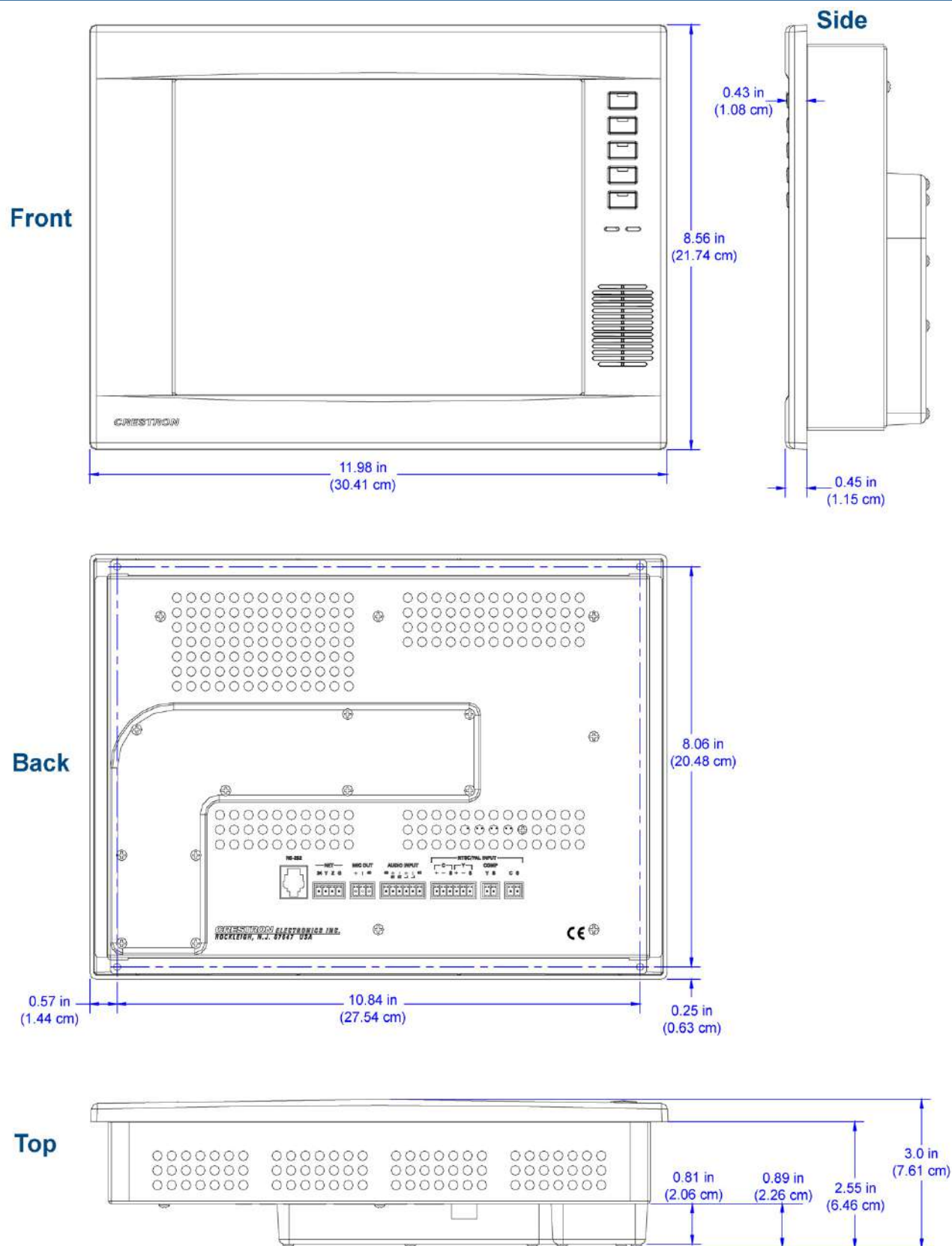
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