

TPS-4500

Isys® 12" Tilt Touchpanel

The Isys TPS-4500 presents a state-of-the-art touchpanel solution in a strikingly stylish tiltcase design. A vibrant 800 x 600 12" touchscreen display delivers astounding graphical performance to support a host of control applications.

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 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.

Dual Video Windows

The simple installation of a video card enables the display of one or two simultaneous full-motion video signals. The TPS video card supports NTSC and PAL formats and auto-detects between composite and S-Video sources. Video can be displayed full-screen or in preview windows of any size. Advanced gamma correction and built-in time base correction ensure accurate color reproduction and a jitter-free image.

Cresnet®

Cresnet communication ensures compatibility with Crestron's complete product line.

Versatile Design

For enhanced ergonomics, the TPS-4500 features a unique tiltcase design. The soft-touch position lock mechanism is easy to operate and provides steadfast support at any angle of inclination between 30 and 80 degrees. Numerous wiring and mounting options are available. High-performance wireless operation is also offered through the addition of a 2-way spread spectrum wireless module.

> 12" Active Matrix Touchscreen Display

> 800 x 600 Resolution

> Isys Graphics Engine

> Synapse Image Rendering Algorithm



> Cresnet Communications

> Modular Tiltcase Design

> 2-way Spread Spectrum Wireless Option

SPECIFICATIONS

Touchscreen Display

Display: Active matrix color LCD
Size: 12 inch (30.5 cm) diagonal
Resolution: 800 x 600 pixels
Illumination: Edgelit fluorescent
Viewing Angle: ±60° horizontal, +45°/-55° vertical
Touchscreen: Resistive membrane

Processor

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

Memory

16MB flash upgradeable to 32, 64, or 128 MB with plug-in memory modules; 32MB DRAM

Graphic Engine

Isys engine, 16 Bit non-palette graphics with color key video window capability, 65,536 colors (262,144 colors for video*), Synapse image rendering algorithm

Wireless*

With TPS-XTXRF: "WiFi friendly" 2.4 GHz spread spectrum 2-way RF (control signal only)

Video*

Video: Accepts (1) TPS-VID-1 or (1) TPS-VID-2 card
(See individual expansion card specifications)

TPS-4500 Isys® 12" Tilt Touchpanel

Connectors

NET/VIDEO: (1) 10-pin RJ45 female, shielded;
Connects to interface module via 15 foot "siamese" cable provided;
Contains Cresnet data, 24 Volts DC power, ground, and video* signals

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;
Hardware and software handshaking support

24VDC: (1) 24 Volt DC power jack (**PW-2420RU** power supply optional, sold separately);
Powers touchpanel in lieu of Cresnet power

Power Requirements

20 Watts (0.84 Amp @ 24 Volts DC) – without expansion cards or wireless option;
PW-2420RU power supply sold separately

Cresnet Power Usage : 20 Watts (0.84 Amp @ 24 Volts DC) - without expansion cards or wireless option

If power is applied to the 24VDC jack and the NET port (on TPS-4500IMPC) simultaneously, power will be drawn from whichever is highest.

Environmental

Temperature: 50° to 113°F (10° to 45°C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure

Construction: High impact black/silver injection-molded case
Screen Tilt: Soft-Touch adjustable 30 to 80 degrees

Dimensions

Height: 11.86 in (30.12 cm)
Width: 13.26 in (33.69 cm)
Depth: 11.17 in (28.36 cm)

Weight

7.64 lbs (3.46 kg) - without expansion cards or wireless option

INCLUDED ACCESSORIES

TPS-4500IMPC: Interface Module (See TPS-4500IMPC specifications for complete information)

AVAILABLE ACCESSORIES

PW-2420RU 50 Watt Regulated Universal Power Supply
HBK-6000 Hatchback Rear Cover
SMK-6000 Swivel Mount Kit (includes HBK-6000)
TPS-MEM16MB 16MB Memory Card
TPS-MEM32MB : 32MB Memory Card
TPS-MEM64MB : 64MB Memory card
TPS-MEM128MB : 128MB Memory Card Card
TPS-VID-1 Video Expansion Card
TPS-VID-2 Dual-Video Expansion Card
TPS-4500IMPC Interface Module without Audio (1 included with TPS-4500)
TPS-4500IMW Wall Mount Interface Module without Audio
TPS-CBL Interface Cable
TPSBLOCK-10 Panel Mount 10-pin Connector Solution
TPS-XTXRF Wireless Module and Docking Station
ST-PK Programming Cable Kit