

Crestron Isys® TPS-3000

6.4" Tilt Touchpanel

The Isys TPS-3000 presents a stylish state-of-the-art touch-panel solution complete with integrated video and audio. A vibrant 640 x 480 6.4" touch-screen display delivers astounding graphical performance to support a host of control applications.

Crestron touchpanels offer an ideal user-interface for multi-media 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 touch-panel, memory requirements and upload time are substantially reduced.

Video with Advanced Gamma Correction—Video capability is standard in the TPS-3000, accepting any NTSC/PAL composite or S-Video source, 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 stereo 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 may be loaded on the touchpanel to provide audible feedback, button clicks, voice prompts, and more.

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

Tiltcase Design—The TPS-3000 features an ergonomic tiltcase design that is easily adjustable for any angle of inclination between 30 and 80 degrees. Numerous versatile wiring and mounting options are also available.

> *6.4" Active Matrix Touchscreen Display*

> *640 x 480 Resolution*

> *Isys Graphics Engine*

> *Synapse Image Rendering Algorithm*

> *High-Performance Video with Gamma Correction*

> *Built-in Amplified Speakers and Microphone*

> *Cresnet Communications*

> *Versatile Tiltcase Design*



SPECIFICATIONS

Touchscreen Display

Display type: Active matrix color LCD
Size: 6.4 inch (16.3 cm) diagonal
Resolution: 640 x 480 pixels
Illumination: Edgelit fluorescent
Viewing Angle: ±60° horizontal, +40°/-55° vertical
Touchscreen: Resistive membrane

Processor

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

Memory

8MB flash, 8MB DRAM

Graphic Engine

Isys engine, 16 Bit non-palette graphics with color key video window capability, 65,536 colors, Synapse image rendering algorithm

Video

Auto-detecting composite/S-Video, NTSC/PAL, 262,144 colors, time base correction, gamma correction

Audio

Features: Built-in microphone with defeatable AGC, built-in amplified stereo speakers, headphone output, internal volume control and audio mixer, WAV file capability
WAV File: 8-bit PCM, mono, 8 kHz sampling rate
Amplification: 2 Watts per chan. for built-in stereo speakers

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

AUDIO: (1) 8-pin RJ45 female, shielded
Connects to interface module via 15 foot "siamese" cable provided;
Contains stereo audio in and mic out 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

HEADPHONES: (1) 3.5 mm TRS mini phone jack
Connects to stereo headphones (not included)
Output Power: 12mW
Minimum Impedance: 32 ohms

Power Requirements

22 Watts (0.92 Amp @ 24 Volts DC)
PW-2420RU power supply sold separately
Cresnet Power Usage: 22 Watts (0.92 Amp @ 24 Volts DC)

Crestron Isys® TPS-3000 6.4" Tilt Touchpanel

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: Adjustable 30 to 80 degrees

Dimensions

Height: 7.51 in (19.17 cm)

Width: 8.38 in (21.29 cm)

Depth: 7.27 in (18.47 cm)

Weight

3.44 lbs (1.56 kg)

Specifications for TPS-IMPC Interface module (included with TPS-3000):

Connectors

NET: (1) 4-pin 5mm detachable terminal block

Connects to Cresnet control network

24VDC: (1) 24 Volt DC power jack

(PW-2420RU power supply optional, sold separately)

Powers touchpanel and module in lieu of Cresnet power

NET/VIDEO TO PANEL: (1) 10-pin RJ45 female, shielded

Connects to touchpanel via 15 foot "siamese" cable provided;

Contains Cresnet data, 24 Volts DC power, ground, and video signals

AUDIO TO PANEL: (1) 8-pin RJ45 female, shielded

Connects to touchpanel via 15 foot "siamese" cable provided;

Contains stereo audio input and mic out signals

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

Balanced/unbalanced stereo line-level input

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

Maximum Input Level: 4 Vrms balanced, 2 Vrms unbalanced

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

Balanced/unbalanced mono line-level output

Output Impedance: 600 ohms balanced, 300 ohms unbalanced

Maximum Output Level: 2 Vrms balanced, 1 Vrms unbalanced

NTSC/PAL VIDEO (Coaxial): (2) BNC female

(1) Composite or (1) S-Video input

75 ohms terminated

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

(1) Composite or (1) S-Video input, balanced

Input Impedance: 100 ohms

Connects to any Crestron CAT5 balanced video source

DIP Switches

BAL/COAX: Selects between balanced or coaxial video inputs

Power Requirements

<1 Watt @ 24 Volts DC – not including touchpanel

PW-2420RU power supply sold separately

Cresnet Power Usage: <1 Watt @ 24 Volts DC – not including touchpanel

If power is applied to the 24VDC jack and the NET port simultaneously, power will be drawn from whichever is highest.

Environmental

Temperature: 41° to 113°F (5° to 45°C)

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

Enclosure

Black metal, surface mount box with (2) integral mounting flanges

Dimensions

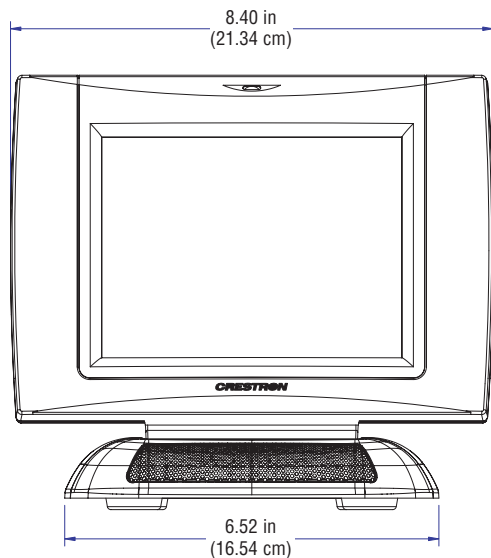
Height: 1.25 in (3.18 cm)

Width: 5.82 in (14.79 cm)

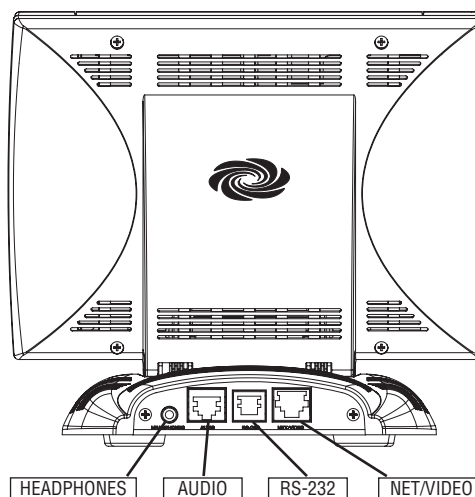
Depth: 3.50 in (8.89 cm)

Weight

12.4 oz (0.36 kg)

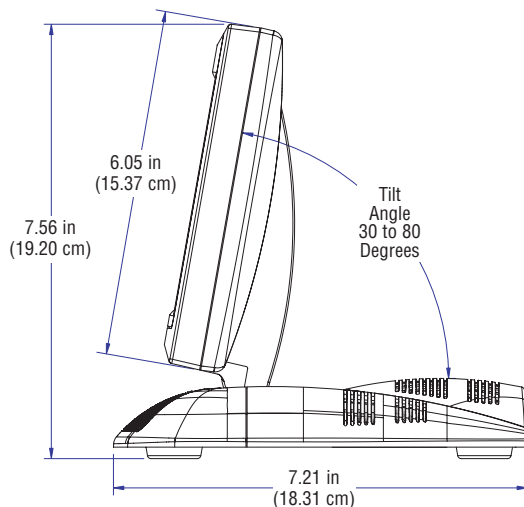


TPS-3000: Front View

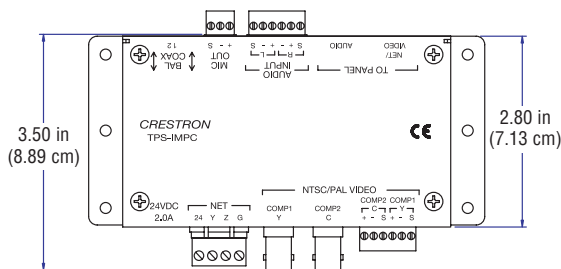
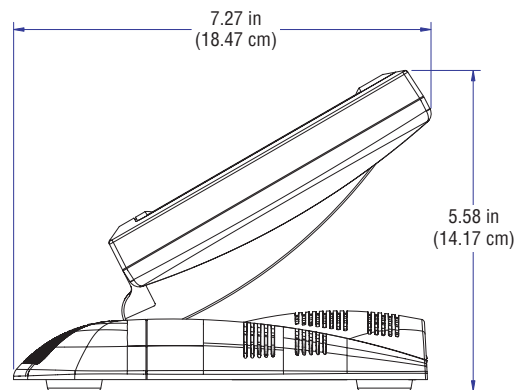


TPS-3000: Rear View

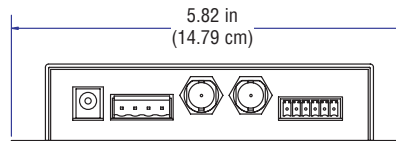
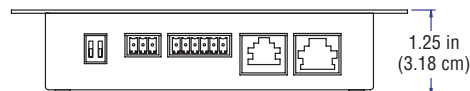
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TPS-3000: Side View



TPS-IMPC: Top View



TPS-IMPC: Front and Rear Views

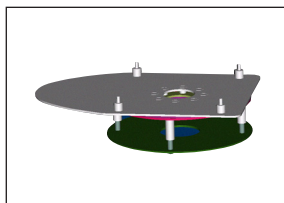
AVAILABLE ACCESSORIES



PW-2420RU
50 Watt Regulated
Universal Power Supply



HBK-3000
Hatchback Rear Cover



SMK-3000
Swivel Mount Kit
(includes HBK-3000)



TPS-IMPC
Interface Module
(1 included with TPS-3000)



TPS-IMW
Wall Mount Interface Module



TPS-4500IMPC
Interface Module without Audio



TPS-4500IMW
Wall Mount Interface
Module without Audio



TPS-CBL Series Cables
Touchpanel-to-Interface
Module Cables



TPSBLOCK-10
Panel Mount 10-pin Connector
Solution



ST-PK
Programming Cable Kit