

TPS-17B

Isys® 17" Widescreen Tilt Touchpanel (Slimline black)

Crestron's new Isys touchpanels deliver a higher level of performance to meet the demands of today's sophisticated control and automation applications. Incorporating modern styling in a versatile tiltcase design, the Isys TPS-17B features a spectacular 17" WXGA widescreen display offering an extra wide viewing angle with exceptional brightness and contrast for stunning control graphics, high-resolution images, and full-motion video.

Crestron touchpanels offer an ideal user-interface for multimedia presentation, videoconferencing, home automation, and much more, providing a wide-open canvas for the creation of custom control screens tailored to the needs of the end-user. Touchpanels do away with piles of remote controls, cryptic control panels and cluttered wall switches, simultaneously expanding and simplifying 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 TPS-17B offers vibrant 24-bit color depth with 8-bit alpha channel transparency to produce incredible 3D graphics using DNav dynamic menu objects, dynamic graphics and text, animations, multimode objects, and PNG translucency - all with astonishing speed.

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.

Windows® SideShow™ Enabled

New support for Windows® SideShow™ gives the TPS-17B access to all kinds of PC and Web-based content such as news feeds, sports scores, stock tickers, weather alerts, media guides, email messages, and appointment notifications all through a simple network connection to a Windows Vista™ computer.

Full-Motion Video

The TPS-17B can display full-motion video from an external AV source, either full screen or in a scalable window. Advanced gamma correction ensures accurate color reproduction.

Interactive Annotation

Built-in annotation capability allows presenters to write or draw over video images right on the touchscreen using a finger or stylus. Moving images can also be frozen onscreen to allow annotation over a still picture. Brush sizes and colors are selectable on the fly. Remote annotation capability allows multiple touchpanel users to draw over the same image, supporting interactive annotation between several participants in a courtroom, classroom, or similar environment.

High-Quality Audio

The built-in amplified speaker system provides amplification for external AV sources, and supports intercom functionality in combination with the integrated microphone. Customized WAV files can be loaded on the touchpanel to add dimension to the touchscreen graphics with personalized sounds, button feedback, and voice prompts.



Crestron Home® CAT5 AV

Connecting audio and video sources to the TPS-17B is facilitated using inexpensive CAT5 wire, enabling direct connection to Crestron's popular CAT5 balanced audio and video distribution switchers. A single video input port accepts signals from composite, S-Video, and standard-definition component sources over wiring distances of up to 750 feet. A bidirectional audio port receives stereo program audio and intercom signals, and outputs audio from the internal microphone. To facilitate the connection of conventional video and audio devices, an external interface module is included.

QuickMedia®*

The TPS-17B is also equipped with a single QuickMedia input port. Through QuickMedia (QM), the TPS-17B interfaces directly with Crestron's QM-based MediaManager products using a single CAT5e type cable. Over wiring distances of up to 450 feet, the QM Input port accepts video signals from composite, S-Video, and standard-definition component sources along with discrete audio signals from one (1) stereo program source and up to two (2) microphones.

High-Speed Connectivity

Both Cresnet and high-speed Ethernet are standard on the TPS-17B, providing for easy network integration and seamless communications with Crestron control systems.

Slimline Tiltcase Design

The stylish tiltcase housing allows smooth tilt adjustment from 45 to 90 degrees, and features an integral cable strain relief system and rear cover to secure and hide the connections at the back of the touchpanel. Four backlit pushbuttons are also provided, allowing for quick access to commonly used functions.

> 17" widescreen active matrix touchscreen display

> 24-Bit Isys graphics | 1280 x 768 resolution

> Synapse image rendering algorithm

> Windows SideShow-enabled

TPS-17B

- > *DNav dynamic menu objects*
- > *Full-motion video with gamma correction*
- > *Interactive annotation capability*
- > *Built-in amplified speaker system and microphone*
- > *QuickMedia* and Crestron Home CAT5 AV connectivity*
- > *High-speed Ethernet and Cresnet communications*
- > *Tiltcase housing with integral rear cover and cable strain relief*
- > *Backlit "hard key" pushbuttons*
- > *Available black or white*

SPECIFICATIONS

Touchscreen Display

Display Type: TFT Active matrix color LCD
Size: 17 inch (43.2 cm) diagonal widescreen
Aspect Ratio: 15:9 WXGA
Resolution: 1280 x 768 pixels
Brightness: 450 nits (cd/m²)
Contrast: 400:1
Color Depth: 24-bit, 16.7M colors
Illumination: Backlit fluorescent
Viewing Angle: ±88° horizontal, ±88° vertical
Touchscreen: Resistive membrane

Processor

CPU: 32-bit Freescale ColdFire® Microprocessor

Memory

DDR RAM: 128 MB
Flash: 64 MB
Compact Flash: Accepts up to 4GB Type II CF (not included)
Maximum Project Size: 160 MB

Graphic Engine

Isys engine, 24-bit non-palette graphics + 8-bit alpha channel transparency, 16.7 million colors, Synapse image rendering algorithm, multi-mode objects, DNav dynamic menu objects, dynamic graphics, Windows® SideShow™ enabled, PNG translucency, full-motion (60 fps) animation, transition effects, color key video windowing, remote annotation

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: Auto-detecting composite, S-Video, or component
Formats: NTSC 480i or PAL 576i
Color Depth: 24-bit, 16.7M colors
Features: Single-window scalable to full-screen, input switching between QM and VIDEO inputs, gamma correction, line doubling

Audio

Hardware Features: Built-in microphone and amplified speakers, stereo headphone output, internal volume control and audio mixer
Audio Feedback (WAV): 8-bit PCM, mono, 8 kHz sampling rate
D-A Conversion (QM only): 24-bit, 48 kHz

Amplification: Mono, 5 Watts x 2

Buttons

- (4) Backlit "hard key" buttons, programmable
- (1) Miniature recessed hard reset button, reboots the touchpanel

Connectors

QM IN: (1) 8-wire RJ45 female, QuickMedia input port*;
Signal Types: Auto-detecting component (YPbPr), S-Video (Y/C), or composite video with stereo program audio and (2) mic channels;
Video Formats: NTSC 480i or PAL 576i;
Connects to QM output port of a **QM-TX** or other QuickMedia device via **CRESCAT-QM** or **CRESCAT-IM** cable;
Maximum Cable Length: 450 ft (aggregate distance from QM origination)
VIDEO IN: (1) 8-wire RJ45 female, CAT5 balanced video input port;
Signal Types: Auto-detecting component (YPbPr), S-Video (Y/C), or composite;
Formats: NTSC 480i or PAL 576i;
Input Impedance: 100 ohms balanced;
Connects to any Crestron CAT5 balanced video source via **CRESCAT-D** cable, or **TPMC-CH-IMC** interface module (included) via 15 foot "triamese" cable provided;
Maximum Cable Length: 500 feet for component, 750 feet for composite/S-Video
AUDIO I/O: (1) 8-wire RJ45 female, bidirectional CAT5 balanced audio port;
Signal Types: Receives (1) balanced stereo audio signal, and transmits (1) balanced stereo audio signal from internal microphone;
Maximum Input Level: 4 Vrms;
Maximum Output Level: 2 Vrms;
Input/Output Impedance: 600 ohms;
Connects to any other Crestron CAT5 balanced audio port via **CRESCAT-D** cable, or **TPMC-CH-IMC** interface module (included) via 15 foot "triamese" cable provided;
Maximum Cable Length: 1000 feet
HEADPHONES: (1) 3.5 mm TRS mini phone jack;
Output Power: 12mW per channel;
Minimum Impedance: 32 ohms
USB: (1) USB Type B female, computer console
NET: (1) 4-pin 3.5mm detachable terminal block;
Cresnet Slave Port, connects to Cresnet control network, or **TPMC-CH-IMC** interface module (included) via 15 foot "triamese" cable provided
LAN: (1) 8-wire RJ45 with 2 LED indicators;
10BaseT/100BaseTX Ethernet port;
Green LED indicates link status;
Yellow LED indicates Ethernet activity
RS-232: (1) 6-pin RJ11 female;
Computer console, touch output or mouse input port;
Bidirectional RS-232 up to 115.2k baud;
Hardware and software handshaking support
G: (1) 6-32 screw, chassis ground lug
MEMORY EXPANSION: (1) Type II Compact Flash card slot for memory expansion

Power Requirements

Cresnet Power Usage: 74 Watts (3.1 Amps @ 24 Volts DC)

Environmental

Temperature: 41° to 113°F (5° to 45°C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure

Construction: White high impact injection-molded case, tilt screen with adjustable tension, integral rear cover and cable strain relief in base
Screen Tilt: Adjustable 45 to 90 degrees

TPS-17B

Dimensions

Height: 13.78 in (35.01 cm)
Width: 17.63 in (44.79 cm)
Depth: 12.40 in (31.50 cm)

Weight

18.10 lbs (8.21 kg)

AVAILABLE MODELS

TPS-17B: Isys 17" Widescreen Tilt Touchpanel (Slimline), Black
TPS-17W: Isys 17" Widescreen Tilt Touchpanel (Slimline), White

INCLUDED ACCESSORIES

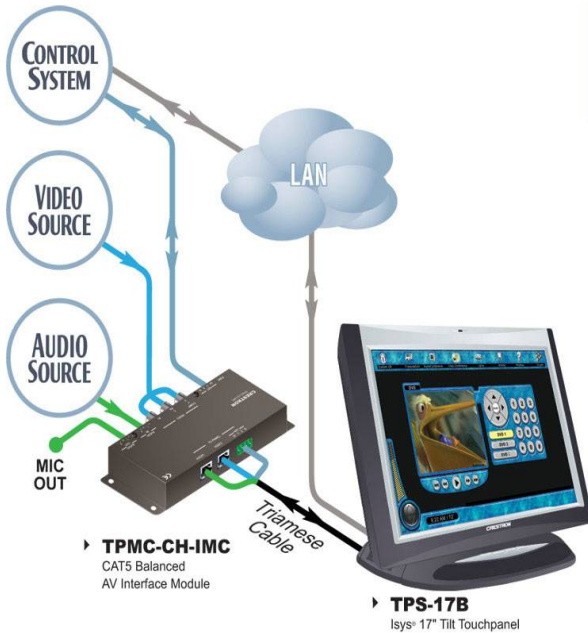
TPMC-CH-IMC: CAT5 Balanced AV Interface Module + 15 ft triamese cable (See TPMC-CH-IMC specifications for complete information)

AVAILABLE ACCESSORIES

TPMC-CH-IMW: CAT5 Balanced AV Interface Wall Plate
TPS/TPMC-CBL-T: Triamese Interface Cables
QM-TX: QuickMedia Transmitter
SMK-12/15/17: Swivel Mount Kit
ST-PK: Programming Cable Kit
CresCAT®D: Crestron Home CAT5 Balanced AV Cable
CresCAT®QM: QuickMedia® Cable
CresCAT®IM: iMedia Cable

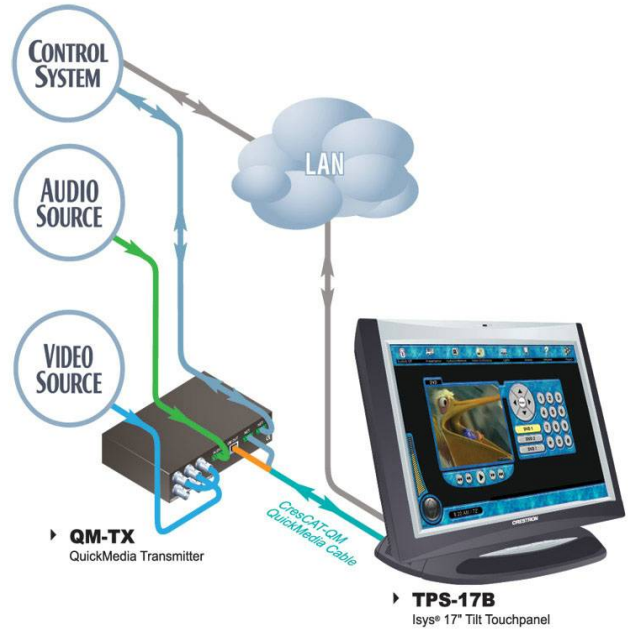
* Supports standard definition video only; does not support HDTV or high-resolution RGB.

TPS-17B using CAT5 AV Interface Module



Color Key		
Control	Video	Audio
CAT5E	Cresnet	LAN
RGB	CresCAT	

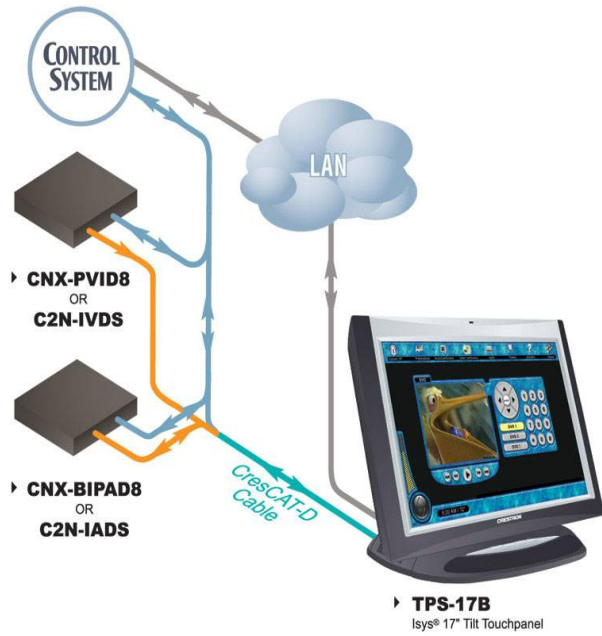
TPS-17B using QuickMedia



Color Key		
Control	Video	Audio
CAT5E	Cresnet	LAN
RGB	CresCAT	

TPS-17B

TPS-17B in a CH CAT5 AV Distribution System



Color Key		
Control	Video	Audio
CAT5E	Cresnet	LAN
RGB	CresCAT	