The Isys TPS-6L Wall Mount Touchpanel delivers high-end style and performance in a compact, cost-effective flush mount design. Featuring a bright, beautiful, high-contrast 5.7” color touchscreen with 16-bit Isys graphics, 640 x 480 resolution, and single video window display, the TPS-6L delivers a world of control capability yet leaves a very small footprint. The addition of 12 optional pushbuttons provides quick access to commonly used functions.

Isys®
Isys power and beauty are infused throughout Crestron's entire touchpanel lineup. Under the hood, the Isys engine combines a 32-bit Freescale ColdFire® microprocessor with an ingenious and ultra efficient operating system to produce astonishing full-color graphics and high-res images with lightning-fast performance. Capabilities include dynamic graphics and text, full-motion animations, multimode objects, and PNG translucency.

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.

Full-Motion Video
The TPS-6L can display full-motion video from an external source, providing an exceptional utility for viewing security cameras and other video signals on the touchscreen display. The video image is fully scalable for viewing in any sized window or full screen. The choice of balanced or unbalanced composite inputs allows compatibility with both conventional coaxial and Crestron Home Balanced AV distribution systems.

Audio Features
Customized WAV audio files can be loaded on the touchpanel to add dimension to its touchscreen graphics using personalized sounds, button feedback, and voice prompts. A speaker option can be added for amplification of external AV sources, and to supports programmable intercom functionality in combination with the built-in microphone.

Crestron Home® CAT5 AV
The TPS-6L is ideal for use with AV distribution and intercom systems of all sizes. Its balanced audio and video connections make installation easy and affordable using inexpensive CAT5 type wire and Crestron’s popular CH CAT5 Balanced AV distribution switches. A single balanced video input accepts signals from composite video sources over wiring distances of up to 750 feet, while balanced audio connections are included to accept incoming stereo program audio and intercom signals, and to output audio from the internal microphone.

Connection to conventional coaxial video and audio systems is also supported.

Pushbutton Options
The TPS-6L features a faceplate containing 12 programmable “hard key” pushbuttons, elegantly trimmed by illuminated button dividers. Integral to the faceplate, the pushbuttons are positioned along the left and right edges of the touchscreen, making it possible to align dynamically changing text and graphics onscreen beside the pushbuttons to support context-sensitive menu functions such as digital media titles, channels, or lighting presets. Custom engraving of the buttons is available, with a choice of solid or backlight text. A plain no-button faceplate is also included, allowing a very clean appearance with no pushbuttons.

Light Sensor
A light sensor is built into the TPS-6L to automatically adjust the display brightness for optimal visibility under varying light conditions.

High-Speed Connectivity
Both Crestron and high-speed Ethernet are standard on the TPS-6L, providing for easy network integration and seamless communications with Crestron control systems.

Versatile Flush-Mount Design
The TPS-6L is designed for easy flush-mount installation in a wall, lectern or similar flat surface. Mounting clips furnished with the TPS-6L facilitate a clean installation in drywall and many furniture applications. Additional mounting options are available separately including optional back box and 19-inch rack mount kit.

> 5.7” active matrix color touchscreen display
> 16-bit Isys graphics | 640 x 480 resolution
> Synapse Image Rendering Algorithm
> Single full-motion, fully-scalable video window
> Amplified speaker (optional) and microphone
**SPECIFICATIONS**

**Touchscreen Display**
- **Display Type:** TFT Active matrix color LCD
- **Size:** 5.7 inch (14.48 cm) diagonal
- **Aspect Ratio:** 4:3 SVGA
- **Resolution:** 640 x 480 pixels
- **Brightness:** 350 nits (cd/m²)
- **Contrast:** 400:1
- **Color Depth:** 18-bit; 262,144 colors
- **Illumination:** Backlit fluorescent
- **Viewing Angle:** ±80° horizontal, +80°/-70° vertical
- **Touchscreen:** Resistive membrane

**Buttons**
- **Hard Keys:** (12) Optional engravable pushbuttons with available backlighting
- **Reset:** (1) Miniature pushbutton behind faceplate, used to reset the touchpanel

**Light Sensor**
- Programmmable photosensor for automatic backlight dimming

**Processor**
- CPU: 32-bit Freescale ColdFire® Microprocessor

**Memory**
- SDRAM: 32 MB
- Flash: 32 MB
- **Maximum Project Size:** 28 MB

**Graphic Engine**
- Isys engine; 16-bit non-palette graphics; 65,536 colors; Synapse image rendering algorithm; multi-mode objects, dynamic graphics, PNG translucency, full-motion (60 fps) animation, color key video windowing

**Ethernet**
- 10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, IEEE 802.3U compliant

**Audio**
- **Hardware Features:** Built-in microphone, internal speaker for WAV/keyclick, optional amplified speaker for program/intercom, internal volume & tone control
- **Audio Feedback (WAV):** 8-bit PCM, mono, 8 kHz sampling rate
- **Amplification:** 0.75 Watt for internal WAV/keyclick speaker, 6 Watts for optional program/intercom speaker (requires SPK-6L speaker kit, sold separately)

**Connectors**
- **LAN:** (1) 8-wire RJ45 with 2 LED indicators;
  10/100BaseT Ethernet port;
  Green LED indicates link status;
  Yellow LED indicates Ethernet activity
- **NET:** (1) 4-pin 3.5mm detachable terminal block;
  Cresnet slave port, connects to Cresnet control network
- **MIC OUT:** (1) 3-pin 3.5mm detachable terminal block;
  Balanced mono line-level output;
  Output Impedance: 600 ohms balanced, 300 ohms unbalanced;
  Maximum Output Level: 2 Vₚ₋ₚ balanced, 1 Vₚ₋ₚ unbalanced
- **AUDIO INPUT:** (1) 5-pin 3.5mm detachable terminal block;
  Balanced/unbalanced stereo (summed to mono) line-level input (requires SPK-6L speaker kit, sold separately);
  Input Impedance: 10k ohms balanced, 5k ohms unbalanced;
  Maximum Input Level: 2 Vₚ₋ₚ balanced/unbalanced;
  Normally connects to a Cresnet CAT5 balanced audio source via CresCAT cable;
- **Maximum CAT5 Cable Length:** 750 feet

**Cresnet Power Usage**
- 15 Watts (0.625 Amp @ 24 Volts DC)

**Environmental**
- **Temperature:** 32° to 104°F (0° to 40°C)
- **Humidity:** 10% to 90% RH (non-condensing)

**Enclosure**
- **Construction:** Injection-molded plastic, flush-mountable using (4) clips provided (additional mounting kits available)
- **Faceplate:** Injection-molded plastic, button and no-button faceplates included, optional solid or backlit engraving sold separately

**Dimensions**
- **Height:** 5.60 in (14.23 cm)
- **Width:** 7.40 in (18.80 cm)
- **Depth:** 2.28 in (5.78 cm);
  3.58 in (9.08 cm) with Faceplate included, optional solid or backlit engraving sold separately

**Weight**
- 1.52 lb (0.69 kg)
**AVAILABLE MODELS**

- **TPS-6LA-T**: Isys 5.7” Wall Mount Touchpanel, Almond, Textured
- **TPS-6LB-T**: Isys 5.7” Wall Mount Touchpanel, Black, Textured
- **TPS-6LW-T**: Isys 5.7” Wall Mount Touchpanel, White, Textured

**AVAILABLE ACCESSORIES**

- **TPS-6L-FP[A,B,W]-T**: Engravable Faceplate w/Buttons (almond, black, or white; textured)
- **TPS-6L-FP-BKLT-[A,B,W]-T**: Engravable Faceplate w/Backlit Buttons (almond, black, or white; textured)
- **TPS-6L-FP[A,B,W]-T-NB**: Engravable Faceplate w/o Buttons (almond, black, or white; textured)
- **SPK-6L**: Speaker Kit
- **BB-6L**: Pre-Construction Wall Mount Back Box
- **PMK-6L**: Pre-Construction Wall Mount Kit
- **TMK-6L**: Trim Ring
- **MMK-6L**: Mud Ring
- **WMKT-6L**: Lectern or Post-Construction Wall Mount Kit with Trim Ring
- **WMKM-6L**: Post-Construction Wall Mount Kit with Mud Ring
- **WMKB-6L**: Replacement Wall Mount Clips
- **RMK-6L**: Rack Mount Kit
- **CresCAT®D**: Crestron Home® CAT5 Balanced AV Cable