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.

Crestron touchpanels offer an ideal user-interface for controlling everything from basic audio distribution and lighting to complete home automation and multimedia presentation, 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™ Color Touchscreen**

Isys power and beauty are infused throughout the entire Crestron 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. Dynamic graphics and text capability enable the display of all kinds of useful data and alluring eye candy—from audio settings, satellite radio channels, and lighting levels—to changing icons, photos, and logos—to digital media playlists complete with album cover art.

Crestron exclusive DNav and Synapse™ technologies enable system programmers to produce amazing graphics faster and easier using advanced dynamic control menus and 3D effects. Additional capabilities like animations, multimode objects, PNG translucency, and full-motion video enhance the palette for creating GUIs that are both eye-catching and easy to use.

**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 our 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 backlit 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 Cresnet 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
> DNav dynamic menu objects
> Synapse Image Rendering Algorithm
> Single full-motion, fully-scalable video window
> Amplified speaker (sold separately) and microphone
> Includes faceplate with 12 “hard key” pushbuttons
> Button engraving available as solid or backlit text
### SPECIFICATIONS

#### Touchscreen Display
- **Display Type**: TFT Active matrix color LCD
- **Size**: 5.7 inch (145 mm) diagonal
- **Aspect Ratio**: 4:3 SVGA
- **Resolution**: 640 x 480 pixels
- **Brightness**: 400 nits (cd/m²)
- **Contrast**: 400:1
- **Color Depth**: 18-bit, 265k 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
Programmable 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, DNav dynamic menu objects, dynamic graphics, PNG translucency, full-motion (60 fps) animation, color key video windowing

#### Communications
- **Ethernet**: 10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP
- **Cresnet**: Supports Cresnet slave mode

#### Video
- **Signal Types**: Composite
- **Formats**: NTSC 480i or PAL 576i
- **Color Depth**: 18-bit, 262,144 colors
- **Windowing**: Single-window, deinterlaced and scalable up to full-screen

#### 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 V<sub>MAX</sub> balanced, 1 V<sub>MAX</sub> 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 V<sub>MAX</sub> balanced/unbalanced; Normally connects to a Crestron CAT5 balanced audio source via CresCAT cable; Maximum CAT5 Cable Length: 1000 feet
- **NTSC/PAL INPUT**: (1) 5-pin 3.5mm detachable terminal block; Balanced (CAT5) or unbalanced (coaxial) composite video inputs; Formats: NTSC 480i or PAL 576i; Input Impedance: 100 ohms balanced, 75 ohms unbalanced; Input Level: 1 V<sub>MAX</sub> nominal; Balanced input normally connects to a Crestron CAT5 balanced video source via CresCAT cable; Maximum CAT5 Cable Length: 750 feet
- **Speaker Option**: 6-pin (2x3) rectangular connector; Connects to optional **SPK-6L** speaker kit (sold separately)

#### Power Requirements
- **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)
- **Heat Dissipation**: 51 BTU/hr

#### 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 button engraving sold separately

#### Dimensions
- **Height**: 5.60 in (143 mm)
- **Width**: 7.40 in (188 mm)
- **Depth**: 2.28 in (58 mm); 3.58 in (91 mm) with **SPK-6L** speaker kit
**Weight**
1.52 lb (0.69 kg)

**Available Models**
- **TPS-6LW-T**: Isys 5.7” Wall Mount Touchpanel, Almond, Textured
- **TPS-6LA-T**: Isys 5.7” Wall Mount Touchpanel, Black
- **TPS-6LB-T**: Isys 5.7” Wall Mount Touchpanel, White
- **Cresnet® “High-Power” Control Cable**, non-plenum, teal, 500 ft spool
- **Pre-Construction Wall Mount Kit**
- **Post-Construction Wall Mount Kit with Trim Ring**
- **Rack Mount Kit**
- **BB-6L**: Pre-Construction Wall Mount Back Box
- **PMK-6L**: Pre-Construction Wall Mount Kit
- **TMK-6L**: Trim Ring for BB-6L and PMK-6L
- **MMK-6L**: Mud Ring for BB-6L and PMK-6L
- **WMK-6L**: Lectern or Post-Construction Wall Mount Kit with Trim Ring
- **WMKM-6L**: Post-Construction Wall Mount Kit with Mud Ring
- **WMKB-6L**: 10 sets Replacement Mounting Clips
- **RMK-6L**: Rack Mount Kit

**Included Accessories**
- **TPS-6L-FPW-T-NB**: No-Button Faceplate, White
- **TPS-6L-FPB-T-NB**: No-Button Faceplate, Black
- **TPS-6L-FPW-T_BLANK**: No-Button Faceplate, White
- **TPS-6L-FPB-T_BLANK**: No-Button Faceplate, Black
- **TPS-6L-FPW-T_ENGRAVED**: Engravable Faceplate w/Buttons (engraved), White
- **TPS-6L-FPB-T_ENGRAVED**: Engravable Faceplate w/Buttons (engraved), Black
- **TPS-6L-FPW-T_BKLT-A-T_BLANK**: Backlit Engravable Faceplate w/Buttons (black), Almond
- **TPS-6L-FPB-T_BKLT-A-T_BLANK**: Backlit Engravable Faceplate w/Buttons (black), Black
- **TPS-6L-FPW-T_BKLT-W-T_BLANK**: Backlit Engravable Faceplate w/Buttons (black), White
- **TPS-6L-FPB-T_BKLT-W-T_BLANK**: Backlit Engravable Faceplate w/Buttons (black), White

**Available Accessories**
- **SPK-6L**: Speaker Kit
- **TPS-6L-FPA-T_NA**: Faceplate w/Buttons (engraved), Almond
- **CRESNET-NP-TL-B250**: Cresnet, non-plenum, 250 ft spool
- **CRESNET-NP-TL-B500**: Cresnet, non-plenum, 500 ft spool
- **CRESNET-NP-TL-SP1000**: Cresnet, non-plenum, 1000 ft spool
- **CRESNET-NP-TL-SP500**: Cresnet, non-plenum, 500 ft spool
- **CRESNET-HP-NL-SP500**: Cresnet® "High-Power" Control Cable, non-plenum, 500 ft spool
- **CRESNET-HP-NL-SP1000**: Cresnet® "High-Power" Control Cable, non-plenum, 1000 ft spool

**Crestron Home® CAT5 AV Cable**, 2x CAT5e & CAT6e