TPMC-V12

V-Panel™ Integrated 12" Touchpanel

Crestron® V-Panel™ represent a fresh approach to touchpanel design, offering whole new levels of style, versatility and the latest in Crestron digital touchpanel technology. The TPMC-V12 features a fully integrated design combining the touchpanel display and graphics engine in a single, slim housing. Sleek and beautiful, the TPMC-V12 is perfectly at home, sitting on a contemporary table or desktop, but is equally suited for all kinds of custom installations thanks to integral VESA mount compatibility.

The TPMC-V12 delivers a powerful and elegant touchpanel control solution featuring a brilliant 12” display, stunning 24-bit color graphics and video, blazingly fast performance, streaming multimedia, IP intercom, Web browsing, and enhanced GUI design capabilities using Adobe® Flash® objects.

Sleek, Versatile Design
Our V-Panel™ have been designed with appearance and versatility in mind. At less than 2 inches deep, the TPMC-V12 can be mounted virtually anywhere using a third-party VESA 75 compliant mounting bracket or stand. A pre-configured tabletop tilt model (TPMC-V12-TILT) is offered, supplied with its own ultra-stylish, smooth-tile base to deliver a very sleek-looking, low-profile control solution for desktops, counters, and other level surfaces. A wall mount model (TPMC-V12-WALL) is also offered, affording the same V-Panel style and function in a thoroughly modern, yet unimposing, flush mount design.

Advanced Touchpanel Control
Crestron touchpanels offer an ideal user-interface for multimedia presentation, home automation, command centers, 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.

Fully custom touchpanel control is afforded through the TPMC-V12’s ample 12” touchscreen. Dynamic graphics and text capability enable the display of all kinds of useful data and alluring candy—from AV controls and icons—to room temperature and lighting levels—to photos and video—to digital media playlists complete with metadata and cover art. Multi-mode buttons, PNG translucency and page transition effects enhance the palette for creating GUIs that are both eye-catching and easy to use.

Adobe® Flash® Support
New support for Adobe Flash unleashes incredible new capabilities for creating dynamic control objects, menu navigation, widgets, apps, animations and 3D effects. Use gestures to effortlessly browse large music and movie libraries, scroll through TV channels and radio stations, and select control apps from intuitive menus of colorful animated icons. Personalize your touchpanel desktop with clock, calendar, weather, RSS feed and other informative widgets.

Embedded PC & HD Streaming Media
The TPMC-V12 delivers embedded PC functionality with built-in Windows Media® Player and RealPlayer®, Internet Explorer, Adobe® Acrobat® Reader, and Microsoft® Office document viewers. While simultaneously controlling the home, boardroom, or lecture hall, the TPMC-V12 provides everything needed for enjoying online music and movies, viewing Web pages and accessing most types of digital media without necessitating a separate computer. In addition, VNC Viewer support delivers enhanced cross-platform interaction with computers over the network or Internet, allowing remote access and control of desktop applications to unleash all kinds of new presentation and system integration possibilities.

Integrated Video
For monitoring security cameras or watching a DVD or television, the TPMC-V12 provides multiple ways to view video signals right on the touchscreen. Streaming or downloaded HD video can be viewed using its embedded media players, or conventional video can be viewed through a direct wired connection to an external composite video source. Native support for the motion-JPEG streaming format also allows the TPMC-V12 to display live video from a Web camera or network video streamer (Crestron CEN-NVS100 or equivalent) right over the LAN connection. Video images can be displayed full screen, or at any location on the screen in a fully-scalable window.

Speakers and Microphone
Built-in front-firing speakers provide clear audio for streaming media and internal PC applications, and enable 2-way IP intercom in combination with the integrated microphone. Customized WAV files can also be loaded on the TPMC-V12 to add dimension to the touchscreen graphics with personalized sounds, button feedback, and voice prompts.

IP Intercom
Crestron IP intercom enables 2-way voice communication and room monitoring over Ethernet with other compatible Crestron touchpanels.

Keyboard/Mouse Options
On-screen keyboard and mouse capabilities enable complete control of the TPMC-V12’s embedded PC, and can also be used to control external network devices like the Crestron ADM® Intermedia Deliver System™ as well as computers running Crestron CEN-WIN Touchpanel HID Emulator software. A USB port is also provided for the connection of a physical keyboard and mouse.

Streamlined Connectivity
A single, low-profile cable exits the rear of the V-Panel, extending to a separate interface module (TPMC-V-IMCM), which may be discreetly mounted to a flat surface or in a 1-gang wall box up to 15 ft away. The interface module provides connectivity for power, communications, and video signals. Both Crestron® and high-speed Ethernet ports are provided for control system communications and LAN access. Power can be furnished...
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via Cresnet® or an optional power pack (model PW-2420RU\(^2\)). Wired video connectivity is handled through a single balanced or unbalanced composite input, allowing compatibility with both conventional coaxial and Crestron Home® Balanced AV distribution systems.

> Sleek, beautiful, versatile
> 12" color touchpanel
> Integrated digital graphics engine
> VESA-compatible mounting affords endless install options
> Tabletop tilt model features clean, modern design
> Wall mount model installs flush in shallow spaces
> Contemporary appearance blends in anywhere
> 800 x 600 SVGA display resolution
> High-definition 24-bit graphics engine
> Adobe® Flash® object support
> Multi-format streaming video and audio
> Wired composite video input
> Crestron IP intercom
> Built-in microphone and speakers
> WAV file customizable audio feedback
> USB keyboard/mouse port
> Onscreen keyboard and mouse capability
> Embedded PC Applications for Web browsing, playing or streaming digital media, accessing and controlling external computers, and viewing Adobe® Acrobat® and MS Office files
> High-Speed Ethernet and Cresnet®
> Available in white or black

**SPECIFICATIONS**

**Display**
- **Type**: TFT Active matrix color LCD
- **Size**: 12 inch (305 mm) diagonal
- **Aspect Ratio**: 4:3 SVGA
- **Resolution**: 800 x 600 pixels
- **Brightness**: 450 nits (cd/m\(^2\))
- **Contrast**: 1000:1
- **Color Depth**: 24-bit, 16.7M colors
- **Illumination**: Backlit fluorescent

**Viewing Angle**: ±89° horizontal, ±89° vertical

**Touchscreen**: Resistive membrane

**Buttons**
- **Hard Key**: (1) Programmable pushbutton, also reboots the touchpanel if held for 5 seconds

**Memory**
- **SDRAM**: 1 GB
- **Flash**: 4 GB
- **Maximum Project Size**: 120 MB

**Graphics Engine**
- 24-bit non-palette graphics + 8-bit alpha channel transparency, 16.7 million colors, Adobe® Flash® object support, multi-mode objects, dynamic graphics and text, PNG translucency, full-motion (60 fps) animation, transition effects, color key video windowing, remote annotation

**Embedded Applications**
- Microsoft Internet Explorer w/Adobe® Flash® plug-in
- Windows Media® Player, RealPlayer®, Crestron MJPEG Viewer, IP Intercom, NetMeeting®, Remote Desktop, VNC Viewer, Java™ Runtime, Crestron MediaMarker™

**Communications**
- **Ethernet**: 10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, for control and console
- **Cresnet**: Cresnet slave mode for control and console
- **USB**: USB 2.0 host, supports USB HID class devices

**Video**
- **Input Signal Types**: Composite
- **Input Resolutions**: 480i, 576i
- **Color Depth**: 24-bit, 16.7M colors
- **Streaming/File Formats**: MJPEG via Crestron MJPEG Viewer, plus all formats supported by the embedded media player applications\(^3\)

**Audio**
- **Hardware Features**: Built-in microphone and amplified speakers
- **Streaming/File Formats**: All formats supported by the embedded media player applications\(^3\)
- **Audio Feedback**: WAV format, 8 & 16 bit PCM, mono & stereo, 8 - 44.1 kHz sampling rates

**Connectors**
- **USB HID**: (1) USB Type A female;
- USB 2.0 host port for connection of a mouse/keyboard or other USB HID-compliant device
- **TO MODULE**: VIDEO/LAN and NET ports comprised of (1) 10-pin RJ50 female, shielded and (1) 4-pin 3.5mm detachable terminal block;
- Connect to TPMC-V-IMCW interface module via TPMC-V-CBL-5 cable\(^1\);
- See the TPMC-V-IMCW interface module specification for other connectors
- **MEMORY EXPANSION**: (1) MMC compatible card slot;
- Accepts Multimedia Memory Card (MMC) up to 4 GB for memory expansion
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**Power Requirements**
- **Cresnet Power Usage:** 38 Watt (1.6 Amps @ 24 Volts DC) including TPMC-V-IMCW module[1]
- **Power Pack:** 2 Amps @ 24 Volts DC; 100-240 Volts AC, 50/60 Hz power pack, model PW-2420RU sold separately

Note: May be powered by power pack or Cresnet network power, not both. All power connections are made via the TPMC-V-IMCW interface module[1]

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

**Enclosure**
- Plastic case, VESA 75x75 mm mountable;
- TPMC-V12-TILT model includes tabletop tilt stand with 0° to 35° adjustable screen tilt, optional swivel mount sold separately;
- TPMC-V12-WALL model includes WMKC-V12 wall mount conversion kit with plastic front bezel, additional mounting accessories sold separately

**Dimensions**
- **TPMC-V12:**
  - Height: 10.22 in (260 mm);
  - Width: 11.72 in (298 mm);
  - Depth: 1.66 in (42 mm)

- **TPMC-V12-TILT:**
  - Height: 10.81 in (275 mm) max at 0° tilt;
  - Width: 11.72 in (298 mm);
  - Depth: 8.11 in (206 mm)

- **TPMC-V12-WALL:**
  - Height: 11.54 in (29 mm);
  - Width: 13.04 in (332 mm);
  - Depth: 1.92 in (49 mm)

**Weight**
- **TPMC-V12:** TBA
- **TPMC-V12-TILT:** TBA
- **TPMC-V12-WALL:** TBA

**Available Models**
- **TPMC-V12-B:** V-Panel™ Integrated 12" VESA Mount Touchpanel, Black
  [Release Date: TBA]
- **TPMC-V12-W:** V-Panel™ Integrated 12" VESA Mount Touchpanel, White
  [Release Date: TBA]
- **TPMC-V12-TILT-B:** V-Panel™ Integrated 12" Tilt Touchpanel, Black
  [Release Date: TBA]
- **TPMC-V12-TILT-W:** V-Panel™ Integrated 12" Tilt Touchpanel, White
  [Release Date: TBA]
- **TPMC-V12-WALL-B:** V-Panel™ Integrated 12" Wall Mount Touchpanel, Black
  [Release Date: TBA]
- **TPMC-V12-WALL-W:** V-Panel™ Integrated 12" Wall Mount Touchpanel, White
  [Release Date: TBA]

Notes:
1. Item(s) included, see individual product specifications for additional information.
2. Item sold separately.
3. Contact Crestron for a current list of embedded applications. To ensure reliable performance, new device drivers and applications are available only from Crestron through firmware updates.