

TPMC-3X

Isys i/O® 2.8" Handheld WiFi Touchpanel

Available August, 2009

Simply stated, the TPMC-3X Handheld WiFi Touchpanel from Crestron delivers the best remote control available for home theater and AV presentation, marrying style and ergonomics with the ultimate in performance and customizability. Its sleek form factor is easy to hold, with large tactile pushbuttons, electroluminescent backlighting, and a fully customizable video touchscreen for a wireless control solution that's both intuitive and fun to use.

The Ultimate Handheld Remote

Gone are the limitations of previous generation remotes, and the frustration of using them. The TPMC-3X offers seamless interaction with AV and environmental systems, providing true feedback of all your settings, and displaying metadata information for all your digital media. Whether watching TV, choosing a movie or music title, adjusting room temperature and lighting, checking the security system, or even monitoring live video right on the built-in touchscreen, the TPMC-3X affords a user experience like no other handheld remote.

Wi-Fi Performance—Redefined!

Crestron has redefined Wi-Fi wireless performance with the TPMC-3X, achieving a remarkable 50 feet omnidirectional coverage indoors, providing exceptional freedom of movement without line-of-sight — or even having to be in the same room! And, the TPMC-3X even supports roaming amongst multiple access points for extended coverage. The choice of 802.11 a, b, and g protocols affords reliable, high-speed 2-way wireless performance in virtually any RF environment. A network of one or more TPMC-3Xs can be set up in mere minutes using a Crestron **CEN-WAP-ABG-1G** or **CEN-WAP-ABG-CM** Wireless Access Point (sold separately).

Instant-Waking™

To ensure the most transparent user experience possible, the TPMC-3X has been engineered to wake instantly at the press of a button, touch of the touchscreen, or by simply tilting the remote upright. Button presses are sent immediately, just like an IR remote but with none of IR's limitations. So spontaneous actions like muting the audio, pausing the video, or changing the channel can be executed on-the-fly with just a single button press.

Extended Battery Life

Instant-waking also allows the TPMC-3X to be put to sleep within seconds of putting it down, helping to extend its battery life for several days of typical usage on a single charge. Even under continuous use at full brightness, the TPMC-3X lasts an incredible 5 hours! Its fast-charging, field-replaceable Lithium Polymer battery pack delivers optimum power in a very small, lightweight package.

Tactile Pushbuttons with Backlit Text

A complement of 27 tactile pushbuttons makes for a very intuitive user interface, providing easy access to everything needed for watching TV and movies, listening to music, and controlling the entire room. Large, widely-spaced buttons accommodate hands and fingers of all sizes, minimizing the chance of an unintended button press. Electroluminescent backlit button text affords excellent legibility for use in a darkened room.

The pushbuttons are comprised of 17 buttons designated for the most common functions, plus a 5-way navigation pad, 3 context-assignable



"hard keys" beneath the touchscreen, a thumb-operated "More" button for advancing through the available touchscreen pages, and a system power button. Every button on the TPMC-3X is fully programmable to allow precisely the control desired, whether simply adjusting audio volume and flipping through channels, controlling a DVR or DVD player, navigating onscreen setup menus, or operating a pan/tilt camera.

Handheld Touchpanel Control

Custom touchpanel versatility is afforded through a brilliant 2.8" active-matrix touchscreen displaying stunning 16-bit color graphics and video. Dynamic graphics and text capability enable the display of all kinds of useful data and alluring eye candy—from channel preset icons—to room temperature and lighting levels—to photos and video—to digital media playlists complete with metadata and 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. Full-motion animations, multimode objects, PNG translucency, transition effects, and streaming video enhance the palette for creating GUIs that are both eye-catching and easy to use.

Support for Windows® SideShow® gives the TPMC-3X access to all kinds of PC and Web-based content such as news feeds, sports scores, stock tickers, weather alerts, media guides, appointment notifications, and email messages all through a simple network connection to a Windows Vista® computer.

Wireless Video

Its built-in streaming video player makes it possible to monitor a security camera, or preview a DVD or television channel, right on the touchscreen display. Native support for the motion-JPEG streaming format allows the TPMC-3X to display live video from a variety of Web cameras and servers including the Crestron **CEN-NVS100** Network Video Streamer (sold separately).

Audio Feedback

Customized WAV files can be loaded on the TPMC-3X to add dimension to its touchscreen graphics using personalized sounds, button feedback, and voice prompts.

The TPMC-3X makes an elegant statement in any room, especially when

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placed on its stylish docking station (model **TPMC-3X-DS**, included). When docked, the touchpanel sits at-the-ready, able to be used as a stationary tabletop controller while charging. The docking hook incorporates a magnetic catch, ensuring secure attachment while docked and an effortless transition between docked and handheld use. The sleek, low-profile base is weighted for excellent stability on any flat surface. An optional wall mount docking station is also available (model **TPMC-3X-DSW**, sold separately).

Power (top): (1) programmable pushbutton, performs hardware reset if held for >10 seconds

Hard Keys: (3) programmable pushbuttons below touchscreen

Functions: (15) programmable pushbuttons with white EL backlit labeling for GUIDE, HOME, LIST, MUTE, INFO, LAST, MENU, KEYPAD, EXIT, and icons for Rewind, Play, Forward, Stop, Pause, Record

Volume: (1) programmable rocker button with white EL backlit Volume 'Raise' and 'Lower' icons

Navigation Pad: (5) programmable pushbuttons comprising a 5-way thumbpad (4-way navigation plus "enter")

Up/Down: (1) programmable rocker button with white EL backlit 'Up' and 'Down' arrows

More (right side): (1) programmable thumb-operated side button

Charge: (1) Green LED, indicates charging status when docked

Memory

SDRAM: 128 MB

Flash: 256 MB

Maximum Project Size: 24 MB

Operating System

Microsoft® Windows® CE 6.0

Graphic Engine

Isys i/O engine, 16-bit non-palette graphics; 65,536 colors; Synapse image rendering algorithm; multi-mode objects; DNav dynamic menu objects; dynamic graphics and text; Windows® SideShow™ support, PNG translucency; full-motion (60 fps) animation; transition effects

Embedded PC Applications*

Crestron MJPEG Viewer, Keypad

RF Wireless

RF Transceiver: IEEE 802.11a/b/g Wi-Fi, 5.8 or 2.4 GHz 2-way RF, static IP or dynamic IP via DHCP, 64 and 128-bit WEP encryption, WPA & WPA2-PSK with TKIP & AES

Range: 50 feet (15 m), subject to environmental conditions, supports roaming amongst multiple access points†

Gateway: Requires a **CEN-WAP-ABG-1G**, **CEN-WAP-ABG-CM**, or similar 802.11a/b/g wireless access point and Ethernet-enabled Crestron 2-Series control system

Video

Streaming Format: MJPEG via Crestron MJPEG Viewer, with support for Crestron **CEN-NVS100** Network Video Streamer

Audio

Hardware Features: Built-in speaker

Audio Feedback (WAV): 8 & 16 bit PCM, mono & stereo, 8 - 44.1 kHz sampling rates

Tilt Sensor

Wakes touchpanel within 0.5 second when unit's physical orientation is moved from horizontal to vertical

Connectors

USB (bottom): (1) Mini Type AB female behind battery cover; USB 1.1 computer console port, cable included

Battery **Battery Type:** Lithium Polymer, 3.7 Volt, 1000 mAh (included)

Cycle Life: >300 cycles (80% capacity) Power Requirements

TPMC-3X-DS Docking Station/Charger (included): 1.5 Amps @ 12 Volts DC
PW-1215WU Power Supply (included): 0.6 Amp @ 100-240 Volts AC, 60Hz

Environmental

Temperature: 32° to 104°F (0° to 40°C)

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

Heat Dissipation: 5 BTU/Hr

Enclosure

Construction: Injection-molded plastic, integral docking station port

Dimensions

Height: 1.04 in (2.63 cm);

6.34 in (16.10 cm) docked

Width: 2.55 in (6.48 cm);

4.58 in (11.62 cm) docked

Depth: 7.94 in (20.17 cm);

6.30 in (16.00 cm) docked

Weight

6.5 oz (182 g) including battery

INCLUDED ACCESSORIES

TPMC-3X-DS: Docking Station/Charger

TPMC-3X-BTP: Internal Battery Pack

PW-1215WU: 12 Volt Power Pack, 1.5A

AVAILABLE ACCESSORIES

CEN-WAP-ABG-1G: Wall Mount 802.11a/b/g Wireless Access Point

CEN-WAP-ABG-CM: Ceiling Mount 802.11a/b/g Wireless Access Point

TPMC-3X-DSW: Wall Mount Docking Station/Charger

* *Contact Crestron for a current list of embedded applications. To ensure reliable performance, new applications are available only from Crestron through firmware updates.*

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