

Isys® 2.8" Handheld WiFi Touch Screen

- > Sleek and ergonomic handheld design
- > Elegant gloss black finish
- > Instant-Waking® behavior with tilt sensor
- > Works like an IR remote — with all the benefits of 2-way RF!
- > High-performance 802.11a/b/g Wi-Fi wireless communications
- > 50 feet omnidirectional RF range indoors
- > Wireless video from network cameras and servers
- > Built-in speaker and microphone
- > Crestron® wireless IP Intercom capability
- > WAV file customizable audio feedback
- > Widely-spaced tactile pushbuttons
- > White EL backlit button text
- > 2.8" active matrix color touchscreen display
- > High display brightness and contrast
- > Wide 150 degrees viewing angle
- > 16-bit color graphics
- > 240 x 320 resolution
- > Dynamic graphics & text capability
- > Long-lasting LiPo rechargeable battery pack
- > Stylish tabletop docking station included^[2]
- > Wall mount docking station also available^[1]

Marrying style and ergonomics with the ultimate in performance and customizability, the Isys® TPMC-3X Handheld WiFi Touch Screen delivers an exceptional remote control for home theater, home automation, and AV presentation. Its sleek form factor is easy to hold, with large tactile pushbuttons, electroluminescent backlighting, and a fully customizable video touch screen 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, or checking the security system, the TPMC-3X affords a user experience like no other handheld remote. You can even communicate with other Crestron® touch screens via built-in wireless IP intercom, and monitor live video from cameras and other sources right on the touch screen.

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. The choice of 802.11 a, b, and g protocols affords reliable, high-speed 2-way wireless performance in virtually any RF environment. Configuring a TPMC-3X network can be accomplished in mere minutes using a Crestron [CEN-WAP-ABG-1G](#) or [CEN-WAP-ABG-CM](#) Wireless Access Point^[1].



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 touch screen, 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 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 touch screen, 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.

TPMC-3X Isys[®] 2.8" Handheld WiFi Touch Screen



Handheld Touch Screen Control

Custom touch screen 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. 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.

Wireless Video

Streaming video capability makes it possible to view security cameras and other video sources over the network right on the touch screen. Native support for the MJPEG format allows the TPMC-3X to display live video images from Web cameras and servers such as the Crestron [CEN-NVS200 Network Video Streamer^{\[1\]}](#).

Wireless IP Intercom

Built-in wireless IP intercom capability facilitates direct touch screen-to-touch screen intercom and monitoring right over the LAN without requiring any additional AV wiring or special wireless equipment. The TPMC-3X features an integrated microphone and speaker for clear voice communication.

Audio Feedback

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

TableTop Docking Station

The TPMC-3X makes an elegant statement in any room, especially when placed on its stylish docking station ([TPMC-3X-DS^{\[2\]}](#)). When docked, the touch screen 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 ([TPMC-3X-DSW^{\[1\]}](#)) is also available.

SPECIFICATIONS

Touch Screen Display

Display Type: TFT active matrix color LCD
Size: 2.8 inch (72 mm) diagonal
Aspect Ratio: 3:4 QVGA (portrait orientation)
Resolution: 240 x 320 pixels
Brightness: 350 nits (cd/m²) typical
Contrast: 500:1 typical
Color Depth: 16-bit, 64k colors
Viewing Angle: ±75° horizontal, +75/-55° vertical
Illumination: LED Backlit
Touch Screen: Resistive membrane

Buttons & Indicators

Power (top): (1) programmable pushbutton, performs hardware reset if held for >10 seconds
Hard Keys: (3) programmable pushbuttons below touch screen
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

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Graphics Engine

16-bit non-palette graphics; 65,536 colors; multi-mode objects; dynamic graphics and text; PNG translucency; full-motion (60 fps) animation; subpage transition effects

Wireless Communication

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: Up to 50 feet (15 m), subject to environmental conditions

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

Roaming: Requires a Cisco® controller solution to be installed and commissioned by a Cisco certified technician.

Video

Streaming Format: MJPEG

Audio

Features: Built-in speaker and microphone, Crestron IP Intercom

Audio Feedback: WAV format, 8 & 16 bit PCM, mono & stereo, 8 – 44.1 kHz sampling rates

Tilt Sensor

Wakes touch screen 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 computer console port, for installer use only

Battery

Battery Type: Lithium Polymer, 3.7 Volt, 1000 mAh, model TPMC-3X-BTP included

Usage per Charge: 5 hours continuous at full brightness

Charging Time: 2 hours

Cycle Life: >300 cycles (80% capacity)

Power Requirements

Power Pack: 1.5 Amps @ 12 Volts DC;
0.6 Amp @ 100-240 Volts AC, 50/60 Hz power pack,
model PW-1215WU included

Note: Power connection made via the docking station/charger²⁾

Environmental

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

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

Heat Dissipation: 20 BTU/Hr

Enclosure

Construction: Injection-molded plastic, integral docking station port

Dimensions

Height: 1.04 in (27 mm);
6.34 in (161 mm) docked

Width: 2.55 in (65 mm);
4.58 in (117 mm) docked

Depth: 7.94 in (202 mm);
6.30 in (160 mm) docked

Weight

6.6 oz (185 g) including battery

MODELS & ACCESSORIES

Available Models

TPMC-3X: Isys® 2.8" Handheld WiFi Touch Screen

Included Accessories

TPMC-3X-BTP: Battery Pack (Qty. 1 included)

TPMC-3X-DS: TableTop Docking Station (Qty. 1 included)

PW-1215WU: Wall Mount Power Pack 12VDC, 1.5A, Universal (Qty. 1 included)

Available Accessories

TPMC-3X-DSW: Wall Mount Docking Station

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

CEN-NVS200: Network Video Streamer

SW-VMK-WIN: TouchPoint® Virtual Mouse & Keyboard Software for Windows®

Notes:

1. Item(s) sold separately.
2. The TPMC-3X includes (1) **TPMC-3X-DS** TableTop Docking Station. The **TPMC-3X-DSW** Wall Mount Docking Station is sold separately. See each individual product spec sheet for additional details. The TPMC-3X is not compatible with the MTX-3-DS docking station.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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