

- Customizable handheld wireless remote
- Available in black or white
- Ergonomic and rugged design
- 3 in. (76 mm) HVGA capacitive color touch screen with Smart Graphics® technology
- Backlit buttons for AV/DVR control and on-screen menu (OSM) navigation
- Five-way navigation pad changes colors when accessing the four-color buttons mode
- Preprogrammed graphical interface for controlling Crestron Home® OS
- Voice recognition executes functions using spoken commands
- Fully programmable functionality via a Crestron control system
- High-performance Wi-Fi® wireless communications
- Movement sensing wakes the remote when picked up
- Instant-Waking® technology executes button presses without picking up the remote
- Autobrightness control maintains optimal visibility
- Setup and diagnostics via touch screen or web browser
- Li-Polymer rechargeable battery
- Space-saving table dock charger

The Crestron <u>TSR-310</u> is a durable handheld remote with a 3 in. (76 mm) color touch screen, backlit buttons, voice control capability, and enhanced Wi-Fi® network wireless communications. Movement sensing wakes the remote when it is handled, ensuring it is always ready to be used. The TSR-

310 may also be paired with Crestron Home® OS and other Crestron control solutions for complete control over audio, video, lighting, shades, and other amenities.

The TSR-310 is available in black or white.

#### **Backlit Tactile Buttons**

Backlit tactile buttons provide access to everything needed to watch TV, listen to music, navigate on-screen menus, and browse through media titles. Each button is labeled for easy operation. The metal-plated five-way thumbpad enables directional navigation in normal use and changes colors when placed in four-color mode to provide access to the green, blue, red, and yellow option buttons. These colored buttons are used to access special functions.

Each button on the TSR-310 is fully programmable for adjusting audio volume and changing channels, browsing a media library or program guide, controlling a DVR or DVD player, or operating a pan/tilt camera.

#### **Touch Screen with Smart Graphics Technology**

The TSR-310 features a high-resolution, high-contrast capacitive touch screen that enables fully customizable control over a wide array of devices. Crestron Smart Graphics® technology delivers an intuitive touch screen experience with fluid gesture-driven controls, kinetic effects, animated feedback, rich metadata, embedded apps and widgets, and personalized themes.

#### Performance UI for Crestron Home

Performance UI is a built-in software program for the TSR-310 that provides a preprogrammed graphical interface for controlling a Crestron Home system. With Crestron Home, media, light, shades, and quick actions can be controlled directly from the remote. Scrolling menus of channel presets and media titles appear on the touch screen to access all your favorite TV channels, radio stations, movies, and music. User profiles are also provided to give users custom control over the media system, including the ability to save favorites for easy access.

Real-time lighting levels, shade positions, and thermostat modes are graphically displayed and can be adjusted with a simple finger stroke. Real-time Performance UI also supports voice control commands if Crestron Home is paired with a voice provider service.<sup>1,2</sup>

#### Voice Recognition

With built-in voice recognition, spoken commands to the TSR-310 can quickly turn devices on or off, change the channel, choose a lighting scene, lower the window shades, lock the doors, or arm the security system. Simply press the voice button and say a command to have the TSR-310 execute the action.<sup>1,2</sup>

#### Movement Sensor

A built-in accelerometer wakes the TSR-310 instantly whenever it's picked up or moved, so it's always ready for use.



### Instant-Waking Technology

The TSR-310 wakes instantly at the press of a button and transmits the command within milliseconds using Instant-Waking® Technology. Actions like muting audio, pausing video, or changing channels can be executed, even with the remote left lying on an armrest or placed in its charging dock.

#### **Autobrightness Control**

The TSR-310 includes a built-in light sensor, which regulates the brightness of the touch screen display and button backlight according to the light level in the room.

#### Advanced Wi-Fi Wireless Performance

Crestron enhanced Wi-Fi performance is optimized to deliver fast, dependable wireless communications with 50 ft (15 m) omnidirectional range (conditions permitting). The choice of 802.11 a, b, g, and n protocols offers reliable, high-speed wireless connectivity in any RF environment. For Wi-Fi networks with multiple access points, the TSR-310 supports the ability to hand off communication from one wireless access point (WAP) to another if an active connection is lost.<sup>3</sup>

**NOTE:** The TSR-310 has been tested and verified to work with wireless access points from a variety of leading manufacturers. Please view the <u>TSR-310 Wireless Access Point Configuration Guide</u> for recommended WAP manufacturers and configurations.

#### **Extended Battery Life**

To conserve power, the TSR-310 goes into a sleep mode when not in use. In sleep mode, the TSR-310 maintains a low level connection to the wireless access point, ensuring instantaneous response upon waking. Maximum battery life and performance are ensured only when using a Crestron verified wireless access point. Under typical use, the TSR-310 can operate continuously for 5.5 hours between charges.

A replacement battery pack (TSR-310-BTP) is also available.

#### **Table Dock Charger**

The <u>TSR-310-DS</u> table dock is included and provides for charging the TSR-310 while occupying minimal space on the tabletop or shelf. When placed on the table dock, the remote remains upright and fully operational while charging.

A horizontal version of the dock (<u>TSR-310-DS-H</u>) may be ordered separately.

#### **Third-Party Mounting Solution**

The TSR-310 is compatible with Wall-Smart® retrofit mount products via a partnership with Crestron.

# **Specifications**

## **Touch Screen Display**

Display Type TFT active matrix color LCD
Size 3.00 in. (76 mm) diagonal
Aspect Ratio 3:2 HVGA (portrait orientatio

Aspect Ratio 3:2 HVGA (portrait orientation)
Resolution 320 x 480 pixels

Brightness 410 nits (cd/m²) typical

Contrast 700:1 typical

Color Depth 18-bit, 262,144 colors

Viewing Angle ±80° horizontal, ±80° vertical

**Illumination** LED backlit with autobrightness control

(adjustable high, medium, and low settings)

**Touch Screen** Projected capacitive, 3-point multi-touch

capable

**NOTE:** Pressing any button or moving the remote wakes the remote from sleep mode. A second button press or touching the touch screen wakes the touch screen display (configurable for any button or Power, Voice, and Home only). The touch screen display may also be configured to wake on movement.

#### **Buttons**

**Power** (1) Programmable pushbutton with red

power icon

**Voice** (1) Pushbutton with microphone icon,

initiates voice command capture <sup>2</sup>

**Home** (1) Programmable pushbutton with list icon

**Functions** (8) Programmable pushbuttons with text or

icons for volume up, volume down, mute, guide, menu, up, down, and info

Navigation Pad (1) Metal-plated programmable five-way

directional navigation pad for up, down,

left, right, and select; alternately functions as four context dependent option buttons when the 'four color mode' button is pressed (navigation pad icons illuminate green, blue, red, and yellow in this mode)

**Transport** (11) Programmable pushbuttons with text

or icons for exit, last, rewind, play, forward, previous, pause, next, stop, DVR, and record

**Illumination** White LED backlighting behind all button

labels with autobrightness control (adjustable high, medium, and low settings)

**NOTE:** Pressing any button or moving the remote wakes the remote from sleep mode and turns on the button backlight if the room is dark.



# **Graphics**

Graphics Engine Crestron Smart Graphics technology, on-screen numeric keypad and

multi-language keyboard, screensaver, Performance UI for Crestron Home OS

Maximum Project Size

512 MB

### Languages

Smart Graphics Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Danish, Dutch, English (UK), English (US), Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Portuguese (Brazilian), Romanian, Russian, Slovak, Spanish,

Swedish, Thai

On-Screen Keyboard Arabic, Chinese (Simplified), Croatian, Czech, Danish, Dutch, English (UK), English (US), Finnish, French (Canada), French (Switzerland), German, Hebrew, Hungarian, Italian, Japanese, Norwegian Bokmal, Polish, Portuguese, Russian, Serbian,

Spanish, Swedish, Turkish

Voice Recognition Afrikaans (South Africa); Chinese, Mandarin (China, Simplified); Chinese, Mandarin (Hong Kong, Simplified); Chinese, Mandarin (Taiwan, Traditional); Chinese, Yue (Hong Kong, Traditional); Czech (Czech Republic); Dutch (Netherlands); English (Australia); English (Canada); English (Generic); English (India); English (New Zealand); English (South Africa); English (UK); English (US); French (France); German (Germany); isiZulu (South Africa); Italian (Italy); Japanese (Japan); Korean (South Korea); Polish (Poland); Portuguese (Brazil); Russian (Russia); Spanish (Spain); Turkish (Turkey)

**Performance** 

UI

Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Danish, Dutch, English (UK), English (US), Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Portuguese (Brazilian), Romanian, Russian, Slovak, Spanish,

Swedish, Thai

#### Wireless Communication

**Transceiver** IEEE 802.11a/b/g/n Wi-Fi (2.4 or 5GHz 2-

way RF), static IP or dynamic IP via DHCP  $^3$  64 & 128-bit WEP, WPA & WPA2-PSK with

Security 64 & 128-bit TKIP & AES

Range Up to 50 ft (15 m), subject to site-specific

conditions

**Handoff** Supports handoff between a maximum of

four Wi-Fi wireless access points <sup>3</sup>

**Gateway** Requires an 802.11a/b/g/n wireless access

point and Ethernet-enabled Crestron

control system

**NOTE:** The TSR-310 has been tested and verified to work with wireless access points from a variety of leading manufacturers. Please view the <u>TSR-310 Wireless Access Point Configuration Guide</u> for recommended

WAP manufacturers and configurations.

### Wired Communication

**USB** USB client for console only (installer setup)

#### Audio

**Features** Built-in microphone for multi-language

voice recognition<sup>2</sup>

#### Connectors

**USB** (1) Micro-USB Type B console port behind

battery compartment cover, for installer

use only

**Charging** (2) Contacts which mate with the charging

**Contacts** terminals on the table dock

**Battery** 

Rechargeable Li-Polymer, 3.7V, 2000 mAh, model TSR-

Battery 310-BTP

**Usage per** 5.5 hours continuous

Charge

Charging Time 3 hours

#### **Power**

Power Pack Input: 100-240VAC, 50/60 Hz;

(included) Output: 2A @ 5VDC;

Power connection is made via the charging

dock.

#### **Environmental**

**Temperature**  $32^{\circ}$  to  $104^{\circ}$ F ( $0^{\circ}$  to  $40^{\circ}$ C);

50° to 104°F (10° to 40°C) while charging

**Humidity** 10% to 90% RH (noncondensing)

#### Construction

Ruggedized ABS plastic, housing with textured back, buttons with backlit laser etched labeling

#### **Dimensions**

 Height
 0.95 in. (24 mm)

 Width
 2.28 in. (58 mm)

 Depth
 8.68 in. (221 mm)

#### Weight

0.40 lb (0.18 kg)

# Compliance

#### Regulatory Model: TSR-310

CE, IC, FCC Part 15 Class B digital device

#### Models

#### TSR-310-B

Handheld Touch Screen Remote, Black

#### TSR-310-W

Handheld Touch Screen Remote, White

#### Included Accessories

TSR-310-DS-B or TSR-310-DS-W

Table Dock for TSR-310 (Qty. 1 included)

#### TSR-310-BTP

Battery Pack for TSR-310 (Qty. 1 included)

#### **Available Accessories**

For a list of available accessories, visit the <u>TSR-310</u> product page.

#### Notes:

- A complete Crestron control system, plus additional equipment and services, are required to deliver all the capabilities and functionality described. Please contact your Crestron representative to learn more.
- 2. Voice recognition, weather information, and certain other functions require an Internet connection.
- 3. Refer to the TSR-310 Wireless Access Point Configuration Guide for a list of recommended wireless access points. Wi-Fi "handoff" capability enables automatic handoff amongst up to four pre-designated Wi-Fi wireless access points, wherein the last successful Wi-Fi connection is maintained indefinitely until that connection is lost, at which point communication is handed off to the next nearest access point. A very brief interruption to wireless Ethernet communication may occur during the handoff.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at <a href="https://www.crestron.com/How-To-Buy/Find-a-Representative">www.crestron.com/How-To-Buy/Find-a-Representative</a> or contact us for additional information by visiting <a href="https://www.crestron.com/contact/our-locations">www.crestron.com/contact/our-locations</a> for your local contact.

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