TS-1542

15.6” HD Touch Screen

- *Modern, high-end appearance*
- *Premium metallic construction*
- *Full HD 1080p capacitive touch display*
- *Multi-touch capable*
- *Auto-brightness control*
- *Integrated digital graphics engine*
- *Enhanced Smart Graphics™ performance*
- *Dual-window HD streaming video display*
- *Remote annotation support*
- *Built-in web browsing[1]*
- *On-screen keyboard*
- *External USB keyboard support*
- *Customizable screensaver*
- *Built-in microphone and speakers*
- *Voice recognition capability[1]*
- *Full duplex Rava® intercom and phone*
- *Customizable audio feedback*
- *High-speed 10/100 Ethernet LAN port*
- *PoE+ or 24VDC powered*
- *Includes 100-240V universal power pack*
- *Choice of surface wall mount or tabletop*
- *VESA mount compatible*
- *Available in dark gray w/black glass or all white*

Advanced Touch Screen Control

A Crestron® touch screen offers an ideal user-interface for controlling all the technology in your home, boardroom, classroom, courtroom, or command center. Touch screens do away with piles of remote controls, cluttered wall switches, and cryptic computer screens, simplifying and enhancing the way you use technology. For controlling audio, video, lighting, shades, HVAC, security, and other systems, Crestron touch screens are fully-customizable with easy-to-use controls and icons, true feedback and real-time status display, full-motion video windows, and enhanced navigation of digital media servers, tuners, and other devices.

The Crestron TS-1542 delivers the ultimate touch screen experience — blending style and function with advanced high-definition graphics. In one slim device, the TS-1542 integrates a brilliant 15.6” Full HD touch screen display and high-performance digital graphics engine. Its sleek, modern design features premium metallic construction and edge-to-edge glass for a contemporary look that’s perfectly at home placed on an executive boardroom table, installed in a high-tech command center, or mounted on the wall in a luxury residence.

Featuring enhanced Smart Graphics™ performance and dual-window HD streaming video display, the TS-1542 delivers an elegant and powerful touch screen control solution for a wide range of applications. Additional advanced features include the abilities to control any function using voice commands, browse the Internet, annotate over a video image or whiteboard screen, and communicate using built-in VoIP intercom and phone functions.[1]

A choice of white or dark gray metallic finishes — tabletop, wall, or VESA mounting options — and single-wire PoE+ connectivity comprise an integrator-friendly solution that’s easy to install and fits perfectly in any space.

Sleek, Versatile Design

At just 1-3/4 inches (45 mm) deep, the TS-1542 can be mounted virtually anywhere using the supplied wall mount kit or a third-party VESA 100 compliant mounting arm, bracket, or stand. A tabletop tilt model (TS-1542-TILT) is also offered, which features an ultra-stylish, smooth-tilt base for use on a table, desk, podium, or countertop.

Smart Graphics™

Crestron touch screens use Smart Graphics to deliver the ultimate user experience *and* the ultimate value by enabling the creation of dynamically rich user interfaces with incredible efficiency and unparalleled functionality. Using Smart Graphics, programmers can swiftly integrate fluid gesture-driven controls, animated feedback, rich metadata, embedded apps and widgets, and full-motion video for a deeply engaging and ultra-intuitive touch screen experience.

Crestron Smart Graphics offers these enhancements and more:

- Cool-looking graphical buttons, sliders, knobs, and gauges that are intuitive and fun to use
- Kinetic effects to enhance the feeling of realism, with lists and toolbars that scroll with momentum at the flick of a fingertip
- Drag-and-drop objects that snap into place, offering an easy way to switch sources

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- Dashboard widgets to personalize the touch screen with clocks, weather, news, and other information [1]
- A power-saving screensaver, allowing display of time, temperature, and other text content at a reduced brightness level
- Customizable themes allowing a completely different look and feel for every user, event, or season
- Fully-developed SmartObjects® that enable sophisticated control over complex devices with minimal programming
- A consistent look and feel across multiple touch screens of varying sizes

Auto-Brightness Control

The TS-1542 maintains optimal visibility under varying lighting conditions by automatically adjusting its display brightness according to changes in the ambient light level in the room.

HD Streaming Video

High-definition streaming video capability makes it possible to view security cameras and other video sources right on the touch screen. Up to two video windows can be displayed simultaneously. Native support for H.264 and MJPEG formats allows the TS-1542 to display live streaming video from IP cameras, streaming encoders (Crestron CEN-NVS200, DM-TXRX-100-STR, or similar [2]), and DigitalMedia™ switchers. Video is delivered to the touch screen over Ethernet, eliminating the need for any extra video wiring.

Voice Recognition

Some things are easier *said* than *done*, so why not just *say* what you want and let Crestron *do* it for you? With built-in voice recognition, the TS-1542 provides the ability to use spoken commands to control virtually anything. Voice recognition can be used to quickly turn devices on or off, select and play a specific media title or playlist, change the channel, choose a lighting scene, lock the doors, arm the security system, or enter a password. Simply press the Voice Recognition button and say a command and Crestron does the rest.[1]

Rava® SIP Intercom

Rava SIP Intercom Technology enables hands-free VoIP communication with other Rava-enabled touch screens and door stations. Rava works over Ethernet, supporting 2-way intercom, video intercom [3], and paging without requiring any special wiring. VoIP phone capability is also possible through integration with an SIP-compatible IP phone system or SIP server, allowing hands-free telephone functionality complete with speed-dialing, caller ID, custom ringers, and other enhancements. Built-in echo cancellation affords full-duplex performance for clear, seamless voice communication.

Speakers and Microphone

The built-in speakers and microphone provide clear audio for intercom and phone calls, as well as for listening to multimedia.

Audio Feedback

Customized audio files can be loaded to add another dimension to the touch screen graphics using personalized sounds, button feedback, and voice prompts.

TS-1542-TILT-B-S — Rear Side View

Web Browsing

Using its built-in web browser, the TS-1542 provides quick access to online program guides and other web-based services at the touch of a button, allowing enhanced touch screen control of DVRs and other appliances without having to pick up a separate tablet or smartphone. If a device can be controlled or managed through a web browser, it can be integrated into the Crestron system through the TS-1542. Of course, the web browser may also be used to simply browse the Internet, watch online videos, and check up on social media.[1]

Multi-Touch Support

The TS-1542’s capacitive touch screen affords enhanced capabilities for browsing web pages using multi-touch gestures.

Keyboard Options

Typing in passwords, URLs, and text searches is facilitated using the on-screen multi-language keyboard. A physical USB keyboard (not included) may also be connected.

Built-in Annotation

Whether conducting a high-level boardroom meeting or training seminar, sharing ideas in a huddle space, or watching sports in your home theater, annotation helps put the fine point on any presentation. Annotation provides the ability to illustrate your thoughts on-the-fly, letting you draw and write over streaming video and computer images, and sketch out ideas on a whiteboard screen.

Native to the TS-1542, remote annotation capability allows multiple participants, each with a separate touch screen, to draw with their fingertips over the same video image or whiteboard, enabling enhanced collaboration in a classroom, courtroom, or council chamber. Adding a Crestron Digital Graphics Engine (model DGE-100 [2]) connected to the room’s main display allows the whole annotation session to be viewed by the entire audience.

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Single-Wire Connectivity

A simple Ethernet LAN connection with PoE+ is all that is required to wire the TS-1542, containing all control, video, intercom, and power signals within a single wire. If the LAN does not support PoE+, the TS-1542 may be powered using the supplied 100-240V power pack or 24VDC Cresnet® power.[4]

Power over Ethernet

Using PoE+ technology, the TS-1542 can get its operating power right through the LAN wiring. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. To supply PoE+ to a network of TS-1542 touch screens and other devices, Crestron offers the CEN-SWPOE-16 16-Port Managed PoE Switch.[2]

Interface Module

Each TS-1542 model ships with a compact interface module (TS-1542-IMCW), which may be used as required to provide an RJ45 LAN connection for the touch screen. The module can be mounted in a 1-gang electrical box or floor box, under a table, or in a podium or equipment rack. A 6 foot (1.8 meter) long LAN cable is included for connection between the module and touch screen.

NOTE: When surface mounted using the wall mount kit (included with models TS-1542-B-S and TS-1542-W-S only), all wiring enters through an electrical box or cut-out and is concealed from view. For this method of installation, the interface module may not be required.

SPECIFICATIONS

Touch Screen Display

Display Type: TFT Active matrix color LCD
Size: 15.6 inch (396 mm) diagonal
Aspect Ratio: 16:9 Full HD
Resolution: 1920 x 1080 pixels
Brightness: 400 nits (cd/m²)
Contrast: 800:1 typical
Response Time: 30 ms G-to-G
Color Depth: 24-bit, 16.7M colors
Illumination: LED w/auto-brightness control
Viewing Angle: ±80° horizontal, +80°/-65° vertical
Touch Screen: Projected Capacitive, 10-point multi-touch capable

Graphics Engine

Crestron® Smart Graphics™, local and remote annotation, multi-language web browser[1], multi-language on-screen keyboard, screensaver, fully-scalable dual streaming video windowing

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)
Web Browser: Arabic, Bulgarian, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, Filipino, Finnish, French, German, Greek, Hebrew, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Latvian, Lithuanian, Norwegian Bokmal, Pashto, Persian, Polish, Portuguese, Romanian, Romansh, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Turkish, Ukrainian, Vietnamese

Memory

DDR3 SDRAM: 2 GB
Flash: 4 GB
Maximum Project Size: 1 GB

Communications

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), SNMP, IPv4 or IPv6, IEEE 802.3at Type 2 compliant
USB Host: Supports USB HID compliant keyboard devices
USB Device: For computer console (installer setup and firmware update)

Streaming Decoder

Video Formats: H.264 (MPEG-4 part 10 AVC), MJPEG
Audio Formats: AAC stereo
Bitrates: Up to 25 Mbps[5]
Resolutions: Up to 1080p60

Audio

Features: Built-in microphone and speakers, Rava® SIP Intercom, multi-language voice recognition[1]
Audio Feedback Formats: MP3

Connectors

24V DC, 1.0 A: (1) 2-pin 3.5 mm detachable terminal block;
24 Volt DC power input;
Wire Size: 18 AWG maximum;
Connects to the PW-2420RUL power pack (included), or to a Cresnet® network or power supply[4]

USB HID: (1) USB Type A female;
USB 2.0 host port for USB HID-compliant keyboard

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CONSOLE: (1) USB Type B female;
USB computer console port (for setup)

G: (1) 6-32 screw, chassis ground lug

LAN: (1) 8-pin RJ45 female;
10Base-T/100Base-TX Ethernet port;
Power over Ethernet Plus compliant;
6 ft (1.8 m) cable and TS-1542-IMCW interface module included

Buttons & Indicators

RESET: (1) Pushbutton at rear connector panel for hardware reset
LAN: (2) LEDs at LAN connector, green LED indicates Ethernet link status, amber LED indicates Ethernet activity

Power Requirements

Power over Ethernet: IEEE 802.3at Type 2 Class 4 (25.5 W) PoE+ Powered Device

24 VDC: 1 Amp (25 Watts) @ 24 Volts DC;
100-240 Volts AC, 50/60 Hz power pack, model PW-2420RUL included;
May alternately be powered via connection to a Cresnet network or power supply [4]

Power Consumption: 25 Watts maximum;
18.4 Watts typical (display brightness 100%);
8.7 Watts standby (display backlight off)

Environmental

Temperature: 32° to 113° F (0° to 45° C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 63 BTU/hr typical

Construction

Composition: Aluminum housing with dark gray or white finish, edge-to-edge glass with black or white surround
Mounting (model TS-1542): Mounts to a flat wall surface over a 2-gang electrical box, horizontally-oriented 1-gang electrical box, 1-gang UK electrical box (BS 4662), 1-gang European electrical box (DIN 49073), or rough cut-out up to 2” H x 3” W (50 mm H x 75 mm W) using wall mount kit provided; VESA 100 x 100 mm mountable with wall mount kit removed
Mounting (model TS-1542-TILT): Includes tabletop base with 23° to 45° adjustable tilt

Dimensions – Model TS-1542

Height: 9.42 in (240 mm)
Width: 15.35 in (390 mm)
Depth: 1.80 in (46 mm) with wall mount kit;
1.76 in (45 mm) without wall mount kit (VESA mount)

Dimensions – Model TS-1542-TILT

Height: 8.76 in (223 mm) minimum at 45° tilt;
9.90 in (252 mm) maximum at 23° tilt
Width: 15.35 in (390 mm)
Depth: 6.80 in (173 mm) minimum at 23° tilt;
8.15 in (207 mm) maximum at 45° tilt

Weight

TS-1542: 7.3 lb (3.4 kg)
TS-1542-TILT: 10.1 lb (4.6 kg)

MODELS & ACCESSORIES

Available Models

TS-1542-B-S: 15.6” HD Touch Screen, Wall Mount or VESA, Black Smooth
TS-1542-W-S: 15.6” HD Touch Screen, Wall Mount or VESA, White Smooth
TS-1542-TILT-B-S: 15.6” HD Touch Screen, Tabletop Tilt, Black Smooth
TS-1542-TILT-W-S: 15.6” HD Touch Screen, Tabletop Tilt, White Smooth

Included Accessories

TS-1542-IMCW: Interface Module (Qty. 1 included)
PW-2420RUL: Desktop Power Pack, 24VDC, 2A, Flying Leads, Universal (Qty. 1 included)

Available Accessories

CEN-SWPOE-16: 16-Port Managed PoE Switch
CEN-NVS200: Network Video Streamer
DM-TXRX-100-STR: HD Streaming Transmitter/Receiver

Notes:

1. Voice recognition, web browsing, weather information, and certain other functions require an internet connection.
2. Item(s) sold separately.
3. H.264 compatible IP camera required.
4. Connection to a Cresnet network is for power only. Does not support Cresnet data communications.
5. Supports up to two simultaneous streaming inputs with a maximum combined total bitrate of 25 Mbps.

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.

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

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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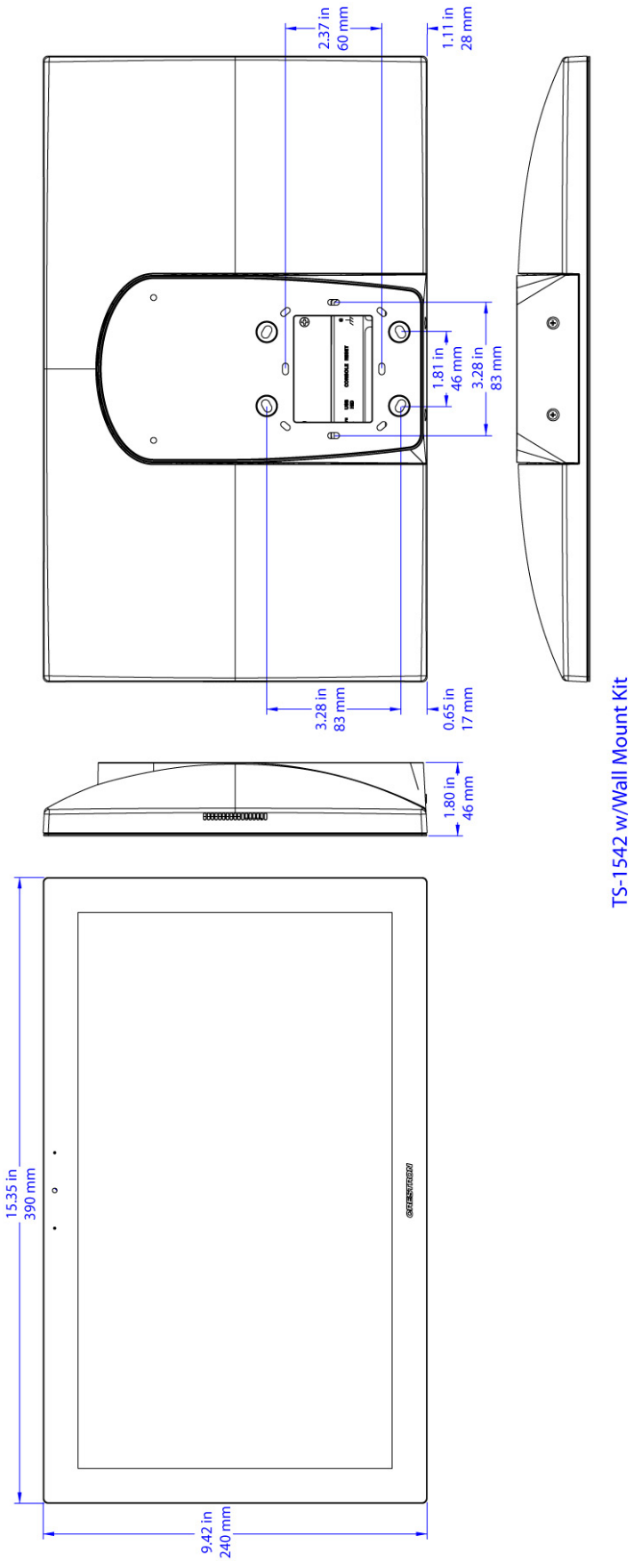
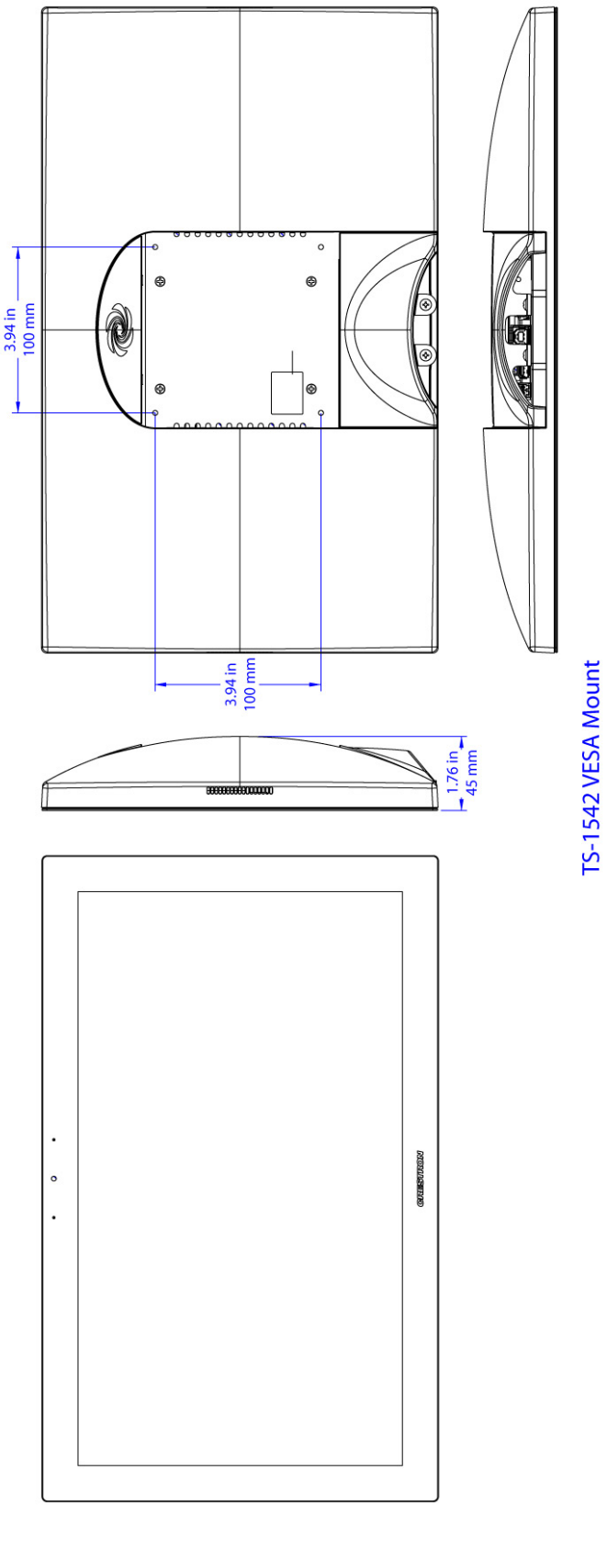


TS-1542 w/Wall Mount Kit



TS-1542 VESA Mount

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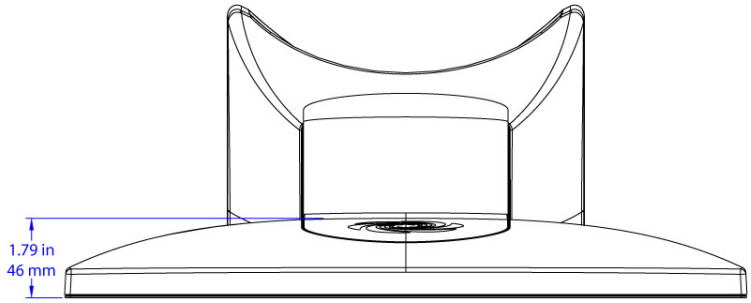

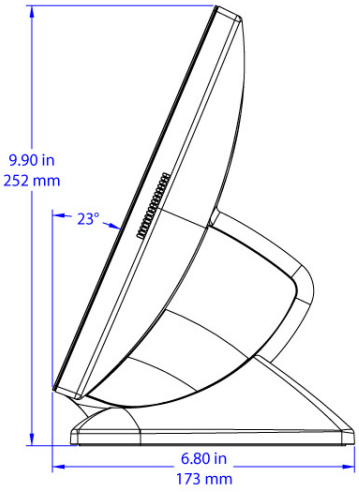

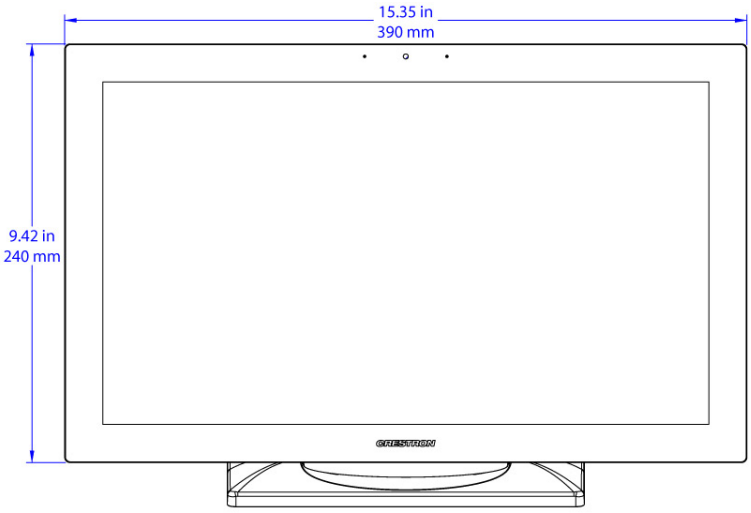

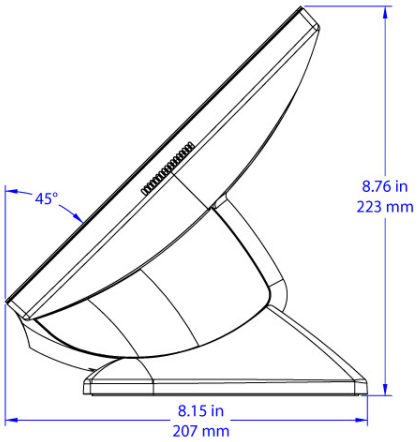

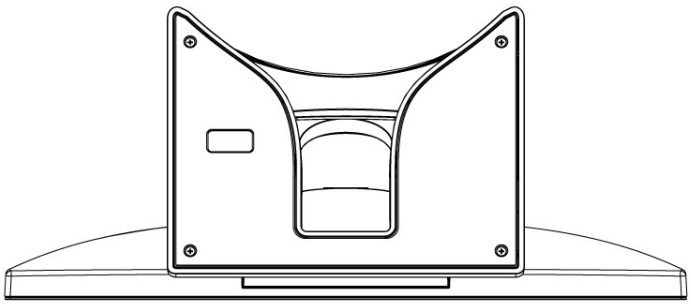

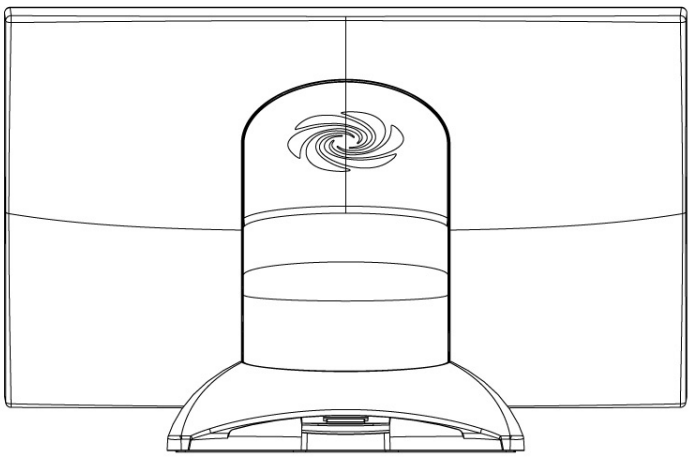

TS-1542-TILT

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