TSD-2020

20" HD Touch Screen Display

> High-Definition 20" widescreen touch display
> Full HD 1920 x 1080 display resolution
> Quick-response, multi-touch capacitive touch screen
> Smooth, accurate on-screen writing using the included annotation pen
> High contrast and accurate color reproduction
> Ultra fast 5 ms speed response
> Ultra wide 178 degree viewing angles
> Fully HDCP compliant
> Built-in speakers
> Thin, lightweight design
> VESA 100x100 mountable
> Designed for use with a DGE-100 or DM-DGE-200-C Digital Graphics Engine [1]
> Optional wall mount kit and back box available [1]

The TSD-2020 merges Crestron® touch screen control and high-definition video into one slim, lightweight touch screen display. Its 20" Full HD 1080p screen offers a spacious user interface for controlling AV, lighting, climate, and other technologies while simultaneously delivering excellent video performance as an HDTV or computer display. Its high-sensitivity capacitive surface affords exceptional touch response, whether using fingertip gestures or the included annotation pen.

The TSD-2020 is designed for use with a Digital Graphics Engine (DGE-100 or DM-DGE-200-C [1]), providing an elegant and powerful touch screen control solution featuring advanced Smart Graphics™, HD video, web browsing, audio feedback, and annotation. Together with the DGE, the TSD-2020 easily replaces separate touch screens, TV displays, and computer monitors to address a broad range of residential and commercial applications. Its large screen makes it ideal as a home controller and television display in a kitchen or bedroom, as a presentation control panel for a university lecture hall, or as a video control surface for a corporate or government command center. For all kinds of uses, the TSD-2020 provides a perfect fit.

VESA Mounting

Its thin profile and VESA mount compatibility allow the TSD-2020 to be installed virtually anywhere using an off-the-shelf wall mounting bracket, desk stand, or articulating arm. In addition, the TSD-2020 ships with an easel-type stand for tabletop use, and includes a flip-out flap and tabs on its rear panel to allow for use as a low-angled or lay-flat tablet.

Wall Mounting

Using the optional Wall Mount Kit and Back Box (model TSD-2020-WMK-BB [1]) allows the TSD-2020 to be mounted cleanly on the wall with no visible plugs or wires.

Digital Graphics Engine

To enable the TSD-2020 for use as a touch screen controller, a Digital Graphics Engine (DGE) is required. Two DGE models are offered for use with the TSD-2020, the DGE-100 and DM-DGE-200-C. The TSD-2020 connects to the DGE via HDMI® and USB. Consult the spec sheet for each DGE model for additional information.[1]

Annotation Pen

The TSD-2020 enables smooth, accurate on-screen writing and drawing using the included annotation pen. Palm cancellation technology affords a natural feel while writing on the touch screen surface.

SPECIFICATIONS

Touch Screen Display

Display Type: TFT active matrix color LCD
Size: 19.5 inch (495 mm) diagonal
Aspect Ratio: 16:9 Full HD
Resolution: 1920 x 1080 pixels
Brightness: 250 nits (cd/m²)
Contrast: 3000:1
Response Time: 5 ms G-to-G
Color Depth: 24-bit, 16.7M colors
Illumination: Edgelit LED
Viewing Angle: ±89° horizontal, ±89° vertical
Touch Screen: Capacitive

Annotation Pen

Wireless touch pen, 2 mm wide tip, palm cancellation technology

Buttons & Indicators

Power/Menu: (1) Pushbutton, press to turn power on, press (while power is on) to access the onscreen menu, press for ≥2 seconds to turn power off
Power/Signal: (1) Bi-color LED, green indicates power is on and an input signal is present, orange indicates power is on and no input signal is present

Note: If power is lost while the TSD-2020 is powered on, it will automatically return to the powered on state when power is restored.

Communications

USB: USB 1.1 Human Interface Device (USB HID)

Video

Input Signal Types: HDMI, DisplayPort
Input Resolutions: 640x480@60Hz, 800x600@60Hz, 720x480@60Hz, 720x576@50Hz, 1024x768@60Hz, 1280x720@50Hz, 1280x720@60Hz, 1920x1080@50Hz, 1920x1080@60Hz

Refer to DGE-100 or DM-DGE-200-C specifications for additional information.

Audio

Input Signal Types: HDMI, DisplayPort
Hardware Features: Built-in rear-facing amplified speakers
Amplification: 1 Watt x 2 channels

Refer to DGE-100 or DM-DGE-200-C specifications for additional information.

Connectors

Headphone: (1) 3.5 mm TRS mini phone jack;
Unbalanced stereo line-level or headphone audio output

HDMI: (1) 19-pin Type A HDMI female;
HDMI digital video/audio input;
(DVI compatible [2])

DisplayPort: (1) 20-pin DisplayPort female;
DisplayPort digital video/audio input [3]

Micro-USB: (1) micro-USB type B, female; USB 1.1 device port, 6 ft (1.8 m) micro-USB type B male to USB type A male cable included

DC-IN 19V: (1) DC power connector;
19 Volt DC power input, power pack included

Power Requirements

Power Pack: 19 Volts DC;
100-240 Volt AC, 50/60Hz power pack included

Environmental

Temperature: 32° to 95° F (0° to 35° C)
Humidity: 20% to 80% RH (non-condensing)
Heat Dissipation: 89 BTU/hr

Enclosure

Plastic case, VESA 100x100 mm mountable (M4 screw size), 75° angled easel-type tabletop stand included, flip-out flap and tabs for 10° angled or lay-flat use, optional wall mount kit and back box available separately

Dimensions

Height: 10.82 in (275 mm)
Width: 18.26 in (464 mm)
Depth: 1.07 in (27 mm)

Weight

5.1 lb (2.3 kg);
6.4 lb (2.9 kg) with tabletop stand

MODELS & ACCESSORIES

Available Models

TSD-2020-B: 20" HD Touch Screen Display, Black

Available Accessories

TSD-2020-WMK-BB: Wall Mount Kit and Back Box for TSD-2020
TSD-2020-PMK: Pre-Construction Mounting Kit for TSD-2020-WMK-BB
DGE-100: Digital Graphics Engine 100
DM-DGE-200-C: Digital Graphics Engine 200 w/PinPoint™ UX & 4K DM 8G+® Input
CBL Series: Crestron® Certified Interface Cables

Notes:

1. Item(s) sold separately.
2. The HDMI input requires an appropriate adapter or interface cable to accommodate a DVI signal. CBL-HD-DVI interface cables are available separately.
3. The DisplayPort input only supports native DisplayPort signals. To connect an HDMI source to this input, an active HDMI-to-DisplayPort converter must be used. The DisplayPort input automatically overrides the HDMI input when a DisplayPort signal is connected.

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.

18.26 in
[464 mm]

1.07 in
[27 mm]

10.82 in
[275 mm]

7.16 in
[182 mm]

3.94 in
[100 mm]

7.16 in
[182 mm]

A

3.44 in
[88 mm]

3.94 in
[100 mm]

3.44 in
[88 mm]

Headphone

HDMI

DisplayPort

Micro-USB

DC-IN 19V

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