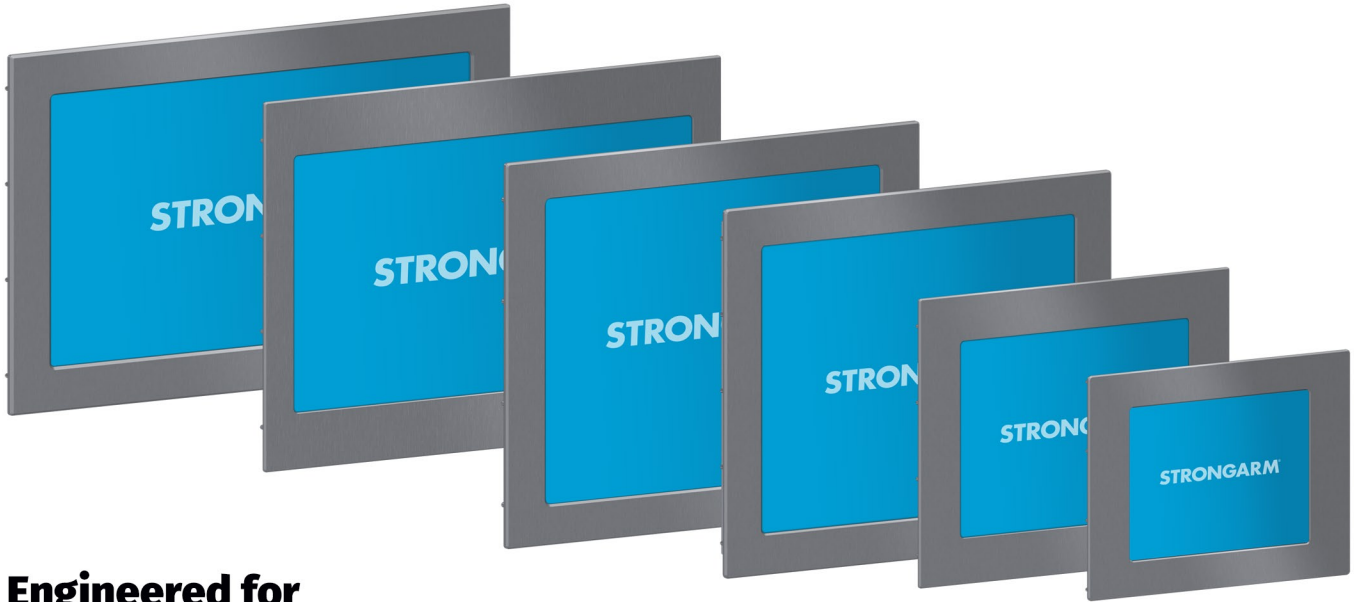


Industrial Panel Mount Displays



**Engineered for
the most demanding
industrial environments!**



Built for the toughest industrial environments, Strongarm's panel mount displays combine precision engineering with unmatched durability. Seamlessly integrated into a milled aluminum or stainless steel bezel, our displays are shielded by a robust polycarbonate window or an optional touch screen. All bezels are designed and manufactured by Strongarm, ensuring perpetually consistent cutout dimensions across all display sizes. By combining cutting-edge technology with rugged design, we've set the gold standard for panel mount displays in industrial applications.

Features

- Precision-milled, heavy-duty bezels ensure a long display life
- Polycarbonate viewing windows are scratch and UV-resistant
- High shock (50G) and vibration resistant (1.5g)
- MTBF greater than 250,000 hours @ 50°C
- Touch screen options available for any industrial environment
- Interface options include VGA, DVI, HDMI, and Display Port
- Stainless steel bezels come standard with a #4 satin brushed finish, 304 or 316 stainless steel is optional
- Aluminum display bezels available in powder coated stock or custom colors
- Clip-in or stud mounting options
- Industry-leading 5 year warranty
- Private labeling available for OEM manufacturers
- Available from stock inventory
- Class I Div II certified when mounted in a certified enclosure
- NEMA 4X compatible with applications requiring washdown
- UL/cUL/CB Listed, Type 12/4 and 12/4/4X (IP 65/66), File No E225791/Hazloc File No. E235160

PANEL MOUNT DISPLAY SPECIFICATIONS

STRONGARM

DISPLAY						
Display Size	12.1"	15.1"	17.1"	19.1"	21.5" WIDESCREEN	24" WIDESCREEN
Native Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080
Aspect Ratio	4:3	4:3	5:4	5:4	16:9	16:9
Brightness	500 nits	350 nits	250 nits	250 nits	250 nits	250 nits
Contrast Ratio	700:1	800:1	1000:1	1000:1	1000:1	1000:1
Number of Colors	16.7 million	16.7 million	16.7 million	16.7 million	16.7 million	16.7 million
Viewing Angle	160°/160°	160°/140°	170°/160°	170°/160°	170°/160°	170°/160°
Inputs	VGA, DVI	VGA, Display Port & HDMI	VGA, Display Port & HDMI	VGA, Display Port & HDMI	VGA, Display Port & HDMI	VGA, Display Port & HDMI
POWER						
Maximum Power Consumption	20 watts	19 watts	33 watts	18 watts	22 watts	25 watts
Power Input	AC 100-240V DC 12V or 24V	AC 100-240V DC 12V or 24V	AC 100-240V DC 12V or 24V	AC 100-240V DC 12V or 24V	AC 100-240V DC 12V or 24V	AC 100-240V DC 12V or 24V
OPERATING CONDITIONS						
Temperature Range	32° to 131°F (0° to 55°C)	32° to 149°F (0° to 65°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)
Humidity Range	10% to 80% non-condensing	10% to 80% non-condensing	10% to 80% non-condensing	10% to 80% non-condensing	10% to 80% non-condensing	10% to 80% non-condensing
WEIGHT						
Display with Aluminum Bezel	10.8 lb (4.9 kg)	13.2 lb (6.0 kg)	13.3 lb (6.0 kg)	16.5 lb (7.5 kg)	19.4 lb (8.8 kg)	20.2 lb (9.2 kg)
	with touch screen: 11.5 lb (5.2 kg)	with touch screen: 14.0 lb (6.3 kg)	with touch screen: 14.0 lb (6.3 kg)	with touch screen: 17.6 lb (8.0 kg)	with touch screen: 19.5 lb (9.2 kg)	with touch screen: 21.2 lb (9.6 kg)
Display with Stainless Steel Bezel	11.5 lb (5.2 kg)	13.9 lb (6.3 kg)	14.3 lb (6.5 kg)	19.9 lb (9.0 kg)	20.4 lb (9.2 kg)	21.2 lb (9.6 kg)
	with touch screen: 12.2 lb (5.5 kg)	with touch screen: 15.0 lb (6.8 kg)	with touch screen: 15.0 lb (6.8 kg)	with touch screen: 20.9 lb (9.5 kg)	with touch screen: 20.5 lb (9.3 kg)	with touch screen: 22.2 lb (10.0 kg)

Touch Screen Options

Resistive (5-wire) Available with all display sizes

The most common touch screen due to its accuracy, reliability, and lower cost. Standard resistive touch screens consist of a glass panel and a resistive coating, combined with a polyester cover sheet having a conductive coating. They are responsive to fingers, gloves, and styluses. Able to withstand such environmental conditions as liquid spills, splashes, and industrial wash downs, their lifecycle of 35 million touches exceeds most other touch screens.

GFG Resistive (5-wire) Available with 19.1" and 24" widescreen display sizes

The GFG resistive touch screen is similar to the standard resistive touch screen. It features a waterproof, cleanable, corrosion and scratch-resistant surface of thin borosilicate glass that protects the polyester overlay. The GFG resistive touch screen has a surface hardness greater than 5 Mohs, yet maintains the accuracy and reliability of the standard resistive touch screen. The GFG resistive touch screen works with fingers, gloves, and styluses.

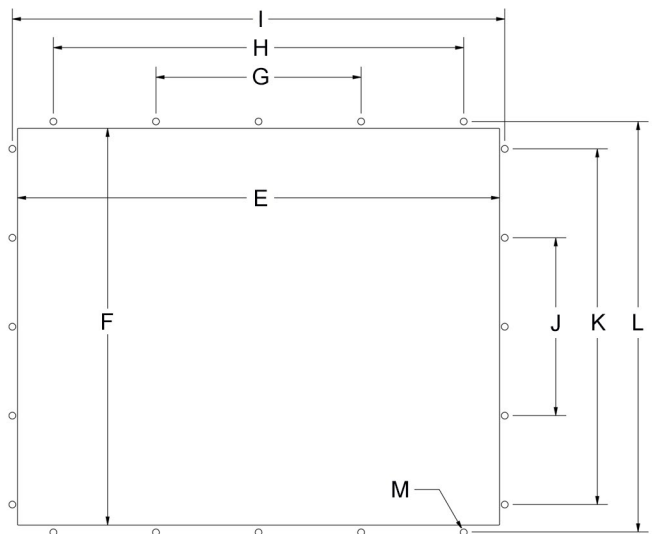
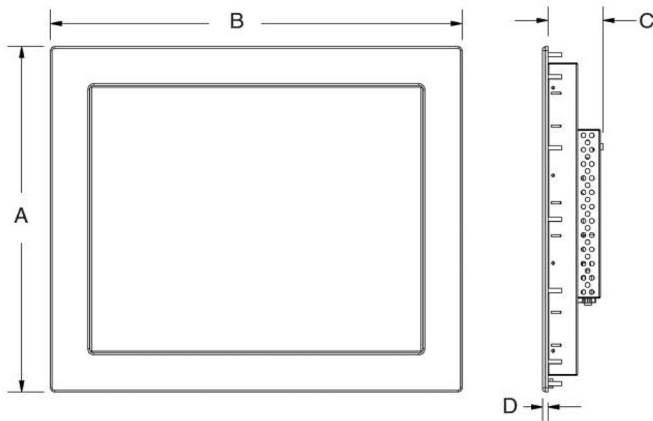
Infrared Available with 24" widescreen display size

Strongarm's infrared touch screens are built to withstand the most severe environments. Their 1/8" thick polycarbonate window provides exceptional tamper-resistance. Infrared is the only touchscreen technology that does not rely on an overlay or substrate, instead using infrared LEDs, making it impossible for the sensor to wear out. The touch frame contains a row of infrared LEDs and photo transistors, each mounted on two opposite sides to create a grid of invisible infrared light. Infrared touch screens are solid-state and are highly tolerant to shock and vibration. Infrared touch screens work with fingers, gloves, styluses, and any opaque object that breaks the invisible grid of light beams.

Projective Capacitive Available with 19.1", 21.5" widescreen, and 24" widescreen display sizes

Also known as PCAP, projected capacitive touch screens are a variant of the capacitive touch technology. PCAP touch screens feature a matrix of rows and columns of conductive material layered on sheets of glass. When the touch screen is energized, and a conductive object comes into contact with the glass panel, the electrostatic field is distorted at that point of contact. A PCAP touch screen remains functional even when the glass is scratched or broken. PCAP touch screens work with fingers, gloves, and styluses and are ideally suited for outdoor applications where exposure to rain, snow, ice, and dust is common.

Panel Cutout Guide



Panel Cutout Dimensions

DISPLAY SIZE	12.1"	15.1"	17.1"	19.1"	21.5" WIDESCREEN	24" WIDESCREEN
A	10.88	13.75	13.75	15.75	15.50	16.00
B	14.38	16.75	16.75	18.75	21.75	25.25
C	2.25	2.00	2.38	2.63	2.38	2.38
D*	STAINLESS: .19 ALUMINUM: .38	STAINLESS: .19 ALUMINUM: .38	STAINLESS: .19 ALUMINUM: .38	STAINLESS: .19 ALUMINUM: .38	STAINLESS: .19 ALUMINUM: .38	STAINLESS: .19 ALUMINUM: .38
E	13.13	15.63	15.63	17.63	20.63	24.00
F	9.63	12.50	12.50	14.50	14.38	14.75
G**	4.53	7.00	7.00	7.50	9.50	10.00
H	13.58	14.00	14.00	15.00	19.00	20.00
I	13.58	16.00	16.00	18.00	21.00	24.50
J***	3.35	3.63	3.63	6.50	4.00	4.25
K	10.04	10.86	10.86	13.00	12.00	12.75
L	10.04	13.00	13.00	15.00	14.75	15.25
M	Ø.25	Ø.25	Ø.25	Ø.25	Ø.25	Ø.25

* .19 for NEMA 4X stainless steel bezels, .38 for NEMA 4/12 for aluminum bezels

** 12.1" display does not utilize a center stud horizontally

*** No central vertical stud on the 12.1", 15.1", 17.1" displays and the 21.5" and 24" widescreen displays