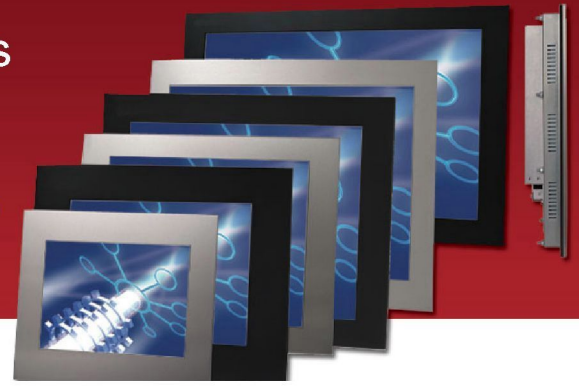


Panel Mount Monitors and Touchscreens

NEMA 12/4/4X

12"/15"/17"/19"/20"/22"

Model: HPM1200, HPM1500, HPM1700,
HPM1900, HPM2200



Product Description

The iTechLCD Panel Mount Industrial LCD Monitors have been designed to provide the industrial user with superior picture quality and practical features housed in a rugged industrial enclosure which will assure reliable operation in most factory environments. With depths of only 1.6" to 2.18", these Panel Mount monitors easily fit into tight spaces. High-resolution displays offer the industrial user the optimal trade-off between screen size and cost.

Features

- 12", 15", 17", 19" or 22" active-matrix display
- NEMA 4/12 or NEMA 4/4X/12
- UL Rated for Hazardous Locations: Class I, II, III, Division 2, Groups A, B, C, D, F, G (optional for 17" and 19" only)
- High resolution, high brightness and contrast
- Long-life backlights – up to 50,000 hour brightness half-life
- Anti-reflective tempered glass window option
- Touchscreen, Safety Glass, and Acrylic window options
- Only 1.6" to 2.39" deep
- Black Carbon Steel and Stainless Steel faceplates
- Panel mount without drilling stud holes
- 6 ft. cables included (optional to 1000 ft.)
- Industrial Certifications: UL 508A, UL 50E, CE, FCC Class A, RoHS, UL 60950 3rd Edition / cUL Recognized Component

About i-Tech

iTech provides industrial flat panel monitors and touchscreens that have superior quality and up-to-date features that are relevant to industrial applications.

We house this advanced technology in a variety of rugged enclosures that allow the user to put their displays wherever they are needed in the factory. We assure our customers of high reliability over time and back it up with an industry-leading warranty.



RoHS

CE

FCC



Rear view of 19" Panel Mount monitor.



Panel Mount workstation configuration with monitor and industrial keyboard.



Optional KVM Extender allows monitor to be placed up to 1000' away from computer.



Optional Screen Protector guards touchscreens from scratches and wear.

Optional Accessories

- Industrial Panel Mount Keyboards (NEMA 4X rated)
- Screen protectors (all sizes)
- Extended cable options up to 1000'
- KVM Extenders

(see detailed configuration guide or consult factory for ordering numbers)



Panel Mount Industrial Monitors and Touchscreens: Specifications

Model Numbers

HPM1200

HPM1500

HPM1700

1

HPM1900

1

HPM2000

HPM2200

	HPM1200	HPM1500	HPM1700	1	HPM1900	1	HPM2000	HPM2200
	Thin-film transistor (TFT) Active Matrix Display							
Size	12.1" diagonal	15" diagonal	17" diagonal	19" diagonal	20" diagonal	22" diagonal		
Image Size (W x H)	246 x 184.5 mm (9.7" x 7.3")	304 x 228 mm (12.0" x 9.0")	338 x 270 mm (13.3" x 10.6")	376 x 301 mm (14.8" x 11.9")	408 x 306 mm (16.1" x 12.1")	474 x 296 mm (18.65" x 11.66")		
Native Resolution*	SVGA (800 x 600 @ 60 Hz)	XGA (1024 x 768 @ 60 Hz)	SXGA (1280 X 1024 @ 60 Hz)		UXGA (1600 x 1200 @ 60 Hz)	WSXGA+ (1680 x 1050 @ 60 Hz)		
Aspect Ratio	4:3	4:3	5:4		4:3	16:9		
Pixel Pitch	0.308 mm x 0.308 mm	0.297 mm x 0.297 mm	0.264 mm x 0.264 mm	0.294 mm x 0.294 mm	0.255x0.255 mm	0.282 x 0.282 mm.		
Number of Colors	262,144	16.2 million	16.7 million	16.8 million	16.7 million			
Brightness (white)	400 nits (cd/rr)	250 nits <cd/m ²)			300 nits (cd/m ²)			
Viewing Angle (Horizontal/Vertical)	160°/+60°/-50°	140°/120°	160° /160°	170°/160°	178°/178°	170°/160°		
Contrast Ratio	1000:1	500:1	1000:1	1000:1 (static); 2000:1 (dynamic)	800:1	1000:1 (static); 100,000:1 (dynamic)		
Backlight Brightness half-life		2 CCFTs, 50,000 hours		4 CCFTs, 50,000 hours	6 CCFTs, 45,000 hours	4 CCFTs, 50,000 hours		
Input Connectors**		HD-15			HD-15, DVI-D			
Input Signal Formats***	RGB Analog, HA/, Combined	RGB Analog, Separate H/V sync		RGB Analog, Separate HA/, Combined sync, Sync on Green, DVI	RGB Analog, Separate H/V, DVI			
Horizontal / Vertical Scan	31-38 kHz/60-75 Hz	24-61 kHz / 56-75 Hz	24-82 kHz / 50-75 Hz	30-82 kHz / 50-75 Hz	28-83 kHz / 56-85 Hz	24-82 kHz / 50-85 Hz		
Response Rate	35 ms	12 ms		5 ms	8 ms	5 ms		
Monitor Input	12 VDC, 2.5 A (100/240 VAC, 60/50 Hz w/ external adapter)	120/240 VAC, 1.2/0.6 A, 60/50 Hz	120/240 VAC, 1.5/0.75 A, 60/50 Hz	120/240 VAC, 1.2/0.6 A, 60/50 Hz	120/240 VAC, 0.8/0.6 A, 60/50 Hz	120/240 VAC, 1.5/0.75 A, 60/50 Hz		
Power Consumption	-20 W	-25 W	-21 W	-34 W	-58 W	-45 W		
Temperature				0°to50°C(32°to122°F)				
Humidity				20% to 90% non-condensing				
Operating Shock vibration				15 g, 6 msec, half-sine				
Altitude				Operating (sine): 1.0 g, swept sine 9-500 Hz; Transport (random): 0.1g ² Hz, 10-200 Hz; 0.03g ² / Hz, 200-2000 Hz				
				Operating: up to 10,000 ft; Non-operating: up to 40,000 ft				
Enclosure Type				Panel mount: rear collar compresses gasket against panel (5/16" maximum panel thickness); held by M5 studs				
Enclosure Rating	Stainless Steel: NEMiA/UL Type 12/4/4X; IP65/IP66 rated			Black Powder-Coated Steel NEMA/ULType 12/4; IP65/IP66 rated				
Depth behind Panel	1.6" (2.5" at connectors)	52.3 mm (2.06")	52.5 mm (2.07")	54.5 mm (2.15")	60.7 mm (2.39")	51.8 mm (2.04")		
Front Bezel Outside Dimensions (W x H x D)	338 mm x 296 mm x 7.1 mm (13.31" x 11.64" x 0.28")	437.8 mm x 353.6 mm x 7.1 mm (17.24" X 13.92" x 0.28")		482.6 mm x 398.8 mm x 7.1 mm (19.0" X 15.7" x 0.28")		558.8 mm x 374.7 mm x 7.1 mm (22.0" x 14.75" x 0.28")		
Cutout Dimensions (W x H)	308 mm x 263 mm (12.12" x 10.35")	406.9 mm x 323.1 mm (16.02" x 12.72")		453.4 mm x 366.8 mm (17.85" x 14.44")		528.7 mm x 342.3 mm (20.81" x 13.48")		
Net / Shipping Weight	9 lbs, /13 lbs.	14 lbs, /18 lbs,	16 lbs. /19 lbs.	18lbs./22 lbs.	1 22 lbs. /25 lbs.	19 lbs, / 23 lbs,		
Touchscreen Option				5-wire resistive system: emulates a mouse; Serial RS-232 or USB interface to host compute				
Electrical	UL 1950 / cUL Recognized, UL 508A, FCC Class A, CM.			UL 60950 3 rd Edition / cUL Recognized Component, UL 508A, FCC Class A, CE				
Enclosure, Environmental		UL 50E, RoHS (Hazardous Substances), IEC 60721-3 (Reliability), WEEE (Registration No. WEE/DJ1859ZX for UK only)						
Hazardous Location (optional for 17719" only)	N/A	N/A	Listed Class I, Division 2, Groups A, B, C, D; Recognized Class III, III, Division 2. Groups F, G		N/A	N/A		