



Hope Industrial Systems, Inc.

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Data Sheet: Universal Mount Monitors and Touch Screens

NEMA 12/4/4X

15"/17"/19"/19.5"/22"/23"

Features

- ▶ 15", 17", 19", 19.5", 22", or 23" LCD
- ▶ UL Rated for Hazardous Locations: Class I, II, III, Division 2
- ▶ High resolution, high brightness and contrast
- ▶ Touch Screen, Tempered Glass, and Acrylic Window options
- ▶ VESA and side mounting holes standard on all models
- ▶ Cable lengths from 5 ft. to 1000 ft.
- ▶ Small size – only 2.80" to 3.25" deep
- ▶ Black carbon steel and stainless steel enclosures
- ▶ High shock and vibration
- ▶ Industrial Certifications: UL 60950 3rd Edition /cUL Listed, UL 50E, FCC Class A, CE

Product Description

Hope Industrial Systems' Universal Mount Industrial Monitors are designed to provide the industrial user with excellent picture quality and rugged design for reliable continuous operation.

Universal Mount Monitors are extremely versatile and can be mounted to the floor on a pedestal, attached to a wall, column, or post, or even hung from the ceiling; anywhere in the factory a display or touch screen is needed.

Like all our displays, these monitors are backed by industrial certifications (including 3rd-party environmental testing) and an industry-leading 4-year warranty.

Optional Accessories

- ▶ Yoke Mounts
- ▶ Multiple cable exit options
- ▶ KVM Extenders
- ▶ Benchtop mounting kits
- ▶ Free-standing pedestals
- ▶ Arm and wall mount kits
- ▶ Keyboards and keyboard trays
- ▶ Cable options up to 1000'



Universal Mount Monitor on Industrial Yoke Mount with KVM Extender.



Universal Mount Monitor mounted on NEMA 4X Heavy Industrial Arm Mount.



Full workstation configuration with PC enclosure, keyboard, yoke, and pedestal.



Universal Mount Monitor mounted on VESA Radial Arm.



About Hope Industrial Systems

Hope Industrial provides industrial flat panel monitors and touch screens 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.


We provide all of these benefits at a price that is significantly less than comparable industrial offerings. And finally, we offer the best sales, support and service in the industry:

- ▶ 4-year limited warranty on all monitors
- ▶ 24-48-hour repair turnaround (most models)
- ▶ Same day shipment lead time (most models)
- ▶ 30-day money-back guarantee


Universal Mount Industrial Monitors and Touch Screens

Monitor Overview

Rear View



Rear View with KVM Extender Option



NEMA 12/4 Black Carbon Steel or NEMA 4X Stainless Steel enclosure

VESA mounting holes standard on all models!

15", 17", 19", 19.5", 22", or 23" Monitor with:

- Resistive Touch Screen,
- Tempered Glass, or
- Acrylic Protective Window

Sealed rear cover provides NEMA 4 or 4X protection

Depth only:
2.80" (15")
3.25" (17", 19", 19.5", 22", 23")

Optional Yoke mount provides full tilt/swivel

Depth with KVM Extender only:
4.60" (15")
4.90" (17", 19", 19.5", 22", 23")

External rear access to monitor controls

Optional modular KVM Extender allows placement of the display up to 1000' away from computer!

Cable Exit Options



Opening to Internal Connectors



Compression Gland (NEMA 2, 4, or 4X)



Conduit Cable Exit (NEMA 4 or 4X)



Pilot Hole Cover Plate (NEMA 4 or 4X)

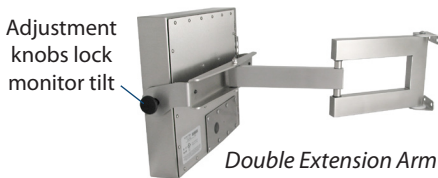
Mounting Options

Heavy Industrial Mounts

Rugged designs ideal for even the harshest environments. Available in NEMA 4X stainless or NEMA 4 black powder-coated steel.

Heavy Industrial Arm Mounts

Space-saving designs with full range of motion



Double Extension Arm



Single Extension Arm

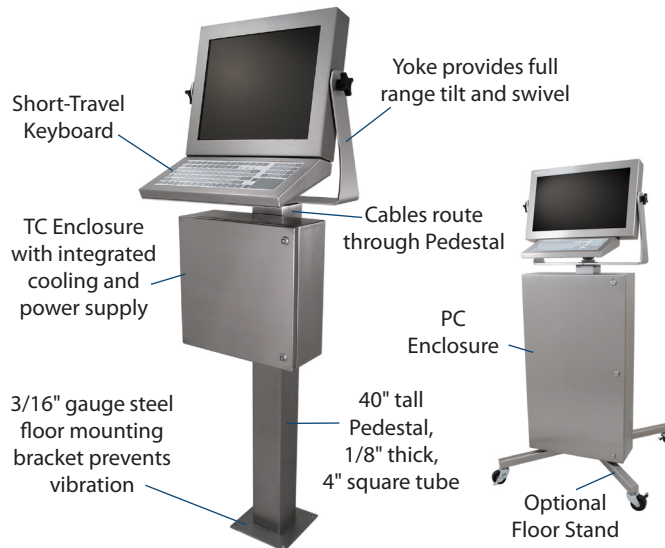
Rated at up to 100 lbs.



Wall Yoke

Heavy Industrial Yokes and Pedestals

Extremely sturdy free-standing configurations



VESA Mounts

VESA holes allow for mounting on a Wall, Bench, Post, or Column



VESA Radial Arm



VESA Wall Mount



VESA Benchtop Stand

Universal Mount Industrial Monitors and Touch Screens: Specifications

Model No. (Revision)	UM15 (Rev. H)	UM17 (Rev. H)	UM19 (Rev. H)	UM19.5 (Rev. A)	UM22 (Rev. C)	UM23 (Rev. D)
Display						
Type	Thin-film transistor (TFT) Active Matrix Liquid Crystal, LED Backlit					
Size	15" diagonal	17" diagonal	19" diagonal	19.5" diagonal	22" diagonal	23" diagonal
Image Size (W x H)	304 mm x 228 mm (12.0" x 9.0")	338 mm x 270 mm (13.3" x 10.6")	375 mm x 300 mm (14.8" x 11.8")	434.9 mm x 238.7 mm (17.1" x 9.4")	474 mm x 296 mm (18.7" x 11.7")	509.2 mm x 286.4 mm (20.05" x 11.28")
Native Resolution*	XGA (1024 x 768 @ 60 Hz)	SXGA (1280 x 1024 @ 60 Hz)		HD 1080p (1920 x 1080 @ 60 Hz)	WSXGA+ (1680 x 1050 @ 60 Hz)	HD 1080p (1920 x 1080 @ 60 Hz)
Aspect Ratio	4:3	5:4		16:9	16:10	16:9
Pixel Pitch	0.297 mm x 0.297 mm	0.264 mm x 0.264 mm	0.293 mm x 0.293 mm	0.2265 mm x 0.221 mm	0.282 mm x 0.282 mm	0.265 mm x 0.265 mm
Number of Colors	16.7 million					
Brightness (white)	400 nits (cd/m ²)	250 nits (cd/m ²)				
Viewing Angle (Hori/Vert)	170° / 170°	170° / 160°	178° / 178°		170° / 160°	178° / 178°
Contrast Ratio	1500:1	1000:1	1000:1 (typ); 20M:1 (dyn)	3000:1	1000:1 (typ); 10M:1 (dyn)	1000:1 (typ); 20M:1 (dyn)
Backlight Brightness half-life	60,000 hours		40,000 hours	50,000 hours		40,000 hours
Video						
Input Connectors**	HD-15, DVI-I, optional DisplayPort or BNC		HD-15, DVI-D, optional DisplayPort or BNC		HD-15, DVI-I, optional DisplayPort or BNC	
Input Signal Formats***	RGB, Separate H/V sync; DVI		RGB, Sep. H/V, Combined, SoG; DVI	RGB Analog video, Separate H/V sync; DVI		
Horizontal Scan	31-73 kHz		24-82 kHz			
Vertical Scan	50-76 Hz		50-75 Hz			
Response Rate	35 ms	5 ms	14 ms	20 ms	5 ms	
Electrical						
Monitor Input	100 to 240 VAC, 0.5/0.25 A, 60/50 Hz or 9.6 to 36.6 VDC, 2.5 to 0.65 A	100 to 240 VAC, 0.6/0.3 A, 60/50 Hz or 9.6 to 36.6 VDC, 2.5 to 0.65 A	100 to 240 VAC, 1.5/0.75 A, 60/50 Hz or 9.6 to 36.6 VDC, 2.5 to 0.65 A	100 to 240 VAC, 0.8/0.4 A, 60/50 Hz or 9.6 to 36.6 VDC, 2.5 to 0.65 A		100 to 240 VAC, 1.0/0.5 A, 60/50 Hz or 9.6 to 36.6 VDC, 2.5 to 0.65 A
Power Consumption	~16.8 W	~20 W	~16 W	~20 W	~26 W	~21 W
Power Management	< 4 W		< 0.5 W	< 1 W	< 0.5 W	< 1 W
Environmental						
Operating Temperature	0° to 50°C (32° to 122°F)					
Storage Temperature	-20° to 60°C (-4° to 140°F)					
Humidity	20% to 90% non-condensing					
Operating Shock	15 g, 6 msec, half-sine					
Vibration	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					
Altitude	Operating: up to 10,000 ft; Non-operating: up to 40,000 ft					
Functional						
Control Panel Buttons	Power On/Off button, Control Function buttons					
On-Screen Display Menus	Picture, Color, Image, OSD, Setup, Information (other options depending on model)					
Touch Screen Option	5-wire resistive system; emulates a mouse; Serial RS-232 or USB interface to host computer					
Physical						
Enclosure Type	Self-contained enclosure					
Enclosure Rating	Black powder-coated carbon steel: NEMA/UL Type 2 (IP22) or NEMA/UL Type 12/4 (built to IP65/IP66 standards) Stainless steel: NEMA/UL Type 2 (IP22) or NEMA/UL Type 12/4/4X (built to IP65/IP66 standards)					
Monitor Enclosure Bezel (W x H)	416.6 mm x 330.2 mm (16.4" x 13.0")	416.6 mm x 354.1 mm (16.4" x 13.94")	467.4 mm x 397.5 mm (18.4" x 15.65")	514.4 mm x 317.5 mm (20.25" x 12.5")	546.1 mm x 376.9 mm (21.5" x 14.84")	593.7 mm x 370.6 mm (23.38" x 14.59")
Depth	2.8" (4.6" with KVM)		3.25" (4.9" with KVM Extender)			
Net Weight	Carbon steel: 13 lbs. Stainless steel: 16 lbs.	Carbon steel: 15 lbs. Stainless steel: 18 lbs.	Carbon steel: 18 lbs. Stainless steel: 21 lbs.	Carbon steel: 15 lbs. Stainless steel: 19 lbs.	Carbon steel: 20 lbs. Stainless steel: 25 lbs.	Carbon steel: 17 lbs. Stainless steel: 22 lbs.
Shipping Weight	Carbon steel: 16 lbs. Stainless steel: 19 lbs.	Carbon steel: 18 lbs. Stainless steel: 21 lbs.	Carbon steel: 21 lbs. Stainless steel: 24 lbs.	Carbon steel: 19 lbs. Stainless steel: 23 lbs.	Carbon steel: 23 lbs. Stainless steel: 28 lbs.	Carbon steel: 22 lbs. Stainless steel: 27 lbs.
Compliances and Certifications						
Electrical	UL 60950 3 rd Edition / cUL Listed Product, FCC Class A, CAN ICES-3A/NMB-3A, CE					
Environmental	WEEE	IEC 60721-3 (Reliability), WEEE (Registration No. WEE/DJ1859ZX for UK only)				
Enclosure	UL 50E					
Hazardous Location	I.T.E. for Class I, II, III, Division 2, Groups A, B, C, D, F, G; T-Code T4A	I.T.E. for Class I, II, III, Division 2, Groups A, B, C, D, F, G; T-Code T4	I.T.E. for Class I, II, III, Div. 2, Groups A, B, C, D, F, G; T-Code T5 (AC); T-Code T4A (DC)	I.T.E. for Class I, II, III, Division 2, Groups A, B, C, D, F, G; T-Code T4A	I.T.E. for Class I, II, III, Division 2, Groups A, B, C, D, F, G; T-Code T5 (AC models); T-Code T4A (DC models)	
Ordering Options						
Window Options	Tempered Glass, Analog Resistive Touch Screen, or Acrylic Protective Window					
Enclosure Options	Stainless steel or black powder-coated carbon steel					
Power Options	AC or DC input					

* A full list of supported video standards may be found on our website.

** Inputs using optional adapter: HDMI (via HDMI to DVI adapter); DisplayPort (via DisplayPort to VGA or DVI adapter); BNC (via HD-15 to 5-wire BNC adapter). Call for details.

*** NTSC/PAL composite input available. Call for details.

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