Hope Industrial Systems, Inc.

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Data Sheet: Universal Mount Monitors and Touch Screens

NEMA 12/4/4X, IP65/IP66

15"/17"/19"/19.5"/22"/23.8"

Features

- 15", 17", 19", 19.5", 22", or 23.8" LCD
- NEMA 4/12 or NEMA 4/4X/12, IP65/66 rated
- UL Rated for Hazardous Locations: Class I, II, III, Division 2
- Bright, high contrast, and ultra-wide viewing angles
- Field-proven MTBF of more than 250,000 hours
- Touch Screen, Glass, Acrylic, and Food Protection window options
- VESA and side mounting holes standard on all models
- Small size – only 71 mm to 83 mm (2.80" to 3.25") deep
- Stainless steel and black carbon steel enclosure options
- Industrial Certifications: UL/EN/IEC62368-1, UL 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.

These monitors are backed by industrial certifications (including 3rd-party environmental testing) and an industry-leading 5-year warranty.

Optional Accessories

- Yoke Mounts
- Free-standing pedestals
- Multiple cable exit options
- Arm and wall mount kits
- KVM Extenders
- Keyboards and keyboard trays
- Benchtop mounting kits
- Cable options up to 300 m (1000')

c UL us RoHS CE FC

About Hope Industrial Systems

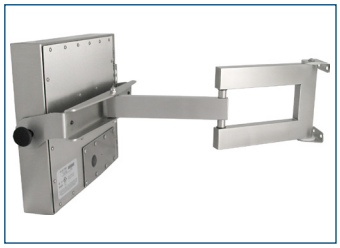
Hope Industrial provides industrial flat panel monitors and touch screens with superior quality and up-to-date features that are relevant to industrial applications.

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:

- 5-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 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.

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Universal Mount Industrial Monitors and Touch Screens

Monitor Overview

Rear View

NEMA 12/4, IP65/66 Black Carbon Steel or NEMA 4X, IP65/66 Stainless Steel enclosure

Depth only:
2.80" (15")
3.25" (17", 19", 19.5", 22", 23.8")

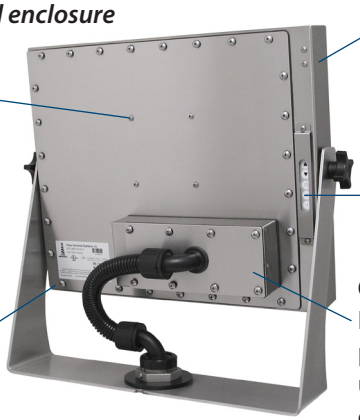
VESA mounting holes standard on all models!

15", 17", 19", 19.5", 22", or 23.8" Monitor with:
- Touch Screen,
- Tempered Glass, or
- Acrylic Window

Optional Yoke mount provides full tilt/swivel

Sealed rear cover provides NEMA 4 or 4X protection

Rear View with KVM Extender Option

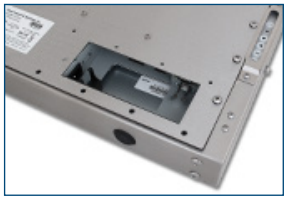


Depth with KVM Extender only:
4.60" (15")
4.90" (17", 19", 19.5", 22", 23.8")

External rear access to monitor controls

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

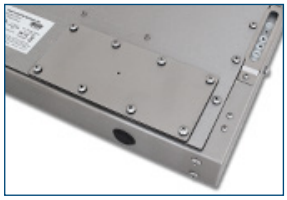
Cable Exit Options



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)

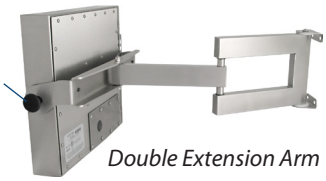
Mounting Options

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

Adjustment knobs lock monitor tilt



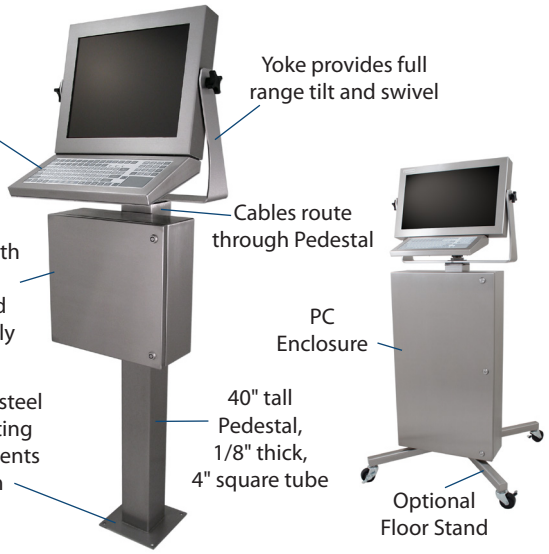
Double Extension Arm

Single Extension Arm

Rated at up to 100 lbs.

Wall Yoke

Heavy Industrial Yokes and Pedestals
Extremely sturdy free-standing configurations



Short-Travel Keyboard

Yoke provides full range tilt and swivel

Small PC Enclosure with integrated cooling and power supply

Cables route through Pedestal

PC Enclosure

3/16" gauge steel floor mounting bracket prevents vibration

40" tall Pedestal, 1/8" thick, 4" square tube

Optional Floor Stand

VESA Mounts

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

VESA Radial Arm

VESA Wall Mount

VESA Benchtop Stand

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Universal Mount Industrial Monitors and Touch Screens: Specifications

Model No. (Revision)	UM15 (Rev. I)	UM17 (Rev. I)	UM19 (Rev. I)	UM19.5 (Rev. C)	UM22 (Rev. C)	UM23.8 (Rev. B)
Display						
Type	Thin-film transistor (TFT) Active Matrix Liquid Crystal, LED Backlit					
Size	15" diagonal	17" diagonal	19" diagonal	19.5" diagonal	22" diagonal	23.8" 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")	527 mm x 296 mm (20.75" x 11.67")
Native Resolution	XGA (1024 x 768 @ 60Hz)	SXGA (1280 x 1024 @ 60Hz)		HD 1080p (1920 x 1080 @ 60Hz)	WSXGA+ (1680 x 1050 @ 60Hz)	HD 1080p (1920 x 1080 @ 60Hz)
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	0.2745mm x 0.2745mm
Number of Colors	16.7 million					
Brightness (white)	400 nits (cd/m^2)	250 nits (cd/m^2)		350 nits (cd/m^2)	250 nits (cd/m^2)	350 nits (cd/m^2)
Viewing Angle (Hori/Vert)	170° / 170°	178° / 178°		170° / 170°	170° / 160°	178° / 178°
Contrast Ratio	1500:1	1000:1		3000:1	1000:1 (typ); 10M:1 (dyn)	1000:1
Backlight Brightness half-life	60,000 hours	50,000 hours	40,000 hours	50,000 hours		40,000 hours
Video						
Input Connectors	DVI-I, DisplayPort				HD-15, DVI-I	DVI-I, DisplayPort
Inputs using Adapter	HDMI, HDMI Mini, HDMI Micro, DisplayPort Mini, VGA, BNC				HDMI, HDMI Mini, HDMI Micro, DisplayPort, DisplayPort Mini, BNC	HDMI, HDMI Mini, HDMI Micro, DisplayPort Mini, VGA, BNC
Input Signal Formats	RGB Analog, Sync Types: Separate (Sep), Composite (Comp), Sync on Green (SoG); DVI; DisplayPort				RGB, Sync Types: Sep, Comp, SoG; DVI	RGB, Sync Types: Sep, Comp, SoG; DVI; DisplayPort
Horizontal / Vertical Scan	31-80 kHz / 50-75 Hz	31-80 kHz / 49-76 Hz	31-80 kHz / 50-75 Hz	31-80 kHz / 50-73 Hz	24-82 kHz / 50-75 Hz	31-80 kHz / 50-75 Hz
Response Time	35 ms	14 ms		20 ms	5 ms	13 ms
Electrical						
Monitor Input	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, 0.6/0.3 A, 60/50 Hz and 10.8 to 26.4 VDC, 2.3 to 0.9 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, 0.6/0.3 A, 60/50 Hz and 10.8 to 26.4 VDC, 2.3 to 0.9 A
Power Consumption	~13.5 W	~12 W	~13.3 W	~27 W	~26 W	~21 W
Power Management	< 1.2 W	< 2 W	< 1.5 W	< 2 W	< 0.5 W	< 2 W
Environmental						
Temperature*	Operating: 0° to 50°C (32° to 122°F); Storage: -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)					
Physical						
Enclosure Type	Self-contained enclosure					
Enclosure Rating	Black powder-coated carbon steel (black powder-coated aluminum rear cover): NEMA/UL Type 2 (IP22) or NEMA/UL Type 12/4 (IP65/IP66) Stainless steel: NEMA/UL Type 2 (IP22) or NEMA/UL Type 12/4/4X (IP65/IP66)					
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")	537.7 mm x 340.1 mm (21.17" x 13.39")	546.1 mm x 376.9 mm (21.5" x 14.84")	603.3 mm x 383.0 mm (23.75" x 15.08")
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: 19.6 lbs. Stainless steel: 22 lbs.	Carbon steel: 20 lbs. Stainless steel: 25 lbs.	Carbon steel: 26 lbs. Stainless steel: 30 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: 25 lbs. Stainless steel: 27 lbs.	Carbon steel: 23 lbs. Stainless steel: 28 lbs.	Carbon steel: 32 lbs. Stainless steel: 32 lbs.
Window Options	All Models: ▪ Single-Touch Resistive Touch Screen ▪ Tempered Glass window (non-touch) ▪ Acrylic window (non-touch) (n/a 19.5, 23.8) HIS-UM19.5 and HIS-UM23.8 Models only: ▪ Multi-Touch PCAP Touch Screen ▪ Food Protection window (non-touch)					
Compliances and Certifications						
Electrical	UL/EN/IEC62368-1, UL/EN/IEC60950-1, UL Listed for US and Canada, FCC Class A, CAN ICES-3A/NMB-3A, CE, UKCA, NOM					
Environmental	IEC 60721-3 (Reliability), WEEE					
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 T5			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 T5

** Consult factory for the 23.8" resistive touch screen if the operating environment exceeds 70% humidity at maximum temperature spec of 50°C (122°F) or exceeds 40°C (104°F) at the maximum humidity spec of 90% humidity.*

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