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

23.8" wide
22" wide
19.5" wide
19"
17"
15"

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.

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

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 300 m (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.

Universal Mount Industrial Monitors and Touch Screens

Monitor Overview

Rear View

Rear View with KVM Extender Option

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

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.

VESA Mounts

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

Heavy Industrial Arm Mounts
Space-saving designs with full
range of motion

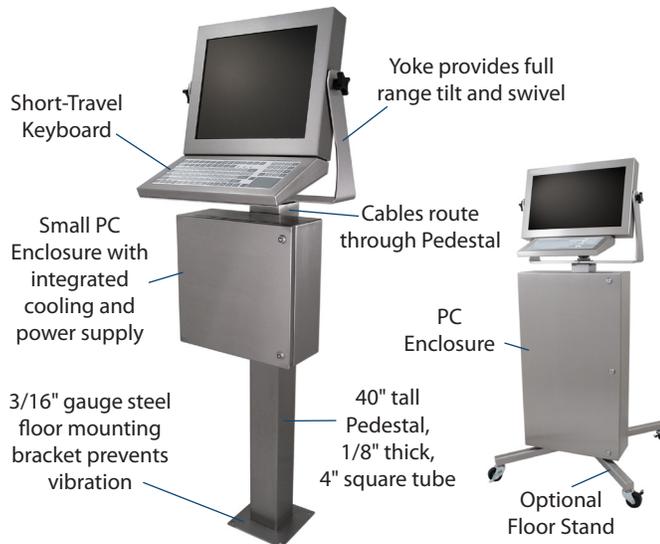Adjustment
knobs lock
monitor tilt

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 Radial Arm

*VESA Wall
Mount*

*VESA
Benchtop
Stand*

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. D)	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/m²)	250 nits (cd/m²)		350 nits (cd/m²)	250 nits (cd/m²)	350 nits (cd/m²)
Viewing Angle (Hori/Vert)	170° / 170°	178° / 178°		170° / 170°	170° / 160°	178° / 178°
Contrast Ratio	1500:1	1000:1		3000:1	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					
Inputs using Adapter	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					
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	31-80 kHz / 48-78 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	~13 W	~21 W
Power Management	< 1.2 W	< 2 W	< 1.5 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): 0.1g² /Hz, 10-200 Hz; 0.03g² / 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	71.1 mm (2.8"); 116.8 mm (4.6") with KVM Extender	82.6 mm (3.25"); 124.5 mm (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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