



# Hope Industrial Systems, Inc.

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## Data Sheet: Universal Mount Monitors and Touch Screens

IP65/IP66, NEMA 12/4/4X  
15"/17"/19"/19.5"/22"/23"

### Features

- ▶ 15", 17", 19", 19.5", 22", or 23" active-matrix LCD
- ▶ Sealed to IP65/IP66 Standards
- ▶ 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 1.5 m to 300 m
- ▶ Small size – only 71 mm to 83 mm deep
- ▶ Black carbon steel and stainless steel enclosures
- ▶ High shock and vibration
- ▶ Long-life backlights – up to 50,000 hours to half brightness
- ▶ Industrial Certifications: CE, IEC 60721-3, UL 50E, UL 60950 3<sup>rd</sup> Edition / cUL Listed

### 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 3<sup>rd</sup>-party environmental testing) and an industry-leading 3-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 300 m

RoHS

CE



Universal Mount Monitor on Industrial Yoke Mount with KVM Extender.



Universal Mount Monitor mounted on IP65/IP66 rated Heavy Industrial Arm Mount.



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



Universal Mount Monitor mounted on VESA Radial Arm.

3 YEAR WARRANTY



### 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:

- ▶ 3-year limited warranty on all monitors, return shipping included
- ▶ 24-48-hour repair turnaround (most models)
- ▶ Same day dispatch lead time (most models)
- ▶ 30-day money-back guarantee

# Universal Mount Industrial Monitors and Touch Screens

## Monitor Overview

### Rear View

Depth only:  
71.1 mm (15")  
82.6 mm (17",  
19", 19.5", 22",  
23")

Optional Yoke  
mount provides  
full tilt/swivel



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 IP65/IP66  
rated protection

### Rear View with KVM Extender Option

IP65/IP66 rated enclosures available in  
Black Carbon Steel or Stainless Steel

Depth with KVM  
Extender only:  
116.8 mm (15")  
124.5 mm (17", 19",  
19.5", 22", 23")

External rear access  
to monitor controls

Optional modular  
KVM Extender allows  
placement of the display  
up to 300 m away from  
computer!



## Cable Exit Options



Opening to Internal  
Connectors



Compression Gland  
(IP22 or IP65/IP66)



Conduit Cable Exit  
(IP65/IP66)



Pilot Hole Cover Plate  
(IP65/IP66)

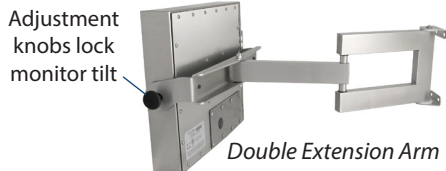
## Mounting Options

### Heavy Industrial Mounts

Rugged designs ideal for even the harshest environments. Available in IP65/IP66 Rated stainless or black powder-coated steel.

#### Heavy Industrial Arm Mounts

Space-saving designs with full  
range of motion



Double Extension Arm



Single Extension Arm

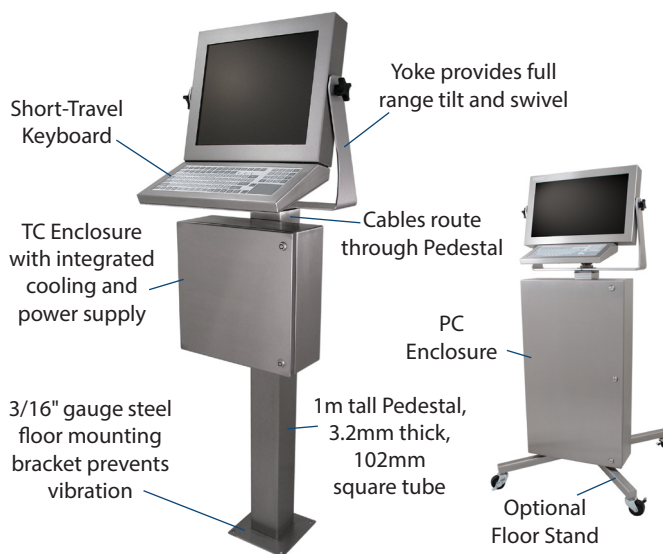
Rated at up  
to 45 kg!



Wall Yoke

#### Heavy Industrial Yokes and Pedestals

Extremely sturdy free-standing configurations



Short-Travel  
Keyboard

Yoke provides full  
range tilt and swivel

TC Enclosure  
with integrated  
cooling and  
power supply

Cables route  
through Pedestal

PC  
Enclosure

3/16" gauge steel  
floor mounting  
bracket prevents  
vibration

1m tall Pedestal,  
3.2mm thick,  
102mm  
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

# Universal Mount Industrial Monitors and Touch Screens

Model No. (Revision):	UM15 (Rev. H)	UM17 (Rev. H)	UM19 (Rev. H)	UM19.5 (Rev. A)	UM22 (Rev. B)	UM23 (Rev. C)
<b>Display</b>						
Type	Thin-film transistor (TFT) Active Matrix Liquid Crystal, LED Backlit					
Size	381 mm (15") diagonal	432 mm (17") diagonal	483 mm (19") diagonal	495 mm (19.5") diagonal	559 mm (22") diagonal	584 mm (23") diagonal
Image Size (W x H)	304 mm x 228 mm	338 mm x 270 mm	375 mm x 300 mm	435 mm x 239 mm	474 mm x 296 mm	509 mm x 286 mm
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	0.297mm x 0.297mm	0.264mm x 0.264mm	0.293mm x 0.293mm	0.2265mm x 0.221mm	0.282mm x 0.282mm	0.265mm x 0.265mm
Number of Colours	16.7 million					
Brightness (white)	400 nits (cd/m <sup>2</sup> )	250 nits (cd/m <sup>2</sup> )				
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
<b>Video</b>						
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 Analogue video, Separate H/V sync; DVI		RGB, Sep. H/V, Combined, SoG; DVI	RGB Analogue 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	
<b>Electrical</b>						
Monitor Input	100-240 VAC, 0.5/0.25 A, 60/50 Hz or 9.6-36.6 VDC, 2.5-0.65 A	100-240 VAC, 0.6/0.3 A, 60/50 Hz or 9.6-36.6 VDC, 2.5-0.65 A	100-240 VAC, 1.5/0.75 A, 60/50 Hz or 9.6-36.6 VDC, 2.5-0.65 A	100-240 VAC, 0.8/0.4 A, 60/50 Hz or 9.6-36.6 VDC, 2.5-0.65 A	100 to 240 VAC, 0.8/0.4 A, 60/50 Hz	100-240 VAC, 1.0/0.5 A, 60/50 Hz or 9.6-36.6 VDC, 2.5-0.65 A
Power Consumption	~16.8 W	~20 W	~16 W	~20 W	~26 W	~24 W
Power Management	< 4 W		< 0.5 W	< 1 W	< 0.5 W	< 1 W
<b>Environmental</b>						
Temperature	0° to 50°C					
Humidity	20% to 90% non-condensing					
Operating Shock	15 g, 6 msec, half-sine					
Operating Vibration (sine)	1.0 g, swept sine 9-500 Hz					
Transport Vibration (random)	0.1g <sup>2</sup> Hz, 10-200 Hz; 0.03g <sup>2</sup> / Hz, 200-2000 Hz					
Altitude	Operating: up to 3.05 m; Non-operating: up to 12.19 m					
<b>Functional</b>						
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					
<b>Physical</b>						
Enclosure Type	Self-contained enclosure					
Enclosure Rating	Black powder-coated carbon steel: sealed to IP22 or IP65/IP66 standards (depending on cable exit); NEMA Type 2 or 4 Stainless steel: sealed to IP22 or IP65/IP66 standards (depending on cable exit); NEMA Type 2 or 4X					
Enclosure Bezel (W x H)	416.6 mm x 330.2 mm	416.6 mm x 354.1 mm	467.4 mm x 397.5 mm	514.4 mm x 317.5 mm	546.1 mm x 376.9 mm	593.7 mm x 370.6 mm
Depth	71.1 mm (116.8 mm with KVM Extender)	82.6 mm (124.5 mm with KVM Extender)				
Net Weight	Carbon steel: 5.90kg Stainless steel: 7.26kg	Carbon steel: 6.80kg Stainless steel: 8.16kg	Carbon steel: 8.16kg Stainless steel: 9.53kg	Carbon steel: 6.80kg Stainless steel: 8.6kg	Carbon steel: 9.07kg Stainless steel: 11.34kg	Carbon steel: 7.7kg Stainless steel: 9.98kg
Shipping Weight	Carbon steel: 7.26kg Stainless steel: 8.6kg	Carbon steel: 8.16kg Stainless steel: 9.5kg	Carbon steel: 9.53kg Stainless steel: 10.9kg	Carbon steel: 8.6kg Stainless steel: 10.4kg	Carbon steel: 10.43 kg Stainless steel: 12.7 kg	Carbon steel: 9.98kg Stainless steel: 12.25kg
<b>Compliances and Certifications</b>						
Electrical	CE, UL 60950 3 <sup>rd</sup> Edition / cUL Listed Product					
Environmental	WEEE (Reg No. WEE/DJ1859ZX)	IEC 60721-3 (Reliability), WEEE (Registration No. WEE/DJ1859ZX for UK only)				
Enclosure	UL 50E					
<b>Ordering Options</b>						
Window Options	Tempered Glass, Analogue Resistive Touch Screen, or Acrylic Protective Window					
Enclosure Options	Stainless steel or black powder-coated carbon steel					
Power Options	AC or DC input			AC input		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 (+44 (0) 20 7193 2618).

\*\*\* NTSC/PAL composite input available. Call for details (+44 (0) 20 7193 2618).