Hope Industrial Systems, Inc.

Data Sheet: Rack Mount Monitors and Touch Screens
NEMA 1, IP20
15"/17"/19"/19.5"

Features

▶ 15", 17", 19", or 19.5" LCD
▶ Fits standard EIA 19" rack
▶ NEMA 1 enclosure rating
▶ UL Rated for Hazardous Locations: Class I, Division 2
▶ Black powder-coated carbon steel bezel
▶ High resolution, high brightness and contrast
▶ Field-proven MTBF of more than 250,000 hours
▶ Touch Screen, Tempered Glass, and Acrylic Window options
▶ Only 1.3" to 2.3" deep (behind bezel)
▶ 5 ft. cables included (optional to 1000 ft.)
▶ Industrial Certifications: UL 508A, UL 50E, CE, FCC Class A, UL/EN/IEC62368-1, UL Recognized Component

5 YEAR WARRANTY

19.5"
19"
17"
15"

Product Description

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

With heights of only 6U (15" display), 7U (19.5" display), and 8U (17" and 19" displays), and depths of only 1.3" to 2.3" behind the bezel, these Rack Mount Monitors provide maximum screen area using minimal rack space.

Like all our displays, these monitors are backed by industrial certifications and an industry-leading 5-year warranty.
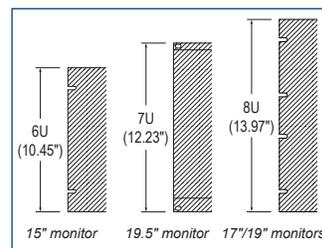
Optional Accessories

▶ Industrial Keyboards
▶ Screen Protectors (all sizes)
▶ Extended cable options up to 1000'
▶ KVM Extenders

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

Rear view of 15" Rack Mount Monitor.

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

6U (10.45")   7U (12.23")   8U (13.97")

15" monitor   19.5" monitor   17"/19" monitors

Panel heights for Hope Industrial Systems Rack Mount Monitors.

Optional Screen Protector guards touch screens from scratches and wear.

Rack Mount Industrial Monitors and Touch Screens: Specifications

Model No. (Revision):	HIS-RL15 (Rev. H)	HIS-RL17 (Rev. H)	HIS-RL19 (Rev. H)	HIS-RL19.5 (Rev. A)
Display				
Type	Thin-film transistor (TFT) Active Matrix Liquid Crystal			
Size	15" diagonal	17" diagonal	19" diagonal	19.5" 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")	435 mm x 239 mm (17.1" x 9.4")
Native Resolution*	XGA (1024 x 768 @ 60 Hz)	SXGA (1280 x 1024 @ 60 Hz)		HD 1080p (1920x1080 @ 60 Hz)
Aspect Ratio	4:3	5:4		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
Number of Colors	16.7 million			
Brightness (white)	400 nits (cd/m²)	250 nits (cd/m²)		
Viewing Angle (Hori/Vert)	170° / 170°	170° / 160°	178° / 178°	
Contrast Ratio	1500:1	1000:1	1000:1 (typical); 20M:1 (dyn.)	3000:1
Backlight Brightness half-life	LED, 60,000 hours		LED, 40,000 hours	LED, 50,000 hours
Video				
Input Connectors	HD-15, DVI-I		HD-15, DVI-D	
Inputs using Adapter**	HDMI, DisplayPort, or BNC			
Input Signal Formats***	RGB Analog video, Separate H/V sync, Composite sync, Sync on Green; DVI			
Horizontal Scan	31-73 kHz		24-82 kHz	
Vertical Scan	50-75 Hz			
Response Rate	35 ms	5 ms	14 ms	20 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			
Power Consumption	~16.8 W	~20 W	~16 W	~20 W
Power (Standby mode)	< 4 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			
Operating Vibration (sine)	1.0 g, swept sine 9-500 Hz			
Transport Vibration (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)			
Touch Screen Option	5-wire resistive system; emulates a mouse; Serial RS-232 or USB interface to host computer			
Physical				
Enclosure Type	Rack Mount Fits EIA standard EIA-310-D, types A, B, and C			
Panel Rating	NEMA 1; IP20			
Bezel Finish	Black powder-coated carbon steel – matte finish			
Panel Height	6U	8U		7U
Depth behind Bezel	51.2 mm (2.02")	44.2 mm (1.74")	57.9 mm (2.28")	33.7 mm (1.3")
Monitor Bezel (W x H)	482.6 mm x 265.4 mm (19.0" x 10.45")	482.6 mm x 354.8 mm (19.0" x 13.97")	482.6 mm x 354.3 mm (19.0" x 13.95")	482.6 mm x 310.7 mm (19.0" x 12.23")
Net Weight	11 lbs.	16 lbs.	15 lbs.	12 lbs.
Shipping Weight	15 lbs.	20 lbs.	19 lbs.	24 lbs.
Compliances and Certifications				
Electrical	UL/EN/IEC62368-1, UL/EN/IEC60950-1, UL Recognized Component for US and Canada, UL 508A, CAN ICES-3A/NMB-3A, CE, UKCA, FCC Class A, NOM			
Environmental	WEEE			
Enclosure	UL 50E			
Hazardous Location	Listed for Class I, Division 2 for Groups A, B, C, D; T-Code T4A	Listed for Class I, Division 2 for Groups A, B, C, D; T-Code T4	Listed for Class I, Division 2 for Groups A, B, C, D; T-Code T5 (AC); T-Code T4A (DC)	Listed for Class I, Division 2 for Groups A, B, C, D; T-Code T4A
Ordering Options				
Window Options	No Protective Window, Tempered Glass, Analog Resistive Touch Screen, or Acrylic Protective Window	Tempered Glass, Analog Resistive Touch Screen, or Acrylic Protective Window	No Protective Window, Tempered Glass, or Analog Resistive Touch Screen	No Protective Window, Tempered Glass, Analog Resistive Touch Screen, or Acrylic Protective Window
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.*