



Hope Industrial Systems, Inc.

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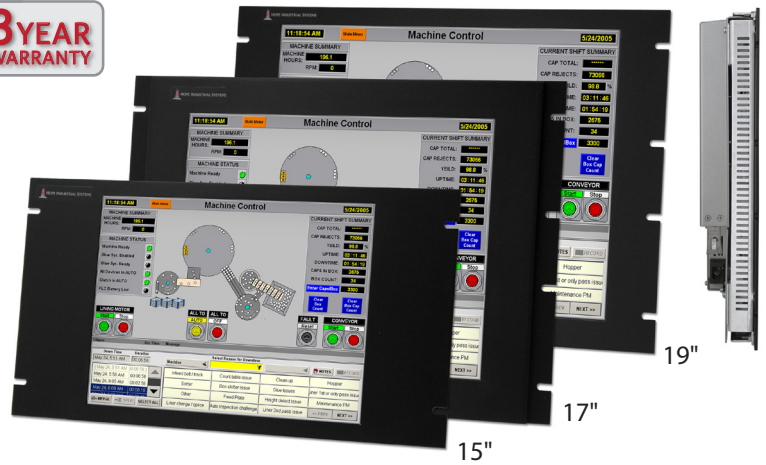
Data Sheet: Rack Mount Monitors and Touch Screens

IP20, NEMA 1
15"/17"/19"

Features

- ▶ 15", 17", or 19" active-matrix LCD
- ▶ Fits standard EIA 19" rack
- ▶ IP20 enclosure rating
- ▶ Black powder-coated carbon steel bezel
- ▶ High resolution, high brightness and contrast
- ▶ Touch Screen, Tempered Glass, and Acrylic Window options
- ▶ Only 44 mm to 58 mm deep (behind bezel)
- ▶ Cable lengths from 1.5 m to 300 m
- ▶ Industrial Certifications: CE, IEC 60721-3, UL 60950 3rd Edition / cUL Recognised Component, UL 508A, UL 50E

3 YEAR WARRANTY



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) and 8U (17" and 19" displays), and depths of only 44 mm to 58 mm 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 3-year warranty.

Optional Accessories

- ▶ Industrial Keyboards
- ▶ Screen Protectors (all sizes)
- ▶ Extended cable options up to 300 m
- ▶ KVM Extenders

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.

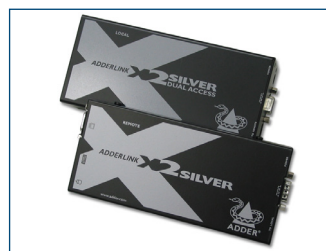
We provide all of these benefits at a price that is significantly less than comparable industrial offerings. And finally, we offer the best sales, support and service in the industry:

- ▶ 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

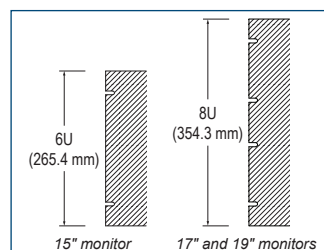
RoHS CE cUL US



Rear view of 15" Rack Mount monitor.



Optional KVM Extender allows monitor to be placed up to 300 m away from computer.



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 Number (Revision):	HIS-RL15 (Rev. H)	HIS-RL17 (Rev. H)	HIS-RL19 (Rev. H)
Display			
Type	Thin-film transistor (TFT) Active Matrix Liquid Crystal		
Size	381 mm (15") diagonal	432 mm (17") diagonal	483 mm (19") diagonal
Image Size (W x H)	304 mm x 228 mm	338 mm x 270 mm	375 mm x 300 mm
Native Resolution*	XGA (1024 x 768 @ 60 Hz)	SXGA (1280 x 1024 @ 60 Hz)	
Aspect Ratio	4:3	5:4	
Pixel Pitch	0.297 mm x 0.297 mm	0.264 mm x 0.264 mm	0.293 mm x 0.293 mm
Number of Colours	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°
Contrast Ratio	1500:1	1000:1	1000:1 (static); 20,000,000:1 (dynamic)
Backlight Brightness half-life	LED, 60,000 hours		LED, 40,000 hours
Video			
Input Connectors**	HD-15, DVI-D, optional DisplayPort or BNC		
Input Signal Formats***	RGB Analogue video, Separate H/V sync; DVI		RGB Analogue video, Separate H/V sync, Combined Sync, Sync on Green; 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
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, 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
Power Management	< 4 W		< 0.5 W
Environmental			
Temperature	0° to 60°C	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 ² Hz, 10-200 Hz; 0.03g ² / Hz, 200-2000 Hz		
Altitude	Operating: up to 3.05 km; Non-operating: up to 12.19 km		
Functional			
Control Panel Buttons (rear access)	Power On/Off button, Control Function buttons		
On-Screen Display (OSD) 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		
Enclosure Rating	Sealed to IP20 Standards; NEMA Type 1		
Bezel Finish	Black powder-coated carbon steel – matt finish		
Panel Height	6U	8U	
Depth behind Bezel	51.2 mm	44.2 mm	57.9 mm
Monitor Enclosure Bezel (W x H)	482.6 mm x 265.4 mm	482.6 mm x 354.8 mm	482.6 mm x 354.3 mm
Net Weight	4.99 kg	7.26 kg	6.80 kg
Shipping Weight	6.80 kg	9.07 kg	8.62 kg
Compliances and Certifications			
Electrical	CE, UL 60950 3 rd Edition / cUL Recognised Component, UL 508A		
Environmental	IEC 60721-3 (Reliability), WEEE (Registration No. WEE/DJ1859ZX for UK only)		
Enclosure	UL 50E		
Ordering Options			
Window Options	No Protective Window, Tempered Glass, Analogue Resistive Touch Screen, or Acrylic Protective Window	Tempered Glass, Analogue Resistive Touch Screen, or Acrylic Protective Window	No Protective Window, Tempered Glass, or Analogue Resistive Touch Screen
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 (+44 (0) 20 7193 2618).

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