Hope Industrial Systems, Inc.

HopeIndustrial.co.uk • HopeIndustrial.eu • **Phone:** UK: +44 (0) 20 7193 2618 / EU: +31 20 241 0853
E-mail: UK: sales@HopeIndustrial.co.uk / EU: sales@HopeIndustrial.eu

Data Sheet: Rack Mount Monitors and Touch Screens

IP20, NEMA 1
15"/17"/19"/19.5"

Features

- 15", 17", 19", or 19.5" active-matrix LCD
- Fits standard EIA 19" rack
- IP20 enclosure rating
- 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 38 mm to 63 mm deep (behind bezel)
- Cable lengths from 1.5 m to 300 m
- Industrial Certifications: CE, UKCA, UL 508A, UL 50E, UL/EN/IEC62368-1, UL Recognised Component

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 38 mm to 63 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 5-year warranty.

Optional Accessories

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

RoHS CE cULus

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.

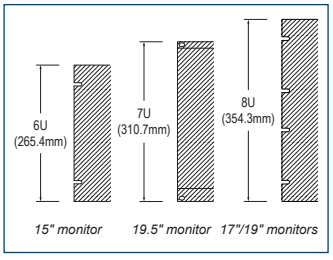
We house this advanced technology in a variety of rugged enclosures that allow the user to put their displays wherever they are needed in the factory. We assure our customers of high reliability over time and back it up with an industry-leading warranty.

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, return shipping included
- 24-48-hour repair turnaround (most models)
- Same day dispatch 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 300 m away from computer.



Panel heights for Hope Industrial Systems Rack Mount Monitors.

Optional Screen Protector guards touch screens from scratches and wear.

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Rack Mount Industrial Monitors and Touch Screens: Specifications

Model Number (Revision):	HIS-RL15 (Rev. I)	HIS-RL17 (Rev. I)	HIS-RL19 (Rev. I)	HIS-RL19.5 (Rev. C)
Display				
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
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
Native Resolution	XGA (1024 x 768 @ 60 Hz)	SXGA (1280 x 1024 @ 60 Hz)		HD 1080p (1920 x 1080 @ 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 Colours	16.7 million			
Brightness (white)	400 nits (cd/m^2)	250 nits (cd/m^2)		350 nits (cd/m^2)
Viewing Angle (Hori/Vert)	170° / 170°	178° / 178°		170° / 170°
Contrast Ratio	1500:1	1000:1		3000:1
Backlight Brightness half-life	60,000 hours	50,000 hours	40,000 hours	50,000 hours
Video				
Input Connectors	DVI-I, DisplayPort			
Inputs using Adapter	HDMI, HDMI Mini, HDMI Micro, DisplayPort Mini, VGA, BNC			
Input Signal Formats	RGB Analogue, Sync Types: Separate, Composite, Sync-on-Green; DVI; DisplayPort			
Horizontal Scan	31-80 kHz			
Vertical Scan	50-75 Hz	49-76 Hz	50-75 Hz	50-73 Hz
Response Rate	35 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	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	~23 W
Power Management	< 1.2 W	< 2 W	< 1.5 W	< 2 W
Environmental				
Temperature	Operating: 0° to 50°C; Storage: -20° to 60°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	IP20; NEMA Type 1			
Bezel Material	Black powder-coated carbon steel – matt finish			
Panel Height	6U	8U		7U
Depth behind Bezel	53.7 mm	45.7 mm	62.7 mm	37.8 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	482.6 mm x 310.7 mm
Net Weight	4.99 kg	7.26 kg	6.80 kg	5.44 kg
Shipping Weight	6.80 kg	9.07 kg	8.62 kg	10.89 kg
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	No Protective Window, Tempered Glass, Analogue Resistive Touch Screen, or Acrylic Protective Window
Compliances and Certifications				
Electrical	CE, UKCA, UL/EN/IEC62368-1, UL/EN/IEC60950-1, UL Recognized Component for US and Canada, UL 508A, CAN ICES-3A/NMB-3A, FCC Class A, NOM			
Environmental	WEEE			
Enclosure	UL 50E			

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