



19" UNIVERSAL MOUNT INDUSTRIAL MONITOR REVISION H USER MANUAL

Model No. HIS-UM19-___H







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Safety and Regulatory Information



To prevent fire or shock hazard, do not expose live components to rain or moisture. Dangerously high voltages are present inside the unit. Do not disassemble the unit. Refer servicing to qualified personnel only. Operator could be exposed to dangerously high voltage if AC power is not connected properly. Verify all wiring is properly connected.

This equipment is not intended for use in critical applications where its failure to operate would create immediate life threatening circumstances. Applications including, but not limited to, nuclear reactor control, aerospace navigation systems and life support systems are not appropriate for this product.

To be covered by UL 62368-1, the socket-outlet shall be installed near the equipment and shall be easily accessible.

DC Supplied Units only: The HIS-UM19 subject unit is to be powered by a Listed Power Supply suitable for the application with outputs at SELV/LPS or Class 2 levels rated 9.6-36.6VDC, 2.5 A max. The equipment is not intended to connect directly to a DC Mains source.

FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

Hazardous Locations

This equipment is suitable for use in Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups F and G; Class III; or non-hazardous locations only.

FR: Cet équipement peut être utilisé dans la Classe I, Division 2, Groupes A, B, C et D: Classe II, Division 2, Groupes F et G; et Classe III, endroits hasardeux ou endroits non-hasardeux seulement.

WARNING – EXPLOSION HAZARD – Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous.

WARNING – EXPLOSION HAZARD – Substitution of any components may impair suitability for Class I, II & III, Division 2 Locations.

NOTE: Hope Industrial Systems provides wiring and conduit that complies with the U.S. National Electric Code but cannot rate wiring or conduit methods for hazardous locations, as these must be locally inspected and approved. The customer must install their hazardous location rated monitor in accordance with the applicable electrical codes for their location.

YB, PED4X4, and FPED series are not approved for routing internal cables in Class II or III locations. If these mounting options are desired, customer must route cables outside of pedestal. Choose only CP-CON-xx or CP-BLNK-xx cover plate series for Universal Mount Monitors for hazardous locations.

Any steps marked with this symbol are required to ensure compliance with Class I, II, III, Division 2 Hazardous Location requirements.

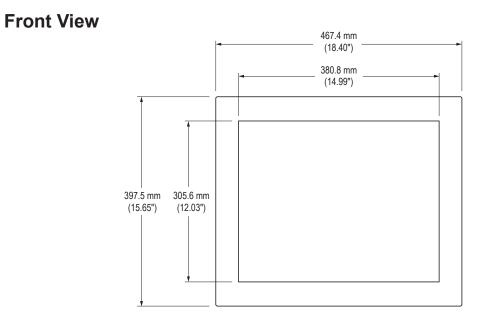
Waste Electrical and Electronic Equipment Directive (WEEE)

The following information is only for EU-member states and the UK:

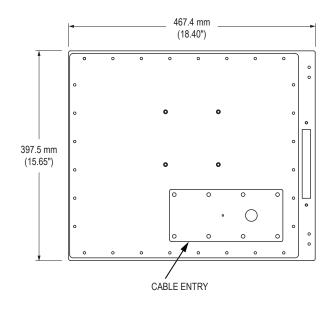
The mark shown to the right indicates compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE 2) amending Directive 2002/96/ EC. The mark indicates the requirement NOT to dispose of the equipment as unsorted municipal waste, but use the return and collection systems according to local law.

The European Union WEEE Regulations of 2014 require producers of electrical and electronic equipment to finance the takeback of WEEE resulting from products that we place on the market. Hope Industrial Systems will take back WEEE, free of charge, when purchased directly from us. Please contact support for details.

Mechanical Drawings

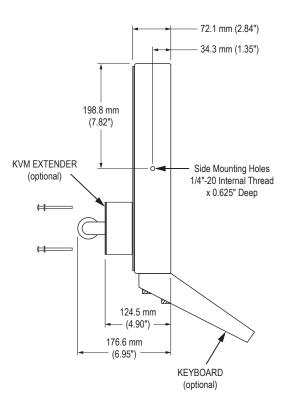


Rear View



HIS

Side View



Installation Instructions

Step 1: Prepare for Installation



Perform the following steps BEFORE installation of the monitor.

- 1. Ensure that sufficient power is available and a readily accessible disconnect device is incorporated in the building installation wiring.
- 2. Ensure that sufficient space is available to allow for proper air flow around the enclosure.
- 3. Ensure that the air temperature around the unit (top and bottom) *will not exceed the rated specifications of the unit.*



- ► The maximum rated temperature for the HIS-UM19 is 50°C (122°F).
- Remember that even though this product is designed to operate at 50°C, the life span of any electronic device is shortened when it is consistently operated at high temperatures. Therefore, it is wise to take steps to keep the temperature of the ambient air around the unit as low as possible.
- 4. Ensure that the ambient humidity of the air around the unit *does not exceed the specifications of the unit.*
 - ► The maximum rated humidity for the HIS-UM19 is 90% non-condensing.

Step 2: Bench-test Configuration

Make sure everything works before installing into the production environment.



If using a KVM extender, please refer to the installation instructions included with the KVM extender module. It is particularly important to bench-test the full configuration prior to final installation. This will help to identify and troubleshoot any system issues while configuration changes may still be easily made.

Connect Video and Power Cables

The cable ports are located on the rear of the monitor.

Video Connection

The HIS-UM19 supports digital signals (DVI, HDMI, DisplayPort) through its DVI-D port and analog signals (VGA, RGB) through its VGA port. RGB (BNC, RCA), HDMI, and DisplayPort video sources require additional adapters.

After selecting the appropriate interface, connect one end of your video cable to the input port on the rear of the monitor. Secure the screw locks to ensure adequate strain relief. Connect the other end to the appropriate port on your host computer or other video source.



NOTE: If this step is not performed, the product will not comply with Class I, II, III, Division 2 Hazardous Location requirements.

TIP!

To avoid incompatibility issues, use only certified video adapters available from Hope Industrial Systems. Many 3rd-party signal adapters are known to cause signaling issues.

Power Connection

The HIS-UM19 is available with either AC or DC power input.

AC power input models accept 100 to 240 VAC, 1.5/0.75 A, 60/50 Hz. Loosen the retaining clip for the power cable on the rear of the monitor. Connect the AC power cable to the power input

port on the monitor then retighten the retaining clip. Connect the other end into a nearby outlet.



NOTE: If the retaining clip screw is not tightened, the product will not comply with Class I, II, III, Division 2 Hazardous Location requirements.

DC power input models accept 9.6 to 36.6 VDC, 2.5 to 0.65 A, Class 2 or SELV/LPS.

- 1. With main power disconnected, hook up incoming power wires to the DC input terminal blocks according to the label markings. Securely tighten terminal block screws.
- 2. Plug the connector into the unit and secure by tightening the two side screws.

HAZ LOC NOTE: If steps 1 and 2 are not performed, the product will not comply with Class I, II, III, Division 2 Hazardous Location requirements.



Connect and Set Up Touch Screen

Applies to touch screen monitors only. Instructions below apply to Windows systems.

Contact Hope Industrial Systems if you require a CD-ROM with documentation and touch screen drivers. For a full list of downloadable drivers, please check the following address:

https://www.HopeIndustrial.com/support/drivers/



IMPORTANT!

If you will be using a USB connection, *install the touch screen driver first,* and then connect the USB cable. If you will be using a Serial connection, *connect the Serial cable first,* and then install the touch screen driver.

All touch screen models include both USB and Serial (RS-232) ports for touch screen operation, but only one of these should be connected to the computer. When both ports are available on the computer, USB is preferred.

Installing the Driver: USB Connections

1. Do not plug the USB connection into the computer until the driver installation is

complete. If the USB connection has already been made, disconnect at this point.

- 2. Download the appropriate driver for your operating system from the address listed above. Click to "Run" the software when prompted.
- 3. Follow the on screen prompts to complete the driver installation.
- 4. Once the driver has been successfully installed, the USB connection can be made by inserting the connector through the monitor's integrated cable retention bracket and into the USB port. Connect the other end to the USB port on the host computer.
- 5. Proceed with Calibration (below).

Note: detailed and up-to-date USB driver installation instructions can be found at the following address:

https://www.hopeindustrial.com/blog/calibrating-a-touch-screen/

Installing the Driver: Serial (RS-232) Connections

Serial Connections must be made before installing the driver.

1. Connect one end of the Serial cable to the Serial input port on the rear of the monitor. Connect the other end to the Serial port on the host computer. Tighten the screw locks on the cable connectors to ensure adequate strain relief.



NOTE: If this step is not performed, the product will not comply with Class I, II, III, Division 2 Hazardous Location requirements.

- 2. Download the appropriate driver for your operating system from the address listed above. Click to "Run" the software when prompted. Follow the on screen prompts to complete the driver installation.
- 3. Proceed with Calibration (below).

Calibrate the Touch Screen

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Once the driver has finished installing, you are ready to calibrate the touch screen.

Open the Windows Control Panel and ensure the "View by" option is set to "Small icons" in the top right of the window. Click the Elo icon to open the Elo Touchscreen utility.

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Under the "General" tab, click the "Align" button to start the calibration routine.

Step 3: Install the Monitor

Once you have completed the full bench-test configuration and confirmed that all components are working properly, you are ready for final installation and mounting of the monitor.



Hope Industrial will not assume liability for damage to internal electronics due to improper installation. Contact Hope Industrial if you need additional assistance.

Pre-Assembled Workstations

If you purchased a pre-assembled workstation, most of the assembly has already been performed for you. For your reference, complete installation instructions are shipped with the workstation should you need to disassemble or reassemble it for any reason. They may also be found on our website at the following address:



https://www.HopeIndustrial.com/docs/99108

Install Cable Exit Cover Plate

Installation instructions vary slightly depending on the Cable Exit Cover Plate you ordered. Complete installation instructions are shipped with each Cover Plate configuration and may also be found on our website at the following addresses:

Conduit Cable Exit (CP-CON Series):

https://www.HopeIndustrial.com/docs/99075

Pilot Hole Cover Plate (CP-BLNK Series): https://www.HopeIndustrial.com/docs/99077

Compression Gland (CP-GL Series):

https://www.HopeIndustrial.com/docs/99033

Compression Gland (CP-RG Series):

CP-RG1: https://www.HopeIndustrial.com/docs/99071 CP-RG2: https://www.HopeIndustrial.co.uk/docs/99120



Mount the Monitor

Hope Industrial Systems offers a variety of mounting options for your Universal Mount Monitor. Individual installation instructions are shipped with the following products and may also be found on our website at the addresses listed below.

Heavy Industrial Yoke Mounts

The standard yoke may be used alone, with our benchtop mounting kit for through-surface cable routing, or with our Pedestal Mount for free-standing applications. Complete installation instructions are shipped with the following products and may also be found on our website at the following addresses:

Yoke Mounting Hardware:

https://www.HopeIndustrial.com/docs/99025

YB-N12-KIT (for YB _ _ -BLK-N12 Series):

https://www.HopeIndustrial.com/docs/99026

Yoke and Benchtop Mounting Kit (for YB Series):

https://www.HopeIndustrial.com/docs/99027

Heavy Industrial Pedestal Mounts

Our Yoke and Pedestal Mount allows full range of pan and tilt motion. Complete installation instructions are shipped with the following products and may also be found on our website at the following addresses:

Yoke Mounting Hardware:

https://www.HopeIndustrial.com/docs/99025

YB-N12-KIT (for YB _ _ -BLK-N12 Series):

https://www.HopeIndustrial.com/docs/99026

Yoke and Benchtop/Pedestal Mounting Kit (for YB and PED4X4 Series):

https://www.HopeIndustrial.com/docs/99027





Heavy Industrial Arm Mounts

Our wall arm mounting options range from solid wall yoke to fully articulating arms. Complete installation instructions are shipped with the following products and may also be found on our website at the following addresses:



Wall Mount Arms (for YA _ _ -15 and YA _ _ -24 Series):

https://www.HopeIndustrial.com/docs/99090

Wall Yoke (for YW _ _ -07 Series): https://www.HopeIndustrial.com/docs/99091

VESA Radial Arm

The VESA Radial Arm Mount is designed to suspend our Universal Mount Monitors above a working area.

VESA Wall Mount Bracket

The VESA Wall Mount Bracket allows simple, effective mounting of our Universal Mount Monitors to any vertical surface.

VESA Benchtop Stand

The VESA Benchtop Stand allows easy, stable positioning of our Universal Mount Monitors on any flat surface.





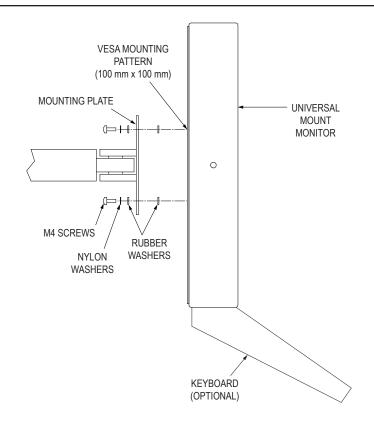


All Hope Industrial Universal Mount Monitors come standard with a 100 mm square VESA mounting pattern with M4 threads. Below is the VESA mounting diagram for Hope Industrial Universal Mount Monitors. Detailed installation instructions for specific VESA mounting options are shipped with the product and may also be found on our website at the following address:

https://www.HopeIndustrial.com/docs/99034



If using VESA mounting screws not supplied by Hope Industrial Systems, ensure they do not intrude into the enclosure more than 12.7 mm (0.5").



Video Settings

Setting the Timing Mode

Setting the timing mode of your computer graphics adapter (or other video source) is important for maximizing the quality of the screen image and for minimizing eye strain. The timing mode consists of the resolution (e.g. 1280 x 1024) and refresh rate (or vertical frequency; e.g. 60 Hz). After setting the timing mode, use the On-Screen Display (OSD) controls to adjust the screen image.



For the best picture quality, set your computer graphics adapter timing mode to:

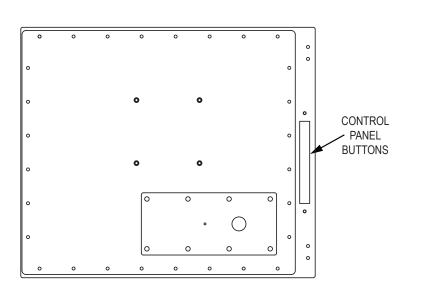
VESA 1280 x 1024 @ 60 Hz

Please refer to the computer graphics adapter manufacturer's manual for instructions on setting the resolution and timing mode. In Microsoft Windows, these settings may be found at the following location:

- ▶ 2000, XP: Control Panel > Display > Settings
- Vista: Control Panel > Personalization > Display Settings
- Windows 7, 8: Control Panel > Appearance and Personalization > Adjust Screen Resolution
- ▶ Windows 10, 11: Start > Settings > System > Display

Control Panel Buttons

Use the control panel buttons located on the back of the monitor to display and adjust various settings on the On-Screen Display (OSD) menu.





1. To display the Main Menu, press button [1].

NOTE: All OSD menus and adjustments screens disappear automatically after 15 seconds. This is adjustable through the OSD Time Out setting in the Setup menu.

- 2. To select a control to adjust, press the up [▲] or down [▼] button to scroll through the menu.
- 3. Press button [2] to open the menu for a selected control.
- 4. To adjust the control, press the up [▲] or down [▼] button.
- 5. To save the adjustments and return to the main OSD menu, press button [1] once. To exit the OSD menu, press button [1] twice.



Button	Control	Functions
\bigcirc	Power	 Turns the monitor on and off. The Power Indicator light glows blue during normal operation and orange when the monitor is in Power Saving mode.
	Up / View Mode	 When the OSD menu IS NOT displayed: Shortcut to View Mode. When the OSD menu IS displayed: Scrolls up and adjusts items in the menu up.
	Down / Blue Light Filter	 When the OSD menu IS NOT displayed: Shortcut to Blue Light Filter. When the OSD menu IS displayed: Scrolls down and adjusts items in the menu down.
2	Enter	 When the OSD menu IS NOT displayed: Shortcut to Auto Image Adjust. When the OSD menu IS displayed: Displays the control screen for the highlighted control.
1	Menu	 Opens the OSD menu. Exits the OSD menu and saves adjustments.

OSD and Power Lock Settings

- ▶ **OSD Lock:** Press and hold [1] and the up [▲] button for 10 seconds. If any buttons are pressed the message *OSD Locked* will display for 3 seconds.
- ▶ **OSD Unlock:** Press and hold [1] and the up [▲] button again for 10 seconds.
- ▶ Power Button Lock: Press and hold [1] and the down [▼] button for 10 seconds. If the power button is pressed, the message Power Button Locked will display for 3 seconds. With or without this setting, after a power failure, your monitor's power will automatically turn ON when power is restored.
- ▶ **Power Button Unlock:** Press and hold [1] and the down [▼] button again for 10 seconds.

UM19H User Manual, 99155C, December 2023

On-Screen Display (OSD) Menus

To open the OSD menu, press button [1] once. The following screen will appear:

-\$\$	A U	т	0	I	м	A	G	E	4	A	D	J	U	s	1	г									
-)	сс	N		RA				в	R	1	GI	H	т	N	E	s	s								
-D	IN	P		т			L	E	c	т															
٢	сo	L	0	R	A	D			s ·	т															
Í	I N		0	RM	A			0	N																
Ä	M A			AL			м	A	G	E	1	4	D	J	ι	JS	т								
Ô	SE			P	м	E	N																		
Ç	МE	м	0	RY		R	E	с	A	L	L														
1:6	E X I	T															9	5 E	Ξ.	- 6	Ξ (c	т	: 2	2

Main Menu	Description
Auto Image Adjust	Automatically sizes, centers, and fine tunes the video signal to eliminate waviness and distortion.
Contrast / Brightness	Includes the Contrast and Brightness functions.
Input Select	Allows the user to toggle between inputs.
Color Adjust	Provides several color adjustment modes.
Information	Displays the timing mode (video signal input).
Manual Image Adjust	Includes the H. / V. Position, Horizontal Size, Fine Tune, Sharpness, Aspect Ratio, ECO Mode, View Mode, and Blue Light Filter functions.
Setup Menu	Includes the Language Select, Resolution Notice, OSD Position, OSD Time Out, OSD Background, Auto Power Off, and Power Indicator functions.
Memory Recall	Returns adjustments back to factory settings.



Auto Image Adjust Menu



The Auto Image Adjust menu automatically sizes, centers, and fine tunes the video signal to eliminate waviness and distortion. Press button [2] outside of the OSD menu to activate Auto Image Adjust.

NOTE: Auto Image Adjust works with most common video cards. If this function does not work on your display, lower the video refresh rate to 60 Hz and set the resolution to its pre-set value.

Contrast / Brightness Menu



The Contrast / Brightness menu includes the Contrast and Brightness functions.

Contrast / Brightness Menu	Description									
Contrast	Adjusts the difference between the image background (black level) and the foreground (white level).									
Brightness	Adjusts the background black level of the screen image.									

Input Select Menu



The Input Select menu allows the user to toggle between inputs if there is more than one computer connected to the display. Use D-Sub for analog VGA signals and DVI for digital signals.

÷\$	INPUT SELECT
- - -	D-SUB DVI

Color Adjust Menu



The Color Adjust menu provides several color adjustment modes, including preset color temperatures and a User Color mode which allows independent adjustment of red (R), green (G), and blue (B). The factory setting for this product is Native.

•¢\$•	COLOR ADJUST
-``	s R G B
-Z)	BLUISH COOL
43	NATIVE WARM
	USER COLOR

Color Adjust Menu	Description
sRGB	This is quickly becoming the industry standard for color management, with support being included in many of the latest applications. Enabling this setting allows the LCD to more accurately display colors the way they were originally intended. NOTE: Enabling the sRGB setting will cause the Contrast and Brightness adjustments to be disabled.
Bluish	Adds blue to the screen image for cooler white (used in most office settings with fluorescent lighting).
Cool	Adds blue to the screen image for cooler white (used in most office settings with fluorescent lighting).
Native	Adds red to the screen image for warmer white and richer red.
Warm	Adds red to the screen image for warmer white and richer red.
User Color	 Individual adjustments for red (R), green (G), and blue (B). 1. To select color (R, G, or B) press button [2]. 2. To adjust selected color, press the up [▲] or down [▼] button. NOTE: If you select RECALL from the OSD Main Menu when the product is set to a Preset Timing Mode, colors return to the Native factory preset.

Information Menu



The Information menu displays the timing mode (video signal input) coming from the graphics card in the computer. See your graphics card's user guide for instructions on changing the resolution and refresh rate (vertical frequency).

NOTE: VESA 1280 x 1024 @ 60 Hz (recommended) means that the resolution is 1280 x 1024 and the refresh rate is 60 Hz.

Manual Image Adjust Menu



The Manual Image Adjust menu includes the H. / V. Position, Horizontal Size, Fine Tune, Sharpness, Aspect Ratio, ECO Mode, View Mode, and Blue Light Filter functions.

¢.	MANUAL IMAGE ADJUST
-``	H/V POSITION
-D	HORIZONTAL SIZE FINE TUNE
44	SHARPNESS ASPECT RATIO
9	ECO MODE VIEW MODE
í	BLUE LIGHT FILTER

Manual Image Adjust	Description
H. / V. Position	Moves the screen image left or right and up or down.
Horizontal Size	Adjusts the width of the screen image.
Fine Tune	Sharpens the focus by aligning text and/or graphics with pixel boundaries.
	NOTE: Try the Auto Image Adjust function first.
Sharpness	Adjusts the clarity and focus of the screen image.
Aspect Ratio	Selects the image size for 4:3 or full screen.

Manual Image Adjust	Description
ECO Mode	 Provides lower power consumption by reducing the brightness. Standard is the default brightness setting. Optimize reduces brightness by 25%. Conserve reduces brightness by 50%.
View Mode	 Allows the user to select from five image modes to find the optimal screen setting for different applications, as well as the default "Standard" setting. This feature may also be accessed by pressing the up [▲] button outside of the OSD menu: Game adjusts the gamma curve to enhance darker scenes and improve visibility in brighter scenes. Movie adjusts the contrast to enhances the black levels. Web adjusts the gamma curve to improve contrast and color. Text adjusts the color temperature, contrast, and brightness of the screen for reading text. Mono provides clearer and more obvious detail with more shades of grey, making it suited for black and white photos.
Blue Light Filter	 Adjusts the level of blue light emitted from the screen. This feature may also be accessed by pressing the down [▼] button outside of the OSD menu.

Setup Menu



The Setup menu includes the Language Select, Resolution Notice, OSD Position, OSD Time Out, OSD Background, Auto Power Off, and Power Indicator functions.

•¢•	SETUP MENU]
-`□	LANGUAGE SELECT	
	RESOLUTION NOTICE	
-D	OSD POSITION	
	OSD TIME OUT	
43	OSD BACKGROUND	
	AUTO POWER OFF	
6	POWER INDICATOR	
í		
Ğ		
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Setup Menu	Description
Language Select	Allows the user to choose the language used in the menus and control screens.
Resolution Notice	Advises the optimal resolution to use.
OSD Position	Allows the user to move the OSD menus and control screens.
OSD Time Out	Sets the length of time the OSD screen is displayed. For example, with a "15 second" time setting, if a control is not pushed within 15 seconds, the display screen disappears.
OSD Background	Allows the user to turn the OSD background On or Off.
Auto Power Off	When enabled, this setting will automatically power off the monitor when no signal is detected for 3 minutes.
Power Indicator	Allows the user to turn the Power Indicator light On or Off.

Memory Recall Menu



The Memory Recall menu returns adjustments back to factory settings.

NOTE: This control does not affect changes made to the Language Select or Power Lock settings.

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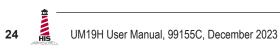
Cleaning Instructions



DO NOT USE ABRASIVE MATERIALS, SUCH AS PAPER TOWELS OR DIRTY SHOP RAGS, ON THE DISPLAY AS IT WILL SCRATCH THE PROTECTIVE COATING. ALWAYS USE A SOFT CLOTH, PREFERABLY MADE OF COTTON.

All displays may be cleaned using any standard glass cleaner as long as there is no abrasive or oily content. Vinegar or ammonia will not hurt the screen.

The anti-reflective coatings on glass window-equipped displays are physically part of the surface of the glass and resist degradation.



Troubleshooting

Video Troubleshooting

IMPORTANT!

If using a KVM extender, first try to resolve any problems using the solutions listed below. If the problem still exists, try bypassing the KVM extender. If this fixes the problem and allows the monitor to work properly, then the KVM extender is the source of the problem. Please refer to the troubleshooting section of the KVM extender manual or contact Hope Industrial Systems for additional assistance.

Symptom	Causes	Solutions
No image on the screen and control's Power Indicator light is not lit	Monitor is not powered on or power cable is not plugged in.	 Press the Power button on the monitor and make sure the Power Indicator light is lit blue. Check power connections at the monitor and power source. For DC models, check the connector polarity and ensure input voltage is 9.6 to 36.6 VDC.
	The "Auto Power Off" function is enabled.	Disable the "Auto Power Off" function in the OSD's "Setup" menu.
No image on the screen and control's Power Indicator light is lit orange	Video cable is not plugged in correctly.	Check the video cable connection at the monitor, PC, and/or KVM extender.
	PC is in Power Saving mode.	Power Saving mode can usually be exited by moving the mouse or pressing a key on the keyboard.
is in orange	PC is not powered on.	Ensure PC is powered on.
	PC is not sending signal.	Connect the PC to another known working monitor to check the PC source signal.
Screen image is dim	Brightness and/or contrast settings are not set properly.	Adjust the monitor's brightness and/or contrast settings in the OSD's "Contrast/ Brightness" menu.

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Symptom	Causes	Solutions
"Out of Range" message box and no image on the screen	The source signal exceeds the maximum resolution and/or refresh rate that the monitor can handle (> 1280 x 1024 resolution or > 75 Hz refresh rate).	Adjust the computer settings to the monitor's native resolution: 1280 x 1024 @ 60 Hz
"No Signal" message box	Video cable is not plugged in correctly.	Check the video cable connection at the monitor, PC, and/or KVM extender.
and no image on the screen	PC is in Power Saving mode.	Power Saving mode can usually be exited by moving the mouse or pressing a key on the keyboard.
	PC is not powered on.	Ensure PC is powered on.
	PC is not sending signal.	Connect the PC to another known working monitor to check the PC source signal.
Incorrectly displayed or partial image on the screen	Monitor has not been adjusted correctly for the source signal.	 Activate the "Auto Image Adjust" function in the OSD menu. This function may also be activated by pressing the [2] button outside of the OSD menu. Fine tune the picture by manually adjusting the image using the settings in the OSD's "Manual Image Adjust" menu.
Wrong or abnormal colors (white is not white)	Monitor color settings are incorrectly adjusted.	Reset the monitor to the factory default settings by activating the "Memory Recall" function in the OSD menu.
	Video cable is not securely connected.	If any colors (red, green, or blue) are missing, check the video cable to make sure it is securely connected.
·	Video cable is bad.	Ensure no loose or broken pins in the cable connector. Shorts in cable could also cause improper image to display.
The message "OSD Locked" appears	The OSD has been locked to prevent unauthorized changes to display settings.	Press and hold [1] and the up [▲] button for 10 seconds.
The message "Power Button Locked" appears	The Power button has been locked to prevent unauthorized shut down of the monitor.	Press and hold [1] and the down [▼] button for 10 seconds.

Touch Screen Troubleshooting

Applies to touch screen monitors only. To be sure that you have the most current driver, please check the following Internet address:

Symptom	Causes	Solutions
No response when touching the touch screen	Touch screen cable is not plugged in correctly.	Make sure either the USB or Serial touch screen cable is securely connected to the monitor and PC. Do not connect both.
	USB cable length exceeds 5 meters.	USB cables have a 5 meter limitation. Exceeding this length may cause connection issues without the use of a USB or KVM extender device. Please contact Hope Industrial support for extension options.
	Serial connection in use, but touch screen driver has not been installed.	With a Serial connection, no touch will be detected until the touch screen driver is installed. See section "Installing the Driver: Serial (RS-232) Connections" above.
	Serial connection in use, but connection to computer is not using the same port for which the touch screen driver is installed.	The Serial cable must be connected to the computer's COM port prior to driver installation to allow touch screen detection and association with the correct COM port. To fix, uninstall the driver, reboot the computer, then follow instructions in section "Installing the Driver: Serial (RS-232) Connections" above. Be sure to connect the touch screen serial port before installing the driver.
The screen responds to touch, but does not follow my finger	Touch screen driver has not been installed and the touch screen has not been calibrated.	Follow instructions for driver installation and calibration in section "Connect and Set Up Touch Screen" above.
	Touch screen driver has been installed, but the touch screen has not been calibrated.	Follow instructions for calibration in section "Calibrate the Touch Screen" above.

https://www.HopeIndustrial.com/support/drivers/



Specifications

Display	
Туре	Thin-film transistor (TFT) Active Matrix Liquid Crystal
Size	19" diagonal
Image Size (W x H)	374.8 mm x 299.8 mm (14.8" x 11.8")
Native Resolution	SXGA (1280 x 1024, 5:4 aspect ratio)
Minimum Resolution	VGA (640 x 480)
Pixel Pitch	0.293 mm x 0.293 mm
Number of Colors	16.7 million
Brightness (white)	250 nits (cd/m ²)
Viewing Angle (Hori/Vert)	178° / 178°
Contrast Ratio (typical)	1000:1 (static); 20,000,000:1 (dynamic)
Backlight (typical)	LED; 40,000 hour brightness half-life

Electrical	
Monitor Input	• AC power models – 100 to 240 VAC, 1.5/0.75 A, 60/50 Hz
	 DC power models – 9.6 to 36.6 VDC, 2.5 to 0.65 A, Class 2 or SELV/LPS
Power Consumption	~ 16 W
Power (Standby mode)	< 0.5 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)	1.0g, swept sine 9 – 500 Hz
Transport Vibration	0.1g² / Hz, 10 – 200 Hz
(random)	0.03g² / Hz, 200 – 2000 Hz
Altitude	Operating: up to 10,000 feet
	Non-operating: up to 40,000 feet

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Video	
Input Connectors	• HD-15, DVI-D
	 Optional adapters are available for other connection types (contact Hope Industrial Systems for details)
Input Signal Formats	RGB Analog video, 0.7/1.0 Vp-p, 75 Ohms
	Compatible sync modes: Separate H/V sync
	• DVI
	NOTE: NTSC/PAL composite input available (call for details)
Horizontal Scan	24 – 82 kHz
Vertical Scan	50 – 75 Hz
Common Supported	• 1280 x 1024 @ 60, 75 Hz
Video Signal Formats (not a complete list)	• 1280 x 960 @ 60, 75 Hz
	• 1024 x 768 @ 60, 70, 75 Hz
	• 800 x 600 @ 56, 60, 72, 75 Hz
	• 720 x 400 @ 70 Hz
	• 640 x 480 @ 60, 75 Hz
Response Time (typical)	14 ms

Physical	
Enclosure Type	Self-contained enclosure
Enclosure Rating	Built to IP22 standards
	NEMA/UL Type 2 (Black Powder-Coated or Stainless Steel)
	Built to IP65/IP66 standards
	NEMA/UL Type 12/4 (Black Powder-Coated Steel)
	NEMA/UL Type 12/4/4X (Stainless Steel)
Enclosure Dimensions (W x H x D)	467.4 mm x 397.5 mm x 82.6 mm (18.40" x 15.65" x 3.25")
Net Weight	Black Powder-Coated Carbon Steel model – 8.16 kg (18 lbs.)
	 Stainless Steel model – 9.53 kg (21 lbs.)
Shipping Weight	 Black Powder-Coated Carbon Steel model – 9.53 kg (21 lbs.) Stainless Steel model – 10.89 kg (24 lbs.)

Functional	
Control Panel Buttons	Power, Up, Down, 2 (Enter), 1 (Menu)
On-Screen Display (OSD) Menus	Auto Image Adjust, Contrast / Brightness, Input Select, Color Adjust, Information, Manual Image Adjust, Setup, Memory Recall
Touch Screen Option	5-wire single-touch resistive sensor; Serial (RS-232) and USB interface to host computer

Compliances and C	ertifications
Electrical	 UL/EN/IEC62368-1, UL Listed (File No. E212889) FCC Class A CAN ICES-3A/NMB-3A Issue 07 CE UKCA NOM (Registration No. NOM-019-SCFI-1998)
	NOTE: DC power must use shielded DC input cable
Environmental	 IEC 60721-3 (Reliability) WEEE Unique Identifier Number (France): FR041915_050NLX WEEE Registration Number (Germany): DE 78623714 WEEE Registration Number (Ireland): IE03575W WEEE Registration Number (Italy): IT21120000013548 WEEE Registration Number (Spain): 7947 WEEE Registration Number (UK): WEE/DJ1859ZX
Enclosure	UL 50E (File No. E212889)
Hazardous Location	 AC power models: UL Rated for Hazardous Locations: I.T.E. Listed for Class I, Division 2 for Groups A, B, C, and D; Class II, Division 2 for Groups F and G; Class III; Temp Code T5 (File No. E334953) per ANSI/ISA-12.12.01-2015 and CAN/CSA C22.2 No. 213-15 DC power models: UL Rated for Hazardous Locations: I.T.E. Listed for Class I, Division 2 for Groups A, B, C, and D; Class II, Division 2 for Groups F and G; Class III; Temp Code T4A (File No. E334953) per ANSI/ISA-12.12.01-2015 and CAN/CSA C22.2 No. 213-15

Warranty Statement

Who is Covered?

This warranty covers the purchaser of this product only and is not transferable without our written consent.

What Does This Warranty Cover and What is the Period of Coverage?

We warrant this product to be free from defects in material and workmanship, subject to the conditions set forth below. The warranty remains in force for a five year period beginning on the date we invoice you. If Hope Industrial Systems repairs or replaces a product under warranty, its warranty term is not extended, but the repair itself is warranted for 90 days.

What Will We Do to Correct Problems?

We will repair or replace (at our sole option) any part of the unit which proves to be defective. Replacement parts may be new or refurbished and will meet the same specifications of the original parts or unit. For orders sold through our U.S. operations, at our expense we will return the product to any location within the U.S.A. via the shipping method of our choice. Shipping fees for products returned to customers outside the U.S.A. are the responsibility of the customer. For products originally sold through Hope Industrial U.K., return shipping to and from Hope Industrial repair facilities and any EU member country (except Croatia, Cyprus, and Malta) will be provided using a pre-paid UPS shipping label sent via email.

How Do You Get Service?

In order to receive warranty service you must get prior approval from Hope Industrial Systems. To request warranty service you can contact our customer service representatives. If we determine that warranty service is needed we will give you a Return Material Authorization (RMA) number. This RMA number must be conspicuously marked on the outside of the shipping box. Hope Industrial Systems will not accept shipments not accompanied by the RMA number. Except where otherwise noted, you must ship or deliver the product to Hope Industrial Systems Freight prepaid.

What Does This Warranty Not Cover?

This warranty does not cover equipment which has been damaged due to misuse, abuse or accident such as: operating the equipment outside of published specifications; exposure to chemicals or gases not covered by specified IP/NEMA standards; displaying fixed images for long periods of time resulting in afterimage effects; improper or unauthorized repair by anyone other than Hope Industrial Systems or a service agency authorized by Hope Industrial Systems to perform such repairs; fire, flood, "acts of God", or other contingencies beyond the control of Hope Industrial Systems.

Hope Industrial Systems' responsibility for malfunctions and defects in hardware is limited to repair and replacement as set forth in this warranty statement. Hope Industrial Systems shall not be liable for direct, indirect, incidental, consequential, or other types of damages resulting from the use of any Hope Industrial Systems product other than the liability stated above. These warranties are in lieu of all other warranties express or implied, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose. Some states do not allow the exclusion of implied warranties or the limitation or exclusion of liability for incidental or consequential damages so the above exclusions or limitations may not apply to you. You are cautioned that the performance of this product can be affected by many factors, such as system configuration, software, application, and operator control of the system. It is your responsibility to determine suitability of this product for your purpose and application.

Hope Industrial Systems, Inc.

US / International

1325 Northmeadow Parkway, Suite 100 Roswell, GA 30076 United States

Toll Free: (877) 762-9790 | International: +1 (678) 762-9790 | Fax: +1 (678) 762-9789

Sales and Customer Service: sales@HopeIndustrial.com Support and Returns: support@HopeIndustrial.com Accounting Department: accounting@HopeIndustrial.com

www.HopeIndustrial.com

EU Authorized Representative:

Falcons Logistics B.V. Hoeksteen 26 F 2132 MS Hoofddorp Netherlands

HopeIndustrial.eu

Phone: +31 20 241 0853

Sales:sales@HopeIndustrial.euSupport:support@HopeIndustrial.euAccounting:accounting@HopeIndustrial.eu

United Kingdom Authorized Representative:

Falcon AR Services UK LTD Lynton House 7-12 Tavistock Square WC1H 9LT London United Kingdom

HopeIndustrial.co.uk

Phone: +44 (0) 20 7193 2618

Sales:sales@HopeIndustrial.co.ukSupport:support@HopeIndustrial.co.ukAccounting:accounting@HopeIndustrial.co.uk

France

Phone: +33 8 05 08 05 19 HopeIndustrial.fr

Spain Phone: +34 91 1438229 HopeIndustrial.es <u>Germany</u> Phone: +49 800 001 0486 HopeIndustrial.de



Italy

Phone: +39 80 0740414 HopeIndustrial.it

<u>Mexico</u>

Phone: +52 800 9531935 HopeIndustrial.mx
