Projected Capacitive Monitor Operations Manual

MON1000AP Series

Your Industrial Control Solutions Source

www.maplesystems.com

For use with the following:

- MON1000AP Series Projected Capacitive Touch Monitors

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WARRANTY

Warranty Statements are included with each unit at the time of purchase and are available at www.maplesystems.com.

TECHNICAL SUPPORT

This manual is designed to provide the necessary information for trouble-free installation and operation of your Monitor. However, if you need assistance, please contact Maple Systems:

- Phone: 425-745-3229
- Email: support@maplesystems.com
- Web: www.maplesystems.com

UNPACKING THE UNIT

Carefully unpack the Monitor. Check all material in the container against the packing list. Maple Systems will not accept responsibility for shortages against the packing list unless notified within 30 days. The equipment and accessories were inspected and tested by Maple Systems before shipment.

Examine the equipment carefully; if any shipping damage is evident, notify the carrier immediately. Maple Systems is not responsible for claim negotiations with the carrier.

Save the shipping container and packing material in case the equipment needs to be stored, returned to Maple Systems, or transported for any reason.

Packing List
MON1000AP Series Projected Capacitive Touch Monitor
Power Cable (for use with existing 12~24 VDC Power Supply)
HDMI™ Cable
USB Cable
M4x5mm VESA Mounting Screws (Set of 4)
Panel Mounting Clamps (Quantity Dependent on Monitor Display Size)

SAFETY PRECAUTIONS

Please observe the following precautions when installing the MON1000 Series. Failure to comply with these restrictions could result in loss of life, serious personal injury, or equipment damage.

	Warning: Disconnect this equipment from any power before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.
	Warning: Keep this equipment away from humidity.
	Warning: Before applying power the unit make sure the voltage of the power source is within the input voltage rating of the unit.
	Warning: Never open the equipment and do not operate equipment with its heatsink cover removed- there are dangerous high voltages present inside. For safety reasons, the equipment should be opened only by a qualified service technician.
	Warning: This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, it may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.
	Warning: If any of the following situations arise, get the equipment checked by qualified service personnel. 1. The power cord or plug is damaged. 2. Liquid has penetrated into the equipment. 3. The equipment has been exposed to moisture. 4. The equipment does not work well, or you cannot get it to work according to this operations manual. 5. The equipment has been dropped and damaged. 6. The equipment has obvious signs of breakage.
	Warning: Do not leave this equipment in an uncontrolled environment where the storage temperature is below -30°C (-22°F) or above 80°C (175°F). It may damage the equipment.

OVERVIEW OF MON1000AP SERIES

MON1000AP Series Projected Capacitive Touch Monitors are industrial, heavy duty touchscreen monitors, designed for use with Industrial PC Computer Systems. Display sizes, range from 10.4 ~ 21.5", with select displays offering a high-brightness (**1000 nits**) option. High Brightness displays are ideal for use in environments where there is a larger than normal amount of ambient lighting, allowing for the user to maintain readability of the display.

All MON1000AP Monitors feature Projected Capacitive Touch Screens, which allow for a more natural, intuitive user touch experience compared to traditional analog-resistive touch screen terminals. Benefits of projected capacitive touchscreens include multi-touch response (pinch and zoom functionality) and personal tablet-like operation. Also, projected capacitive touchscreens do not require calibration.

MON1000AP Series Monitors are NEMA4 rated and carry a rugged IP65 certification (when panel mounted).

PC CONNECTION

You will need to set up your MON1000 Series monitor to a PC. MON1000 Series Monitors include USB and HDMI™ cables in the box to allow for ease of setup and use.

Note: *If your PC does not have an HDMI™ connector, you can use a VGA, DVI or DisplayPort cable (each sold separately) to connect your monitor to your PC, the steps are the same.*

CONNECTING YOUR MONITOR TO A PC

1. Be sure all equipment is powered off.
2. Connect one end of your power cable to the power connector on the monitor, and the other end to the **12~24 VDC output** of your power supply.
3. Connect one end of the video signal cable to the input connector on the monitor, the other end to the matching connector on your PC.
4. If touch operation from the monitor is desired, plug the "square end" of the included USB cable to the corresponding socket in the monitor, and connect the other end to a USB Host port of your PC.
5. Apply power to your Monitor and PC. Your monitor is configured to automatically detect which display input connection method is used, and will default to that connection.

Note: *If you wish to manually adjust the display input selection, see the* ***On-Screen Display Operation*** *section of this manual.*

When connected to a computer running a Windows® 7, 8.x, or 10 Operating System, there are no additional drivers required for operation. Your MON1000AP Series monitor uses standard Windows® HID (Human Interface Device) Drivers.

DISPLAY RESOLUTION

Your MON1000 Series monitor comes pre-configured with a resolution of **1024 x 768 pixels** (10.4~15" screen size), **1280 x 1024 pixels** (17 and 19" screen size), or **1920 x 1080 pixels** (15.6 and 21.5" screen size). **It is highly recommended that the display resolution output of your PC matches the native resolution of the monitor.**

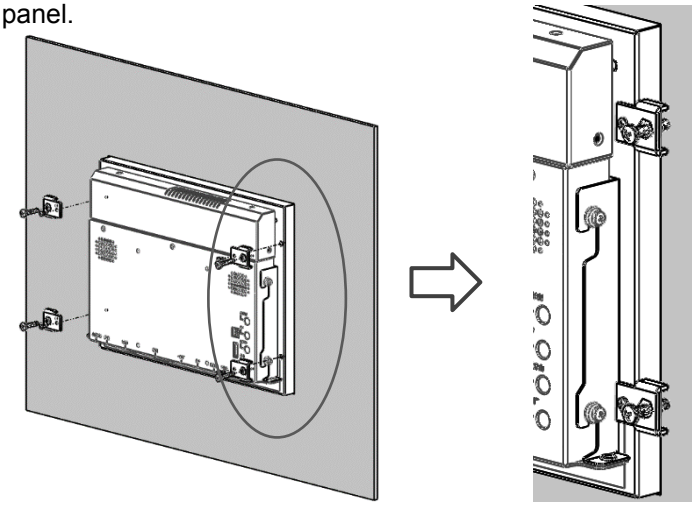
MOUNTING OPTIONS

Mounting options include Panel Mounting and VESA 100 x 100 mm (VESA mounting stands / brackets sold separately). MON1000AP Series monitors do not include a traditional monitor stand, as they are designed for industrial uses. Most commercially available monitor stands use the VESA mounting standard; should you choose to purchase a commercially available monitor stand, verify it will properly support the weight and mounting scheme of your MON1000AP Series monitor.

Maple Systems is not responsible for damage to unit, mounting surface or any other components caused by improper mounting.

PANEL MOUNTING

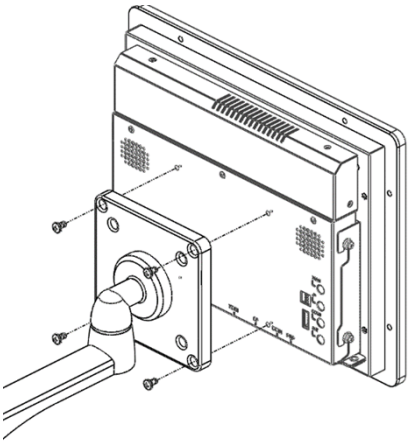
MON1000AP units can be panel mounted using the mounting holes located on the rear of the unit. Use the included clamps to fasten the unit to the panel, cut out to the proper dimensions on the datasheet corresponding to your monitor size. Tighten the bolts no more than **5.1 in./lbs.** to ensure an adequate seal. Over torqueing the bolts may possibly negate NEMA or IP65 rating, or cause damage to the unit or panel.



Note: *MON1010AP Panel Mounting example shown. Actual Product may differ from picture.*

VESA MOUNTING

In addition to panel mounting, the MON1000AP Series offer VESA 100 mounting as an option. VESA 100 x 100 mm threaded inserts are located on the rear of the unit. Use M4 threaded mounting screws to attach your VESA mounting bracket (not provided by Maple Systems) to the Monitor. Your monitor comes with M4x5mm mounting screws, but your VESA bracket may require screws of a different length.



Note: *VESA Mounting example shown. Actual Product may differ from picture. VESA Mount not provided by Maple Systems.*

SPECIFICATIONS
10.4” ~ 15.6” SCREEN SIZES

I/O Ports	**Audio**	1 x 3.5 mm Line-In 2 x Built-In Speaker			
	Power	DC power input jack, thumbscrew secured.			
	Power Switch	1 x Momentary Pushbutton with Integrated LED			
	Display Interface Options	1 x VGA 1 x DVI-D 1 x DisplayPort 1.2 1 x HDMI® 1.4a			
	USB	1 x Type-B USB 2.0 Client Port (For Touch Interface)			
Touch Screen	**Type**	Projected Capacitive Touch			
	Interface	USB			
Display	**Display Type**	**10.4” TFT XGA LCD**	**12.1” TFT XGA LCD**	**15” TFT XGA LCD**	**15.6” Widescreen TFT FHD LCD**
	Resolution	1024 x 768	1024 x 768	1024 x 768	1920 x 1080
	Max. Color	16.2 M	16.2 M	16.2 M	16.2 M
	Luminance (cd/m²)	350	450	300	450
	View Angle (H°/V°)	170/170	170/170	170/160	170/170
	Contrast Ratio	1000:1	700:1	2000:1	500:1
	Backlight Lifetime (hrs)	50,000+	50,000+	50,000+	50,000+
Electrical	**Input Voltage**	12~24 VDC	12~24 VDC	12~24 VDC	12~24 VDC
	Input Current	0.29~0.58 A	0.36~0.73 A	0.42~0.83 A	0.68~1.35 A
	Input Power	7 W	8.75 W	10 W	16.25 W
Mechanical	**Dimension (W x H x D)**	11.58 x 8.90 x 2.16” [294 x 226 x 54.9 mm]	12.48 x 9.65 x 2.16” [317 x 245 x 54.9 mm]	13.98 x 11.42 x 2.16” [355 x 290 x 54.9 mm]	15.75 x 9.84 x 1.90” [400 x 250 x 48.3 mm]
	Net Weight	6.17 lbs [2.8 kg]	6.61 lbs [3.0 kg]	9.04 lbs [4.1 kg]	9.04 lbs [4.1 kg]
	Panel Cutout Dimensions (W x H)	10.63 x 7.95” [270 x 202 mm]	11.54 x 8.70” [293 x 221 mm]	13.03 x 10.47” [331 x 266 mm]	14.57 x 8.90” [370 x 226 mm]
	Construction	Black Steel Chassis			
	Rating	IP65 compliant front panel, NEMA 4 when panel mounted			
	Mounting	Panel mounting, VESA 100 x 100			
Environmental	**Operating Temperature**	32~140°F [0~60°C]			
	Storage Temperature	-22~175°F [-30~80°C]			
	Storage Humidity	10 to 90% @ 40°C, non-condensing			
	Certifications	CE / FCC Class B / RoHS			
Notes	Specifications subject to change without notice.				

SPECIFICATIONS
17” ~ 21.5” SCREEN SIZES

I/O Ports	**Audio**	1 x 3.5 mm Line-In 2 x Built-In Speaker		
	Power	DC power input jack, thumbscrew secured.		
	Power Switch	1 x Momentary Pushbutton with Integrated LED		
	Display Interface Options	1 x VGA 1 x DVI-D 1 x DisplayPort 1.2 1 x HDMI® 1.4a		
	USB	1 x Type-B USB 2.0 Client Port (For Touch Interface)		
Touch Screen	**Type**	Projected Capacitive Touch		
	Interface	USB		
Display	**Display Type**	**17” TFT SXGA LCD**	**19” TFT SXGA LCD**	**21.5” Widescreen TFT FHD LCD**
	Resolution	1280 x 1024	1280 x 1024	1920 x 1080
	Max. Color	16.2 M	16.2 M	16.2 M
	Luminance (cd/m²)	250	350	250
	View Angle (H°/V°)	160/160	170/160	170/160
	Contrast Ratio	1000:1	1000:1	3000:1
	Backlight Lifetime (hrs)	50,000+	30,000+	50,000+
Electrical	**Input Voltage**	12~24 VDC	12~24 VDC	12~24 VDC
	Input Current	0.52~1.04 A	0.58~1.17 A	0.81~1.63 A
	Input Power	12.5 W	14 W	19.5 W
Mechanical	**Dimension (W x H x D)**	15.23 x 13.09 x 2.16” [386.9 x 332.5 x 54.9 mm]	17.44 x 14.49 x 1.98” [443 x 368 x 50.3 mm]	20.63 x 13.00 x 2.16” [524 x 330.2 x 54.9 mm]
	Net Weight	9.92 lbs [4.5 kg]	15.65 lbs [7.1 kg]	15.21 lbs [6.9 kg]
	Panel Cutout Dimensions (W x H)	14.29 x 12.17” [363 x 309 mm]	16.69 x 13.82” [424 x 351 mm]	19.69 x 12.09” [500 x 307 mm]
	Construction	Black Steel Chassis		
	Rating	IP65 compliant front panel, NEMA 4 when panel mounted		
	Mounting	Panel mounting, VESA 100 x 100		
Environmental	**Operating Temperature**	32~140°F [0~60°C]		
	Storage Temperature	-22~175°F [-30~80°C]		
	Storage Humidity	10 to 90% @ 40°C, non-condensing		
	Certifications	CE / FCC Class B / RoHS		
Notes	Specifications subject to change without notice.			

SPECIFICATIONS
HIGH BRIGHTNESS 10.4” ~ 15” SCREEN SIZES

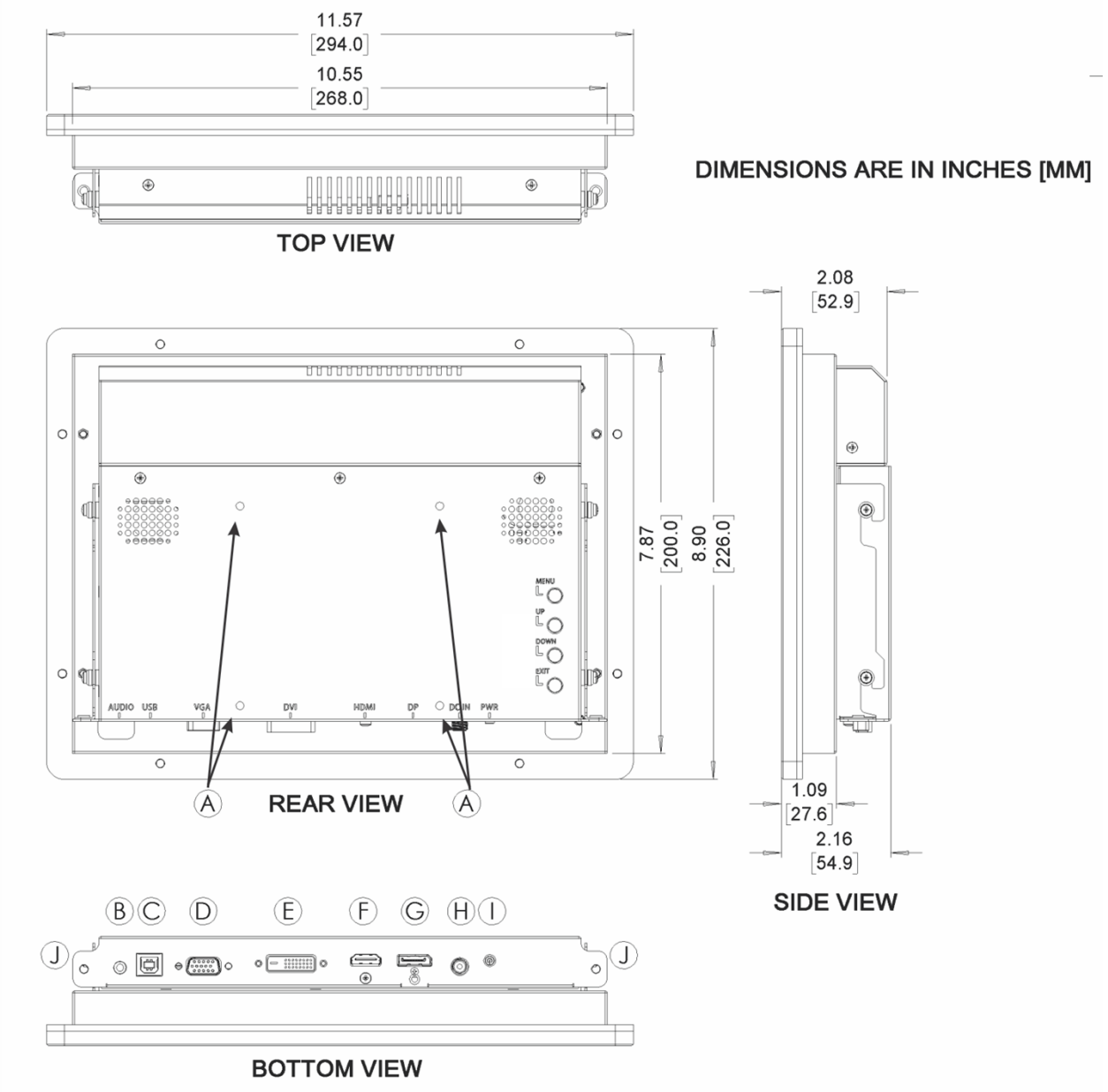
I/O Ports	**Audio**	1 x 3.5 mm Line-In 2 x Built-In Speaker		
	Power	DC power input jack, thumbscrew secured.		
	Power Switch	1 x Momentary Pushbutton with Integrated LED		
	Display Interface Options	1 x VGA 1 x DVI-D 1 x DisplayPort 1.2 1 x HDMI® 1.4a		
	USB	1 x Type-B USB 2.0 Client Port (For Touch Interface)		
Touch Screen	**Type**	Projected Capacitive Touch		
	Interface	USB		
Display	**Display Type**	**10.4” TFT XGA LCD**	**12.1” TFT XGA LCD**	**15” TFT XGA LCD**
	Resolution	1024 x 768	1024 x 768	1024 x 768
	Max. Color	16.2 M	16.2 M	16.2 M
	Luminance (cd/m²)	**1000**	**1000**	**1000**
	View Angle (H°/V°)	160/160	170/170	170/160
	Contrast Ratio	1000:1	700:1	2000:1
	Backlight Lifetime (hrs)	30,000+	30,000+	30,000+
Electrical	**Input Voltage**	12~24 VDC	12~24 VDC	12~24 VDC
	Input Current	0.48~0.96 A	0.50~1.00 A	0.75~1.50 A
	Input Power	11.5 W	12 W	18 W
Mechanical	**Dimension (W x H x D)**	11.58 x 8.90 x 2.16” [294 x 226 x 54.9 mm]	12.48 x 9.65 x 2.16” [317 x 245 x 54.9 mm]	13.98 x 11.42 x 2.16” [355 x 290 x 54.9 mm]
	Net Weight	6.17 lbs [2.8 kg]	6.61 lbs [3.0 kg]	9.04 lbs [4.1 kg]
	Panel Cutout Dimensions (W x H)	10.63 x 7.95” [270 x 202 mm]	11.54 x 8.70” [293 x 221 mm]	13.03 x 10.47” [331 x 266 mm]
	Construction	Black Steel Chassis		
	Rating	IP65 compliant front panel, NEMA 4 when panel mounted		
	Mounting	Panel mounting, VESA 100 x 100		
Environmental	**Operating Temperature**	32~140°F [0~60°C]		
	Storage Temperature	-22~175°F [-30~80°C]		
	Storage Humidity	10 to 90% @ 40°C, non-condensing		
	Certifications	CE / FCC Class B / RoHS		
Notes	Specifications subject to change without notice.			

SPECIFICATIONS
HIGH BRIGHTNESS 17” ~ 21.5” SCREEN SIZES

I/O Ports	**Audio**	1 x 3.5 mm Line-In 2 x Built-In Speaker	
	Power	DC power input jack, thumbscrew secured.	
	Power Switch	1 x Momentary Pushbutton with Integrated LED	
	Display Interface Options	1 x VGA 1 x DVI-D 1 x DisplayPort 1.2 1 x HDMI® 1.4a	
	USB	1 x Type-B USB 2.0 Client Port (For Touch Interface)	
Touch Screen	**Type**	Projected Capacitive Touch	
	Interface	USB	
Display	**Display Type**	**17” TFT SXGA LCD**	**21.5” Widescreen TFT FHD LCD**
	Resolution	1280 x 1024	1920 x 1080
	Max. Color	16.2 M	16.2 M
	Luminance (cd/m²)	**1000**	**1000**
	View Angle (H°/V°)	160/160	170/160
	Contrast Ratio	1000:1	3000:1
	Backlight Lifetime (hrs)	30,000+	30,000+
Electrical	**Input Voltage**	12~24 VDC	12~24 VDC
	Input Current	0.92~1.83 A	1.52~3.04 A
	Input Power	22 W	36.5 W
Mechanical	**Dimension (W x H x D)**	15.23 x 13.09 x 2.16” [386.9 x 332.5 x 54.9 mm]	20.63 x 13.00 x 2.16” [524 x 330.2 x 54.9 mm]
	Net Weight	9.92 lbs [4.5 kg]	15.21 lbs [6.9 kg]
	Panel Cutout Dimensions (W x H)	14.29 x 12.17” [363 x 309 mm]	19.69 x 12.09” [500 x 307 mm]
	Construction	Black Steel Chassis	
	Rating	IP65 compliant front panel, NEMA 4 when panel mounted	
	Mounting	Panel mounting, VESA 100 x 100	
Environmental	**Operating Temperature**	32~140°F [0~60°C]	
	Storage Temperature	-22~175°F [-30~80°C]	
	Storage Humidity	10 to 90% @ 40°C, non-condensing	
	Certifications	CE / FCC Class B / RoHS	
Notes	Specifications subject to change without notice.		

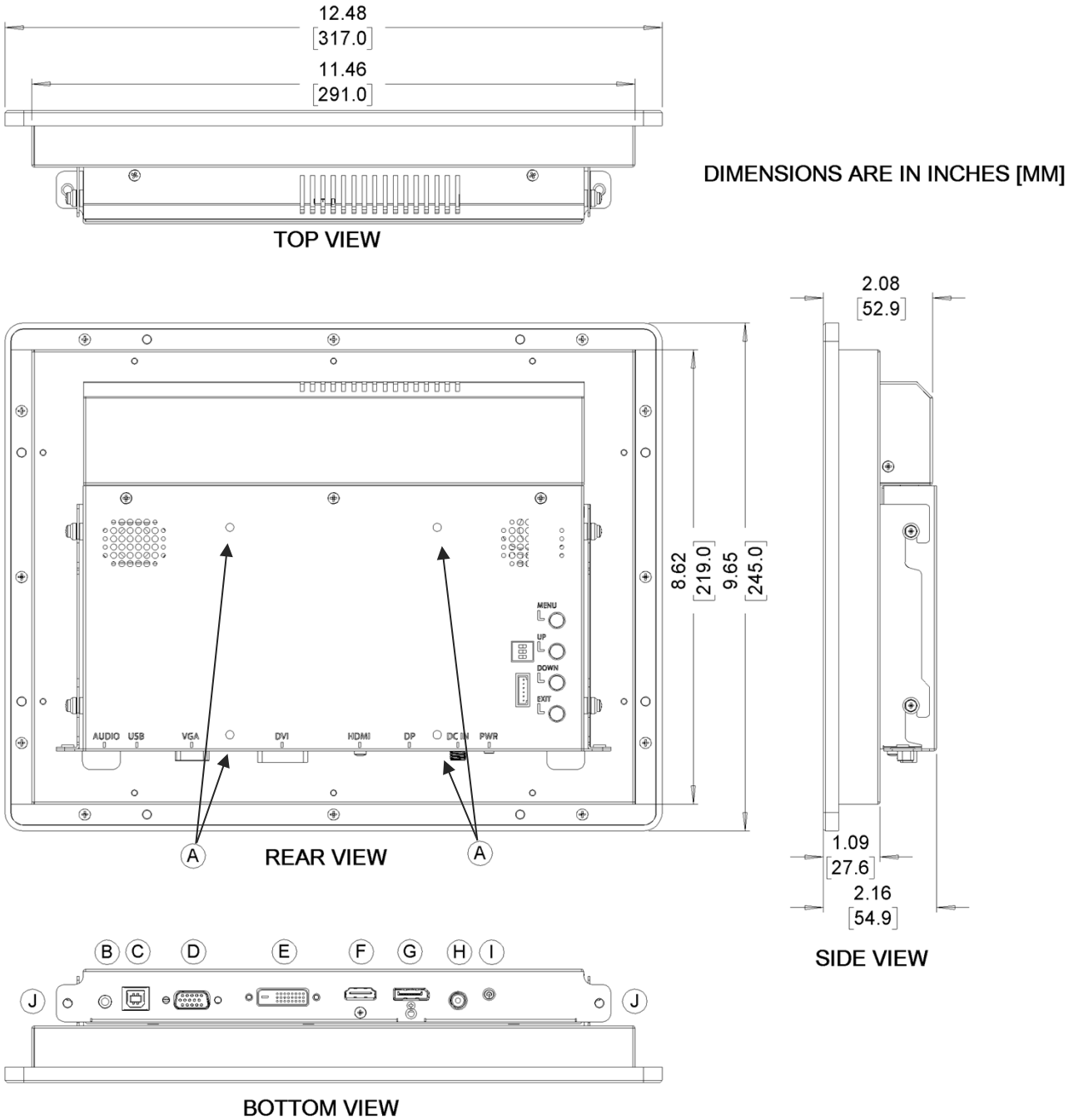
DIMENSIONAL OUTLINES

MON1010AP DIMENSIONS



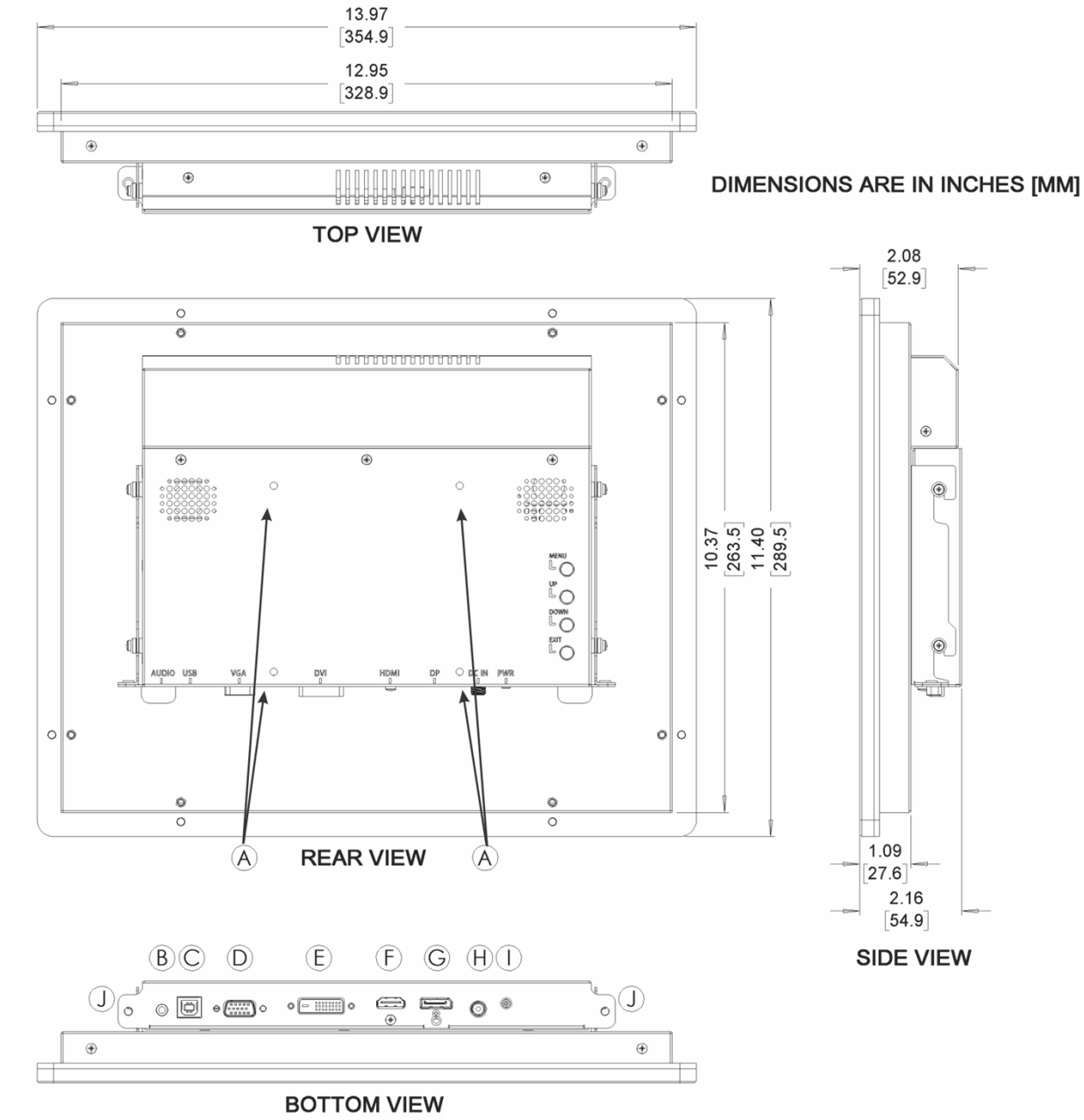
A	VESA 100 x 100 Mounting	**F**	HDMI® Input
B	3.5mm Audio Port (Line In)	**G**	DisplayPort Input
C	USB 2.0 Type-B Client Port	**H**	DC Input Power Connector
D	VGA Input	**I**	Illuminated Power Button
E	DVI-D Input	**J**	Thumb-Screw Mounting

MON1012AP DIMENSIONS



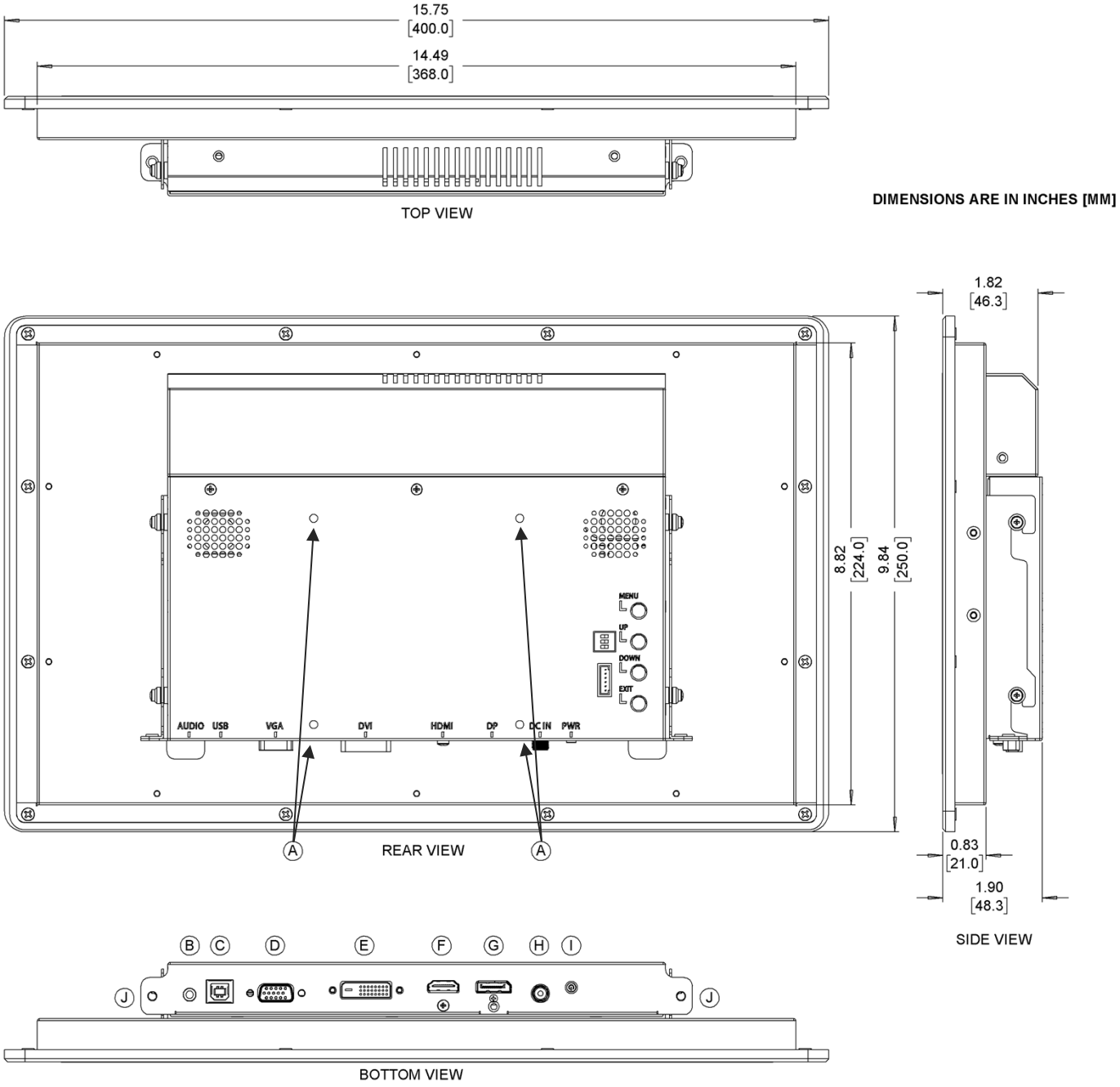
A	VESA 100 x 100 Mounting	**F**	HDMI® Input
B	3.5mm Audio Port (Line In)	**G**	DisplayPort Input
C	USB 2.0 Type-B Client Port	**H**	DC Input Power Connector
D	VGA Input	**I**	Illuminated Power Button
E	DVI-D Input	**J**	Thumb-Screw Mounting

MON1015AP DIMENSIONS



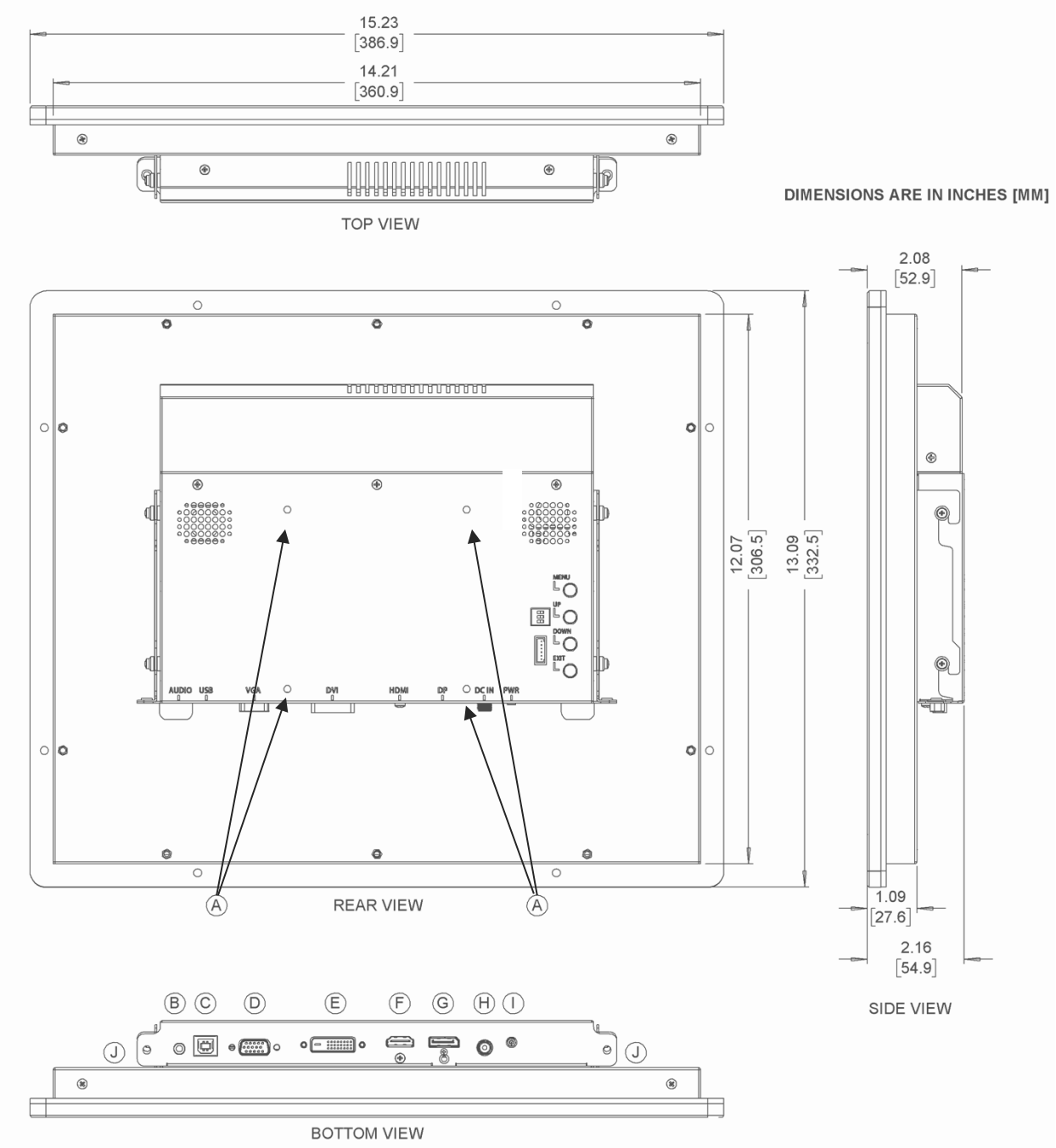
A	VESA 100 x 100 Mounting	**F**	HDMI® Input
B	3.5mm Audio Port (Line In)	**G**	DisplayPort Input
C	USB 2.0 Type-B Client Port	**H**	DC Input Power Connector
D	VGA Input	**I**	Illuminated Power Button
E	DVI-D Input	**J**	Thumb-Screw Mounting

MON1016AP DIMENSIONS



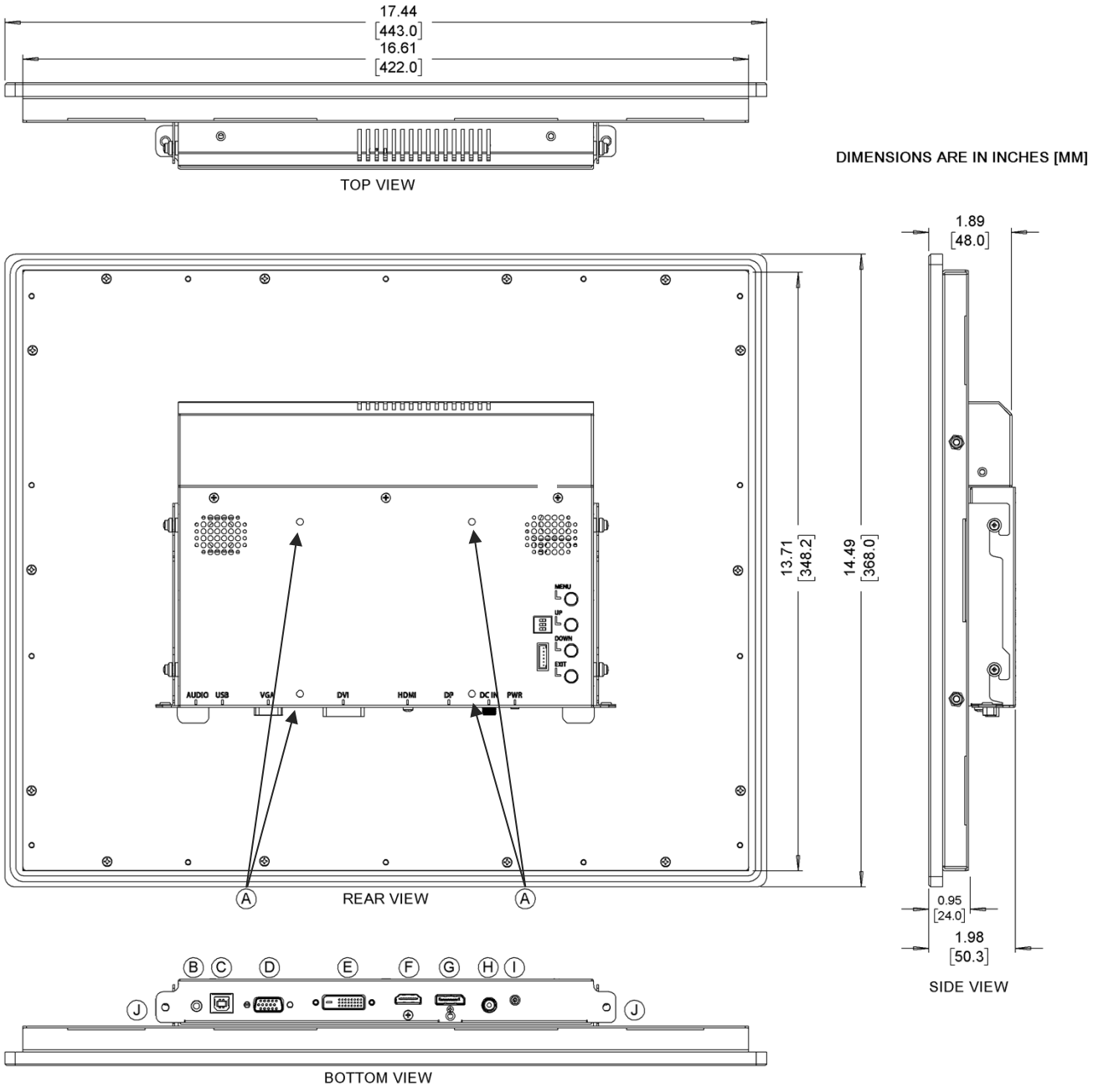
A	VESA 100 x 100 Mounting	**F**	HDMI® Input
B	3.5mm Audio Port (Line In)	**G**	DisplayPort Input
C	USB 2.0 Type-B Client Port	**H**	DC Input Power Connector
D	VGA Input	**I**	Illuminated Power Button
E	DVI-D Input	**J**	Thumb-Screw Mounting

MON1017AP DIMENSIONS



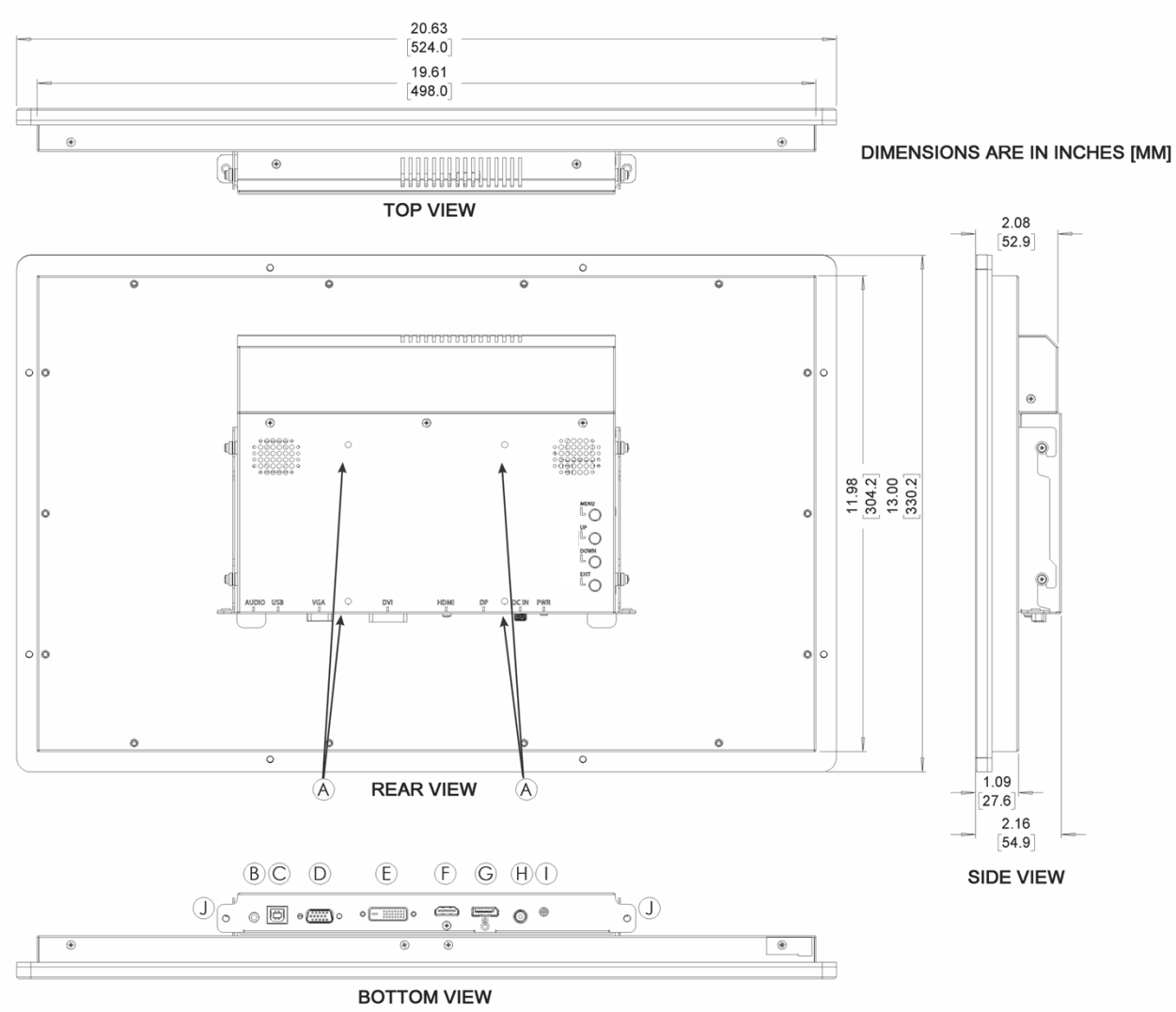
A	VESA 100 x 100 Mounting	**F**	HDMI® Input
B	3.5mm Audio Port (Line In)	**G**	DisplayPort Input
C	USB 2.0 Type-B Client Port	**H**	DC Input Power Connector
D	VGA Input	**I**	Illuminated Power Button
E	DVI-D Input	**J**	Thumb-Screw Mounting

MON1019AP DIMENSIONS



A	VESA 100 x 100 Mounting	**F**	HDMI® Input
B	3.5mm Audio Port (Line In)	**G**	DisplayPort Input
C	USB 2.0 Type-B Client Port	**H**	DC Input Power Connector
D	VGA Input	**I**	Illuminated Power Button
E	DVI-D Input	**J**	Thumb-Screw Mounting

MON1021AP DIMENSIONS

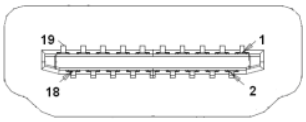


A	VESA 100 x 100 Mounting	**F**	HDMI® Input
B	3.5mm Audio Port (Line In)	**G**	DisplayPort Input
C	USB 2.0 Type-B Client Port	**H**	DC Input Power Connector
D	VGA Input	**I**	Illuminated Power Button
E	DVI-D Input	**J**	Thumb-Screw Mounting

I/O PORTS

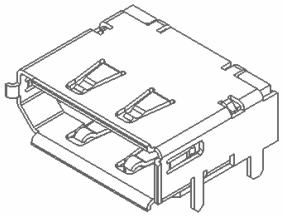
HDMI®

Connector Type: High Definition Multimedia Interface® Socket



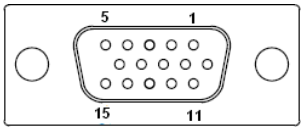
DISPLAYPORT

Connector Type: DisplayPort Interface Connector Socket



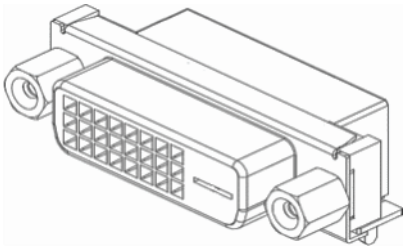
VGA

Connector Type: DE15P Video Graphic Array Port



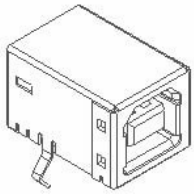
DVI-D

Connector Type: Digital Visual Interface-Digital Only Connector



USB

Connector Type: USB Type-B Client Port



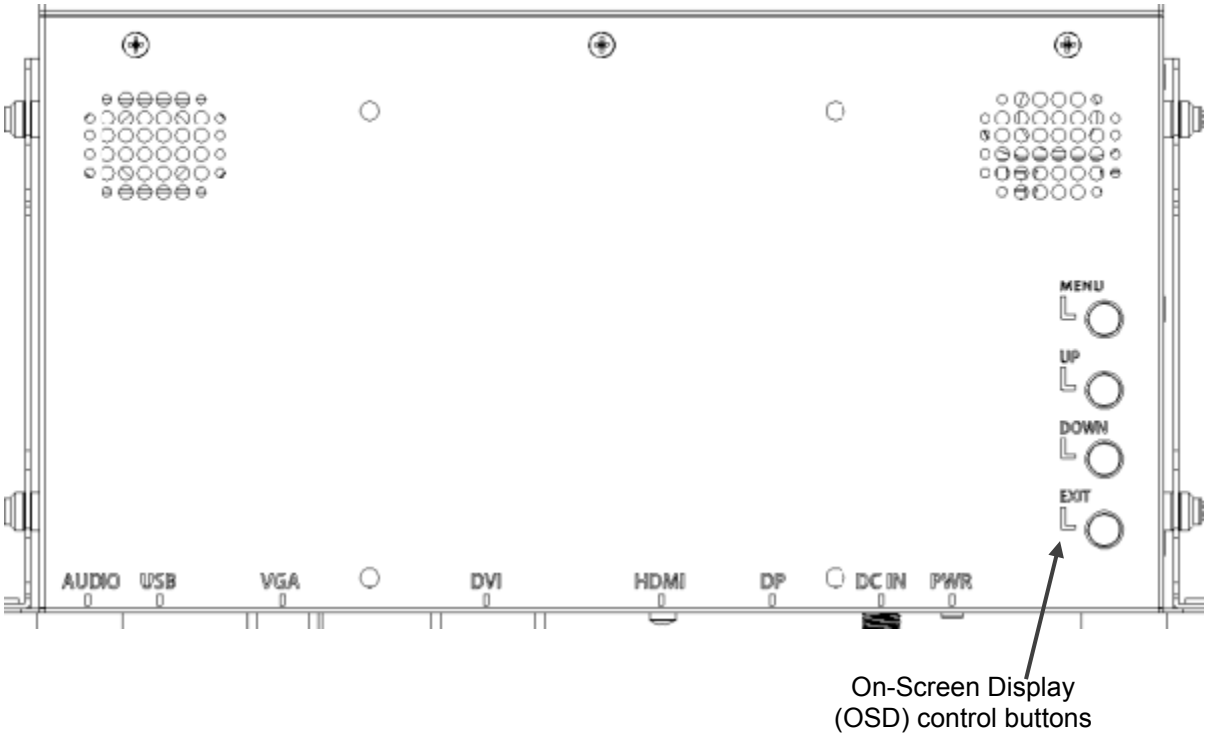
Note: *USB Client Port is designed for the provided USB cable only, and is required for proper touch operation of the monitor.*

AUDIO-IN

Connector Type: 3.5mm audio jack line-level Input

ON-SCREEN DISPLAY (OSD) OPERATION

Your MON1000AP Series monitor has four (4) On-Screen Display (OSD) buttons physically located on the rear panel. These buttons can be used to adjust various parameters. The table below shows the buttons and their respective operations, both with and without the OSD menu displayed on screen.



Button	Function with OSD menu not displayed	Function with OSD menu displayed
MENU	Displays the OSD main menu	Selects the highlighted parameter or submenu
UP	Displays the Input menu	Increase value of selected parameter Select next menu item
DOWN	N/A	Decrease value of selected parameter Select previous menu item
EXIT	N/A*	Exit the OSD menu

If connected to the PC by VGA cable, pressing the EXIT button automatically centers the VGA input signal H-Position and V-Position within the display. If no VGA cable connected, the button has no function.

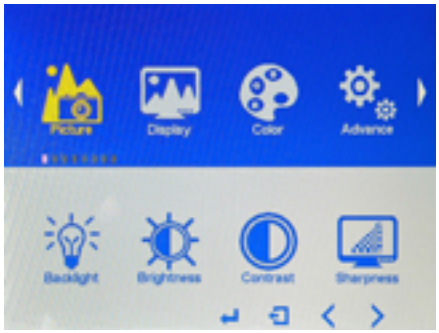
ON-SCREEN DISPLAY PARAMETER ADJUSTMENT

The On-Screen Display (OSD) menu structure is shown below. Each adjustable parameter within each submenu is shown, along with the default parameter value.

Main Menu
This is the initial OSD menu that shows up when the

button is pressed.

Picture Menu



Backlight
Increases or decreases the intensity of the LED backlight
Default value: 100

Brightness
Increase or decreases the monitor brightness level
Default value: 50

Contrast
Increases or decreases the monitor contrast level
Default value: 50

Sharpness
Adjusts the sharpness of the monitor display
Default value: 2

Display Menu ***(VGA Input only – below parameters are greyed-out if not connected via VGA)***

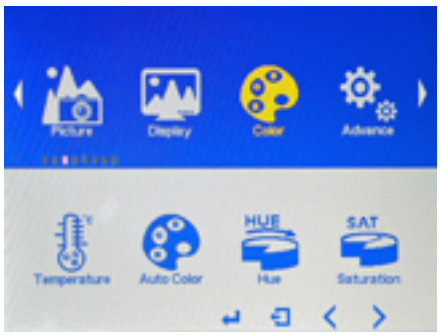
Auto Adjust
Automatically adjust the system clock to the analog VGA input signal. This setting affects the H Position, V Position, and Clock parameters.

H Position
Moves the displayed image horizontally in single-pixel increments
Default value: 50 (Centered)

V Position
Moves the displayed image vertically in single-pixel increments
Default value: 50 (Centered)

Clock
Allows adjustment of the panel's pixel dot clock

Color Menu



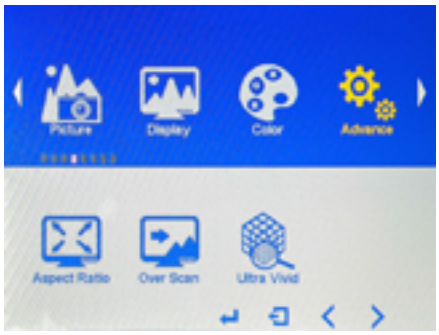
Temperature
Select the color temperature of the displayed image. Options are **9300K**, **7500K**, **6500K** and User Defined individual RGB values
Default value: User Defined RGB 128

Auto Color
Automatically adjusts the color temperature to default.

Hue
Adjust the hue of the displayed image
Default value: 50

Saturation
Adjust the color saturation of the displayed image
Default value: 50

Advance Menu

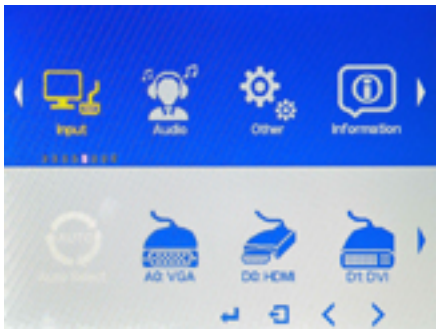


Aspect Ratio
Switches the scaling method between Full Scaling and preset Aspect Ratios of **16:9, 4:3, 5:4** and 1:1
Default value: Full

Over Scan
Adjust the over-scanning of the displayed image.
Default value: ON

Ultra Vivid
Enhances the vividness of the displayed image. Options are Off, Low, Medium, and High.
Default value: OFF

Input Menu



Auto Select
Scan the inputs and automatically select the input device connected to the PC. This is the default selection.

Analog 0: VGA
Select the VGA Input

Digital 0: HDMI
Select the HDMI Input

Digital 1: DVI
Select the DVI Input

Digital 2: DP
Select the DisplayPort Input

Audio Menu

Volume
Adjust the volume of the monitor's internal speaker
Default value: 50

Mute
Audio On-Off control
Default value: OFF

Audio Source
Switch between audio sources. When HDMI is plugged in, internal speakers can be used when selecting **Digital**. When selecting **Analog**, the internal speakers can be used when connecting an external audio source such as a speaker or headphones to the monitor's 3.5mm audio jack.
Default value: Analog

Other Menu

Reset
Restore monitor factory default values

Menu Time
Adjust the timeout period of the On-Screen Display being shown without inactivity before closing the OSD. Timeout period is adjustable from 5 to 60 seconds.
Default value: 15 seconds

OSD H Position
Adjust the horizontal position of the OSD menus on the monitor
Default value: 50 (Centered)

OSD V Position
Adjust the vertical position of the OSD menus on the monitor
Default value: 50 (Centered)

Language
OSD menu language.
Default value: English

Transparency
Adjust the transparency of the OSD menu on the display
Default value: 0

Information Menu

Displays information of the current monitor – PC connection

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