

## VMMOB-19 Series

### 19" Daylight Viewable Industrial-Grade Monitors

- 19" Optically Bonded LCD Monitors; Ideal for Use in Bright Daylight
- Protective Anti-Reflective Glass
- 450 nits Brightness
- TRU-Tuff Ensures Maximum Shock & Vibration Resistance
- Auto Re-Start After Power Loss
- Lockable On-Screen Display Controls
- Can Be Customized to Meet Your Needs
- 3-Year Warranty



### 19" DAYLIGHT VIEWABLE MONITOR

The VMMOB-19 Series is an optically-bonded 19" daylight viewable monitor. We design it for use as an outdoor display in indirect sunlight. It is also recommended for indoors where high ambient light decreased the view-ability of standard LCD monitors. The VMMOB-19 Series features a 4:3 aspect ratio. Additionally, this 19" outdoor monitor display features an extremely wide operating temperature range. It has rear VESA mount holes, and our 3 year warranty.

#### WHAT IS OPTICAL BONDING?



Some monitors have a sheet of glass over the LCD panel. This protects the panel from accidental or intentional damage. However, the glass also produces unwanted glare and reflections. Internal reflections in the air gap between the glass and the LCD panel diminish image quality even further. In order to combat this, monitors are optically bonded.

**Optical bonding** is the process of laminating protective glass or a touch screen panel to the LCD panel. An optical-grade resin is inserted between the glass and LCD. This completely fills the air gap. It will not only eliminate the internal reflections, but increase the contrast ratio. This makes the screen much more viewable in bright light conditions. Optical bonding will also eliminate internal moisture and condensation. Moreover, it will make the monitor more rugged and durable. Lastly, an Anti-Reflective coating is applied to the outside of the glass. Consequently, this will drastically reduce glare and surface reflections.

Optical bonding ensures monitors will be highly viewable in bright, indirect sunlight. The VMMOB-19 Series has 450 nits brightness. If sunlight is falling directly onto the face of the monitor, our SRM or SX Series of **Sunlight Readable monitors** would be most advantageous. Our Sunlight Readable monitors provide 1,000 nits to 2,500 nits brightness. They are for use in direct sunlight.

## EXTREME OPERATING TEMPERATURE MONITOR

We design these daylight viewable screens to operate in nearly any environmental conditions. Whether in frigid conditions or blazing heat, these daylight monitors will survive and thrive. To clarify, some of these monitors will operate in temperatures down to -22°F (-30°C). They will also withstand brutal heat. Moreover, operating temperatures go up to +185°F (+85°C). Additionally, the rugged ABS or powder coated steel enclosure will assure years of reliable imaging performance. Specifically, typical MTBF for these monitors is 50,000 hours. These daylight readable lcd displays are also available with an optional waterproof enclosure.

### 19" DISPLAYS DEPLOYED WORLDWIDE

Our 19" daylight viewable monitor is deployed in a wide range of demanding industries. For example, military, law enforcement, aviation and entertainment benefit. You will also find them in the inspection, marine, oil & gas, industrial and transportation industries. TRU-Vu monitors are backed by our full 3-Year Warranty. This ensures you of many years of reliable service. See all of our mid size monitors between 13.3 and 19 inches for further selections.

View our full line-up of industrial-grade Sunlight Readable and Daylight Readable monitors and touch screens. This filters all of our monitors by high brightness features. Additionally, you'll find the sunlight readable monitors in all the sizes and configurations available. We specifically design all TRU-Vu industrial LCD monitors for use in demanding applications. Consequently, every TRU-Vu monitor utilizes industrial-grade components. We provide high-end LCD panels not found in retail/consumer-grade monitors. This ensures superior image quality, improved performance and greater durability. Lastly, our 3-Year Warranty guarantees you of reliable worry-free operation. We also have the service to back it up.

### OUR TECHNICAL EXPERTS ARE READY TO HELP YOU FIND THE BEST DISPLAY

We offer over 540 LCD monitors and touch screens on our site. Selecting the ideal equipment or touch screen solution may be a bit overwhelming. To help narrow-down the choices, check out our Advanced Search Tool. For example, this enables you filter by your own important search features. Check out all monitors and touch screens on sale. View similar sized monitors or see all 12-24 VDC monitors. TRU-Vu can provide modified or Custom OEM LCD Displays. Private Label Monitors are also an option if you have very specific requirements.

Finally, our team members are ready to help! We can determine the exact solution that will meet your specific needs. Certainly, TRU-Vu will help provide crystal-clear images for your operating requirements. Call (847) 259-2344 today to speak with one of our specialists. Above all, we will listen. It's one of the things we do best. Our professional advisors will ensure the monitor or touch screen you receive will be and do everything you had hoped it would!

If you prefer, fill out a quick form with your requirements. We will be happy to guide you to the proper models that will perform best.

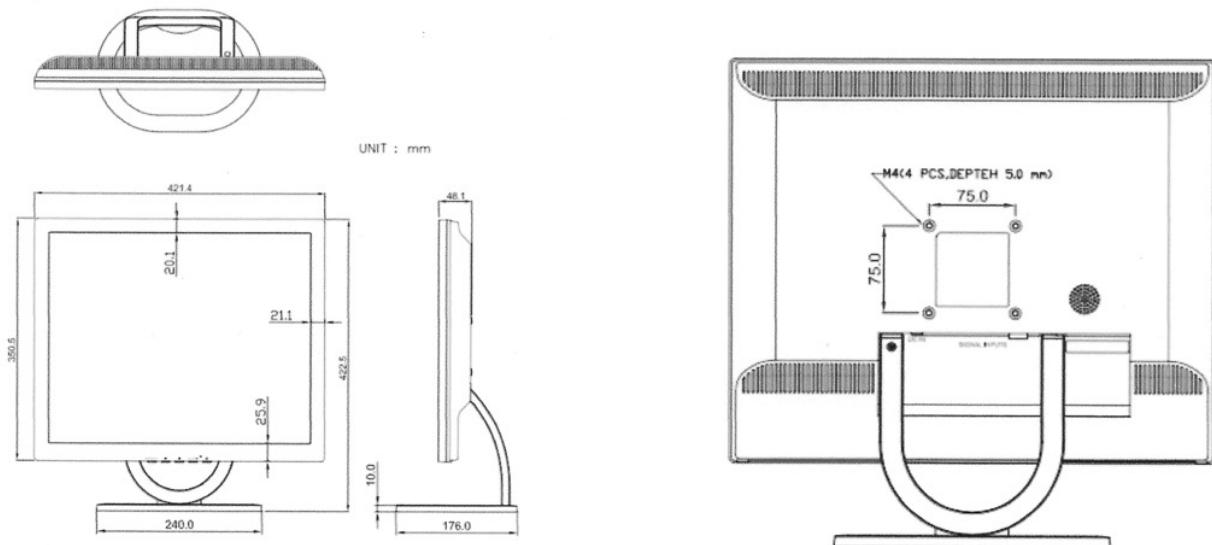
## SPECIFICATIONS

	VMMOB-19C-24	VMMOB-19B-24	VMMOB-19B-24M
LCD Panel	19" Color LCD (LED Backlights)		
Display Resolution	1280 x 1024 (SXGA)		
Viewable Area	14.81" (W) x 11.85" (H) (376.17 x 300.98 mm)		
Pixel Pitch	0.294mm x 0.294mm		
Display Colors	16.7 Million		
Aspect Ratio	4:3 (5:4)		
Brightness	450 nits		

	VMMOB-19C-24	VMMOB-19B-24	VMMOB-19B-24M
Contrast Ratio	1000:1		
Viewing Angle	170° (H) x 160° (V)		
Response Time	5 msec Trf		
Control	OSD (On-Screen Display) via Front Panel Pushbuttons		
Video Inputs	VGA, DVI-D	VGA, Composite BNC Loop-Thru; NTSC/PAL	
Analog Video Outputs	—	1 BNC Input/1 Output	
Audio	Rear Speakers	—	
Power Requirement	24 VDC (2.5mm Barrel Plug)		
Power Consumption	37 Watts		
Enclosure	ABS	Powder-Coated Steel	
Mounting	Rear 75 x 75mm Rear VESA Mount Holes (Optional Tabletop Base)		
Operating Temperature	-22° to +185° F (-30° to 85° C)		
Operating Altitude	To 18,000 Ft.		
Humidity	5-90% RH		
Shock	50 G (20 msec, 1/2 sine)		
Vibration	1.5G RMS 10-200 HZ		
Dimensions	16.59" (W) x 13.80" (H) x 1.89" (D) (421.4 x 350.5 x 48.1 mm)		15.79" (W) x 13.19" (H) x 1.87" (D) (401 x 334.9 x 47.5mm)
Weight	9.6 lb (4.4 kg)		11.1 lb (5 kg)
Warranty	3-Years		

Note: Specifications subject to change without notice.

## DIMENSIONS (MM)



### Standard Accessories:

- 90-240 VAC Power Supply (Except -24 Models)

- VGA Cable (Except -24 Models)
- Audio Cable (Except -24 Models)
- Power Pigtail (Except VMMOB-19C-24)

**Available Options:**

- Tabletop Stand
- 90-240 VAC via PS-12 Power Supply
- Stainless Steel Waterproof Enclosure (VMMOBW-19C)
- S-Video Input
- Panel Mount
- 11-36 VDC Operation
- Touch Screen
- Powder-Coated Steel Enclosure
- Open-Frame Configuration
- Private Label
- Rack-Mount Bracket MB-Rack-19
- Other Customer - Specific Modifications