



SUNLIGHT READABLE MONITORS

# Visibility, Durability, and Performance in Extreme Environments



AT ABRAXSYS,

**We specialize in designing and manufacturing rugged, industrial-grade display solutions that excel in the most challenging environments.**

Our **sunlight readable monitors** are engineered for exceptional visibility under direct sunlight and built to withstand harsh conditions, ensuring reliability and durability across diverse industries.

With advanced technology, customizable options, and proven performance, AbraxSys delivers sunlight readable displays that meet and exceed the demands of outdoor and mission-critical applications.



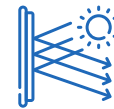
# What Makes a Sunlight Readable Monitor Visible in Extreme Bright Light?

Sunlight readable monitors are specialized displays designed for maximum visibility in bright outdoor environments. Unlike standard screens, these monitors are equipped with advanced technologies to combat glare, enhance brightness, and improve contrast.

## Key Features Include:



High brightness levels ranging up to 1800 nits for readability in direct sunlight.



Anti-reflective coatings to reduce glare and enhance contrast.



Optical bonding to eliminate internal reflections and improve image clarity.



Wide viewing angles for effortless visibility from any position.

**By combining these features, AbraxSys sunlight readable monitors ensure that images and text remain clear and vibrant, even in the harshest lighting conditions.**



# Key Technical Advantages of Sunlight Readable Monitors



## Enhanced Visibility

- High brightness displays with adjustable settings to optimize readability.
- Advanced anti-glare and anti-reflective coatings to maintain clarity.
- True color reproduction and sharp contrast, even in direct sunlight.



## Robust Durability

- Built with industrial-grade materials to withstand extreme temperatures, UV exposure, moisture, and physical impact.
- Certified IP ratings (IP65 and above) for protection against water, dust, and environmental hazards.
- Designed for continuous use in rugged environments without compromising performance.



## Customizable Features

- Sizes ranging from 8.4" to 27" with various resolutions, up to 1080P FHD and 4K.
- Options for touchscreens, including resistive, projected capacitive, and armored touch technologies.
- Multiple mounting configurations, including panel mount, VESA mount, rack mount, and open-frame designs.
- Flexible I/O formats to integrate seamlessly into existing systems.

# Applications Across Industries

AbraxSys sunlight readable monitors are trusted across a wide range of industries where visibility and reliability are critical:



## Oil and Gas

Our rugged displays are designed to withstand the harsh environments of oil rigs and refineries, featuring high-brightness screens for outdoor visibility and wide temperature ranges for extreme climates.



## Military

AbraxSys provides military-grade monitors built to meet stringent defense standards, offering rugged construction, secure mounting options, and superior performance in both field and command center environments.



## Marine

Our marine displays are fully waterproof, sunlight-readable, and corrosion-resistant, making them ideal for navigation systems and other critical applications on seafaring vessels.



## Automotive

We offer durable, vibration-resistant monitors for in-vehicle use, designed to perform reliably in both commercial and military automotive applications.



## Aerospace

AbraxSys aerospace displays are engineered for high-altitude performance, with lightweight designs and advanced cooling systems that ensure reliability in the most demanding aviation environments.



## Mining

Our mining monitors are built to endure the rough conditions of underground and open-pit mining, featuring reinforced casings and shock-resistant technology.



## Energy

AbraxSys provides robust displays for the energy sector, supporting applications in power generation, grid management, and renewable energy systems with reliable performance in volatile environments.



## Manufacturing

Our industrial monitors are essential in factory automation, offering precise control and monitoring capabilities with features like touch screen interfaces and wide temperature support.



## Transportation

AbraxSys delivers dependable displays for public transit and logistics operations, with products that withstand the rigors of daily use in trains, buses, and fleet vehicles.



## Truck Scales

Our high-brightness displays ensure visibility in outdoor weigh stations and truck scale applications, even in direct sunlight and extreme weather conditions.



## First Responders & Border Security

Designed for emergency and tactical operations, our sunlight-readable monitors enhance situational awareness and communication for first responders, law enforcement, and border security personnel.



## Drones & ROVs

AbraxSys monitors provide crystal-clear displays for remote drone and ROV (Remotely Operated Vehicle) operations, ensuring real-time visual accuracy in reconnaissance, inspection, and underwater applications.

# Sunlight Readable Monitors

These high-brightness displays are perfect for outdoor use, ensuring visibility even in direct sunlight. They are designed for applications such as industrial in-field work, digital signage, kiosks, and outdoor industrial controls.



**8.4" to 27"**  
Size Options



**Traditional  
or Wide Formats**



**Up to 1080P  
FHD**



**Rated IP65+**



**Touchscreen  
Available**

**Models can be configured with optional touchscreens, wide aspect ratios, and enhanced durability features, including Pelican Cases, to suit your specific application.**



## **Configurations Include:**

- Panel Mount LCDs
- VESA Mount LCDs
- Tabletop LCDs
- Open-Frame LCDs
- Rack Mounts
- Kits

# High-Bright Panel PCs

Our all-in-one Panel PCs combine computing power with high-quality displays, available in high-bright, sunlight readable configurations. These are ideal for first responders, military vehicles, and industrial automation.



15" to 19" Size Options



XGA up to 1080P



Touchscreen Available



Traditional 4:3/5:4  
or 16:9 Wide Format



Rated IP65/IP66



## Configurations Include:

- Intel® Core™ i5-1145GRE (up to 4.1Ghz, quad-core, 8M Cache)
- Tiger Lake 11th generation Intel Core Processors
- 240GB Solid State (Optional larger capacity drives also available)
- 8GB Memory Operating System (Win10 or Win11)
- Extended Operating Temps: -20°C to 60°C (-4°F to 140°F)

# LCD Kits

These Sunlight Readable LCD kits are designed to be used in outdoor environments. With our proprietary LED upgrade kit installed, they are very bright that the contents on display are visible under strong sunlight. Also, the components, including the LCDs themselves, are all very wide operational temperature capable. We bundle our LCD kits with enhanced LCDs, an input source board, power supplies, protective impact windows OR touch screen technologies, plus all associated cabling (custom configurations available).



**6.4" to 27" Size Options**



**VGA up to 1080P or 4K**



**DVI, HDMI , DisplayPort, VGA,  
Composite, SDI, or a combination**



**Touchscreen Available**



**Traditional 4:3/5:4  
or 16:9/16:10 Wide Formats**







# Why Choose AbraxSys?

At AbraxSys, we combine cutting-edge technology with unparalleled expertise to deliver display solutions that stand out in performance, reliability, and customization. Here's why we're the preferred choice for rugged displays:



## Proven Performance

Our sunlight-readable monitors are trusted in mission-critical applications across oil & gas, military, marine, and other demanding industries.



## Tailored Solutions

Every display can be customized to meet your exact specifications, from screen size and touch technology to mounting options and enclosures.



## Made in the USA

All AbraxSys products are designed and manufactured in the United States, ensuring superior quality and precision.



## Long-Term Support

We offer long-term availability on models and a comprehensive 3-year warranty, with optional extended warranties for added peace of mind.

# DETAILED SPECIFICATIONS





## DETAILED SPECS

# Sunlight Readable/ Outdoor Monitors

Designed for exceptional visibility and performance in direct sunlight or bright ambient light, our sunlight-readable monitors and outdoor displays offer superior image quality and vibrant colors. Engineered to endure harsh weather conditions, these monitors are perfect for outdoor kiosks, digital signage, and other demanding applications.

## Sunlight Readable Panel Mount LCDs

Model	SRD-PM-084	SRD-PM-104	SRD-PM-121	SRD-PM-150	SRD-PM-156
Display Size	8.4"	10.4"	12.1"	15.0"	15.6"
Brightness	1200 nits (cd/m2)	1300 nits (cd/m2)	1200 nits (cd/m2)	1600 nits (cd/m2)	1500 nits (cd/m2)
Resolution	800 x 600	1024 x 768 (XGA) Native	1024 x 768 (XGA) Native	1024 x 768 (XGA) Native	1920 x 1080 (1080p)
Inputs	VGA, DVI, DisplayPort, HDMI	VGA, DVI, DisplayPort, HDMI	VGA, DVI, DisplayPort, HDMI	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite
Operating Temperature Range	-30°C to 80°C (-22°F to 176°F)	-30°C to 85°C (-22°F to 185°F)	-30°C to 85°C (-22°F to 185°F)	-30°C to 80°C (-22°F to 176°F)	-30°C to 75°C (-22°F to 167°F)
Rating	NEMA 4 / IP65	NEMA 4 / IP65	NEMA 4 / IP65	NEMA 4 / IP65	NEMA 4 / IP65

Model	SRD-PM-170	SRD-PM-185	SRD-PM-190	SRD-PM-215	SRD-PM-240
Display Size	17.0"	18.5"	19.0"	21.5"	24.0"
Brightness	1200 nits (cd/m2)	1500 nits (cd/m2)	1600 nits (cd/m2)	1200 nits (cd/m2)	1400 nits (cd/m2)
Resolution	1280 x 1024 (SXGA) Native	1920 x 1080 (1080p)	1280 x 1024 (SXGA) Native	1920 x 1080 (1080p)	1920 x 1080 (1080p) 1920 x 1200 (WUXGA)
Inputs	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite
Operating Temperature Range	-30°C to 70°C (-22°F to 158°F)	-20°C to 70°C (-4°F to 158°F)	-30°C to 85°C (-22°F to 185°F)	-20°C to 70°C (-4°F to 158°F)	-20°C to 70°C (-4°F to 158°F)
Rating	NEMA 4 / IP65	NEMA 4 / IP65	NEMA 4 / IP65	NEMA 4 / IP65	NEMA 4 / IP65

# Sunlight Readable Panel Mount Stainless Bezel LCDs

Model	SRD-PS-084	SRD-PS-121	SRD-PS-150	SRD-PS-156	SRD-PS-170
Display Size	8.4"	12.1"	15.0"	15.6"	17.0"
Brightness	1200 nits (cd/m2)	1200 nits (cd/m2)	1600 nits (cd/m2)	1500 nits (cd/m2)	1200 nits (cd/m2)
Resolution	800 x 600	1024 x 768 (XGA) Native	1024 x 768 (XGA) Native	1920 x 1080 (1080p)	1280 x 1024 (SXGA) Native
Inputs	VGA, DVI, DisplayPort, HDMI	VGA, DVI, DisplayPort, HDMI	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite
Operating Temperature Range	-30°C to 80°C (-22°F to 176°F)	-30°C to 80°C (-22°F to 176°F)	-30°C to 80°C (-22°F to 176°F)	-30°C to 75°C (-22°F to 167°F)	-30°C to 70°C (-22°F to 158°F)
Rating	NEMA 4X / IP66	NEMA 4X / IP66	NEMA 4X / IP66	NEMA 4X / IP66	NEMA 4X / IP66

Model	SRD-PS-185	SRD-PS-190
Display Size	18.5"	19.0"
Brightness	1500 nits (cd/m2)	1600 nits (cd/m2)
Resolution	1920 x 1080 (1080p)	1280 x 1024 (SXGA) Native
Inputs	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite
Operating Temperature Range	-20°C to 70°C (-4°F to 158°F)	-30°C to 85°C (-22°F to 185°F)
Rating	NEMA 4X / IP66	NEMA 4X / IP66



## Sunlight Readable VESA Mount LCDs

Model	SRD-VM-084	SRD-VM-104	SRD-VM-121	SRD-VM-133-ULP	SRD-VM-150
Display Size	8.4"	10.4"	12.1"	13.3"	15.0"
Brightness	1200 nits (cd/m2)	1300 nits (cd/m2)	1200 nits (cd/m2)	1500 nits (cd/m2)	1600 nits (cd/m2)
Resolution	800 x 600	1024 x 768	1024 x 768	1920 x 1080 (1080p)	1024 x 768
Inputs	VGA, DVI, DisplayPort, HDMI	VGA, DVI, DisplayPort, HDMI	VGA, DVI, DisplayPort, HDMI	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite
Operating Temperature Range	-30°C to 80°C (-22°F to 176°F)	-30°C to 85°C (-22°F to 185°F)	-30°C to 85°C (-22°F to 185°F)	-30°C to 70°C (-22°F to 158°F)	-30°C to 80°C (-22°F to 176°F)
Rating	NEMA 12 / IP50	NEMA 12 / IP50	NEMA 12 / IP50	NEMA 12 / IP50	NEMA 12 / IP50

Model	SRD-VMLP-150	SRD-VM-170	SRD-VM-185	SRD-VM-190	SRD-VM-215
Display Size	15.0"	17.0"	18.5"	19.0"	21.5"
Brightness	1600 nits (cd/m2)	1200 nits (cd/m2)	1500 nits (cd/m2)	1600 nits (cd/m2)	1200 nits (cd/m2)
Resolution	1024 x 768 (XGA) Native	1280 x 1024 (SXGA) Native	1920 x 1080 (1080p)	1280 x 1024 (SXGA) Native	1920 x 1080 (1080p)
Inputs	VGA, DisplayPort, HDMI	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite
Operating Temperature Range	-30°C to 80°C (-22°F to 176°F)	-30°C to 70°C (-22°F to 158°F)	-20°C to 70°C (-4°F to 158°F)	-30°C to 85°C (-22°F to 185°F)	-20°C to 70°C (-4°F to 158°F)
Rating	NEMA 12 / IP52	NEMA 12 / IP50	NEMA 12 / IP50	NEMA 12 / IP50	NEMA 12 / IP52

Model	SRD-VM-240	SRD-VM-270
Display Size	24.0"	27.0"
Brightness	1200 nits (cd/m2)	1000 nits (cd/m2)
Resolution	1920 x 1080 (HD 1080P) 1920 x 1200 (WUXGA) panel configuration dependent	1920 x 1080 (FHD 1080P) 3840 x 2160 (UHD 4K) panel configuration dependent
Inputs	VGA, DVI, DisplayPort, HDMI, SDI, Composite	DVI, DisplayPort, HDMI
Operating Temperature Range	-20°C to 70°C (-4°F to 158°F)	-20°C to 60°C (-4°F to 140°F)
Rating	NEMA 12 / IP52	NEMA 12 / IP52

## Sunlight Readable, Fully-Sealed VESA Mount LCDs

Model	SRD-FVM-133	SRD-FVM-150	SRD-FVM-156	SRD-FVM-185	SRD-FVM-190
Display Size	13.3"	15.0"	15.6"	18.5"	19.0"
Brightness	1500 nits (cd/m2)	1600 nits (cd/m2)	1500 nits (cd/m2)	1500 nits (cd/m2)	1600 nits (cd/m2)
Resolution	1920 x 1080 (1080p) – True High-Definition	1024 x 768 (XGA) Native	1920 x 1080 (1080p)	1920 x 1080 (1080p)	1280 x 1024 (SXGA) Native
Inputs	DVI, DisplayPort, HDMI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite
Operating Temperature Range	-30°C to 70°C (-22°F to 158°F)	-30°C to 80°C (-22°F to 176°F)	-30°C to 75°C (-22°F to 167°F)	-20°C to 70°C (-4°F to 158°F)	-30°C to 75°C (-22°F to 167°F)
Rating	NEMA 12 / IP52	NEMA 4 / IP65	NEMA 4 / IP65	NEMA 4 / IP65	NEMA 4 / IP65

## Sunlight Readable Tabletop LCDs

Model	SRD-T-150	SRD-T-170	SRD-T-185	SRD-T-190	SRD-T-215
Display Size	15.0"	17.0"	18.5"	19.0"	21.5"
Brightness	1600 nits (cd/m2)	1200 nits (cd/m2)	1500 nits (cd/m2)	1600 nits (cd/m2)	1200 nits (cd/m2)
Resolution	1024 x 768	1280 x 1024 (SXGA) Native	1920 x 1080 (1080p)	1280 x 1024 (SXGA) Native	1920 x 1080 (1080p)
Inputs	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite
Operating Temperature Range	-30°C to 80°C (-22°F to 176°F)	-30°C to 70°C (-22°F to 158°F)	-20°C to 70°C (-4°F to 158°F)	-30°C to 85°C (-22°F to 185°F)	-20°C to 70°C (-4°F to 158°F)
Rating	NEMA 12 / IP50	NEMA 12 / IP50	NEMA 12 / IP50	NEMA 12 / IP50	NEMA 12 / IP50

Model	SRD-T-240
Display Size	24.0"
Brightness	1400 nits (cd/m2)
Resolution	1920 x 1080 (1080p)
Inputs	VGA, DVI, DisplayPort, HDMI, SDI, Composite
Operating Temperature Range	-20°C to 70°C (-4°F to 158°F)
Rating	NEMA 12 / IP50

## Sunlight Readable Rack Mount LCDs

Model	SRD-RM-150	SRD-RM-190
Display Size	15.0"	19.0"
Brightness	1600 nits (cd/m2)	1600 nits (cd/m2)
Resolution	1024 x 768 (XGA) Native	1280 x 1024 (SXGA) Native
Inputs	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite
Operating Temperature Range	-30°C to 70°C (-22°F to 158°F)	-30°C to 85°C (-22°F to 185°F)
Rating	Rack Mountable	Rack Mountable

## Sunlight Readable, Open Frame Chassis Mount LCDs

Model	SRD-CM-104	SRD-CM-150	SRD-CM-215
Display Size	10.4"	15.0"	21.5"
Brightness	1200 nits (cd/m2)	1600 nits (cd/m2)	1200 nits (cd/m2)
Resolution	1024 x 768 (XGA) Native	1024 x 768 (XGA) Native	1920 x 1080 (1080p) – True High-Definition
Inputs	VGA, DVI, DisplayPort, HDMI	VGA, DVI, DisplayPort, HDMI, SDI, Composite	VGA, DVI, DisplayPort, HDMI, SDI, Composite
Operating Temperature Range	-30°C to 75°C (-22°F to 167°F)	-30°C to 80°C (-22°F to 176°F)	-20°C to 70°C (-4°F to 158°F)
Rating	Open Frame	Open Frame	Open Frame

# Contact Us

Ready to enhance your operations? Our team of specialists is here to help you find the perfect display solution for your demands. Contact us today to learn more about our sunlight-readable monitors and customization options.



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