AbraxSys Corporation

Specifications for Sunlight Readable Monitors

AbraxSys offers a comprehensive line of rugged high brightness LCD products with various ingress protection levels for use in direct sunlight. These sunlight readable displays are ideal for outdoor installation and high ambient lighting conditions where high-performance and daylight viewing are required. These monitors operate in high-dust, high-moisture, and both extreme hot and cold temperatures to ensure critical operational success.

FEATURES

	SRD-xx-084	SRD-xx-090	SRD-xx-104	SRD-xx-121	SRD-xx-133	SRD-xx-150	SRD-xx-156	SRD-xx-170	SRD-xx-185	SRD-xx-190	SRD-xx-215	SRD-xx-240	xx-240-WUXGA	SRD-xx-270	SRD-xx-270-4K
Diagonal Size (active area)	8.4"	9.0"	10.4"	12.1"	13.3"	15.0"	15.6"	17.0"	18.5"	19.0"	21.5"	24.0"	24.0"	27"	27"
Native Resolutions (pixels)	1024 x 768 (XGA)	1280 x 768 (WXGA)	1024 x 768 (XGA)	1024 x 768 (XGA)	1920 x 1080 (FHD)	1024 x 768 (XGA)	1920 x 1080 (FHD)	1280 x 1024 (SXGA)	1920 x 1080 (FHD)	1280 x 1024 (SXGA)	1920 x 1080 (FHD)	1920 x 1080 (FHD)	1920 x 1200 (WUXGA)	1920 x 1080 (FHD)	3840 x 2160 4K
Aspect Ratio	4:3	16:9.5	4:3	4:3	16:9	4:3	16:9	5:4	16:9	5:4	16:9	16:9	16:10	16:9	16:9
Brightness (nits, cd/m2)	1200 nits	800 nits	1300 nits	1200 nits	1500 nits	1600 nits	1500 nits	1200 nits	1500 nits	1600 nits	1200 nits	1400 nits	900 nits	1000 nits	900 nits
LED Backlit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
In-Plane Switching Technology	No	No	No	No	✓	No	✓	No	✓	No	✓	✓	✓	✓	✓
Contrast Ratio	750 to 1	1000 to 1	700 to 1	750 to 1	700 to 1	800 to 1	750 to 1	1000 to 1	1000 to 1	1000 to 1	4300 to 1	5000 to 1	1000 to 1	1000 to 1	1000 to 1
Colors	16,000,000	16,000,000	16,000,000	16,200,000	16,700,000	16,200,000	16,700,000	16,700,000	16,700,000	16,700,000	16,700,000	16,700,000	16,700,000	16,000,000	1.07 Billon Colors
Viewing Angles (left, right)	85° / 85°	85° / 85°	85° / 85°	80° / 80°	85° / 85°	80° / 80°	85° / 85°	89° / 89°	88° / 88°	89° / 89°	89° / 89°	89° / 89°	89° / 89°	89° / 89°	89° / 89°
Viewing Angles (up, down)	85° / 85°	85° / 85°	85° / 85°	80° / 80°	85° / 85°	70° / 80°	85° / 85°	89° / 89°	88° / 88°	89° / 89°	89° / 89°	89° / 89°	89° / 89°	89° / 89°	89° / 89°
Backlight Lifetime (Hrs)	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
AC Power option	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12V DC Power option	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24V DC Power option	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9-36V DC Power option	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20-53V DC Power option	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Operating Temperature	-30°C to 80°C	-30°C to 80°C	-30°C to 75°C	-30°C to 80°C	-30°C to 70°C	-30°C to 80°C	-30°C to 75°C	-30°C to 70°C	-20°C to 70°C	-30°C to 85°C	-20°C to 70°C	-20°C to 70°C	-10°C to 55°C	-20°C to 60°C	-20°C to 60°C
Storage Temperature	-30°C to 80°C	-30°C to 80°C	-30°C to 75°C	-30°C to 80°C	-30°C to 70°C	-30°C to 85°C	-30°C to 85°C	-30°C to 70°C	-20°C to 70°C	-30°C to 85°C	-30°C to 80°C	-30°C to 80°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Power Draw @ 12V DC															

Input & Mounting Specifications for Sunlight Readable Monitors

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INPUT OPTIONS

	SRD-xx-084	SRD-xx-090	SRD-xx-104	SRD-xx-121	SRD-xx-133	SRD-xx-150	SRD-xx-156	SRD-xx-170	SRD-xx-185	SRD-xx-190	SRD-xx-215	SRD-xx-240	xx-240-WUXGA	SRD-xx-270	SRD-xx-270-4K
VGA (HD15)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	No
DVI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DisplayPort	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HDMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Composite / S-video	No	No	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	No
SDI	No	No	No	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Composite BNC	No	No	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	No

MECHANICAL OPTIONS

	SRD-xx-084	SRD-xx-090	SRD-xx-104	SRD-xx-121	SRD-xx-133	SRD-xx-150	SRD-xx-156	SRD-xx-170	SRD-xx-185	SRD-xx-190	SRD-xx-215	SRD-xx-240	xx-240-WUXGA	SRD-xx-270	SRD-xx-270-4K
Panel Mount (NEMA 4 - IP65)	✓ xx = PM	✓ xx = PM	✓ xx = PM	✓ xx = PM	✓ xx = PM	✓ xx = PM	✓ xx = PM	✓ xx = PM	✓ xx = PM	✓ xx = PM	✓ xx = PM	✓ xx = PM	✓ xx = PM	No	No
Panel Mount (NEMA 4X - IP66)	✓ xx = PS	No	No	✓ xx = PS	✓ xx = PS	✓ xx = PS	✓ xx = PS	✓ xx = PS	✓ xx = PS	✓ xx = PS	✓ xx = PS	✓ xx = PS	✓ xx = PS	No	No
VESA Mount	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM	✓ xx = VM
Fully-Enclosed VESA Mount	✓ xx = FVM	No	No	✓ xx = FVM	✓ xx = FVM	✓ xx = FVM	✓ xx = FVM	✓ xx = FVM	✓ xx = FVM	✓ xx = FVM	✓ xx = FVM	✓ xx = FVM	✓ xx = FVM	No	No
RAM Mount	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Open-Frame Chassis Mount	✓ xx = CM	✓ xx = CM	✓ xx = CM	✓ xx = CM	✓ xx = CM	✓ xx = CM	✓ xx = CM	✓ xx = CM	✓ xx = CM	✓ xx = CM	✓ xx = CM	✓ xx = CM	✓ xx = CM	No	No
Benchtop / Tabletop	No	No	No	No	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
OEM Kit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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Specifications for Sunlight Readable Touchscreen Monitors

AbraxSys offers a comprehensive line of touchscreen, rugged high brightness LCD products with various ingress protection levels for use in direct sunlight. These sunlight readable displays are ideal for outdoor installation and high ambient lighting conditions where high-performance and daylight viewing are required. These monitors operate in high-dust, high-moisture, and both extreme hot and cold temperatures to ensure critical operational success.

TOUCHSCREEN OPTIONS

	xx-084	xx-090	xx-104	xx-121	xx-133	xx-150	xx-156	xx-170	xx-185	xx-190	xx-215	xx-240	xx-240-WUXGA	xx-270	xx-270-4K
Resistive	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hardened Armored Resistive	✓	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	No	No
Projected Capacitive	✓	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multi-Touch, up to 10 touches	✓	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

OPTIONS

	xx-084	xx-090	xx-104	xx-121	xx-133	xx-150	xx-156	xx-170	xx-185	xx-190	xx-215	xx-240	xx-240-WUXGA	xx-270	xx-270-4K
Extended Operational Temps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High Bright Sunlight Readable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Alternate Dimming Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Conformal Coating of Electronics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Private Labeling	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Custom Video Modes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Optical Bonding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Customizations	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Speakers	No	No	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Front or Rear User Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes