Specifications for Standard Brightness Monitors

AbraxSys offers a wide range of ultra-rugged industrial-grade LCD monitors for use in harsh-duty environments requiring higher performance, reliability, and dependable protection levels. These monitors operate in high-dust, high-moisture, and both extreme cold and heat to ensure mission-critical operation success. These exceptionally durable display products are commonly used for HMI (human-machine interface) solutions throughout industrial, marine, military, and commercial applications.

FEATURES

	xx-084	xx-090	xx-104	xx-121	xx-133	xx-150	xx-156	xx-170	xx-185	xx-190	xx-201	xx-215	xx-240	xx-240-WUXGA	xx-270	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″	20.1″	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)	1600 x 1200 UXGA)	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	5:4	16:9	16:9	16:10	16:9	16:9
Brightness (nits, cd/m2)	500 nits	400 nits	400 nits	500 nits	1500 nits	500 nits	400 nits	350 nits	500 nits	450 nits	330 nits	300 nits	300 nits	900 nits	1000 nits	900 nits
LED Backlit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
In-Plane Switching Technology	No	No	No	No	✓	✓	✓	No	✓	No	No	✓	✓	✓	✓	✓
Contrast Ratio	700:1	600:1	1400:1	700:1	700:1	2500:1	1500:1	1000:1	1000:1	1000:1	1400:1	5000:1	5000:1	1000:1	1000:1	1000:1
Colors	262,144	16,000,000	16,200,000	16,200,000	16,700,000	16,700,000	16,700,000	16,700,000	16,700,000	16,700,000	16,777,216	16,700,000	16,700,000	16,700,000	16,000,000	1.07 Billon Colors
Viewing Angles (left, right)	80° / 80°	88° / 88°	89° / 89°	80° / 80°	85° / 85°	88° / 88°	85° / 85°	85° / 85°	88° / 88°	85° / 85°	85° / 85°	89° / 89°	89° / 89°	89° / 89°	89° / 89°	89° / 89°
Viewing Angles (up, down)	60° / 80°	88° / 88°	89° / 89°	80° / 80°	85° / 85°	88° / 88°	85° / 85°	80° / 80°	88° / 88°	80° / 80°	85° / 85°	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	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 70°C	-30°C to 70°C	-30°C to 80°C	-30°C to 85°C	-30°C to 70°C	-30°C to 70°C	-20°C to 75°C	-30°C to 70°C	-20°C to 70°C	-30°C to 80°C	-10°C to 55°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 70°C	-30°C to 70°C	-30°C to 80°C	-40°C to 85°C	-30°C to 70°C	-40°C to 85°C	-20°C to 80°C	-30°C to 85°C	-20°C to 70°C	-30°C to 85°C	-25°C to 60°C	-20°C to 70°C	-20°C to 70°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Power Draw @ 12V DC																

AbraxSys Corporation

Input & Mounting Specifications for Standard Brightness Monitors

AbraxSys offers a wide range of ultra-rugged industrial-grade LCD monitors for use in harsh-duty environments requiring higher performance, reliability, and dependable protection levels. These monitors operate in high-dust, high-moisture, and both extreme cold and heat to ensure mission-critical operation success. These exceptionally durable display products are commonly used for HMI (human-machine interface) solutions throughout industrial, marine, military, and commercial applications.

INPUT OPTIONS

	xx-084	xx-090	xx-104	xx-121	xx-133	xx-150	xx-156	xx-170	xx-185	xx-190	xx-201	xx-215	xx-240	xx-240-WUXGA	xx-270	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

	xx-084	xx-090	xx-104	xx-121	xx-133	xx-150	xx-156	xx-170	xx-185	xx-190	xx-201	xx-215	xx-240	xx-240-WUXGA	xx-270	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	✓ 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	✓ 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	✓ 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	✓ 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	✓ xx = CM	No	No
Benchtop / Tabletop	No	No	No	No	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
OEM Kit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

AbraxSys Corporation

Specifications for Standard Brightness Touchscreen Monitors

AbraxSys offers a wide range of touchscreen, ultra-rugged industrial-grade LCD monitors for use in harsh-duty environments requiring higher performance, reliability, and dependable protection levels. These monitors operate in high-dust, high-moisture, and both extreme cold and heat to ensure mission-critical operation success. These exceptionally durable display products are commonly used for HMI (human-machine interface) solutions throughout industrial, marine, military, and commercial applications.

TOUCHSCREEN OPTIONS

	xx-084	xx-090	xx-104	xx-121	xx-133	xx-150	xx-156	xx-170	xx-185	xx-190	xx-201	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-201	xx-215	xx-240	xx-240-WUXGA	xx-270	xx-270-4K
Extended Operational Temps	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
High Bright Sunlight Readable	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Alternate Dimming Controls	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Conformal Coating of Electronics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Private Labeling	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Custom Video Modes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Optical Bonding	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Customizations	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Speakers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Front or Rear User Controls	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓