SRM–121/150

12.1"/15" Sunlight Readable TFT LCD Monitor

1 Automation

2 Point of Service

3 Digital Signage

4 RISC-based Solutions

5 Medical Solutions

Fanless — SRM Series

With Auto-Dimming Function

- Super High Brightness
- Auto-Dimming
- Anti-Reflection
- Wide Temperature
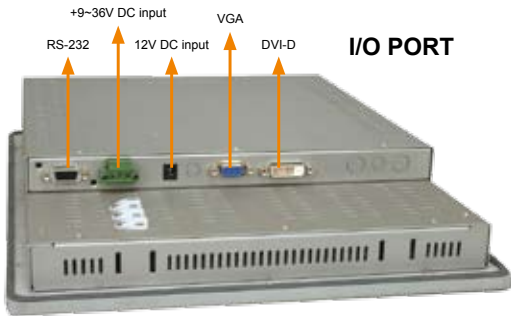- IP65
- smart OSD

Open Frame — SRM-KIT Series

- Super High Brightness
- Auto-Dimming
- Anti-Reflection
- Wide Temperature
- smart OSD

I/O PORT

RS-232   +9~36V DC input   12V DC input   VGA   DVI-D

Features

1. 800 and 1000nits Super high brightness
2. Superior Fanless Design
3. 12.1" anti-reflection technology reduces light reflection and high transmission rate to prevent light loss or distortion
4. Adjustable auto-dimming function
5. Wide Operating Temperature:-10ºC~+60ºC
6. OSD lock secures your settings
7. IEI patent software OSD support
8. Nature Color Matrix (NCM) Technology
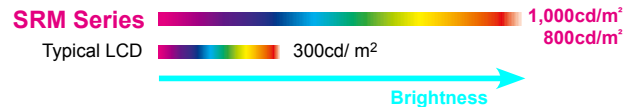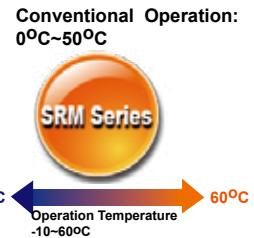9. IP 65 Front Panel Compliant

Super High Brightness

Typical high brightness monitors usually have more than six CCFLs, but the IEI SRM monitors have super high brightness with only four CCFLs. IEI SRM panels are still readable in bright sunlight with fewer backlights and thereby not increasing power consumption or producing extra heat.

SRM Series   1,000cd/m²
800cd/m²

Typical LCD   300cd/ m²

Brightness

Specifications

New! 12.1"XGA

Model	SRM-121GS SRM-KIT121G	SRM-121XA SRM-KIT121XA	SRM-150GS SRM-KIT150G
LCD Size	12.1"	12.1"	15"
Max Resolution (H x V)	800 x 600 (SVGA)	1024 x 768 (XGA)	1024 x 768 (XGA)
Brightness (cd/m²)	1000	1000	800
Contrast Ratio	700:1	700:1	600:1
Display Color	262k	262k	262k
View Angle (H/V)	130°/120°	120°/120°	150°/110°
Pixel Pitch (mm)	0.3075	0.240	0.297
Operating Temperature	-10°C ~ +60°C		
Storage Temperature	-20°C ~ +70°C		
Lamp Life Time	50000hrs		
Input Interface	Analog VGA , DVI-D		
Front Frame	Aluminum		
Chassis	Heavy-duty Steel		
OSD Function	Yes		
Smart OSD	Yes		
Input Voltage	+12VDC/+ 9 ~ +36VDC(optional) +12VDC		
Mounting	Wall/Panel/Rack/Arm/Stand Rack		
Front Panel Protection	IP65 Compliant N/A		
Power Consumption	25W		30W
Net Weight	3.3kgs		6kgs
Dimension (W x H x D mm)	340 x 260 x 58 316 x 224.4 x 47.9		410 x 309 x 65.2 364.1 x 262.5 x 46

Wide Temperature Range

Extended IEI environment testing is performed to ensure the SRM series continue to function properly over its entire services life in a wide working temperature range of -10°C to +60°C in order to accommodate a diverse industrial applications such as outdoor kiosks in winter and summer.

Conventional Operation: 0ºC~50ºC

SRM Series

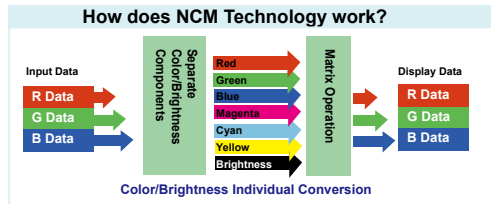-10ºC   60ºC

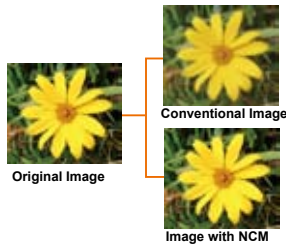Operation Temperature -10~60ºC

Superior fanless design and low power consumption

SRM models are fanless and therefore use less power and are more silent than conventional high brightness monitors that generally use several high-speed cooling fans. SRM models use between 25W and 30W of power compared to the 40W to 50W used by conventional high-brightness monitors

Natural Color Matrix (NCM) Technology

POS terminals and kiosks often display advertisements and colorful images, the colors of which must remain vivid and faithful to the original.

The IEI SRM monitor with NCM optimization technology prevents this difference by separating color data and luminance components while controlling individual display colors for optimized performance.
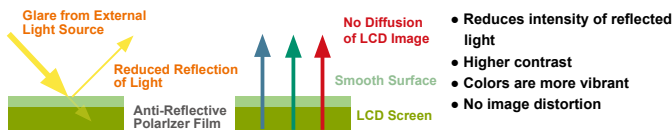
Original Image

Conventional Image

Image with NCM

How does NCM Technology work?

Input Data
- R Data
- G Data
- B Data

Separate Color/Brightness Components

- Red
- Green
- Blue
- Magenta
- Cyan
- Yellow
- Brightness

Matrix Operation

Display Data
- R Data
- G Data
- B Data

Color/Brightness Individual Conversion

Low Reflection through Anti-Reflection Technology

SRM-121GS

Outdoor applications in daylight or other bright environments require technology that can suppress surface reflection. The SRM-121GS has special AR (anti-reflection) surface treatment to prevent reflection, ensuring excellent visibility in daylight conditions.

How does Anti-Reflection Surface work?

Glare from External Light Source

Reduced Reflection of Light

Anti-Reflective Polarizer Film

No Diffusion of LCD Image

Smooth Surface

LCD Screen

- Reduces intensity of reflected light
- Higher contrast
- Colors are more vibrant
- No image distortion

12.1" XGA High Resolution

NEW

SRM-121XA series supports higher resolutions and smaller pixel pitches (0.24mm versus 0.24mm) to deliever great displays. Higher resolution of a high-density display allows more viewable content so that the user does not have to scroll as much to view the entire spreadsheet.

12.1" SVGA Screen Capture   **12.1" XGA Screen Capture**

25%

25%

XGA Higher Resolution
- Present vivid and fine display quality
- Increase viewable content

Mounting Kits Information

	SRM-121GS	SRM-150GS
Panel Mount Kit	PK-170M	
Wall Mount Kit	WK-190MS-R10	
Rack Mount Kit	RK-121MS-R10	RK-150MS-R10
LCD Monitor Arm	ARM-11	ARM-31
LCD Monitor Stand	STAND-100-RS/STAND-150-RS	STAND-210-RS

Packing List

1 X AC Power Cable	1 X User Manual-CD ROM
1 X VGA Cable	1 X Power Cable for Terminal Block (For M model only)
1 X DVI cable	1 X Touch Screen RS-232 Cable / Touch Pen / Driver CD ROM (For T-R model only)
1 X 45W AC Power Adapter	1 X Touch Screen USB Cable / Touch Pen / Driver CD ROM (For USB / T-R model only)
1 X Screw set	

Innovative Auto-Dimming Function

IEI SRM series with auto-dimming functioin can adjust brightness according to ambient light, so that SRM series can job properly under different lamp house average, and outdoor environment. This function not only saves unnecessarybrightness that strains eyes strained and makes you tire but also saves energy saving.

The SRM series auto-dimming default settings can be easily customized with the OSD menu to suit any environment.

Adjustable Backlight

NEW

Adjustable Ambient Brightness

Ordering Information

Note: The smartOSD function is supported by revision 11 models and above

12.1" SVGA SRM Series

Model	Description
SRM-121GS-R11/T-R	12.1" 1000cd/m² Sun Readable SVGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/12.1" Touch Screen, RoHS
SRM-121GS-USB-R11/T-R	12.1" 1000cd/m² Sun Readable SVGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/12.1" USB Touch Screen, RoHS
SRM-121GMS-R11/T-R	12.1" 1000cd/m² Sun Readable SVGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/9~36V DC input , w/12.1" Touch Screen, RoHS
SRM-121GMS-USB-R11/T-R	12.1" 1000cd/m² Sun Readable SVGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/9~36V DC input, w/12.1" USB Touch Screen, RoHS

(9~36V DC)

12.1" XGA SRM Series

NEW

Model	Description
SRM-121XA-R10/T-R	12.1" 1000cd/m² Sun Readable XGA LCD Monitor,Aluminum Front Panel,Silver Color,w/VGA and DVI-D input, w/12.1" Touch Screen, RoHS
SRM-121XA-USB-R10/T-R	12.1" 1000cd/m² Sun Readable XGA LCD Monitor,Aluminum Front Panel,Silver Color,w/VGA and DVI-D input, w/12.1" USB Touch Screen, RoHS
SRM-121XMA-R10/T-R	12.1" 1000cd/m² Sun Readable XGA LCD Monitor,Aluminum Front Panel,Silver Color,w/VGA and DVI-D input,w/9~36V DC input, w/12.1" Touch Screen, RoHS
SRM-121XMA-USB-R10/T-R	12.1" 1000cd/m² Sun Readable XGA LCD Monitor,Aluminum Front Panel,Silver Color,w/VGA and DVI-D input,w/9~36V DC input, /12.1" USB Touch Screen, RoHS

(9~36V DC)

15" XGA SRM Series

Model	Description
SRM-150GS-R11/T-R	15" 800cd/m² Sun Readable XGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/15" Touch Screen, RoHS
SRM-150GS-USB-R11/T-R	15" 800cd/m² Sun Readable XGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/15" USB Touch Screen, RoHS
SRM-150GMS-R11/T-R	15" 800cd/m² Sun Readable XGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/9~36V DC input , w/15" Touch Screen, RoHS
SRM-150GMS-USB-R11/T-R	15" 800cd/m² Sun Readable XGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/9~36V DC input , w/15" USB Touch Screen, RoHS

(9~36V DC)

12.1"/15" SRM-KIT Series

Model	Description
SRM-KIT121G-R11	12.1" 1000 cd/m² Sun Rdadable SVGA TFT LCD kit, VGA and DVI-D input, RoHS
SRM-KIT121XA-R10	12.1" 1000 cd/m² Sun Rdadable XGA TFT LCD kit,VGA and DVI-D input, RoHS
SRM-KIT150G-R11	15" 800 cd/m² Sun Rdadable XGA TFT LCD kit, VGA and DVI-D input, RoHS

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