Industrial Display Solution

Waterproof and durable displays are essential in today's commercial and industrial applications. IEI's versatile line of IP 64/65 compliant shock and vibration resistant industrial display solutions are designed specifically to endure the rigorous demands of modern commerce and industrial environments. These displays are easily integrated into diverse applications including automation, ATM machines and human machine interfaces (HMI).

ISDM Series

Available in 8.4 "~ 19"

LCD-KIT Series

Available in 6.5"~ 19'

(Industrial Stainless Display Monitor)

Total Display Solutions

Industrial Rugged LCD Monitor

DM Series (Industrial Display Monitor) Available in 6.5"~ 19"

2. 800/1000 nits super high brightness (SRM Series)

Stainless steel front bazel (ISDM Series)

5. Open frame monitor (LCD-KIT Series)

3. -30°C~70°C extended operating temperature (TDM Series)

1. IP 65 front panel compliance

Light Industry LCD Monitor



vice Automation

AFOLUX Touch Monitor Series

(Affordable Luxury Touch Monitor) Available in 7" ~19"



Multi-function

MDM Series

(Multimedia Display Monitor) Available in 15"~19"

1. IP 64/65 front panel compliance **MDM-W201S**

2. High Resolution and excellent video image

4. Picture in picture function

5. Ambient light sensor

6. Remote control for OSD functions

(Wide Screen Multimedia Display Monitor)

Features

TDM Series

(Wide Temperature Display Monitor) Available in 12.1 "~ 15"

SRM Series

Available in 12.1 "~ 15"

(Sunlight ReadableDisplay Monitor)



Auto-

IP65 Waterproof front panel

IP65 standard is the highest dusty, water and oil proof level in general usage. It absolutely prevents any micro-particle into the system from front panel, and let the system adapting harsh environment.

| First Numerical | | | Second Numerical |
|------------------------------|------|---------------------------|--------------------------------------------|
| Protection against solid boo | dies | Protection against liquid | |
| No Protection | 0 | 0 | No Protection |
| Objects Greater Than 50mm | 1 | 1 | Vertically Dripping Water |
| Objects Greater Than 12mm | 2 | 2 | 75 - 90° Sprayed water |
| Objects Greater Than 2.5mm | 3 | 3 | 30 - 90° Sprayed water |
| Objects Greater Than 1.0mm | 4 | 4 | Water sprayed - low pressure |
| Dust-Protected | 5 | 5 | Water jets - low pressure |
| Dust-Tight | 6 | 6 | Water jets – high pressure - Heavy Seas |
| | | 7 | Temporary immersion |
| | | 8 | Indefinite Immersion |

Typical monitors can only be used in environments that have temperatures in the 0°C~50°C range, Extended IEI environmental testing is performed to ensure the TDM series continues to function properly over its entire service life in a wide working temperature range of -30°C to +70°C.

IEI SRM monitors are still readable in bright sunlight at

800 and 1000 nits of brightness. Typical high brightness

IEI SRM monitors have super high brightness with only

four CCFLs. With fewer backlights not increasing power

monitors usually have more than six CCFLs, but the

Outdoor applications in daylight or other bright

environments require technology that can suppress

surface reflection. The SRM series has special AR

(anti-reflection) surface treatment to prevent reflection, ensuring excellent visibility in daylight conditions.

consumptioin or produing extra heat.



An intelligent and easy to use proprietary On-Screen-Display (OSD) software for all the IEI LCD monitors to remote control the OSD functions from the systems via VGA/DVI video cable.

Light industry LCD monitors integrated with multiple video inputs through common video connectors including VGA, DVI-D,S-Video, component and BNC/Composite video input interfaces. The 5-in-1 system connects to a wide range of devices and most electronic appliances. (The AFL-07M/08M/10M/12M has a 4-in-1 system with VGA,S-Video, Component and Composite)



Light industry LCD monitors have PIP function enabling a second video/image to be viewed in a small on-screen window



a remote controller ensuring easy OSD functions configuration.

under different lamp house average, and outdoor environment. This function not only saves unnecessary brightness that strains eyes strained and makes you tire but also saves energy saving.

brightness according to ambient light, so that monitors can job properly

IEI SRM and MDM series with auto-dimming function can adjust

Monitor-Intro-V10 10-85

IEI smartOSD

Software OSD for IEI LCD Monitors



IEI smartOSD is an intelligent and easy to use proprietary On-Screen-Display (OSD) software especially designed for IEI display monitors. It delivers excellent performance and flexibility over hardware OSD solution in the monitor unit. User can adjust monitor from smartOSD under Windows environment from the remote system instead of adjustment from front panel. The smartOSD allow you read and change such monitor settings as brightness, contrast, color and more enhanced features over normal video cable (VGA or DVI).

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

Directly controls IEI display device through standard video cables!





Various Remote Management Functions

- EDID Reading
- Image/Color/Display Setting
- Power Management
- OSD Lock/Unlock
- · PIP Control



Overcome Operation Obstacles

Distance, location and multiple display units no longer present any obstacles when controlling the monitors with the smartOSD.



Multiple Control Displays



Untouchable Location

DVI cable



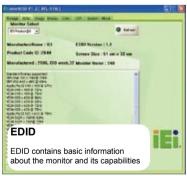
Remote Control

• 100% Compatible With VESA DDC/CI Protocol

IEI LCD monitors are implemented with the VESA DDC/CI protocol and the standard VESA Monitor Control Command Set (MCCS). Compliance software for designing displays compatible with VESA's DDC/CI and MCCS standards are easily modified and applied in other application programs.

Various Remote Management Functions

1.EDID



4. Color Setting



2.Image Setting



5. Picture in Picture Setting



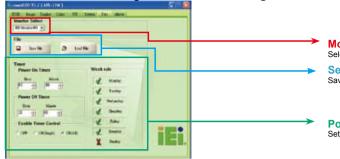
3. Display Setting



6. System Setting



7. Monitor Power Management and File Saving



Monitor Select

Selects the monitor unit for which the system parameters will be adjusted

Settings SavingSave the referred settings of all the OSD functions as .dat files and load the settings

Power Management
Setting the monitor power on/off by time and week

Valuable for Project Base

The smartOSD can be very useful in many projects:

(1) Easy Configuration of Multiple Monitors

(2) Fast Configuration of Multiple Monitors

Unlimited smartOSD setting configurations can be stored in the memory thereby enabling you to change or choose between memorized configuration modes more quickly.

(3)Smart Power Management



Supermarket Daily Product Promotion

Different memorized settings enable you to easily configure your screen according to the promotion goods to deliver the greatest image to the viewers.



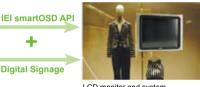
LCD monitor automatically turns on at 7 a.m. and turns off at 10 p.m. from Sunday to Monday

Modifiable for Customization Service

IEI OSD software is based on the VESA protocol standards and can be customized through a commandlibrary using customer defined MSSC commands. This programming feature supports easier software development.



LCD monitor and system automatically turns on at



LCD monitor and system automatically turns off at 12 p.m.



Outdoor Digital Signage Power Management

Industrial Rugged LCD Monitor

To meet your specific needs, IEI offers several display lines (listed below) are available from IEI to fit your versatile monitor needs:



Industrial Display Monitor

The DM series displays are flexible, durable systems that are easily integrated into a wide variety of general-purpose industrial applications including HMI, factory automation and process control.

DM Series

Sizes: 6.5" to 19"

Industrial Stainless Steel Display Monitor

acids, alkaline solutions and chlorinated environments that are commonly found in processing plants. In addition, the easy cleaning ability of stainless steel makes it the first choice for strict hygiene environments such as hospitals, kitchens, abattoirs and other food processing facilities.



The ISDM series features a stainless steel frame and chassis that can resist most corrosive



Sunlight Readable Monitor

The SRM series is designed to operate in high ambient lighting conditions at 800 nits or 1000 nits of brightness within extended operating temperature ranges and is especially designed for outdoor use under direct or indirect sunlight.



Sizes: 12.1" to 15"

Wide Temperature Display Monitor

The TDM series offers an extended operational temperature range of -30°C ~ +70°C that can tolerate temperature extremes in harsh operating environment, both indoors and out.

TDM Series

Sizes: 12.1" to 15"







Food Processing Plant





Outdoor Kiosk



Steel Refining



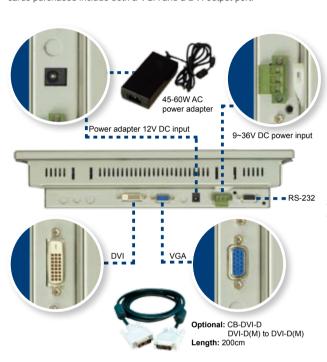


Ultra-Cooling Condition

Industrial Rugged LCD Monitor Advanced Features

Support analog VGA or DVI input

DM series support both analog VGA and DVI input. DVI (Digital Video Interface) is a replacement for the P&D, Plug & Display, standard, and a step up from the digital-only DFP format for older flat panels. DVI is becoming increasingly popular with video card manufacturers, and most cards purchased include both a VGA and a DVI output port.



■ M models support 9~36V DC power input for mobile application

DM M models support 9~36V DC power input. Factories and mobile environment such as cars and engineer vehicles usually use not only 12V but also 24V DC as power source, 9~36V power input solution could adapt more appliance requirement.



■ IP 65 Waterproof Aluminum front panel

IP65 standard is the highest dusty, water and oil proof level in ground usage, it absolutely prevents any micro-particle into the system from front panel, and let the system adapting harsh environment.





■ Full OSD Function in the front panel

IEI DM Series with full OSD function in the front panel, users can easily configure all monitor functions by the water proof OSD function keys. When using this OSD which located in the front panel, user can change the brightness of LCD panel and extend



LCD ON/OFF Auto-adjust / ESC LEFT RIGHT MENU / SELECT POWER Indicator

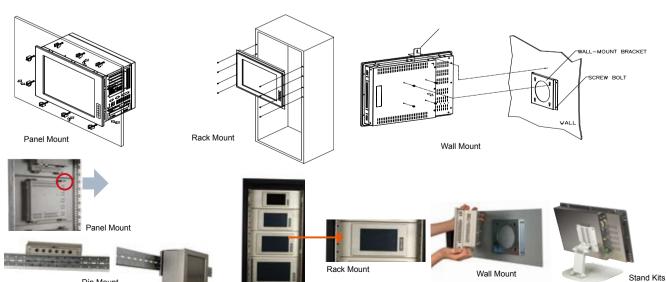
· OSD lock secures your settings Pressing left and right buttons eight seconds, the OSD funtions will be locked. Press eight seconds again, the OSD functions will be unlocked.

■ Hi-optical RS-232 interface touch screen

DM series provides RS-232 reserved port for touch screen. IEI DM provides T-R model with high strength Fiber Glass Touch Screen for appliances.



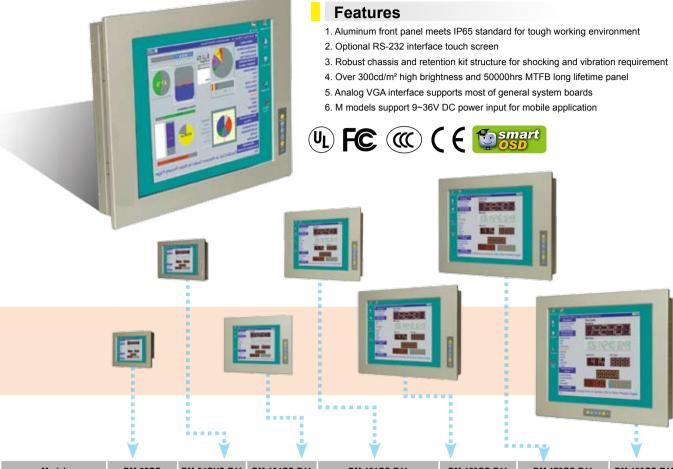
IEI Quick Mounting Technology



Din Mount

DM Series

6.5"~19" IP 65 industrial monitors, Robust, Shock Resistance and **OSD** Funcation



| Model | DM-65GS | DM-84GHS-R11 | DM-104GS-R11 | DM-1 | 21GS-R11 | DM-150GS-R11 | DM-170GS-R11 | DM-190GS-R11 |
|-----------------------------|-----------------------------|----------------------|-------------------------------------|---------|----------------------|--------------------|----------------------|----------------|
| LCD Size | 6.5" | 8.4" | 10.4" | 12.1" | | 15" | 17" | 19" |
| Input Interface | Analog VGA | Analog VGA | Analog VGA | | | Analog VGA + DVI-D | | |
| Max Resolution | 640 x 480 | 800 x 600 | 800 x 600 | | 0 x 600/ 24 x 768 | 1024 x 768 | 1280 x 1024 | 1280 x 1024 |
| Brightness (cd/m²) | 400 / 500 | 400 | 230 / 400 | 40 | 00 / 450 | 350 | 300 | 300 |
| Contrast Ratio | 550 : 1 | 500 : 1 | 500 : 1 | 500 : | 1 / 700 : 1 | 400:1 | 500:1 | 700:1 |
| Display Color | 262K | 262K | 262K | : | 262K | 262K | 16.2M | 16.2M |
| Pixel Pitch (mm) | 0.207 | 0.213 | 0.264 | 0.307 | 75 / 0.240 | 0.297 | 0.264 | 0.294 |
| Front Frame | | | Aluminum | | | | | |
| Chassis | Heavy-duty steel | | | | Heavy-duty | steel | | |
| View Angle (H/V) | 140/120 | 120/100 | 120/100 | 140/110 | 160/160 | 120/100 | 140/130 | 140/130 |
| Input Voltage | 12VDC | | | | 12VDC or 9- | 36VDC | | |
| OSD function | Yes | Yes | Yes | Yes | | Yes | Yes | Yes |
| Smart OSD | | | | | Yes | | | |
| Mounting | Wall/Arm/Din/ Panel/Rack | | Wall/Panel/Rack/Arm (100x100)/Stand | | | | | |
| Color | | | | | Silver | | | |
| Dimension (W x H x D mm) | 183 x 143 x 41 | 244 x 178 x 49 | 312 x 242 x 53 | 340 > | x 260 x 58 | 410 x 309 x 55.1 | 452.0 x 356.0 x 65.2 | 482 x 399 x 73 |
| Operating Temperature | | 0~50°C | | | | | | |
| Front Panel Protection | | | | | IP65 | | | |
| Net Weight | 1 kg | 1.8 kgs | 3 kgs | 3 | .8 kgs | 6 kgs | 8.6 kgs | 10 kgs |
| Power Adapter | 25W, 63 | 000-UP0251E12PL02-RS | | | 4 | 5W, 63000-UP0451E | E12P81L-RS | |

Industrial Monitor

Mounting Kits Information

| | DM-65GS | DM-84GS | DM-104GS | DM-121GS | DM-150GS | DM-170GS | DM-190GS | |
|-------------------|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| Panel Mount Kits | PK-65M | PK-84M | PK-104M | | PK-170M | | PK-190M | |
| Wall Mount Kits | WK-065MS-R10 | | WK-190 | | | | | |
| Rack Mount Kits | RK-065MS-R10 | RK-084MS-R10 | RK-104MS-R10 | RK-121MS-R10 | RK-150MS-R10 | RK-170MS-R10 | RK-190MS-R10 | |
| Din Mount Kits | DK-84 | MS | S | | | N/A | | |
| LCD Monitor Arm | | ARM- | 11 | ARM-31 | | | | |
| LCD Monitor Stand | STAND-100-RS/STAND-150-RS | | | | | STAND-210-RS | | |

Packing List

| Description | Remark |
|----------------------------------------------------------|---------------------------------------------|
| 1 x AC Power Cable | |
| 1 x VGA Cable | |
| 1 x 45W AC Power Adapter | For DM-121GS / 150GS / 170GS / 190GS series |
| 1 x 25W AC Power Adapter | For DM-65GS / 84GS / 104GS series |
| 1 x User Manual | |
| 1 x Power Cable for Terminal Block | For M model ONLY |
| 1 x Touch Screen RS-232 Cable / Touch Pen / Driver CDROM | For T-R model |
| 1 x Touch Screen USB Cable / Touch Pen / Driver CDROM | For USB/T-R model |

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

| art No. | Description |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|
| M-65GS/T-R | 6.5" 400cd/m² VGA LCD Monitor,Aluminum Front Panel,Silver Color,W / Touch Screen,RoHS |
| M-65GHS/T-R | 6.5" 500cd/m² High Luminance VGA LCD Monitor with VGA, Aluminum Front Panel, Silver Color, W/8.4" Touch Screen, RoHS |
| M-84GHS-R11/T-R | 8.4" 450cd/m² High Luminance SVGA LCD Monitor, Aluminum Front Panel, Silver Color, W / Touch Screen, RoHS |
| M-84GHMS-R11/T-R | 8.4" 450cd/m² High Luminance SVGA LCD Monitor, Aluminum Front Panel, Silver Color, W / Touch Screen, 9~36V DC input, RoHS |
| M-104GS-R11/T-R | 10.4" 230cd/m² SVGA LCD Monitor, Aluminum Front Panel, Silver Color, W / Touch Screen, RoHS |
| M-104GMS-R11/T-R | 10.4" 230cd/m² SVGA LCD Monitor, Aluminum Front Panel, Silver Color, W / Touch Screen, 9~36V DC input, RoHS |
| M-104GHS-R11/T-R | 10.4" 400cd/m² High Luminance SVGA LCD Monitor, Aluminum Front Panel, Silver Color, W / Touch Screen, RoHS |
| M-104GHMS-R11/T-R | 10.4" 400cd/m² High Luminance SVGA LCD Monitor, Aluminum Front Panel, Silver Color, W / Touch Screen, 9~36V DC input, RoHS |
| M-121GS-R11/T-R | 12.1" 400cd/m² SVGA LCD Monitor, Aluminum Front Panel, Silver Color,W / Touch Screen,RoHS |
| M-121GMS-R11/T-R | 12.1" 400cd/m² SVGA LCD Monitor, Aluminum Front Panel, Silver Color,W / Touch Screen,9~36V DC input,RoHS |
| M-121GS-USB-R11/T-R | 12.1" 400cd/m² SVGA LCD Monitor, Aluminum Front Panel, Silver Color, W/12.1" USB Touch Screen, RoHS |
| M-121GMS-USB-R11/T-R | 12.1" 400cd/m² SVGA LCD Monitor,Aluminum Front Panel,Silver Color,W/12.1" USB Touch Screen,9~36V DC input,RoHS |
| M-121GXS-R11/T-R | 12.1" 450cd/m² XGA LCD Monitor, Aluminum Front Panel, Silver Color,W / Touch Screen,RoHS |
| M-121GXMS-R11/T-R | 12.1" 450cd/m² XGA LCD Monitor, Aluminum Front Panel, Silver Color,W / Touch Screen,9~36V DC input,RoHS |
| M-121GXS-USB-R11/T-R | 12.1" 450cd/m² XGA LCD Monitor, Aluminum Front Panel, Silver Color, W/12.1" USB Touch Screen, RoHS |
| M-121GXMS-USB-R11/T-R | 12.1" 450cd/m² XGA LCD Monitor, Aluminum Front Panel, Silver Color, W/12.1" USB Touch Screen, 9~36V DC input, RoHS |
| M-150GS-R11/T-R | 15" 350cd/m² XGA LCD Monitor, Aluminum Front Panel, Silver Color,W / Touch Screen,RoHS |
| M-150GMS-R11/T-R | 15" 350cd/m² XGA LCD Monitor, Aluminum Front Panel, Silver Color,W /Touch Screen,9~36V DC input,RoHS |
| M-150GS-USB-R11/T-R | 15" 350cd/m² XGA LCD Monitor,Aluminum Front Panel,Silver Color,W/15" USB Touch Screen,RoHS |
| M-150GMS-USB-R11/T-R | 15" 350cd/m² XGA LCD Monitor,Aluminum Front Panel,Silver Color,W/15" USB Touch Screen,9~36V DC input,RoHS |
| M-170GS-R11/T-R | 17" 300cd/m² SXGA LCD Monitor, Aluminum Front Panel, Silver Color,W / Touch Screen,RoHS |
| M-170GMS-R11/T-R | 17" 300cd/m² SXGA LCD Monitor, Aluminum Front Panel, Silver Color,W / Touch Screen,9~36V DC input,RoHS |
| M-170GS-USB-R11/T-R | 17" 300cd/m² SXGA LCD Monitor, Aluminum Front Panel, Silver Color, W/17" USB Touch Screen, RoHS |
| M-170GMS-USB-R11/T-R | 17" 300cd/m² SXGA LCD Monitor, Aluminum Front Panel, Silver Color, W/17" USB Touch Screen, 9~36V DC input, RoHS |
| M-190GS-R11/T-R | 19" 300cd/m² SXGA LCD Monitor, Aluminum Front Panel, Silver Color,W / Touch Screen,RoHS |
| M-190GMS-R11/T-R | 19" 300cd/m² SXGA LCD Monitor, Aluminum Front Panel, Silver Color,W / Touch Screen,9~36V DC input,RoHS |
| M-190GS-USB-R11/T-R | 19" 300cd/m² SXGA LCD Monitor, Aluminum Front Panel, Silver Color, W/19" USB Touch Screen, RoHS 7 |



Application Server

Single Board Compute

J IBX Serie POS PC

AFOLUX POS Panel PC

Video Capture Card

> 6 KAMIO RISC

7 IOVU Open HMI

VITO Universal Controller

> 9 DINO BLADE

10 LCD Product Series

Embedded System

12
Industrial
Compute

13 Power

14 Peripherals

TDM-121/150GMS

12.1"/15" Wide Range Temperature TFT LCD Monitor





Features

- 1. Wide Operating Temperature: -30°C~+70°C
- 2. 12.1" XGA High Resolution
- 3. Superior Image
- 4. M models support 9~36V DC power input for mobile application
- 5. DVI-D and Analog VGA input interface for comprehensive usage
- 6. IP 65 Compliant













Specifications

| Model | TDM-121GMS-R11 | TDM-150GMS-R11 | |
|-----------------------------|---------------------------|------------------|--|
| LCD Size | 12.1" | 15" | |
| Max Resolution (H x V) | 1024 x 7 | 768 (XGA) | |
| Brightness (cd/m²) | 4 | 50 | |
| Contrast Ratio | 70 | 00:1 | |
| Display Color | 260k | 16M | |
| View Angle (H/V) | 160 | 0/160 | |
| Pixel Pitch (mm) | 0.24 | 0.297 | |
| Operating Temperature | -30°C ~ +70°C | | |
| Storage Temperature | -40°C ~ +80°C | | |
| Lamp Life Time | 50000hrs | | |
| Input Interface | Analog VGA , DVI-D | | |
| Front Frame | Aluminum | | |
| Chassis | Heavy-o | duty Steel | |
| OSD Function | Y | ⁄es | |
| Smart OSD | Yes | | |
| Input Voltage | +9~+36V DC power input | | |
| Mounting | Wall/Panel/Rack/Arm/Stand | | |
| Front Panel Protection | IP65 Compliant | | |
| Net Weight | 3.3kgs | 6kgs | |
| Dimension (W x H x D mm) | 340 x 260 x 58 | 410 x 309 x 55.1 | |

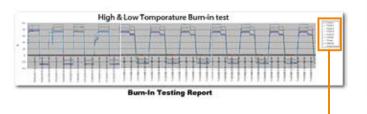
IEI Strict Design Quality Verification

Typical monitors can only be used in environments that have temperatures in the 0°C~50°C range, Extended IEI environmental testing is performed to ensure the TDM series continues to function properly over its entire service life in a wide working temperature range of -30°C to +70°C. After being tested in the -30°C to +70°C temperature range, the TDM series was found to maintain its original luminance.





To assure the TDM can function properly in harsh working environment, the internal temperature of test chember was set in the range - 30°C to *70°C.



Nine thermocouples record all the temperature variations during the burn-in test and the TDM monitor functions during the test.

Application Server

Single Board

3 IBX Series

AFOLUX POS Panel PC

Video Capture Card

KAMIO RISC

IOVU Open HMI

> ITO niversal ontroller

OINO BLADE

10 LCD Product Series

11 Embedded System

12
Industrial
Computer
Chassis

13 Power Supply

14
Peripherals

12.1" XGA Resolution: 1024X768

The TDM-121GMS supports higher resolutions and smaller pixel pitches (0.24mm versus 0.24mm) to deliver great computer displays.





TDM-121GMS

High Brightness: 450cd/m²

With a luminance of 450 cd/m², the TDM series offer an improvement over the 250 to 300cd/m² luminance typically available with other 12.1-inch TFT LCD modules. The high-brightness feature ensures the screen content is highly visible in all lighting conditions





Normal Brightness

High Brightness

Wide Viewing Angles:160°

Typical small size monitors only support 130°/110° (H/V) viewing angle, but IEI TDM series can support maximum of viewing angle up to 160°/160° (H/V). Wide viewing angles let you not lose the screen brightness and possibly a change of displayed colors, when you view the monitor from the side.



TDM Series Viewing Angle (H/V) ≒160°/160°



Mounting Kits Information

| | TDM-121GMS | TDM-150GMS |
|-----------------|---------------------------|--------------|
| Panel Mount Kit | PK-170M | PK-170M |
| Wall Mount Kit | WK-190MS-R10 | WK-190MS-R10 |
| Stand | STAND-100-RS/STAND-150-RS | STAND-200-RS |
| Arm | ARM-11-RS | ARM-31-RS |
| Rack Mount Kit | RK-121MS-R10 | RK-150MS-R10 |

Packing List

| 1 X TDM LCD monitor | 1 X Screw set |
|------------------------------------|-------------------------------------------------------------------------------|
| 1 X Power cable for terminal block | 1 X Touch Panel RS-232 Cable/Touch Pen/Driver CD-ROM (For T-R model only) |
| 1 X VGA cable | 1 X 45W AC power adapter / AC power card (Operating Temperature : 0°C~ +40°C) |
| 1 X User manual on CD-ROM | |

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

| TDM-121GMS-R11/T-R | 12.1" 450cd/m² XGA LCD Monitor, Aluminum Front Panel, W/12.1" Touch Screen, 9~36V input DC input, -30°C ~ +70°C Operating Temperature,RoHS | | |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| TDM-121GMS-USB-R11/T-R | 12.1" 450cd/m² XGA LCD Monitor, Aluminum Front Panel, W/12.1" USB Touch Screen, 9~36V input DC input, -30°C ~ +70°C Operating Temperature, RoHS | | |
| TDM-150GMS-R11/T-R | 15" 450cd/m² XGA LCD Monitor, Aluminum Front Panel, W/15" Touch Screen, $9\sim36V$ input DC input, $-30^{\circ}C\sim+70^{\circ}C$ Operating Temperature, RoHS | | |
| TDM-150GMS-USB-R11/T-R | 15" 450cd/m² XGA LCD Monitor, Aluminum Front Panel, W/15" USB Touch Screen, 9~36V input DC input, -30°C \sim +70°C Operating Temperature, RoHS | | |

SRM-121/150GS 12.1"/15" Sunlight Readable TFT LCD Monitor



Features

- 1. 800 and 1000 nits super high brightness
- 2. 12.1" Anti-reflection Technology
- 3. 15' Anti-glare Technology
- 4. Nature Color Matrix (NCM) Technology
- 5. Innovative auto-dimming function
- 6. Wide Operating Temperature: -10°C ~ +60°C
- 7. IP 65 Compliant

Specifications

| | SRM-121GS-R11 | SRM-150GS-R11 | | |
|---------------------------|-------------------------------|--------------------|--|--|
| Model | SRM-KIT121G-R11 | SRM-KIT150G-R11 | | |
| LCD Size | 12.1" | 15" | | |
| Max Resolution (H x V) | 800 x 600 (SVGA) | 1024 x 768 (XGA) | | |
| Brightness (cd/m²) | 1000 | 800 | | |
| Contrast Ratio | 700:1 | 600:1 | | |
| Display Color | 262k | 262k | | |
| View Angle (H/V) | 130°/120° | 150°/110° | | |
| Pixel Pitch (mm) | 0.3075 | 0.297 | | |
| Operating Temperature | -10°C ~ +60°C | | | |
| Storage Temperature | -20°C ~ +70°C | | | |
| Lamp Life Time | 5000 | 00hrs | | |
| Input Interface | Analog VGA , DVI-D | | | |
| Front Frame | Aluminum | | | |
| Chassis | Heavy-duty Steel | | | |
| OSD Function | Yes | | | |
| Smart OSD | Ye | es | | |
| Input Voltage | +12VDC/+ 9 ~ +36VDC(optional) | | | |
| mput voitago | +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 | 340 x 260 x 58 | 410 x 309 x 65.2 | | |
| (W x H x D mm) | 316 x 224.4 x 47.9 | 364.1 x 262.5 x 46 | | |







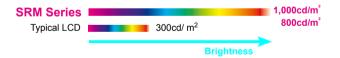






Super High Brightness

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.



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.

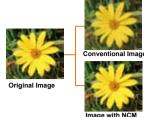
Conventional Operation: 0°C~50°C SRM Series

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





Low Reflection through **Anti-Reflection Technology**



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?



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



Anti-glare Technology

The SRM-150GS is equipped with anti-glare glass. Anti-glare glass is produced by laminating a matte surface layer to the LCD screen. When light hits this rough surface, it bounces off at different angles which reduces the intensity of light reflecting off of the surface and hitting your eyes.

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





Adjustable Ambient Brightness





Ordering Information

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

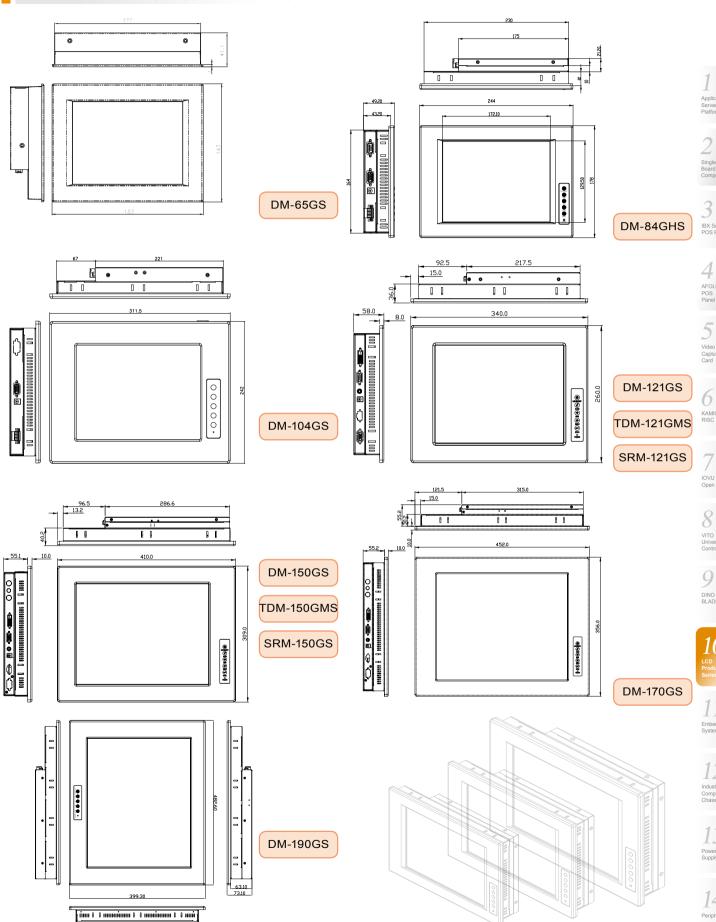
SRM-121GS

| SRM-1210 | GS-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-1210 | SS-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-1210 | GMS-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-1210 R11/T-R | GMS-USB- | 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 |
| SRM-KIT1 | 21G-R11 | 12.1" 1000 cd/m² Sun Rdadable SVGA TFT LCD kit, VGA and DVI-D input, 9~36 V DC input,RoHS |

SRM-150GS

| 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/12.1" 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/12.1" 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/12.1" 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/12.1" USB Touch Screen, RoHS |
| SRM-KIT150G-R11 | 15" 800 cd/m² Sun Rdadable XGA TFT LCD kit, VGA and DVI-D input, 9~36 V DC input,RoHS |

DM / TDM / SRM Series Dimensions



ISDM Series

8.4" ~ 19" Stainless Steel TFT LCD Monitor



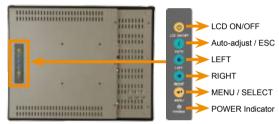
Features

- 1. Stainless Steel chassis & bezel features corrosion resistance and hygienic properties
- 2. Full function OSD keys in back panel to help customers easy
- 3. IP 65 compliant front panel

Best solution for food, chemical and pharmaceutical industries

Stainless steel can resist corrosion in most acids, alkaline solutions, and chlorine bearing environments, properties which are utilized in process plants. In addition, the easy cleaning ability makes it the first choice for strict hygiene conditions, such as hospitals, kitchens, abattoirs and other food processing plants.

ISDM Stainless Steel Monitor Stainless Steel Front Panel



Full function OSD keys in back panel

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

| Model | ISDM-084GH-R11 | ISDM-104G-R11 | ISDM-121 | IG-R11 | ISDM-150G-R11 | ISDM-170G-R11 | ISDM-190G-R11 | | |
|----------------------------|----------------|--------------------|-------------------|--------------------|--------------------------|------------------|----------------------|--|--|
| LCD Size | 8.4" TFT | 10.4" TFT | 12.1" | TFT | 15" TFT | 17" TFT | 19" TFT | | |
| Input Interface | Analo | g VGA | | Analog VGA + DVI-D | | | | | |
| Max Resolution | 800 x 600 | 800 x 600 | 800 x 6 1024 x | | 1024 x 768 | 1280 x 1024 | 1280 x 1024 | | |
| Brightness (cd/m²) | 400 | 230 / 400 | 400 / 4 | 450 | 350 | 300 | 300 | | |
| Contrast | 500 : 1 | 500 : 1 | 500 : 1 / 7 | 700 : 1 | 400 : 1 | 500 : 1 | 700 : 1 | | |
| LCD Color | 262K | 262K | 2621 | K | 262K | 16.2M | 16.2M | | |
| Pixel Pitch (mm) | 0.213 | 0.264 | 0.3075 / | 0.240 | 0.297 | 0.264 | 0.294 | | |
| Front Frame | | Stainless Steel | | | | | | | |
| Chassis | | | | Heavy-D | uty Steel | | | | |
| View Angle (H/V) | 120/100 | 120/100 | 140/110 | 160/160 | 120/100 | 140/130 | 140/130 | | |
| Power Adapter | | 5W 51E12PL02-RS | | | 45W 63000-UP0451E | | | | |
| OSD function | | | | YE | S | | | | |
| Smart OSD | | | | YE | S | | | | |
| Mounting | | | Stand / | Panel / Wa | all / Arm (100x100) | | | | |
| Back Cover Color | | | | Silv | ver | | | | |
| Dimension (WxHxD) (mm) | 244 x 178 x 49 | 311.5 x 242 x 52.1 | 340 x 26 | 0 x 58 | 409.25x 308.25 x 63.2 | 452 x 356 x 63.2 | 482.6 x 399.3 x 71.6 | | |
| Operation Temperature (°C) | 0~50°C | | | | | | | | |
| IP Level | | IP 65 | | | | | | | |
| Net Weight | 2.3 kg | 3.4 kg | 4.4 k | κg | 6.6 kg | 9.2 kg | 10.75 kg | | |

Mounting Kits Information

| | ISDM-84G | ISDM-104G | ISDM-121G | ISDM-150G | ISDM-170G | ISDM-190G | |
|-------------------|---------------------------|-----------|-----------|--------------|-----------|-----------|--|
| Panel Mount Kits | PK-84M | PK-104M | | PK-170M | | PK-190M | |
| Wall Mount Kits | WK-190MS-R10 | | | | | | |
| Rack Mount Kits | N/A | | | | | | |
| Din Mount Kits | N/A | | | | | | |
| LCD Monitor Arm | ARM-11 | | | ARM-31 | | | |
| LCD Monitor Stand | STAND-100-RS/STAND-150-RS | | | STAND-210-RS | | | |

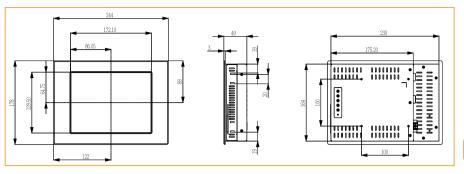
Ordering Information

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

| | Part No. | Description |
|-------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 8.4" | ISDM-084GHM-R11/T-R | 8.4" 450cd/m² High Luminance SVGA LCD Monitor with VGA and 9~36V DC Input, Stainless Steel Front Panel, W/8.4" Touch Screen, RoHS |
| 0.4 | ISDM-084GH-R11/T-R | 8.4" 450cd/m² High Luminance SVGA LCD Monitor with VGA, Stainless Steel Front Panel,W/8.4" Touch Screen,RoHS |
| | ISDM-104G-R11/T-R | 10.4" 230cd/m² SVGA LCD Monitor with VGA, Stainless Steel Front Panel,W/10.4" Touch Screen,RoHS |
| 10.4" | ISDM-104GM-R11/T-R | 10.4" 230cd/m² SVGA LCD Monitor with VGA and 9~36V DC Input, Stainless Steel Front Panel,W/10.4" Touch Screen,RoHS |
| | ISDM-104GH-R11/T-R | 10.4" 400cd/m² High Luminance SVGA LCD Monitor with VGA, Stainless Steel Front Panel,W/10.4" Touch Screen,RoHS |
| | ISDM-104GHM-R11/T-R | 10.4" 400cd/m² High Luminance SVGA LCD Monitor with VGA and 9~36V DC Input, Stainless Steel Front Panel,W/10.4" Touch Screen,RoHS |
| 12.1" | ISDM-121G-R11/T-R | 12.1" 400cd/m² SVGA LCD Monitor, Stainless Steel Front Panel,W/12.1" Touch Screen, RoHS |
| 12.1 | ISDM-121GM-R11/T-R | 12.1" 400cd/m² SVGA LCD Monitor, Stainless Steel Front Panel,W/12.1" Touch Screen, 9~36V DC input, RoHS |
| | ISDM-121G-USB-R11/T-R | 12.1" 400cd/m² SVGA LCD Monitor, Stainless Steel Front Panel,W/12.1" USB Touch Screen, RoHS |
| | ISDM-121GM-USB-R11/T-R | 12.1" 400cd/m² SVGA LCD Monitor, Stainless Steel Front Panel,W/12.1" USB Touch Screen, 9~36V DC input, RoHS |
| | ISDM-121GX-R11/T-R | 12.1" 450cd/m² XGA LCD Monitor, Stainless Steel Front Panel,W/12.1" Touch Screen, RoHS |
| | ISDM-121GXM-R11/T-R | 12.1" 450cd/m² XGA LCD Monitor, Stainless Steel Front Panel,W/12.1" Touch Screen,9~36V DC input, RoHS |
| | ISDM-121GX-USB-R11/T-R | 12.1" 450cd/m² XGA LCD Monitor, Stainless Steel Front Panel,W/12.1" USB Touch Screen, RoHS |
| | ISDM-121GXM-USB-R11/T-R | 12.1" 450cd/m² XGA LCD Monitor, Stainless Steel Front Panel,W/12.1" USB Touch Screen,9~36V DC input, RoHS |
| 15" | ISDM-150G-R11/T-R | 15" 350cd/m² XGA LCD Monitor, Stainless Steel Front Panel,W/15" Touch Screen,RoHS |
| 10 | ISDM-150GM-R11/T-R | 15" 350cd/m² XGA LCD Monitor, Stainless Steel Front Panel,W/15" Touch Screen,9~36V DC input,RoHS |
| | ISDM-150G-USB-R11/T-R | 15" 350cd/m² XGA LCD Monitor, Stainless Steel Front Panel,W/15" USB Touch Screen,RoHS |
| | ISDM-150GM-USB-R11/T-R | 15" 350cd/m² XGA LCD Monitor, Stainless Front Panel,W/15" USB Touch Screen,9~36V DC input,RoHS |
| 17" | ISDM-170G-R11/T-R | 17" 300cd/m² SXGA LCD Monitor, Stainless Front Panel,W/17" Touch Screen,,RoHS |
| | ISDM-170GM-R11/T-R | 17" 300cd/m² SXGA LCD Monitor, Stainless Front Panel,W/17" Touch Screen,9~36V DC input,RoHS |
| | ISDM-170G-USB-R11/T-R | 17" 300cd/m² SXGA LCD Monitor, Stainless Front Panel,W/17" USB Touch Screen,RoHS |
| | ISDM-170GM-USB-R11/T-R | 17" 300cd/m² SXGA LCD Monitor, Stainless Front Panel,W/17" USB Touch Screen,9~36V DC input,RoHS |
| 19" | ISDM-190G-R11/T-R | 19" 300cd/m² SXGA LCD Monitor with VGA and DVI-D input, Stainless Steel Front Panel, Silver Color, W/19" Touch Screen, RoHS |
| 13 | ISDM-190GM-R11/T-R | 19" 300cd/m² SXGA LCD Monitor with VGA and DVI-D input and 9~36V DC Input, Stainless Steel Front Panel,W/19" Touch Screen,RoHS |
| | ISDM-190G-USB-R11/T-R | 19" 300cd/m² SXGA LCD Monitor with VGA and DVI-D input, Stainless Steel Front Panel,W/19" USB Touch Screen,RoHS |
| | ISDM-190GM-USB-R11/T-R | 19" 300cd/m² SXGA LCD Monitor with VGA and DVI-D input and 9~36V DC Input, Stainless Steel Front Panel, W/19" USB Touch Screen,RoHS |

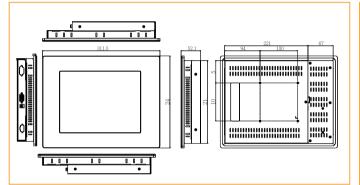


Dimensions

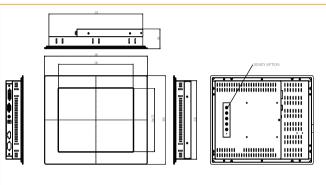


ISDM-84GH

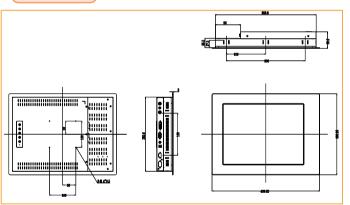
ISDM-104G



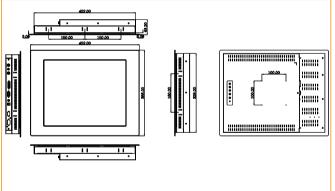
ISDM-121G



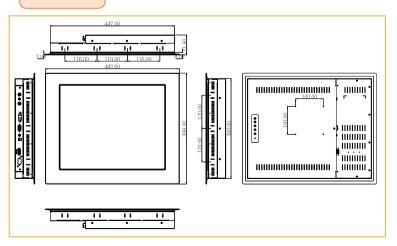
ISDM-150G



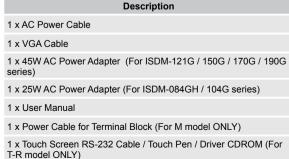
ISDM-170G



ISDM-190GS



Packing List



1 x Touch Screen USB Cable / Touch Pen / Driver CDROM (For USB/T-R model)

6

LCD Kits Series 6.5"~ 19" LCD Kits with OSD Function



Features

- 1. Robust chassis and retention kit structure for shocking and vibration requirement
- 2. Over 300cd/m² high brightness and 50000hrs MTFB long lifetime panel
- 3. Analog VGA interface supports most of general system boards
- 4.800 and 1000 nits super high brightness available



Specifications

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

| | LCD- KIT65G-R11 | LCD-KIT07G- R11 | LCD- KIT084GH- R11 | LCD- KIT104G-R11 | LCD- KIT121G-R11 | LCD- KIT150G-R11 | LCD- KIT170G-R11 | LCD- KIT190G-R11 | SRM- KIT121G-R11 | SRM- KIT150G-R11 |
|-----------------------------------------|----------------------------|---------------------|----------------------------|----------------------------|--------------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|-----------------------|
| LCD TYPE | 6.5" TFT | 7" TFT | 8.4" TFT | 10.4" TFT | 12.1" TFT | 15" TFT | 17" TFT | 19" TFT | 12.1"TFT | 15"TFT |
| Input Interface | VGA | VGA | VGA | VGA | VGA | VGA+DVI-D | VGA+DVI-D | VGA+DVI-D | VGA+DVI-D | VGA+DVI-D |
| Max Resolution | 640 x 480 (VGA) | 800 x 480 (WVGA) | 800 x 600 (SVGA) | 800 x 600 (SVGA) | 800 x 600 (SVGA) 1024 x 768 (XGA) | 1024 x 768 (XGA) | 1280 x 1024 (SXGA) | 1280 x 1024 (SXGA) | 800 x 600 (SVGA) | 1024 x 768 (XGA) |
| Backlight MTBF | 50000Hrs | 50000Hrs | 50000Hrs | 50000Hrs | 50000Hrs | 50000Hrs | 50000Hrs | 50000Hrs | 50000Hrs | 50000Hrs |
| Contrast | 450:1 | 400:1 | 400:1 | 500:1 | 500:1 / 700:1 | 400:1 | 500:1 | 700:1 | 700:1 | 600:1 |
| LCD Color | 262K | 262K | 262K | 262K | 262K | 262K | 16.2M | 16.2M | 262k | 262k |
| | 400 | | | 230 | 400 | | | | 1000 | 800 |
| Brightness (cd/m²) | 500 (High Luminance) | 350 | 400 (High Luminance) | 400 (High Luminance) | 450 (High Luminance) | 350 | 300 | 300 | | |
| AD BOARD | AV-9350 | AV-5350 | AV-5350 | AV-5350 | AV-5300 | AV-5300 | AV-5300 | AV-5300 | AV-5300 | AV-5300 |
| Adapter (12VDC output to LCD kit) | | 25 63000-UP025 | | | | | | SW 1E12P81L-RS | | |
| Chassis | | | | | Heavy-d | uty steel | | | | |
| View Angle (H/V) | 140°/120° | 140°/110° | 120°/100° | 100°/120° | 140/°100° 160°/160° | 120°/100° | 140°/130° | 140°/130° | 130°/120° | 150°/110° |
| OSD function | | | | | Ye | es | | | | |
| Smart OSD | | | | | Ye | es | | | | |
| Mounting | | Panel | | | | | | | | |
| Dimenson (W)X(H)X(D) (mm) | 203.4 x 121 x 34 | 195 x 115 x 35 | 234 x 147 x 35.3 | 242.2 x 209 x 33.6 | 294 x 240.7 x 42 | 364.1 x 262.5 x 41.9 | 390.4 x 300 x 46.9 | 427.9 x 327.4 x 48.4 | 316 x 224.4 x 47.9 | 364.1 x 262.5 x 46 |
| Operation Temperature (°C) | | | | 0°C ~ | 50°C | | | | -10°C - | ~ +60°C |

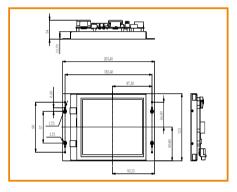
Ordering Information Note: The smartOSD function is supported by revision 11 models and above

| | Part No. | Description |
|-------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.5" | LCD-KIT65G-R11 | 6.5" 400cd/m² VGA TFT LCD kit ,VGA input, RoHS |
| | LCD-KIT65GH-R11 | 6.5" 500cd/m² High Luminance VGA TFT LCD kit, VGA input, RoHS |
| 7" | LCD-KIT07G-R11 | 7" 350cd/m² WVGA TFT LCD kit ,VGA input, RoHS |
| | LCD-KIT084GH-R11 | 8.4" 400cd/m² High Luminance SVGA TFT LCD kit, VGA input, RoHS |
| 8.4" | LCD-KIT084GHM-R11 | 8.4" 400cd/m² High Luminance SVGA TFT LCD kit, VGA input, 9~36 V DC input, RoHS |
| 10.4" | LCD-KIT104G-R11 | 10.4" 230cd/m² SVGA TFT LCD kit, VGA input, RoHS |
| 10.4 | LCD-KIT104GM-R11 | 10.4" 230cd/m² SVGA TFT LCD kit, VGA input, 9~36 V DC input, RoHS |
| | LCD-KIT104GH-R11 | 10.4" 400cd/m² High Luminance SVGA TFT LCD kit, VGA input, RoHS |
| | LCD-KIT104GHM-R11 | 10.4" 400cd/m² High Luminance SVGA TFT LCD kit, VGA input, 9~36 V DC input, RoHS |
| 12.1" | LCD-KIT121G-R11 | 12.1" 400cd/m² SVGA TFT LCD kit, VGA and DVI-D input, RoHS |
| | LCD-KIT121GM-R11 | 12.1" 400cd/m² SVGA TFT LCD kit, VGA and DVI-D input, 9~36 V DC input, RoHS |
| | LCD-KIT121GX-R11 | 12.1" 450cd/m² XGA TFT LCD kit, VGA and DVI-D input, RoHS |
| | LCD-KIT121GXM-R11 | 12.1" 450cd/m² XGA TFT LCD kit, VGA and DVI-D input, 9~36 V DC input, RoHS |
| 15" | LCD-KIT150G-R11 | 15" 350cd/m² XGA TFT LCD kit, VGA and DVI-D input, 9~36 V DC input, RoHS |
| | LCD-KIT150GM-R11 | 15" 350cd/m² XGA TFT LCD kit, VGA and DVI-D input, RoHS |
| 17" | LCD-KIT170G-R11 | 17" 300cd/m² SXGA TFT LCD kit, VGA and DVI-D input, RoHS |
| 17 | LCD-KIT170GM-R11 | 17" 300cd/m² SXGA TFT LCD kit, VGA and DVI-D input, 9~36 V DC input, RoHS |
| 19" | LCD-KIT190G-R11 | 19" 300cd/m² SXGA TFT LCD kit, VGA and DVI-D input, RoHS |
| 13 | LCD-KIT190GM-R11 | 19" 300cd/m² SXGA TFT LCD kit, VGA and DVI-D input, 9~36 V DC input, RoHS 12 1" 1000 cd/m² Syn Rdadable SVGA TFT LCD kit, VGA and DVI-D input, 9~36 V DC input RoHS |
| | SRM-KIT121G-R11 | 12.1 Todd dain Cum radadaic CVC/CTT 1 205 Kit, VO/Cuma 5VT 5 mpat, O CC V 5 C mpat, rome |
| | SRM-KIT150G-R11 | 15" 800 cd/m² Sun Rdadable XGA TFT LCD kit, VGA and DVI-D input, 9~36 V DC input,RoHS 800 nits Super Hight Brightness |
| | | Hight-back |

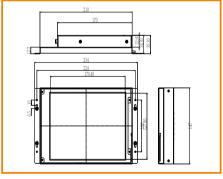
Remark: All the $9\sim36V$ DC input models are built to order.

Dimensions

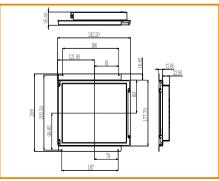












6 KAMIO RISC



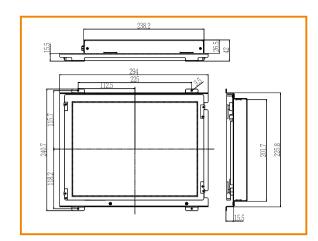
Peripherals

LCD-KIT121G

SRM-KIT121G







LCD-KIT150G

SRM-KIT150G

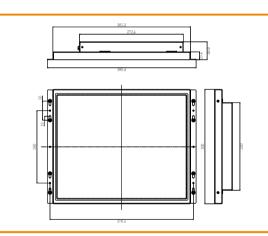




LCD-KIT170G

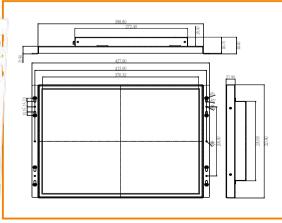






LCD-KIT190G





Single Board Computer

6 KAMIO RISC

9

14

Touch Screen Series

6.5" ~ 19" Resistive LCD Touch Screen Kits







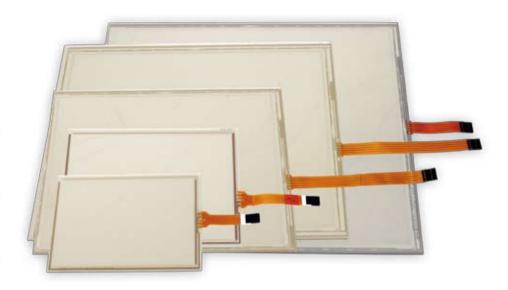












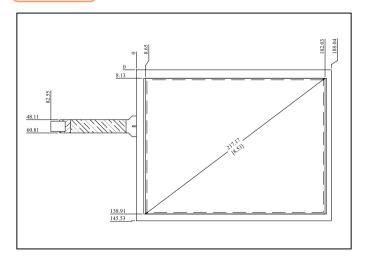
Features

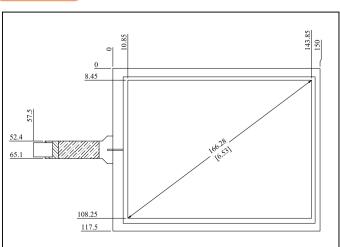
- 1. Optical clarity: Total transmission 78 % or more
- 2. Input through a special stylus or finger 100g or less.
- 3. High reliability and durability in the field

Ordering Information

| Touch Screen Kit | | IEI Products | Sensor |
|------------------|-------------|---------------------------------|--------|
| RS-232 | USB | | |
| T-R065G | T-R065G-USB | DM-65GS, LCD-KIT65G | 4-Wire |
| T-R084G | T-R084G-USB | DM-84GS,ISDM-84G, LCD-KIT84G | 4-Wire |
| T-R104G | T-R104G-USB | DM-104GS,ISDM-104G, LCD-KIT104G | 5-Wire |
| T-R121G | T-R121G-USB | DM-121GS,ISDM-121G, LCD-KIT121G | 5-Wire |
| T-R150G | T-R150G-USB | DM-150GS,ISDM-150G, LCD-KIT150G | 5-Wire |
| T-R170G | T-R170G-USB | DM-170GS,ISDM-170G, LCD-KIT170G | 5-Wire |
| T-R190G | T-R190G-USB | DM-190GS,ISDM-190G, LCD-KIT190G | 5-Wire |

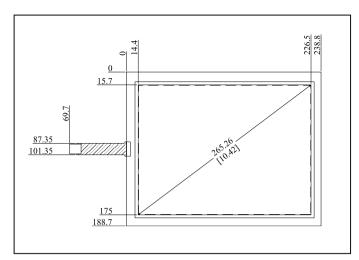
T-R084G





T-R104G

T-R150G

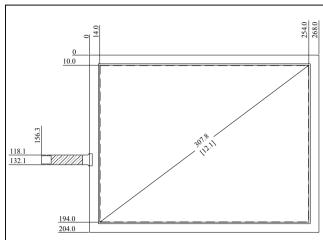


T-R121G

T-R170G

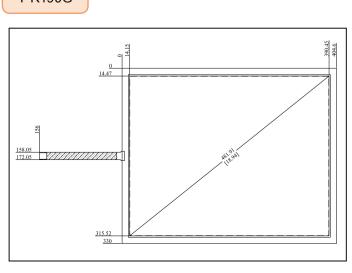
283.74 295.08

333.6



T-R190G

242.8 257.5



5 Video Inputs

Light Industry LCD Monitor High Quality Image/Multiple Video Inputs/PIP

IEI's light industry rugged line LCDs is ideal for your digital signage or surveillance needs. These units have 5-in-1 multiple video inputs, picture in picture function, wide viewing angles, high contrast ratios, fast response times and auto dimming depends on the ambient light condition. Rated IP65/IP 64(AFOLUX Series), these LCDs can withstand harsh weather conditions and protect against rain and dust. They protect against malicious or accidental impact. They can be housed in a variety of harsh environments.

































5 Video Inputs



MDM-W201S Sizes: 20.1"

Stylish and









Multi-function Display

Multimedia Display Monitor

IEI's new series of industrial multimedia display monitors is highlighted by the 5-in-1 multi-video input interface designed to easily connect to almost any current PC, embedded system, DVD player or other device. Also, equipped with versatile functions such as PIP (Picture in Picture) function, allows the screen to display two images at the same time.





Production Management

Digital Surveillance

Outdoor Digatal Signage Display

Wide Screen Multimedia Display Monitor

The MDM-W201S is a heavy-duty, durable, 1680x1050 highresolution touch-screen display with high contrast ratios, 178°/178° super wide viewing angels and multiple video input connectors. The MDM-W201S is ideal for implementation in outdoor advertising platforms and information kiosks at gas stations, theme parks, train stations and other outdoor venues.



Digital Signage Display

Service Automation Display

AFOLUX Touch Monitor

The innovate yet elegant AFOLUX multimedia monitors with built-in speakers and easily tmplemented in diverse applications including moor venicless surveillance devices and digital signage solution.





Car Monitor

AFOLUX Touch Monitor Series Sizes: 7" to 19"

AFOLUX Touch Monitor



7"~19" AFOLUX Multimedia Touch Monitor

The innovative yet elegant AFOLUX Multimedia monitors with built in speakers are easily implemented in diverse applications including motor vehicles, surveillance devices and digital signage solutions.



Ambient





PIP Function







Features

- 7"~19" TFT LCD Monitor
- Elegant design with durable and light plastic construction
- Multiple video inputs are suitable for more applications
- Built-in speakers
- Ambient light sensor (ALS) detects ambient light for automated screen adjustments to optimize viewing. (For AFL-15M/17M/19M only)
- IEI patent smartOSD function
- Remote control for OSD functions
- Picture-in-Picture (PIP) function
- Supports panel, wall, rack or VESA stand mounting (Optional)
- Supports RS-232 or USB touch screen panel (Optional)
- IP 64 compliant plastic front panel
- RoHS compliant



Stylish Design

The clean and refreshingly simple looks of the AFOLUX monitors provide an aesthetic interface for public area applications (e.g. ATMs) and industrial solutions (e.g. operator terminal).







Light Weight Construction

Light weight construction ensures the AFOLUX can be rack mounted, panel mounted and mounted on a VESA stand.







High Quality Audio Built-in

Two built-in speakers deliver dual 1.5/3 watts sound for your multimedia enjoyment.



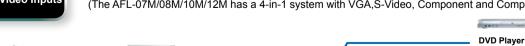




5 Video Inputs

The AFL-15M/17M/19M have multiple video inputs through common video connectors including VGA, DVI-D, S-Video, component and BNC video input interfaces.

The 5-in-1 system connects to a wide range of devices and most electronic appliances. (The AFL-07M/08M/10M/12M has a 4-in-1 system with VGA,S-Video, Component and Composite)





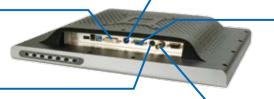






4-channel PC Base DVR







CCD Camera





AFLMonitor-Intro-V10 (10-105)

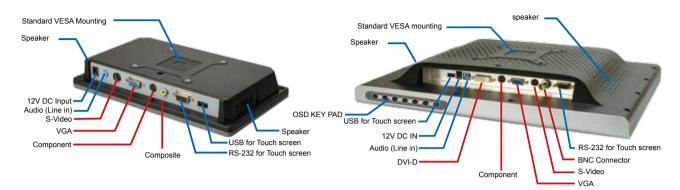
BNC

AFL-07M/08M/10M/12M

4-in-1 Multiple Video Input System

AFL-15M/17M/19M

5-in-1 Multiple Video Input System (DVI-D Added)



PIP Functions

PIP Functions

PIP enables a second video/image to be viewed in a small on-screen window. Images from other sources including DVR and DVD devices can also be viewed in the PIP window.

The small onscreen window can be easily resized and moved to a specified onscreen location. Alternatively, "picture-outside-picture" (POP) can be implemented by dividing the screen into two equally sized portions with two different outputs being displayed on either screen.



PIP Settings:

- Three sizes including small, medium and large
- Four positions including upper left, lower left, upper right and lower right.
- Independent PIP widow color controls (brightness, contrast, hue and saturation)
- A blend function makes the PIP transparent



Picture In Picture (Video on Video)



Side by Side (Video & Video)



(Video on Graphics)



(Video & Graphics)



Full OSD Functions below the monitor





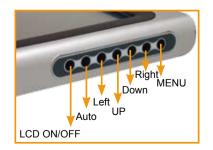


Full OSD Functions

Integrated OSD functions under the front panel enables convenient monitor configuration. Image, display ,PIP, color and system configurations can all be set with the hidden OSD.







OSD Keypad is designed for AFL-15M/17M/19M

OSD Lock Secures Your Settings

Prevents changes to monitor settings and maintains an optimized image. (For R11 revision models and above)



Remote Control for OSD Functions

Hot-keys on the remote control include PIP zone, main source setting, autodimming, brightness, contrast and volume. Remote control hot-keys ensure easy configuration of the AFOLUX.



Ambient Light

Ambient Light Sensor

The AFOLUX 15M, 17M and 19M models with a mbient light sensor ensures your monitor performs optimally in all lighting conditions.

The ambient ALS can be turned on or off according to the users preference and the operational environment.

Some of the AFL benefits include:

- Reduces cost of operation by reducing the power usage
- Extends backlight life
- Provides comfortable viewing



ALS is placed on the front side ,where there is an opening for light

Superior Image Quality-Functions

Advanced patented imaging technology on the AFOLUX LCD controller ensures the IEI AFOLUX has superior video quality.

Multi-function Touch Monitors

The AFOLUX multimedia touch monitors with the advanced LCD monitor controller supports resolutions up to and including WUXGA. The monitors are mid-range cost effective LCD TVs with PC and HDTV connectivity.



With VGA/YPbPr video input, the AFOLUX multimedia monitors can accept 1080i high resolution images.

Advanced patented imaging technology on the AFOLUX LCD controller includes Response Time Compensation (RTC) and Directional Correlation Deinterlacing (DCDi) and ensures the IEI AFOLUX has superior video image quality.

Response Time Compensation

Motion blur in motion videos is prevented by RTC technology that enables the LCDs to respond as fast as CRTs.



Without RTC





DCDi Technology

Jagged edges on diagonal lines caused by interpolation are eliminated with the DCDi video mode algorithm.

Industrial Grade Compliance

Industrial Grade Compliance

IP 64 Compliant

The IP 64 compliant AFL-xxM series front panel quarantees the highest level of ingress protection against dust and low pressure water spray. The AFOLUX monitors can with stand any industrial environment where dust and drizzle is encountered.

RS-232 or USB Touch Panel

AFL-xxM series supports 4/5 wire resistive touch screen via an RS-232 or a USB interface. The optional touch panel can withstand the demanding requirements of harsh industrial environments and outdoor applications such as POS, kiosks, retail, transportation, gaming, and surveillance.

The touch panel with PIP assists production management



Best Choices for Multimedia Applications







mounted in the vehicle equipment to supply DC

IDD-930160-KIT(Optional

AFL-07M/08M/10M Transportation

Small size industrial –grade LCDs are ideal for in-vehicle systems in trucks, public transport vehicles, and police cars. AFL in-vehicle LCDs used in car navigation systems and as monitors for rear-seat entertainment systems are able to withstand vibrations caused by the motion of the vehicle.







AFL-12M/15M Retail Solution

Our touch solutions provide reliable interaction making them ideal for use in retail applications. The touch function will speed up the point of sale transactions, and self-service viable.



■ Wide Screen for AFL-07M ■ Multiple Video Input

■ Internal Speakers (1.5W/1.5W) ■ Remote Control for OSD Functions



- Superior Image Quality
- Multiple Video Input
- Remote Control for OSD Functions







Outdoor KIOSK



■ 160°/160° Wide Viewing Angles

- Remote Control for OSD Functions
- Superior Image Quality
- Internal Speakers (3W/3W)

AFL-17M/19M Advertising and Gaming Platform

The AFOLUX monitors deliver superior picture quality and 160°/160° wide viewing angles make it the best platform for advertising and gaming.







Gaming Machine

Industrial Grade Compliance

VESA Mounting Standards

The AFL-M series has four mounting holes compliant with the VESA mounting standard (75mm x 75mm/100mm x 100mm) on the rear panel for stand mounting and other mounting methods.

Stand KIT

Easy Stand

STAND-A08 (for 7" and 8.4") (Support up to 5 kg) STAND-A12 (for 10.4" and 12.1") (Support up to 5 kg) STAND-A19 (for 15",17" and 19") (Support up to 7.5 kg)











Forward & Back Tilt

Comfortable Stand

STAND-B19 (for 15",17" and 19") (Support up to 7.3 kg)









Portrait/Landscape



Panel mount kits

AFLPK-08 (for 7" and 8.4") AFLPK-12 (for 10.4" and 12.1")







Wall mount kits

AFLWK-12 AFLWK-19







9

AFOLUX All-in-one Monitor Selection Guide

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



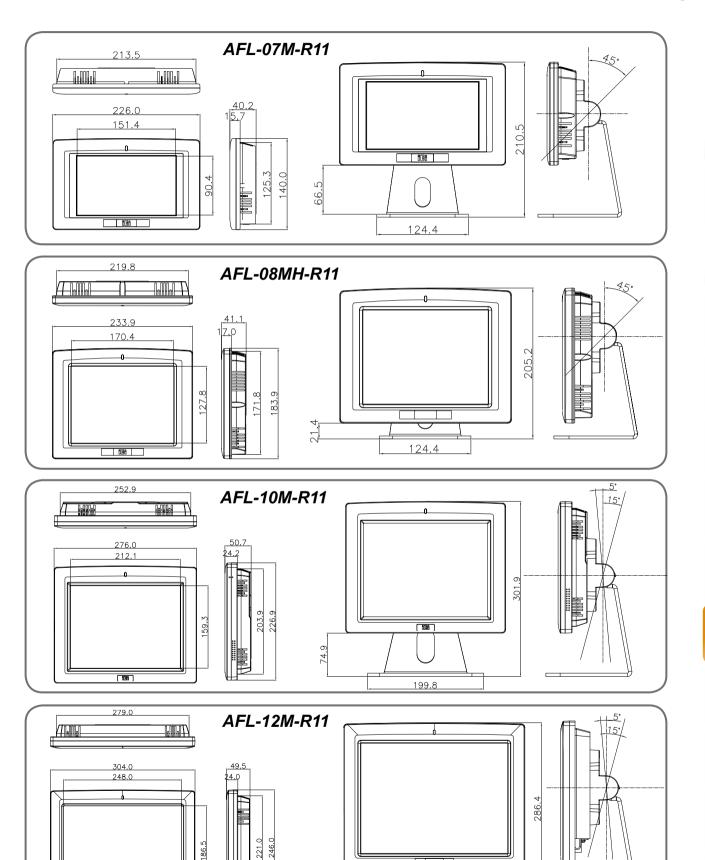






| | | | | | | | 2 10 |
|---------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------|----------------------|--------------------------------------------------------------------|-----------------------|
| Model | AFL-07M-R11 | AFL-08MH-R11 | AFL-10M-R11 | AFL-12M-R11 | AFL-15M-R11 | AFL-17M-R11 | AFL-19M-R11 |
| Display Size | 7" | 8.4" | 10.4" | 12.1" | 15" | 17" | 19" |
| Max Resolution | 800 x 480 (WVGA) | 800 x 600 (SVGA) | 800 x 600 (SVGA) | 1024 x 768 (XGA) | 1024 x 768 (XGA) | 1280 x 1024 (SXGA) | 1280 x 1024 (SXGA) |
| Brightness (cd/m²) | 350 | 450 | 400 | 450 | 350 | 300 | 300 |
| Contrast Ratio | 400:1 | 500:1 | 500:1 | 700:1 | 400:1 | 800:1 | 800:1 |
| LCD Color | 262K | 262K | 16.2M | 262K | 262K | 16.7M | 16.7M |
| Pixel Pitch (mm) | 0.1905(H) x 0.1905(V) | 0.213(H) x 0.213(V) | 0.264(H) x 0.264(V) | 0.240(H) x 0.240(V) | 0.297(H) x 0.297(V) | 0.264(H) x 0.264(V) | 0.294(H) x 0.294(V) |
| Viewing Angle (H/V) | 140°/100° | 120°/100° | 120° / 100° | 160°/160° | 120°/100° | 160° | °/160° |
| Backlight MTBF (Hrs) | 50000 | | | 500 | 000 | | |
| Input Video Signal Connector | | 2. Y 3. S- | e (NTSC/PAL) PbPr Video VGA | | 1. B | NC Connector (NTSC/I 2. YPbPr 3. S-Video 4. VGA 5. DVI | PAL) |
| Audio In | | AMP 1.5 | W + AMP 1.5W (internal | l speaker) | | AMP 3W + AMP 3V | W (internal speaker) |
| Extension | | | ensor e Control) | | | Ambient Light Senso Remote Control) | r |
| Construction Front Panel | | | ABS | S and PC Plastic front fr | ame | | |
| Contruction Chassis | | | | Aluminum Chassis | | | |
| Power Adapter | | 36 | 6W | | | 60W | |
| On Screen Display (OSD) | | Remote Control f | or OSD Functions | | | Keypad below the Front ote Control for OSD Fu | |
| Smart OSD | | | | Yes | | | |
| User's Controls | Display (Auto Adjust, Pl PIP(Pip On/Off, Pip Inp Color (Auto Color, Colo | OSD Buttons: Power, Left, Up, Down, Right ,Menu OSD:Image (Brightness, Contrast ,Sharpness), Display (Auto Adjust, Phase , Clock,Display Control) PIP(Pip On/Off, Pip Input Select, Pip Size, Pip Position ,Pip Color Controls, Blend) PIP(Pip On/Off, Pip Input Select, Pip Size, Pip Position ,Pip Color Controls, Blend) Color (Auto Color, Color Tmperature, sRGB) System (Audio, Factory Reset , Information, Input select, Misc) OSD Buttons: Power, Left, Up, Down, Right ,Menu OSD:Image (Brightness, Contrast ,Sharpness), Display (Auto Adjust, Phase , Clock,Display Control) PIP(Pip On/Off, Pip Input Select, Pip Size, Pip Position ,Pip Color Color (Auto Color, Color Tmperature, sRGB) System (Audio, Factory Reset , Information, Input select, Misc) | | | | | |
| Mounting | Panel / Wall mounting Panel / Wall mounting (VESA 75 x 75mm) (VESA 75 x 75mm / 100 x 100mm) | | | | | Wall mounting (VESA 100 x 100mm) | |
| Dimension (WxHxD) (mm) | 226 x 140 x 40.18 | 233.86 x 183.86 x 41.09 | 276 x 227 x 50.7 | 304 x 246 x 49.5 | 393.06 x 308.06 x 61 | 428 x 350 x 65 | 469.94 x 382.46 x 67 |
| Operation Temperature (°C) | | | | 0~+50°C | | | |
| Net Weight (Kg) | 0.88 | 1.14 | 1.33 | 2.12 | 3.2 | 5.0 | 5.6 |
| Safeay / EMC | | | | CE/FCC/UL/CCC | | | |
| Front Panel Protection | IP 64 Compliant | | | | | | |

Dimensions (Unit:mm)



34.4

199.8

198

Industrial Monitor

Dimensions (Unit:mm)

Application Server Platform

Single Board Compute

> 3 IBX Series POS PC

AFOLUX POS Panel PO

Video Capture Card

KAMIO RISC

IOVU Open HM

VITO Universa Controlle

DINO BLADE

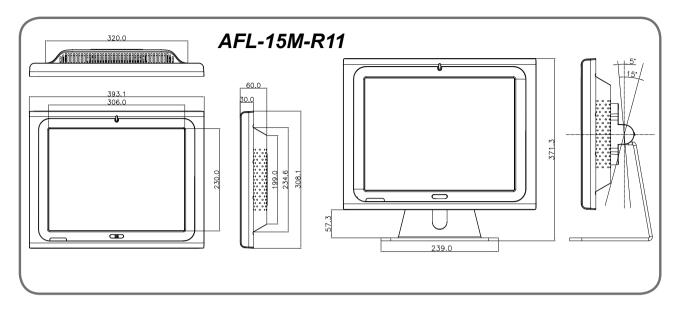


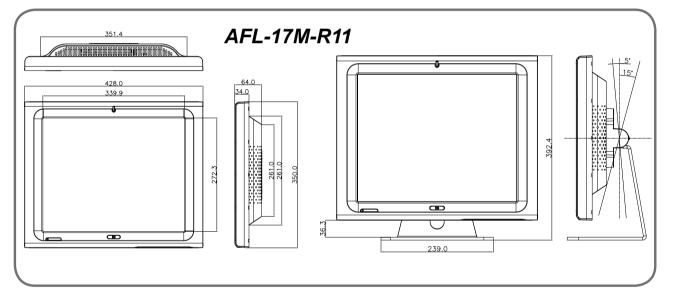
Embedded System

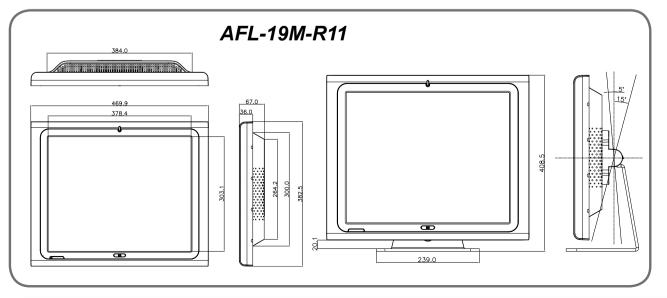
Industria Compute Chassis

13 Power Supply

14 Peripherals







Options

| | AFL-07M | AFL-08MH | AFL-10M | AFL-12M | AFL-15M | AFL-17M | AFL-19M |
|---------------------|-------------------------------------|----------|-------------------------------------|----------|----------------------------------|----------|----------|
| Panel Mounting kits | AFLF | PK-08 | AFLPK-12 | | AFLPK-15 | AFLPK-17 | AFLPK-19 |
| Wall Mounting kits | AFLWK-12 | | | | AFLWK-19 | | |
| Rack Mounting Kits | AFLRK-07 | AFLRK-08 | AFLRK-10 | AFLRK-12 | AFLRK-15 | AFLRK-17 | N/A |
| LCD Monitor Stand | STAND-A08/STAND-100-RS/STAND-150-RS | | STAND-A12/STAND-100-RS/STAND-150-RS | | STAND-A19/STAND-B19/STAND-210-RS | | |

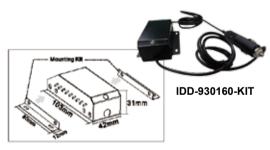
Packing List

| Item | Part No. | Remark |
|---------------------------|------------------------|---------------------------------------|
| Power Cord | 32000-000002-RS | Length:180cm |
| VGA Cable | 32000-036200-RS | Length:180cm |
| Audio Cable | 32000-036500-RS | Length:180cm |
| Component Cable | 32000-083700-RS | Length:10cm |
| Component Extend Cable | 32000-088100-RS | Length:170cm |
| DVI Cable | 32000-086600-RS | Length:180cm for AFL-15M / 17M / 19M |
| 36W Power Adapter | 63000-FSP0361AD101C-RS | for AFL-07M / 08M / 10M / 12M |
| 60W Power Adapter | 63000-FSP0601AD101C-RS | for AFL-15M / 17M / 19M |
| User's Manual CD-ROM | 7B000-000087-RS | |
| Remote Control | 7Z000-8T00322ICP01G-RS | |
| Touch Pen | XTR104-0002-RS | for Touch Screen Models |
| Touch Screen RS-232 Cable | 32000-000098-RS | Length:180cm for Touch Screen Models |
| Touch screen USB cable | 32000-045801-RS | Length: 150cm for touch screen models |
| | | |



Optional 60W DC/DC Converter Module Spec (P/N:IDD-930160-KIT)

| Input Voltage | 9~30VDC |
|--------------------------------|---------------------------------------------------------------------------|
| Input Current | Max. 8A at 6VDC |
| Output | 12V@5A |
| Max. Total Output | 60W |
| Performance Characteristics | Noise & ±Ripple:<320mV, Line Regulation: <120mV , Load Regulation: <120mV |
| Transient toggle rate | 250Hz (50% duty ratio) |
| Transient current step | From 0% to 50% and 50% to 100% of max current |
| Efficiency | typ. 95% (Vin=12V, 80% of full load) |
| Dimensions | 42mm x 103mm x 31mm |
| Mounting Kit | 12mm x 80mm |
| Cable Length | 180cm |
| Operating Temperature | -40°C~85°C |



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

| AFL-07M/T-R-R11 | 7" 350cd/m² WVGA LCD monitor, plastic front panel, gray color, with 7" RS-232 and USB touch screen, RoHS |
|---------------------|----------------------------------------------------------------------------------------------------------------|
| AFL-08MH/T-R-R11 | 8.4" 450cd/m² SVGA LCD monitor, plastic front panel, gray color, with 8.4" RS-232 and USB touch screen, RoHS |
| AFL-10M/T-R-R11 | 10.4" 400cd/m² SVGA LCD monitor, plastic front panel, gray color, with 10.4" RS-232 and USB touch screen, RoHS |
| AFL-12M/T-R-R11 | 12.1" 450cd/m² XGA LCD monitor, plastic front panel, gray color, with 12.1" RS-232 and USB touch screen, RoHS |
| AFL-15M/T-R-R11 | 15" 350cd/m² XGA LCD monitor, plastic front panel, gray color, with 15" RS-232 touch screen, RoHS |
| AFL-15M-USB/T-R-R11 | 15" 350cd/m² XGA LCD monitor, plastic front panel, gray color, with 15" USB touch screen, RoHS |
| AFL-17M/T-R-R11 | 17" 300cd/m² SXGA LCD monitor, plastic front panel, gray color,with 17" RS-232 touch screen, RoHS |
| AFL-17M-USB/T-R-R11 | 17" 300cd/m² SXGA LCD monitor, plastic front panel, gray color,with 17" USB touch screen, RoHS |
| AFL-19M/T-R-R11 | 19" 300cd/m² SXGA LCD monitor, plastic front panel, gray color, with 19" RS-232 touch screen, RoHS |
| AFL-19M-USB/T-R-R11 | 19" 300cd/m² SXGA LCD monitor, plastic front panel, gray color, with 19" USB touch screen, RoHS |

MDM Series 15"/17"/19" Multimedia Industrial Grade TFT LCD Monitor



Analog VGA





Composite Video



Features

- 15", 17" ,19" TFT LCD Monitor
- 5-in-1 Multiple video input supports DVI-D, Analog VGA, Component, Composite and S-Video interfaces suitable for most devices currently in use

smart

- Picture in Picture function
- Ambient Light Sensor intelligently adjusts brightness according to ambient light
- Remote control for OSD function
- IP 65 waterproof aluminum front panel
- OSD lock secures your settings
- IP 65 waterproof aluminum front panel



Digital Signage



Remote Control for OSD Function



Ambient Light Sensor



PIP Function



Optional 5-wire resistive touch Screen with RS-232 interface

Convenience

■ 5-in-1 Multiple video input IEI's new series of indus-

trial multimedia display monitors are highlighted by their diverse video input interfaces. The 5-in-1 input interface design supports VGA, DVI-D, Component Video, Composite Video and S-Video video input interfaces, that easily connects to most PCs, embedded systems, DVD players and other devices and could adapt

more appliance requirement.



DVR



Superior Image Quality

DCDi Edge Processing

Eliminates the jagged edges along diagonal image lines resulting from video interpolation.



Without DCDi



■ 3D Digital COMB-Filter

3D Digital comb filter ensures perfect color separation in the finest details by removing cross color and dot interference.



Analog COMB-Filter



3D Digital COMB-Filter

■ Remote Control for OSD Function

OSD functions are accessed via a water proof keys on the front panel. Front panel OSD functions simplify system configuration. The remote control that comes with the monitor is equipped with its own OSD functions that allows users to configure the monitor from remote locations.



Ambient Light Sensor Function

- Source Switch Function
- PIP Function
- Brightness/Contrast

■ Response Time Compensation

MDM monitors feature fast response time compensation that affects the quality of dynamic images on the screen, resulting in motion images that are clean and crisp.



Without RTC



With RTC

Uniqueness

Ambient Light Sensor

With a smart sensor that auto-detects the amount of light in the viewing environment and auto-adjusts the brightness of the screen.

- Power Consumption Saving
- Avoid Eye Strained and Tried
- Extend Lamp Lifetime



Dimly Lit Room



Well Lit Room

■ Variable PIP window up to 640 X 480



Size One



Size two

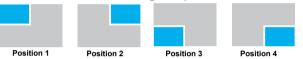


Size Three



Size Four

PIP also allows users to change the position in four forms.



Reliability

■ IEI Real Color Control

Due to panel manufacturing processes, inconsistencies may arise in an LCDs image quality.

To ensure each panel produced conforms to the highest industry standards for consistent image quality, each panel is tested by IEI's unique color correction system based on gamma curve, gray balance, and white balance, and white balance measurement standards. IEI is proud to be the only manufacturer in the IPC industry to completely color correct every panel produced.



I/O PORT



Specifications

| Specifications | 9 ~ 36V DC input (optional) | | |
|--------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|
| Model | MDM-150S-R11 | MDM-170S-R11 | MDM-190S-R11 |
| LCD Size | 15" | 17" | 19" |
| Input Interface | Analog VGA \ DVI-D \ Component Video (Y/Cr/ Cb) \ Composite \ S-Video | | |
| Max Resolution (H/V) | 1024 x 768 (XGA) | 1280 x 1024 (SXGA) | 1280 x 1024 (SXGA) |
| Brightness (cd/m²) | 350 | 300 | 300 |
| Contrast Ratio | 400:1 | 500:1 | 700:1 |
| Display Color | 262K | 16.2M | 16.2M |
| Pixel pitch (mm) | 0.297 | 0.264 | 0.294 |
| View Angle (H/V) | 120/100 | 140/130 | 140/130 |
| Lamp Life Time | 50000hrs | | |
| Front Frame | Aluminum | | |
| Chassis | Heavy-duty steel | | |
| Input Voltage | 12VDC or 9VDC~36VDC(optional) | | |
| OSD function | Ambient Light Sensor/Display control/Image Control/ PIP Control/PIP color Control/System control/OSD configuration | | |
| Smart OSD | Yes | | |
| Mounting | Wall/Panel/Rack/Arm(100X100)/Stand | | |
| Net Weight | 5.2 Kg | 7.5 Kg | 9.6 Kg |
| Dimension (W x H x D mm) | 410 X 309 X 65.1 | 452.0 X 356.0 X 65.2 | 482 X 399 X 73 |
| Operating Temperature | 0°C~50°C | | |
| Front Panel Protection | IP65 Compliant | | |

Application Server Platform

2

Single Board Computer

3 IBX Series POS PC

AFOLUX POS Panel PC

Video Capture Card

KAMIO RISC

> TOVU Open HMI

VITO Universal Controller

9 DINO BI ADE

10 LCD Product

11 Embedded System

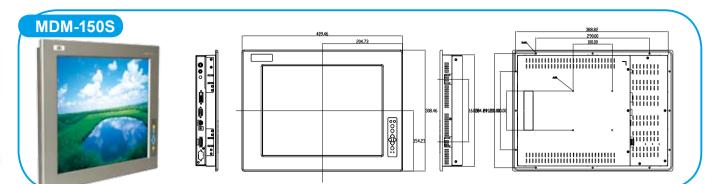
12
Industrial
Computer
Chassis

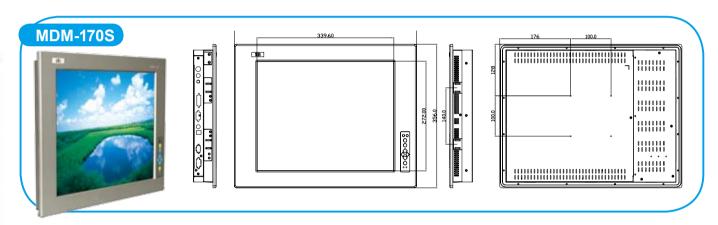
13 Power

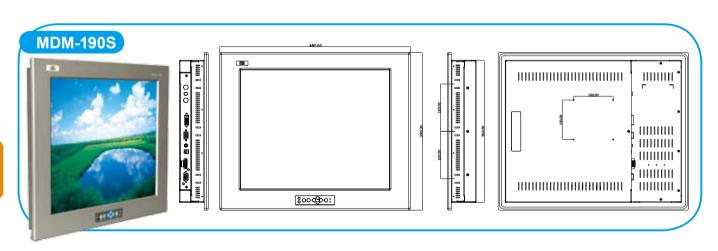
14
Peripheral

Industrial Monitor

Dimensions







Mounting Kits Information

| | MDM-150S | MDM-170S | MDM-190S |
|-------------------|--------------|--------------|--------------|
| Panel Mount Kits | PK-170M | | PK-190M |
| Wall Mount Kits | WK-190MS-R10 | | |
| Rack Mount Kits | RK-150MS-R10 | RK-170MS-R10 | RK-190MS-R10 |
| LCD Monitor Arm | ARM-31 | ARM-31 | ARM-31 |
| LCD Monitor Stand | STAND-200-RS | STAND-200-RS | STAND-200-RS |

Application Server Platform

Single Board Compute

3 IBX Series POS PC

AFOLUX POS Panel PO

Video Capture Card

KAMIO RISC

7 IOVU Open HM

VITO Universa Controlle

9 DINO BLADE



11 Embedded System

Industrial Computer

13 Power Supply

14 Peripherals

Packing List

| 1xMDM-150S / MDM-170S / MDM-190S industrial LCD monitor | 1xRemote Control Bracket |
|---------------------------------------------------------|------------------------------------------------------------------------|
| 1xDVI Cable | 1xAC Power Cable |
| 1xVGA Cable | 1xWire Strain Band |
| 1xRemote Control | 1xScrew Set |
| 1xComponent Cable | 1xPower Cable for Terminal Block(for M model) |
| 1xUser's Manual-CD-ROM | 1xTouch Screen RS-232 Cable/Touch Pen/ Driver CD-ROM(for T-R model) |
| 1x45W AC Power Adapter | 1xTouch Screen USB Cable/Touch Pen/Driver CD-ROM (for USB/T-R model). |

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

MDM-150S

| Part No. | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MDM-150S-R11/T-R | 15" 350 cd/m² XGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with touch scree, RoHS |
| MDM-150MS-R11/T-R | 15" 350 cd/m² XGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with 9~36V DC in and touch screen, RoHS |
| MDM-150S-USB-R11/T-R | 15" 350 cd/m² XGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with USB touch screen, RoHS |
| MDM-150MS-USB-R11/T-R | 15" 350 cd/m² XGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with 9~36V DC in and USB touch screen, RoHS |

MDM-170S

| Part No. | Description |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MDM-170S-R11/T-R | 17" 300 cd/m² SXGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with touch scree, RoHS |
| MDM-170MS-R11/T-R | 17" 300 cd/m² SXGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with 9~36V DC in and touch screen, RoHS |
| MDM-170S-USB-R11/T-R | 17" 300 cd/m² SXGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto- dimming and remote control, aluminum front panel with silver color, equipped with USB touch screen, RoHS |
| MDM-170MS-USB-R11/T-R | 17" 300 cd/m² SXGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with 9~36V DC in and USB touch screen, RoHS |

MDM-190S

| Part No. | Description |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MDM-190S-R11/T-R | 19" 300 cd/m² SXGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with touch scree, RoHS |
| MDM-190MS-R11/T-R | 19" 300 cd/m² SXGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with 9~36V DC in and touch screen, RoHS |
| MDM-190S-USB-R11/T-R | 19" 300 cd/m² SXGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with USB touch screen, RoHS |
| MDM-190MS-USB-R11/T-R | 19" 300 cd/m² SXGA LCD Monitor with VGA, DVI-D, S-video, composite, component video (Y / Cr / Cb) inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with 9~36V DC in and USB touch screen, RoHS |

MDM-W201S

20.1" Multimedia Industrial TFT LCD Monitor











The MDM-W201S is a heavy-duty, durable, high-resolution touch-screen display with high contrast ratios and multiple video input connectors including VGA, DVI-D, Component, Composite and S-Video. The MDM-W201S also supports multiple video signals including NTSC and PAL.

The MDM-W201S is designed for outdoor applications or applications in similarly demanding environments. The MDM-W201S is ideal for implementation in outdoor advertising platforms and information kiosks at gas stations, theme parks, train stations and other outdoor venues.



Remote Control for OSD Function



Ambient Light Sensor



PIP Function



Optional 8-wire resistive touch screen





16:10 Wide Screen

- 2. 16:10 aspect ratio
- 3. High definition resolution: 1680 x 1050
- 4. Supports resolutions from VGA to UXGA, HDTV 1080i and NTSC/PAL
- 5. Ultra wide viewing angle: 178°(H)/178°(V) Super IPS technology
- 6. High contrast ratio (800:1)
- 7. Fast response time (14 msec)
- 8. Multiple Video Input Selections: VGA, DVI, S-Video, Component and Composite
- 9. Variable PIP window
- 10. Built-in ambient light sensor (ALS)
- 11. Optional 8-wire resistive touch systems (For VGA or DVI Signal Inputs)
- 12. IP 65 front panel compliance

Enhanced Viewing Experience

■ 1680 x 1050 High Resolution Picture Quality

The 1680 x 1050 WSXGA+ format MDM-W201S models have sharp and clear screen images required for applications such as digital imaging and multimedia presentations. Great pictures are guaranteed with the 16.7M color (8-bit/color) display.

■ 178° Ultra View allows multi-direction viewing

S-IPS (In-Plane-Switching) technology on the MDM-W201S reduces the color variations and maintains the color accuracy, the low gamma distortion and the high contrast ratio of the on-screen image from any viewing angle.



Digital Signage Display



Wide viewing angles for



■ 16:10 Wide Screen for multi-display

16:10 wide screen landscape display is an ideal design for the multi-display such as digital surveillance or multi-operating-system.

Wide screen design for the

■ Portrait Display Improves Your View

The MDM-W201S can be a portrait orientation display to save the space and display better images for web pages and forms in full-page orientation where the entire contents of the application can be viewed on the screen. Tuning a monitor's display by (Only for DVI and VGA inputs)



IP 65 compliant aluminum front panel

IP 65 standard is the highest dusty, water and oil proof level in ground usage, it absolutely prevents any micro-particle in to the system from front panel, and let the system adapting harsh environment.





■ Superior Video Quality

Advanced patented imaging technology on the MDM-W201S LCD controller ensures superior video quality.



With VGA/YPbPr video input, the AFOLUX multimedia monitors can accept 1080i high resolution images.

• Response Time Compensation

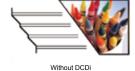
The MDM-W201S features fast response time compensation that affects the quality of dynamic images on the screen, resulting in moving images that are clean and crisp.





• DCDi Edge Processing

Eliminates the jagged edges analog diagonal image lines resulting from video interpolation





With DCDi

Convenience

■ 5-in-1 Multiple Video Inputs and Variable PIP (Picture-in-Picture) up to 640x480

The MDM-W201S has 5-in-1 input interface to support VGA,DVI-D, Component Video. Composite Video and S-Video multiple video input interfaces that easily connect to most PCs, embedded systems, DVD players and other video output devices.

• 5-in-1 Multiple Video Inputs













• Variable PIP: Size and Position Adjustable

Users can select any two signal inputs as picture in picture screens. The second screen size can be adjusted up to 640x480





Middle

SMALL



Large

Side by Side

Changeable Position allows users move the second screen easily



■ Remote Control for OSD Functions

Hot-keys on the remote control include PIP zone, main source setting, auto-dimming, brightness and contrast adjustments.

Left/Right/Up/Down Auto-adjust/Esc OSD functions are accessed via a water proof membrane keypad Ambient Light on the front panel. Menu/Select LCD On/Off LCDOn/Off Auto Dimming Main Source Setting -

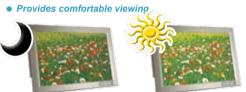


The remote control that comes with the monitor is equipped with its own OSD functions that allows users to configure the monitor from remote locations.

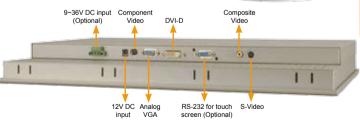
■ Ambient Light Sensor

The MDM-W201S has a smart sensor that could auto detect the amount of light in the viewing environment and auto-adjusts the brightness of the

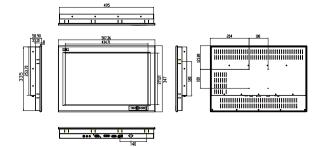
- Reduces cost of operation by reducing the power usage
- Extends backlight life







Dimensions



Mounting Options

| Model | MDM-201S |
|-------------------|--------------|
| Panel Mount Kits | PK-201M |
| Wall Mount Kits | WK-201MS-R10 |
| Rack Mount Kits | N/A |
| Din Mount Kits | N/A |
| LCD Monitor Arm | ARM-31 |
| LCD Monitor Stand | Stand-200-RS |





| Case/bezel color | Silver heavy-duty steel chassis and aluminum front bezel |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display size | 20.1" diagonal |
| Aspect Ratio | 16:10 |
| Optimal (native) resolution | 1680x1050 (WSXGA+) |
| Colors | 16.7M (8-bit color) |
| Brightness | LCD panel 300 cd/m2 |
| Response time | 14 ms (typical) |
| Viewing angle (H/V) | 178°/178° |
| Contrast Ratio (typical) | 800:1 |
| Pixel Pitch | 258 mm (w) x 258 mm (h) |
| Input video signal connectors | D-Sub 15 pins VGA type, DVI-D 24 pins, S-Video, Component, Composite |
| Dawer Cause | 100-240 VAC Universal |
| Power Source | +9~+36VDC (Optional) |
| Operating Temperature | 0°C to 50°C |
| Storage Temperature | -20°C to 60°C |
| Humidity | 5%~95% @ 60°C, non-condensing (operating) |
| Shock | 10G acceleration peak to peak. (11ms) |
| Vibration | -5~17Hz 0.1" double amplitude displacement |
| vibration | -17~640 Hz 1.5G acceleration peak to peak |
| Backlight lamp life | 50,000 hours to half brightness |
| | OSD Buttons: menu, up, down, right, left, LCD on/off, auto adjust |
| User's controls | OSD: Image (Brightness, Contrast, Sharpness) Display (auto adjust, phase, clock, display control) Picture in Picture (on/off, input select, size, positioin, color controls, blend) Color (auto color, color temperature, sRGB) System (factory reset, information, input select, OSD configuration, auto brightness) |
| Smart OSD | Yes |
| Mounting options | 100 mm VESA mount |
| Touch Interface | USB or Serial (Optional) |
| Front Panel Protection | IP 65 Compliant |
| Dimensions (WxHxD mm) | 507.36 x 347 x 58.90 |
| Net Weight | 8.4 kg |
| | |

Ambient Light Sensor; Remote Control for OSD functions





Panel Mount Kits

■ How to panel mount?

Step 1: Cut out a section from the panel that corresponds to the dimensions of the MDM-W201S display monitor chassis. (Suggested cut out dimensions on the panel-Width:498 mm/Height:338 mm)



Step 2: Insert the panel mounting clamps into the pre-formed holes along the edges of the chassis, behind the aluminum frame. There are a total of 12 panel mounting clamps for MDM-W201S.



Step 3: Tighten the screws that pass through thepanel mounting clamps until the plastic caps at thefront of all the screws are firmly secured to the panel.

Ordering Information

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

| Part No. | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MDM-W201S-R11/T-R | 20.1" 300 cd/m² WSXGA LCD Monitor with VGA, DVI-D, S-Video, composite, Component Video inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with touch screen, RoHS |
| MDM-W201MS-R11/T-R | 20.1" 300 cd/m² WSXGA LCD Monitor with VGA, DVI-D, S-Video, composite, Component Video inputs, integrated auto- dimming and remote control, aluminum front panel with silver color, equipped wit h 9~36V DC in and touch screen, RoHS |
| MDM-W201S-USB- R11/T-R | 20.1" 300 cd/m² WSXGA LCD Monitor with VGA, DVI-D, S-Video, composite, Component Video inputs, integrated auto-dimming and remote control, aluminum front panel with silver color, equipped with USB touch screen, RoHS |
| MDM-W201MS-USB- R11/T-R | 20.1" 300 cd/m² WSXGA LCD Monitor with VGA, DVI-D, S-Video, composite, Component Video inputs, integrated auto- dimming and remote control, aluminum front panel with silver color, equipped wit h 9~36V DC in and USB touch screen, RoHS |

Packing List

| 1 x LCD monitor | 1 x Remote Control Bracket |
|--------------------------|------------------------------------------------------------------------------|
| 1 x DVI Cable | 1 x AC Power Cable |
| 1 x VGA Cable | 1 x Wire Strain Band |
| 1 x Remote Control | 1 x Screw Set |
| 1 x Component Cable | 1 x Power Cable for Terminal Block (for M model) |
| 1 x User's Manual-CD-ROM | 1 x Touch Screen RS-232 Cable / Touch Pen / Driver CD-ROM (for T-R model) |
| 1x 60W AC Power Adapter | 1 x Touch Screen USB Cable / Touch Pen / Driver CD-ROM (for USB / T-R model) |







Remote Control

Remote Control Bracket

Component Cable

Other Features