Display Monitor Solutions

Durable waterproof displays are essential in today's commercial and industrial applications. IEI's versatile lines of IP 64/65 compliant and shock/vibration resistant industrial displays are designed specifically to endure the rigorous demands of modern commerce and industrial environments. These displays are easily integrated into automation applications, ATM machines and human machine interfaces.

Industrial Display Monitor

DM Series

The DM series is flexible and durable that can be easily integrated into a wide variety of general-purpose industrial applications.

Sunlight Readable Display Monitor

800 nits/ 1000 nits

SRM Series

The SRM series is designed to operate in high ambient lighting conditions and is especially designed for outdoor use under direct or indirect sunlight.

Multiple Input Display Monitor

5 Video Inputs

AFOLUX Monitor Series

The AFL-xxM series has multiple video inputs through common video connectors which can connects to a wide range of devices and most electronic appliances.

Product Line	DM Series		TDM Series	SRM Series	LCD-KIT Series		AFOLUX Monitor Series	
LCD Size	**6.5" ~ 19"**		**12.1" / 15"**	**12.1" / 15"**	**6.5" ~ 19"**		**7" ~ 19"**	
Input Signal Interface	6.5" ~ 10.4" Model	12.1" ~ 19" Model	Analog VGA + DVI-D	Analog VGA + DVI-D	6.5" ~ 10.4" Model	12.1" ~ 19" Model	7" ~ 12.1" Model **WIN!!**	15" ~ 19" Model **WIN!!**
	Analog VGA	Analog VGA + DVI-D			Analog VGA	Analog VGA+DVI-D	Composite YPbPr S-Video VGA	BNC Connector YPbPr S-Video VGA DVI
Brightness	300~800 nits		450 nits	800~1000 nits **WIN!!**	300~800 nits		300~500 nits	
Operating Temperature	-10~50°C		-30~70°C **WIN!!**	-10~60°C	-10~50°C		0~50°C	
Auto Dimming Function	--		--	Yes	--		Yes (For 15" ~ 19" Model)	
OSD Function	Yes		Yes	Yes	Yes		Yes (For 15" ~ 19" Model)	
Remote Control	--		--	--	--		Yes (For 7" ~ 12.1" Model)	
IEI Smart OSD Support	Yes		Yes	Yes	Yes		Yes	
Front Panel Protection	IP 65		IP 65	IP 65	--		IP 64	

Wide Temperature Display Monitor

TDM Series **-30ºC~70ºC**

The TDM series offers an extended operational temperature range of -30°C ~ +70°C allowing it to tolerate temperature extremes in harsh operating environment.
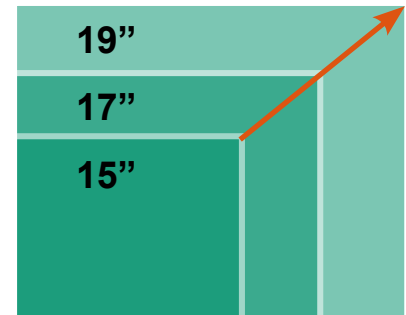
Open Frame Display Monitor

LCD-KIT Series

The LCD-KIT series design concepts are ready for versatile applications that are easily integrated into any mechanic structure.

Heavy Industrial Display Monitor Main Features

Feature 1 Upgrade 15"~19" Display Monitor with LED Backlight Technology

- Inverter-free design increases system reliability and lowers total product cost as well as maintenance cost
- Better for the environment, mercury and lead free
- LCD provides 50000hrs service life
- 15%~30% less power consumption compared to CCFL

19"
17"
15"

Feature 2 Increase Power Adapter Efficiency (Meet Energy Related Products ErP)

The display monitor R20 series comes with a power adapter which complies with the ErP 2009/125/EC directive, meaning the power consumption of the whole system in either standby or off mode is under 1W.

ErP Compliant Power Adapter

| Stand by or Off Mode | ⇄ | Max. Energy Consumption | ≤ | 1W |

Feature 3 Dual Touch Screen Control Interface: RS-232 & USB

Display monitor series provides both RS-232 and USB ports for touch screen connection.

- Lockable RS-232 connector ensures secure attachment
- Standard Type A USB 2.0 interface with 480 Mbit/s maximum transfer rate provides faster data transmission than a traditional RS-232 interface (Except 8.4" DM series)

Combination of USB & RS-232 Interfaces

Feature 4 M Model Supports 9V~36V DC Power Input for Mobile Application

Display Monitor series M models support wide 9V~36V DC power input. Factory and mobile environments, such as vehicles, usually use 12V or 24V DC power source. The wide 9V~36V power input range by terminal block and 12V power input by power jack can be adapted to a wide variety of appliance requirements. (manufacture by order)

9V~36V DC Power Input (manufacture by order)

IDD-936169A-R20

Power Adapter12V DC input

Lockable DC Jack

Feature 5 IP 65 Waterproof Aluminum Front Panel

IP 65 is the highest dust, water and oil proof standard in ground usage, It absolutely prevents any micro-particles from getting into the system front panel and allows the system to function in harsh environments.
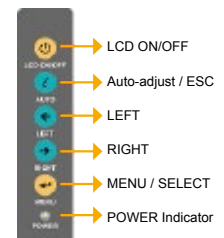
Feature 6 OSD Function Keypad on the Front Panel

IEI's display monitors have OSD function keys on the front panel. Users can easily configure monitor functions using the waterproof OSD function keys.

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

With OSD Disable Function

Brightness
Contrast
Clock
Phase
H. Position
V. Position
Sharpness

Enter   Select

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

IEI SmartOSD Software OSD for IEI LCD Monitors

IEI SmartOSD is a proprietary On-Screen-Display (OSD) software solution that enables easy remote monitor setting adjustments in Windows environment. IEI SmartOSD delivers excellent performance and provides more flexibility than typical OSD hardware solutions when adjusting a monitor. SmartOSD also allows monitor settings such as brightness, contrast, screen position, size, and color gain to be read and changed over normal video cable (VGA/DVI).
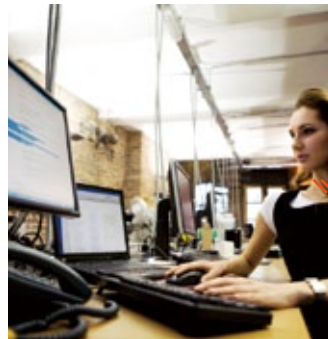
Directly controls IEI display device through standard video cables !

VESA DDC / CI Protocol

DVI~10m   VGA~30m

IEI Display Monitor Only!

smart OSD

Local Control System

SmartOSD Features

• 100% compatible with Windows environment -Windows 95/NT 4.0/98/2000/2003/XP/Vista
• Normal video cable (VGA/DVI) connection only
• Overcome operation obstacles

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

Multiple Control Displays   Untouchable Location

100% Compatible with VESA DDC / CI Protocol

IEI LCD monitors are implemented with the VESA DDC/CI protocol and 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

EDID contains basic information about the monitor and its capabilities

2.Image Setting

Brightness
Contrast
Sharpness

3.Display Setting

Phase
Clock

4.Color Setting

User Red Gain
User Green Gain
User Blue Gain
Color Temperature
Gamma

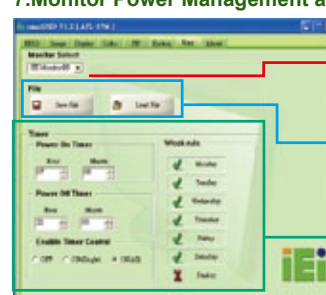**5. Picture in Picture Setting**

PIP On/Off
PIP Input Source
PIP Size

6. System Setting

Monitor Power Control
Auto Brightness
Main Source Input
Volume
Misc (Factory Reset/OSD Lock/OSD Unlock)
Mute

7.Monitor Power Management and File Saving

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

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

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

DM Series

6.5"~19" IP 65 Industrial Monitors, Robust, Shock Resistant with OSD Function

Features

1. Aluminum front panel compliant with IP 65 standard for tough working environment
2. Supports both USB and RS-232 touch interface
3. Robust chassis and retention kit structure for shocking and vibration requirement
4. Over 300cd/m² high brightness and 50000hrs MTFB long lifetime panel
5. Analog VGA and DVI-D interface supports most of general system boards
6. M models support 9~36V DC power input for mobile application

smart OSD

Specifications

Model	DM-65GHS	DM-84GHS	DM-104GHS	DM-121GXS	DM-150GS	DM-170GS	DM-190GS
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	Analog VGA + DVI-D	Analog VGA + DVI-D	Analog VGA + DVI-D
Max Resolution	640 x 480	800 x 600	800 x 600	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024
Brightness (cd/m²)	800 Sunlight Readable	450	400	500	400	350	350
Contrast Ratio	600 : 1	600 : 1	700 : 1	700 : 1	700 : 1	800 : 1	1000 : 1
Display Color	262K	262K	262K	262K	16.2M	16.7M	16.7M
Pixel Pitch (mm)	0.207	0.213	0.264	0.3075	0.297	0.264	0.294
Viewing Angle (H/V)	160º /140º	160º /140º	160º /140º	160º / 160º	120º / 140º	160º / 160º	170º / 160º
Touch Screen	Resistive type 4-wire / RS-232 & USB interface (touch controller IC is on board)	Resistive type 5-wire / RS-232 & USB interface (touch controller IC is on board)					
Front Frame	Aluminum						
Chassis	Heavy-duty						
Input Voltage	12VDC	12VDC or 9-36VDC					
OSD Function	OSD Keypad						
Smart OSD	Yes						
Mounting	Wall/Arm/Din Panel/Rack	Wall / Panel / Rack / Arm / Stand / VESA 100mm x 100mm					
Color	Silver						
Dimensions (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 64.4	452 x 356 x 65.2	482 x 399 x 73
Operating Temperature	-10°C~50°C				0°C~50°C		
Front Panel Protection	IP 65						
Net Weight	1 kg	1.8 kgs	3 kgs	3.8 kgs	6 kgs	8.6 kgs	10 kgs
Power Adapter	36W, 63000-FSP036RAB610-RS			60W, 63040-010060-040-RS			

Mounting Kits

	DM-65GS	**DM-84GS**	**DM-104GS**	**DM-121GS**	**DM-150GS**	**DM-170GS**	**DM-190GS**
Panel Mount Kit	PK-65M	PK-84M	PK-104M	PK-170M			PK-190M
Wall Mount Kit	WK-065MS-R10	WK-190MS-R10					
Rack Mount Kit	RK-065MS-R10	RK-084MS-R10	RK-104MS-R10	RK-121MS-R10	RK-150MS-R10	RK-170MS-R10	RK-190MS-R10
Din Mount Kit	DK-84MS		N/A				
LCD Monitor Arm	ARM-11				ARM-31		
LCD Monitor Stand	STAND-100-RS				STAND-210-R11		

Packing List

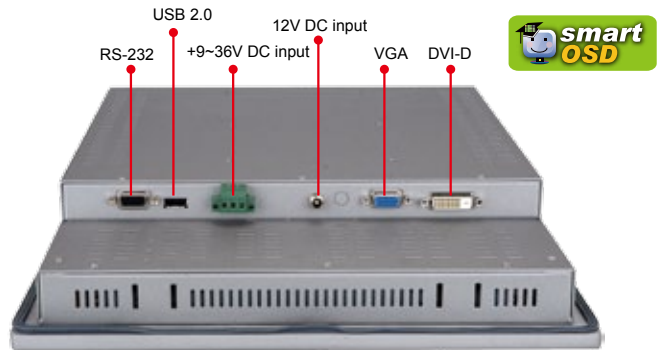| Description	Part Number	Remark
1 x AC power cable	32000-089900-RS	Length:1800mm (EU or US, Which type of cord is shipped depends on the contry)
1 x VGA cable	32000-036200-RS	Length:1800mm
1 x 60W AC power adapter (Non M model ONLY)	63040-010060-040-RS	For DM-150GS-R20 / 170GS-R20 / 190GS-R20 series Operating Temperature : 0ºC~ +40ºC
1 x 36W AC power adapter (Non M model ONLY)	63000-FSP036RAB610-RS	For DM-65GHS-R20 / 84GHS-R20 / 104GHS-R20 / 121GXS-R20 series Operating Temperature : 0ºC~ +40ºC
1 x User manual		
1 x Power cable for terminal block	32100-041001-RS	For M model only
1 x Touch screen RS-232 Cable / USB Cable / Driver CDROM	RS-232 Cable:32005-001100-100-RS USB Cable:32001-006100-100-RS	Length: 1800 mm Length: 1500 mm
1 x Touch pen	43125-0002C0-00-RS	

Ordering Information

Part No.		Description
6.5"	DM-65GHS/R-R20	6.5" 800cd/m² High luminance VGA LCD monitor with VGA, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R20, RoHS
8.4"	DM-84GHS/R-R20	8.4" 450cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 Touch screen, R20, RoHS
	DM-84GHMS/R-R21	8.4" 450cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 Touch screen, 9~36V DC input, R21, RoHS
	DM-84GHS-USB/R-R20	8.4" 450cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/USB Touch screen, R20, RoHS
	DM-84GHMS-USB/R-R21	8.4" 450cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/USB Touch screen, 9~36V DC input, R21, RoHS
10.4"	DM-104GHS/R-R20	10.4" 400cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R20, RoHS
	DM-104GHMS/R-R21	10.4" 400cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, 9~36V DC input, R21, RoHS
12.1"	DM-121GXS/R-R20	12.1" 500cd/m² XGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 and USB Touch screen, R20, RoHS
	DM-121GXMS/R-R21	12.1" 500cd/m² XGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 and USB Touch screen, 9~36V DC input, R21, RoHS
15"	DM-150GS/R-R30	15" 400cd/m² XGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R30, RoHS
	DM-150GMS/R-R30	15" 400cd/m² XGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, 9 ~36V DC input, R30, RoHS
17"	DM-170GS/R-R30	17" 350cd/m² SXGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R30, RoHS
	DM-170GMS/R-R30	17" 350cd/m² SXGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 and USB Touch screen, 9~36V DC input, R30, RoHS
19"	DM-190GS/R-R30	19" 350cd/m² SXGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R30, RoHS
	DM-190GMS/R-R30	19" 350cd/m² SXGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen,9~36V DC input, R30, RoHS

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

TDM-121/150GMS

12.1"/15" Wide Range Temperature TFT LCD Monitor

RS-232 · USB 2.0 · +9~36V DC input · 12V DC input · VGA · DVI-D

smart OSD

High Brightness · Wide View Angle · IP65 · XGA 1024x768 · -30ºC~70ºC Wide Temp · 50.000 hours Life Time

Features

1. Wide operating temperature: -30ºC~+70ºC
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	TDM-150GS
LCD Size	12.1"	15"
Input Interface	Analog VGA + DVI-D	Analog VGA + DVI-D
Max. Resolution	1024 x 768	1024 x 768
Brightness (cd/m²)	500	450
Contrast Ratio	700 : 1	700 : 1
Display Color	262K	16.2M
Pixel Pitch (mm)	0.3075	0.297
Viewing Angle (H/V)	160/160	160/160
Touch Screen	Resistive Type 8-Wire	
Front Frame	Aluminum	Aluminum
Chassis	Heavy-duty	Heavy-duty
Input Voltage	9-36VDC	9-36VDC
OSD Function	Yes	Yes
Smart OSD	Yes	Yes
Mounting	Wall / Panel / Rack / Arm Stand / VESA 100mm x 100mm	
Color	Sliver	
Dimensions (W x H x D mm)	340 x 260 x 58	410 x 309 x 55.1
Operating Temperature	-30°C~70°C	
Front Panel Protection	IP 65	
Net Weight	3.3 kgs	6 kgs

IEI Strict Design Quality Verification

Typical monitors can only be used in environments with 0°C to 50°C temperature. IEI environmental testing is performed to ensure the TDM series continues to function properly over its entire service life in a wide 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.

-30ºC to 70ºC Assurance

IEI in House Burn-In Testing Laboratory → Continuous 1,000urs Burn-In Test → 71.85°C 47.5% Burn-In Testing Setting

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

High & Low Temporature Burn-in test

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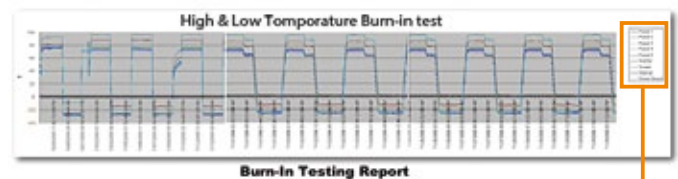
Nine thermocouples record all the temperature variations during the burn-in test and the TDM monitor functions during the test.

■ 12.1" XGA Resolution: 1024 x 768

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

■ High Brightness: 450 cd/m²

With a luminance of 450 cd/m², the TDM series offers 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


12.1"High Resolution

TDM-121GMS

Normal Brightness   High Brightness

■ Wide Viewing Angle: 160º

Typical small-size monitors only support 130º/110º (H/V) viewing angle, but IEI TDM series can support viewing angle up to 160º/160º (H/V). Viewing angle maintains screen brightness by reducing the possibility of color change when you view the monitor from the side.

General Viewing Angle (H/V) ≒130º/110º

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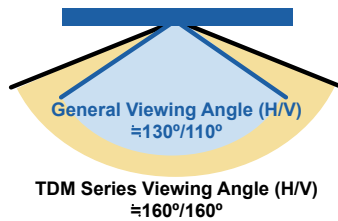
TDM Series Viewing Angle

General Viewing Angle

Mounting Kits

	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-200-R11
Arm	ARM-11-RS	ARM-31-RS
Rack Mount Kit	RK-121MS-R10	RK-150MS-R10

Options Power

Description	Part Number	Remark
1 x 36W AC power adapter	63000-FSP036RAB610-RS	Operating temperature : 0ºC~ +40ºC

Packing List

Description	Part Number	Remark
1 x AC power cable	32000-089900-RS	Length:1800mm (EU or US, Which type of cord is shipped depends on the contry)
1 x VGA cable	32000-036200-RS	Length:1800mm
1 x User manual		
1 x Power cable for terminal block	32100-041001-RS	For M model only
1 x Touch screen RS-232 Cable / USB Cable / Driver CDROM	RS-232 Cable:32005-001100-100-RS USB Cable:32001-006100-100-RS	Length:1800mm Length:1500mm
1 x Touch Pen	43125-0002C0-00-RS	

Ordering Information

Part No.	Description
TDM-121GMS/R-R21	12.1" 500cd/m² XGA LCD monitor, Aluminum front panel, W/12.1" touch screen, 9~36V input DC input, -30ºC ~ +70ºC operating temperature, R21, RoHS
TDM-150GMS/R-R21	15" 450cd/m² XGA LCD Monitor, Aluminum front panel, W/15" touch screen, 9~36V input DC input, -30ºC ~ +70ºC operating temperature, R21, RoHS

SRM-121/150

12.1"/15" Sunlight Readable TFT LCD Monitor

Fanless

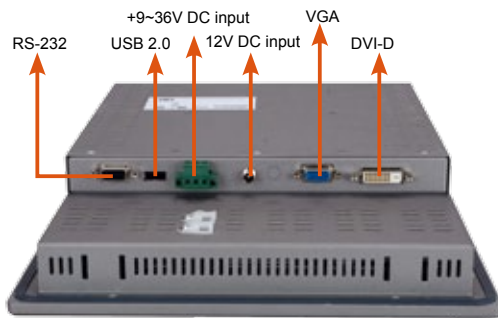### SRM Series

With Auto-Dimming Function

Open Frame

SRM-KIT Series

New 9-36V DC Input

Extendable OSD Cable with Auto-Dimming Function

High Brightness | Auto Dimming | IP65 | Wide Temp -10°C~60°C | Anti Reflection

RS-232 | USB 2.0 | +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

Specifications

| Model	SRM-121XA	SRM-150GS
	SRM-KIT121XA	SRM-KIT150G
LCD Size	12.1"	15"
Input Interface	Analog VGA + DVI-D	
Max Resolution	1024 x 768 (XGA)	1024 x 768 (XGA)
Brightness (cd/m²)	1000	800
Contrast Ratio	600:1	800:1
Display Color	16.7M	262k
Pixel Pitch (mm)	0.240	0.297
Viewing Angle (H/V)	160°/140°	160°/140°
Touch Screen	Resistive Type 5-Wire	
Front Frame	Aluminum	
Chassis	Heavy-duty	
Input Voltage	9-36VDC	
OSD function	Yes	
Smart-OSD	Yes	
Mounting	Wall / Panel / Rack / Arm / Stand / VESA 100mm x 100mm	
	Panel	
Color	Sliver	
Dimensions (W x H x D mm)	340 x 260 x 58	410 x 309 x 55.1
	316 x 224.4 x 47.9	364.1 x 262.5 x 46
Operating Temperature	-10°C ~ +60°C	
Front Panel Protection	IP 65	
	N/A	
Net Weight	3.3 kgs	6 kgs

■ Super High Brightness

Typical high brightness monitors usually have more than six CCFLs, but 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 don't power consumption or produce extra heat.

SRM Series — 1,000cd/m² 800cd/m²

Typical LCD — 300cd/m²
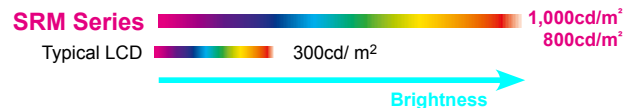
Brightness

■ Wide Temperature Range

Typical high-brightness monitors usually have more than six CCFLs, but IEI SRM monitors use only four CCFLs to provide super high brightness which makes the SRM series to be still readable in bright sunlight with low power consumption.

Conventional Operation: 0ºC~50ºC

SRM Series

-10ºC ← → 60ºC

Operating Temperature -10~60ºC
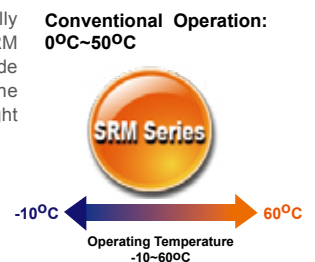
■ Superior Fanless Design and Low Power Consumption

SRM models are fanless and therefore use less power and are more silent than conventional high brightness monitors that 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.
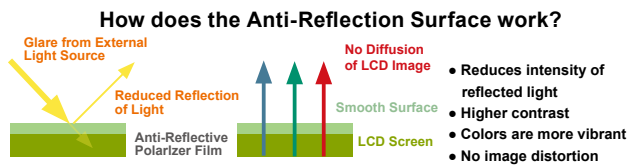
■ Innovative Auto-Dimming Function

IEI SRM series with auto-dimming functioin can adjust brightness according to ambient light so that users can do their job properly under different lamp house averages, and outdoor environments. This function not only prevents unnecessary brightness that strains eyes, it also saves energy. The SRM series auto-dimming default settings can be easily customized with the OSD menu to suit any environment.

Adjustable Backlight

Adjustable Ambient Brightness

■ Anti-Reflection Technology

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

How does the 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

■ 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.

Conventional Image

Original Image

Image with NCM
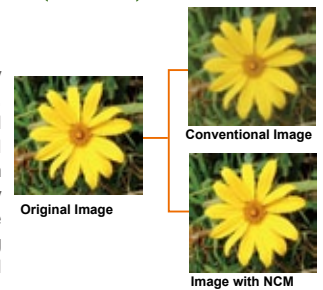
■ 12.1" XGA High Resolution

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

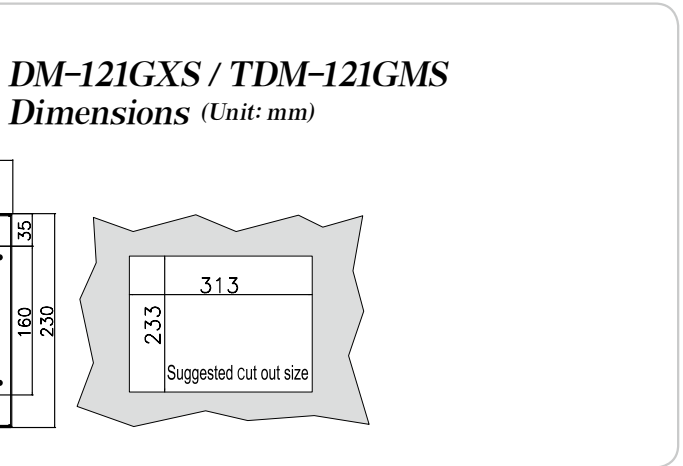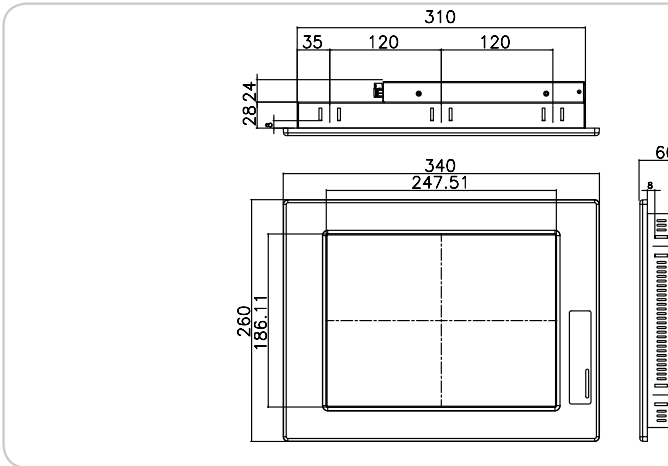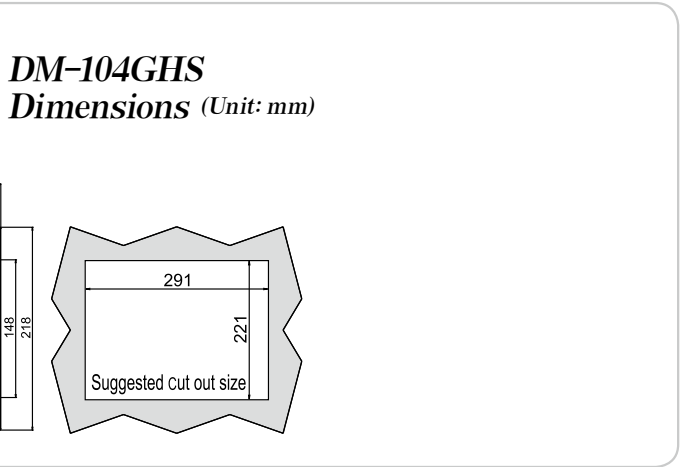**12.1" SVGA Screen Capture**   **12.1" XGA Screen Capture**
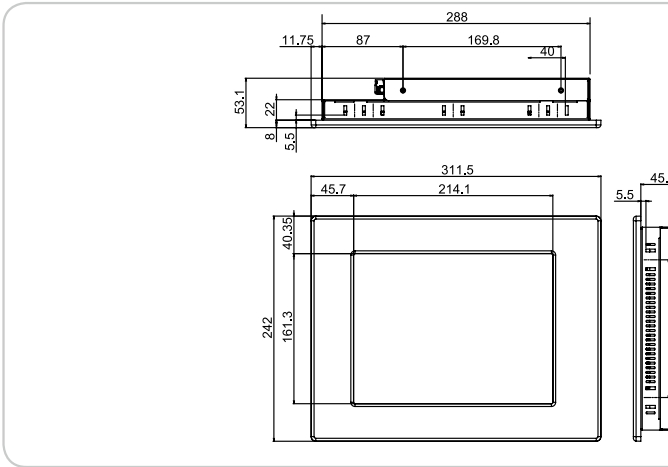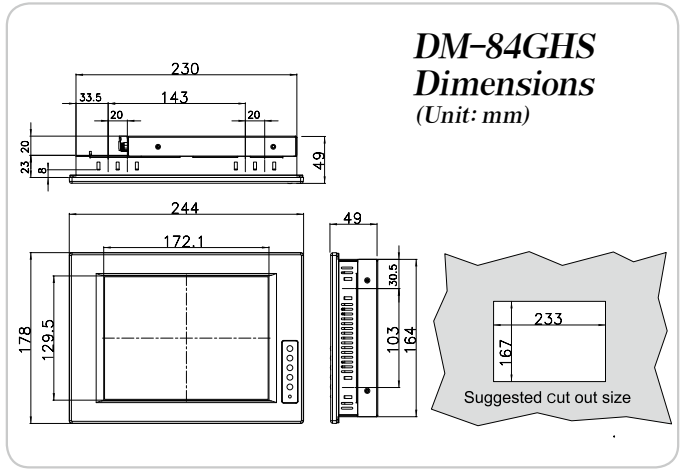
25%

25%

XGA Higher Resolution
• Presents vivid and fine display quality   • Increases viewable content

Mounting Kits

	SRM-150GS
Panel Mount Kit	PK-170M
Wall Mount Kit	WK-190MS-R10
Rack Mount Kit	RK-150MS-R10
LCD Monitor Arm	ARM-31
LCD Monitor Stand	STAND-210-R11

Packing List

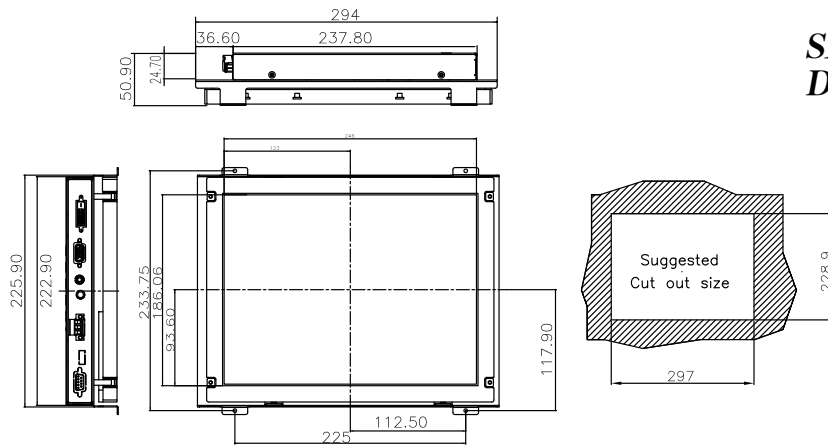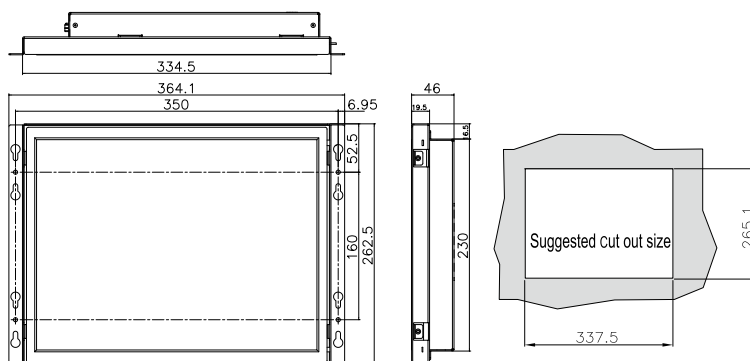| Description	Part Number	Remark
1 x AC power cable	32000-089900-RS	Length: 1800mm (EU or US, Which type of cord is shipped depends on the contry)
1 x VGA cable	32000-036200-RS	Length:1800mm
1 x DVI cable	32000-086600-RS	Length:1800mm
1 x 36W AC power adapter	63000-FSP036RAB610-RS	Operating Temperature : 0ºC~ +40ºC (for 12V DC Input Model Only)
1 x User manual		
1 x Power cable for terminal block	32100-041001-RS	For M model only
1 x Touch screen RS-232 Cable / USB cable / Driver CDROM	RS-232 Cable:32005-001100-100-RS USB Cable:32001-006100-100-RS	Length:1800mm Length:1500mm
1 x Touch pen	43125-0002C0-00-RS	

Ordering Information

● 12.1" XGA SRM Series

Model	Description
SRM-121XA/R-R30	12.1" 1000cd/m² sun readable XGA LCD monitor, Aluminum Front Panel,Silver Color,w/VGA and DVI-D input, w/12.1" RS-232 and USB Touch Screen, R40, RoHS
SRM-121XMA/R-R30	12.1" 100cd/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" RS-232 and USB Touch Screen, R40, RoHS

● 15" XGA SRM Series

Model	Description
SRM-150GS/R-R30	15" 800cd/m² Sun Readable XGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/15" RS-232 and USB Touch Screen, R30, RoHS
SRM-150GMS/R-R30	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" RS-232 and USB Touch Screen, R30, RoHS

● 12.1"/15" SRM-KIT Series

Model	Description
SRM-KIT121XA-R30	12.1" 1000 cd/m² Sun Rdadable XGA TFT LCD kit,VGA and DVI-D input, R30, RoHS
SRM-KIT150G-R30	15" 800 cd/m² Sun Rdadable XGA TFT LCD kit, VGA and DVI-D input, R30, RoHS
SRM-KIT121XMA-R30	12.1" 1000 cd/m² Sun Readable XGA TFT LCD kit, VGA and DVI-D input, w/9-36V DC input, R30, RoHS
SRM-KIT150GM-R30	15" 800 cd/m² Sun Readable XGA TFT LCD kit, VGA and DVI-D input, w/9-36V DC input, R30, RoHS

DM-65GHS Dimensions
(Unit: mm)

Suggested cut out size

DM-84GHS Dimensions
(Unit: mm)

Suggested cut out size

DM-104GHS Dimensions *(Unit: mm)*

Suggested cut out size

DM-121GXS / TDM-121GMS Dimensions *(Unit: mm)*

Suggested Cut out size

DM-150GS / TDM-150GMS / SRM-150GS Dimensions *(Unit: mm)*

Suggested Cut out size

DM-170G
Dimensions *(Unit: mm)*

Suggested cut out size

DM-190G
Dimensions *(Unit: mm)*

Suggested cut out size

SRM-KIT121G
Dimensions *(Unit: mm)*

Suggested Cut out size

SRM-KIT150G
Dimensions *(Unit: mm)*

Suggested cut out size

LCD Kit Series

6.5" ~ 17" Open Frame LCD Monitor with OSD Function

Sunlight Readable Available

Features

1. 6.5"~17" modular architecture for efficient integration
2. Over 300cd/m² high brightness and 50000hrs MTFB long lifetime panel
3. Analog VGA or digital DVI interfaces support most of general systems
4. Sunlight readable option
5. Support software OSD for remote control applictions

smart OSD

Specifications

1000 nits   **800 nits**

Model	LCD-KIT65GH	LCD-KIT84GH	LCD-KIT104GH	LCD-KIT121GX	LCD-KIT150G	LCD-KIT170G	SRM-KIT121XA	SRM-KIT150G
LCD Size	6.5"	8.4"	10.4"	12.1"	15"	17"	12.1"	15"
Input Interface	Analog VGA			Analog VGA + DVI-D				
Max. Resolution	640 x 480	800 x 600	800 x 600	1024 x 768	1024 x 768	1280 x 1024	1024 x 768	1024 x 768
Brightness (cd/m²)	800	450	400	500	400	350	1000	800
Contrast Ratio	600 : 1	600 : 1	700 : 1	700 : 1	700 : 1	800 : 1	700:1	600:1
Display Color	262K	262K	262K	262K	16.2M	16.7M	262k	262k
Pixel Pitch (mm)	0.207	0.213	0.264	0.3075	0.297	0.264	0.240	0.297
Viewing Angle (H/V)	160/140	160/140	160/140	160/160	160/140	170/160	120°/120°	150°/110°
Chassis	Heavy-duty							
Input Voltage	12VDC	12VDC or 9-36VDC						
OSD Function	Yes							
Smart-OSD	Yes							
Mounting	Panel							
Dimensions (W x H x D mm)	203 x 121 x 34	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	316 x 224.4 x 47.9	364.1 x 262.5 x 46
Operating Temperature	-10°C~50°C						-10°C~60°C	
Net Weight	1 kg	1.8 kgs	3 kgs	3.8 kgs	6 kgs	8.6 kgs	3.3 kgs	6 kgs
Power Adapter	36W, 63000-FSP036RAB610-RS				50W, 63000-FSP050DBAB1411-RS		36W, 63000-FSP036RAB610-RS	

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

Ordering Information

	Part No.	Description
6.5"	LCD-KIT65GH-R20	6.5" 800cd/m² High luminance VGA TFT LCD kit, VGA input, R20, RoHS
8.4"	LCD-KIT84GH-R20	8.4" 450cd/m² High luminance SVGA TFT LCD kit, VGA input, R20, RoHS
	LCD-KIT84GHM-R21	8.4" 450cd/m² High luminance SVGA TFT LCD kit, VGA input, 9~36V DC input, R21, RoHS
10.4"	LCD-KIT104GH-R20	10.4" 400cd/m² High luminance SVGA TFT LCD kit, VGA input, R20, RoHS
	LCD-KIT104GHM-R21	10.4" 400cd/m² High luminance SVGA TFT LCD kit, VGA input, 9~36V DC input, R21, RoHS
12.1"	LCD-KIT121GX-R20	12.1" 500cd/m² XGA TFT LCD kit, VGA and DVI-D input, R20, RoHS
	LCD-KIT121GXM-R21	12.1" 500cd/m² XGA TFT LCD kit, VGA and DVI-D input, 9~36V DC input, R21, RoHS
	SRM-KIT121XA-R30	12.1" 1000 cd/m² Sun Readable XGA TFT LCD kit, VGA and DVI-D input, R30, RoHS
	SRM-KIT121XMA-R30	12.1" 1000 cd/m² Sun Readable XGA TFT LCD kit, VGA and DVI-D input, w/9-36V DC input, R30, RoHS
15"	LCD-KIT150G-R30	15" 400cd/m² XGA TFT LCD kit, VGA and DVI-D input, R30, RoHS
	LCD-KIT150GM-R30	15" 400cd/m² XGA TFT LCD kit, VGA and DVI-D input, 9~36V DC input, R30, RoHS
	SRM-KIT150G-R30	15" 800 cd/m² Sun Rdadable XGA TFT LCD kit, VGA and DVI-D input, R30, RoHS
	SRM-KIT150GM-R30	15" 800 cd/m² Sun Readable XGA TFT LCD kit, VGA and DVI-D input, w/9-36V DC input, R30, RoHS
17"	LCD-KIT170GS-R30	17" 350cd/m² SXGA TFT LCD kit, VGA and DVI-D input, R30, RoHS
	LCD-KIT170GM-R30	17" 350cd/m² SXGA TFT LCD kit, VGA and DVI-D input, 9~36V DC input, R30, RoHS

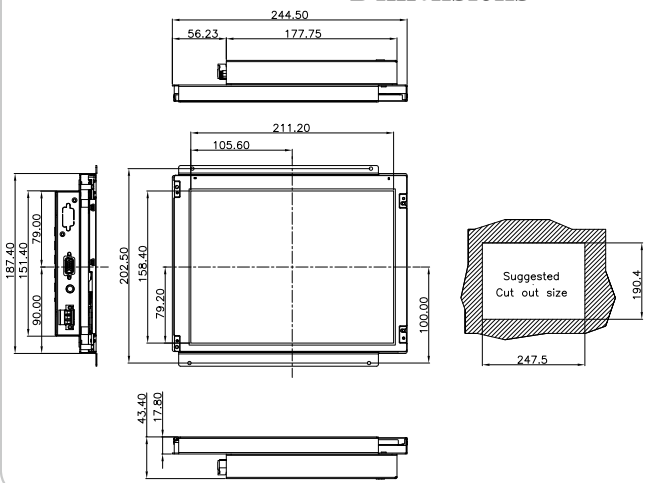Note: The smartOSD function is supported by revision 11 models and above

LCD-KIT65GH
Dimensions *(Unit: mm)*
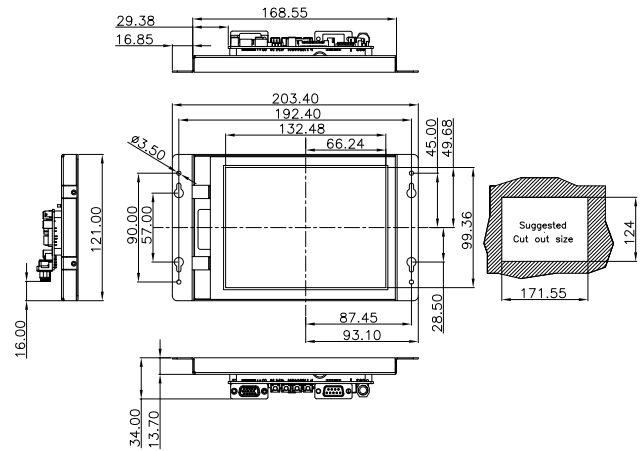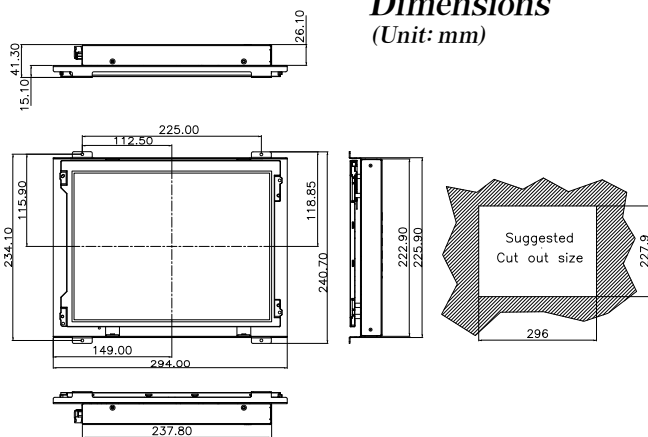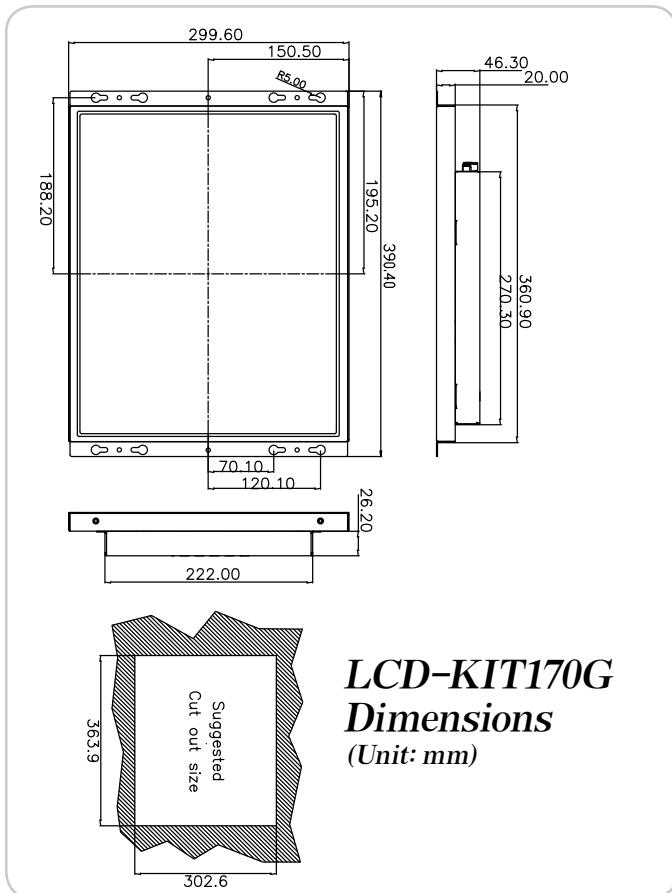

LCD-KIT84GH
Dimensions *(Unit: mm)*
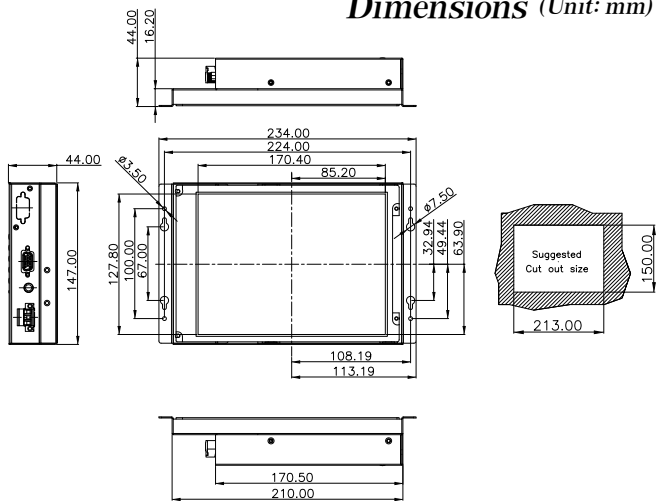
LCD-KIT104GH
Dimensions *(Unit: mm)*

LCD-KIT121G
Dimensions
(Unit: mm)

LCD‑KIT150G
Dimensions
(Unit: mm)

Suggested Cut out size

SRM‑KIT150G
Dimensions
(Unit: mm)

Suggested cut out size

LCD‑KIT170G
Dimensions
(Unit: mm)

Suggested Cut out size
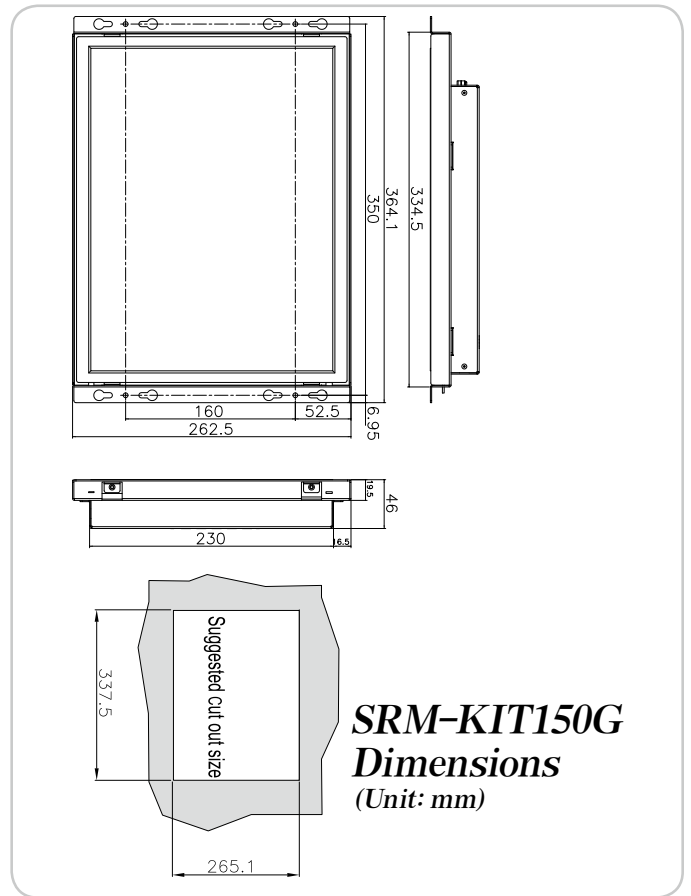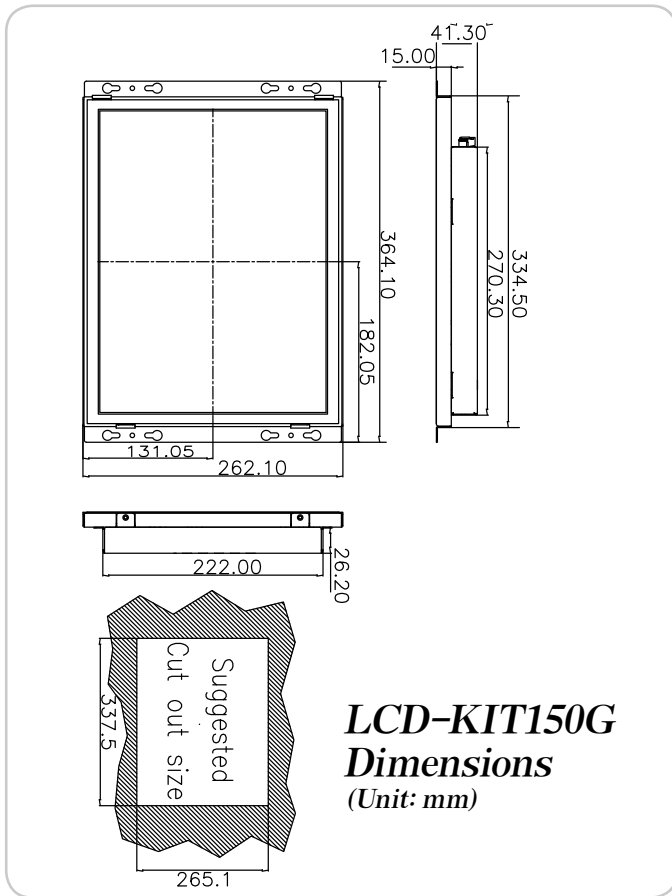
Touch Screen Series

6.5" ~ 17" Resistive LCD Touch Screen Kit
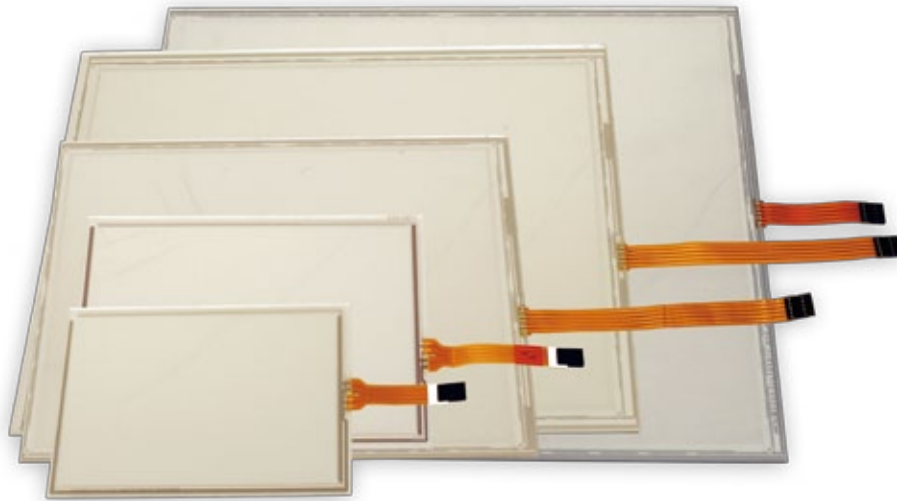
Features

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

Packing List

1 x Touch screen
1 x Controller board
1 x Touch cable
1 x Touch driver on CD-ROM
1 x RS-232 / USB cable

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-R065G Dimensions *(Unit: mm)*
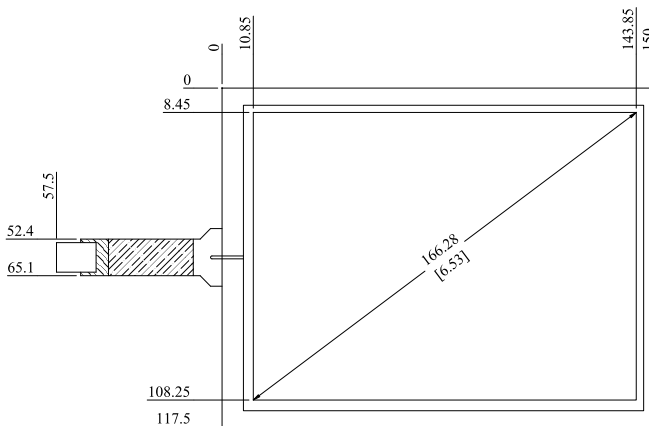
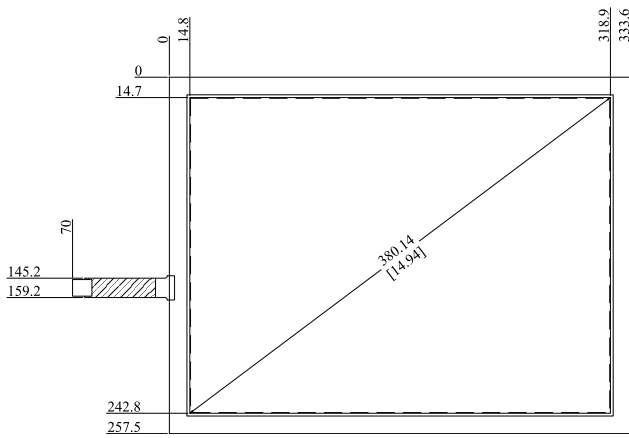## T-R084G Dimensions *(Unit: mm)*
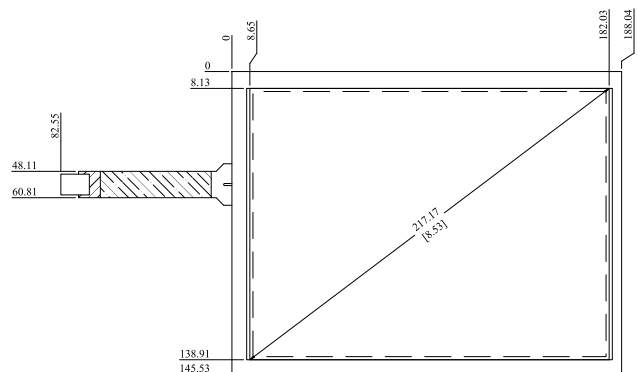
T-R104G
Dimensions *(Unit: mm)*
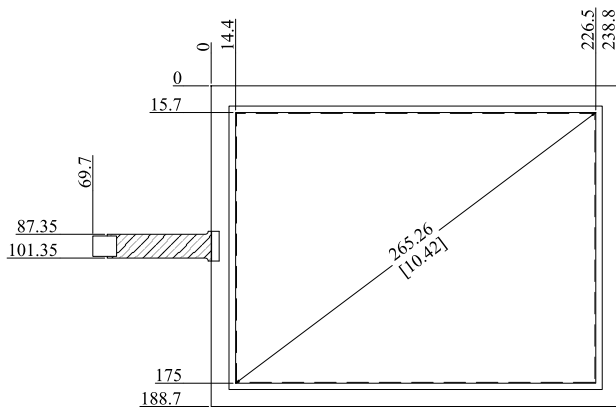
T-R121G
Dimensions *(Unit: mm)*
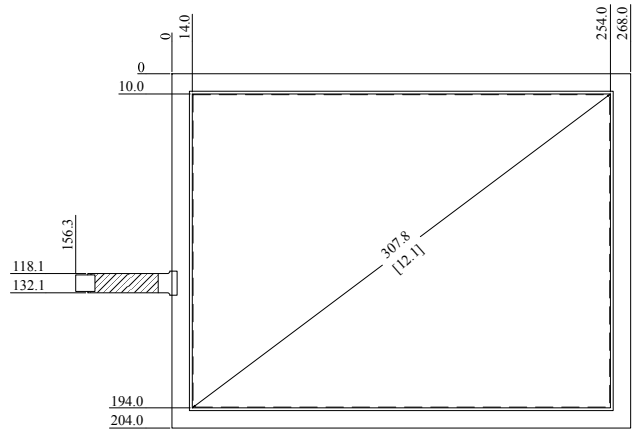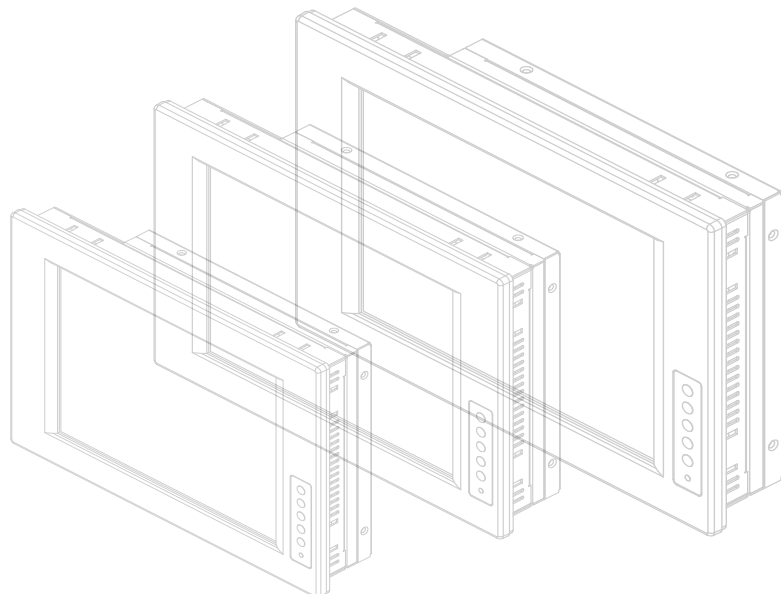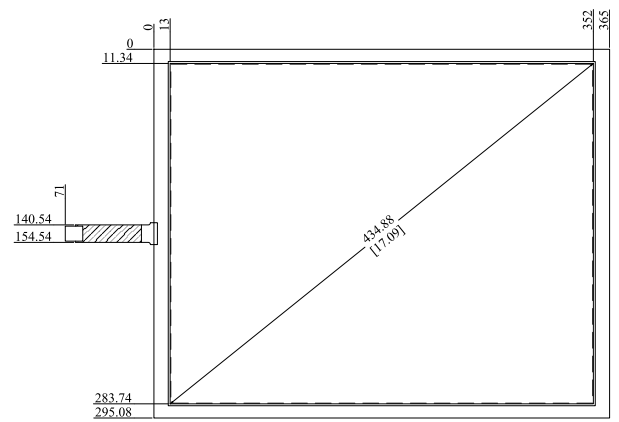

T-R150G
Dimensions *(Unit: mm)*

T-R170G
Dimensions *(Unit: mm)*

AFOLUX Multimedia Monitors

7"~19" AFOLUX Touch Monitors

- 7"~19" LCD monitor with resistive touch panel

- Multiple video input interface: VGA/S-Video/Component/Composite/DVI

- PIP function

- Ambient light sensor

- Built-in two speakers

- IP 64 front panel protection

■ Stylish Design

The clean and refreshingly simple look of the AFOLUX monitor provides an aesthetic interface for public area applications (e.g. ATMs) and industrial solutions (e.g. operator terminal).
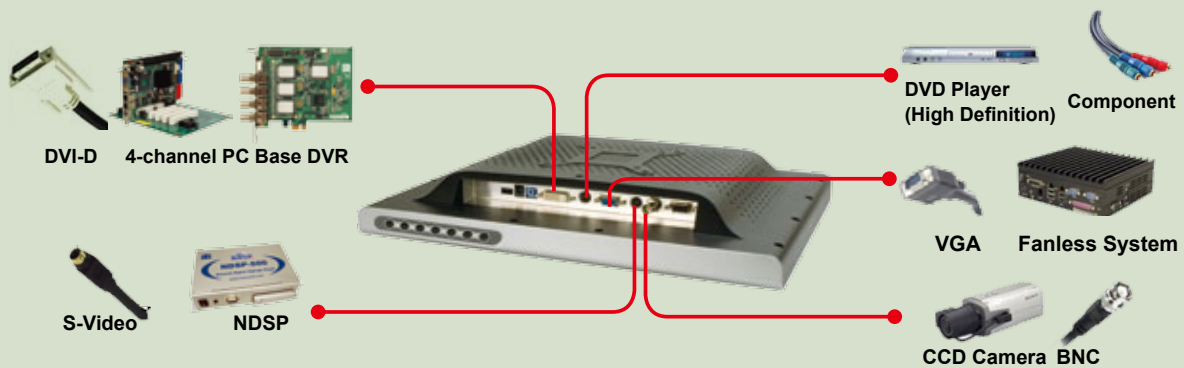
■ Light Weight Construction

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

DM-150GS 6kgs

AFL-15M 3.2kgs

Only Half Weight of DM Series

■ Five 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 are 4-in-1 systems with VGA, S-Video, component and composite)

DVI-D   **4-channel PC Base DVR**

DVD Player (High Definition)   **Component**

VGA   **Fanless System**

**S-Video**   **NDSP**

CCD Camera   **BNC**

■ PIP Function

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 on-screen 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 window color controls (brightness, contrast, hue and saturation)
■ A blend function makes the PIP transparent

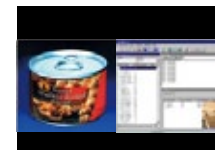Main screen and sub screen can't display BNC/S-Video or VGA/YPbPr inputs at the same time
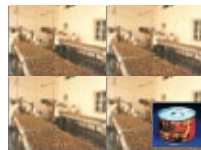
Picture In Picture
(Video on Video)

Side by Side
(Video & Video)

Picture In Picture
(Video on Graphics)

Side by Side
(Video & Graphics)

■ Remote Control for OSD Function

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

LCD ON/OFF
Main Source Setting
PIP Zone
Mute

Auto Dimming
OK
Auto-adjustment/Exit
Brightness
Contrast
Volume
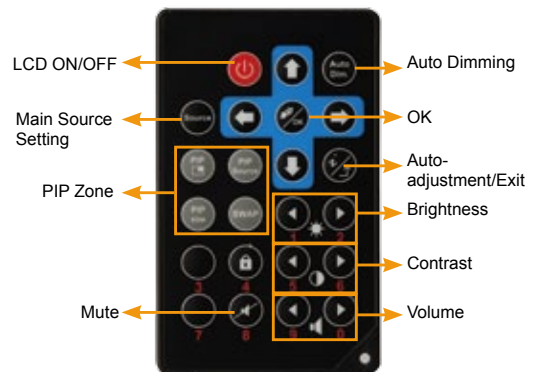
■ Full OSD Function

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

Image

System

Color

PIP

Display

Right
Left
MENU
Auto
Down
UP
LCD ON/OFF

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

■ Ambient Light Sensor

The AFOLUX 15M, 17M and 19M models come with an ambient light sensor (ALS) to ensure your monitor performs optimally in all lighting conditions.

The ALS can be turned on or off according to the user's preference and the operating environment. Some of the ALS benefits include:

■ Reduced cost of operation by reducing the power usage
■ Extended backlight life
■ Provides comfortable viewing

- Higher Ambient Illuminance

- Lower Ambient Illuminance

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

■ Applications

Interactive digital signage

Digital menu boards in restaurants

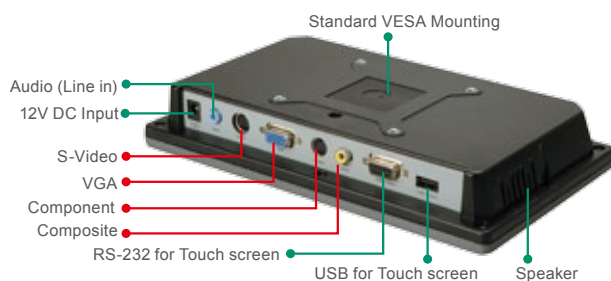Video gaming machines in bars and casinos

Specifications

Model	AFL-07M	AFL-08MH	AFL-10M	AFL-12M	AFL-15ME	AFL-17M	AFL-19M
LCD Size	7"	8.4"	10.4"	12.1"	15"	17"	19"
Input Interface	1. Composite (NTSC/PAL) 2. YPbPr 3. S-Video 4. VGA				1. BNC Connector (NTSC/PAL) 2. YPbPr 3. S-Video 4. VGA 5. DVI		
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)	500	450	400	500	250	350	350
Contrast Ratio	400:1	600:1	700:1	700:1	700:1	700:1	1000:1
Display Color	262K	262K	262K	262K	16.2M	16.7M	16.7M
Pixel Pitch (mm)	0.1905	0.213	0.264	0.24	0.297	0.264	0.294
Viewing Angle (H/V)	140º / 130º	160º / 140º	160º / 140º	160º / 140º	170º / 160º	170º / 160º	170º / 160º
Touch Screen	Resistive type 4-wire (touch controller IC is on board)		Resistive type 5-wire (touch controller IC is on board)				
Front Frame	ABS and PC Plastic front frame						
Chassis	Aluminum chassis						
Input Voltage	12VDC						
OSD Function	Remote control for OSD functions				1. OSD Keypad below the front panel 2. Remote control for OSD functions		
Smart-OSD	YES						
Mounting	Panel / Wall mounting (VESA 75mm x 75mm)		Panel / Wall mounting (VESA 75mm x 75mm / 100mm x 100mm)		Wall mounting (VESA 100mm x 100mm)		
Color	Gray 7539U				Sliver (877U) & Gray (ABSA2037)		
Dimensions (W x H x D)(mm)	226 x 140 x 40	234 x 184 x 41	276 x 227 x 51	304 x 246 x 50	393 x 308 x 61	428 x 350 x 65	470 x 382 x 67
Operating Temperature	0°C~+50°C						
Front Panel Protection	IP 64 Compliant						
Net Weight	0.88 Kg	1.14 Kg	1.33 Kg	2.12 Kg	3.2 Kg	5.0 Kg	5.6 Kg
Power Adapter	36W, 63000-FSP036RAB610-RS				60W, 63000-FSP060DBAB1553-RS		

7"~12.1" AFOLUX Monitor

4-in-1 Multiple Video Input System

Standard VESA Mounting

Audio (Line in)
12V DC Input
S-Video
VGA
Component
Composite
RS-232 for Touch screen
USB for Touch screen
Speaker

15"~19" AFOLUX Monitor

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

Standard VESA mounting
Speaker
DVI-D
12V DC IN
USB for Touch screen (Option)
OSD KEY PAD
Audio (Line in)
Component
VGA
S-Video
BNC
RS-232 for Touch screen(Option)
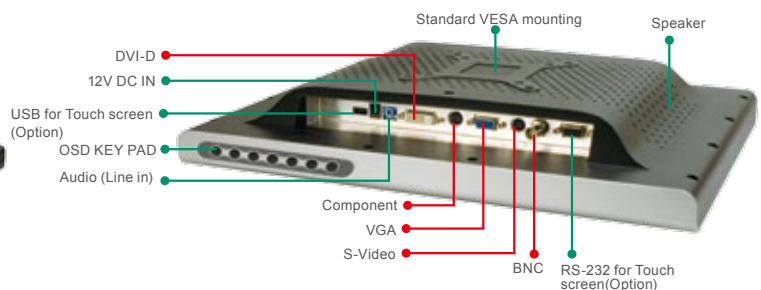
AFL-07M
Dimensions (*Unit: mm*)
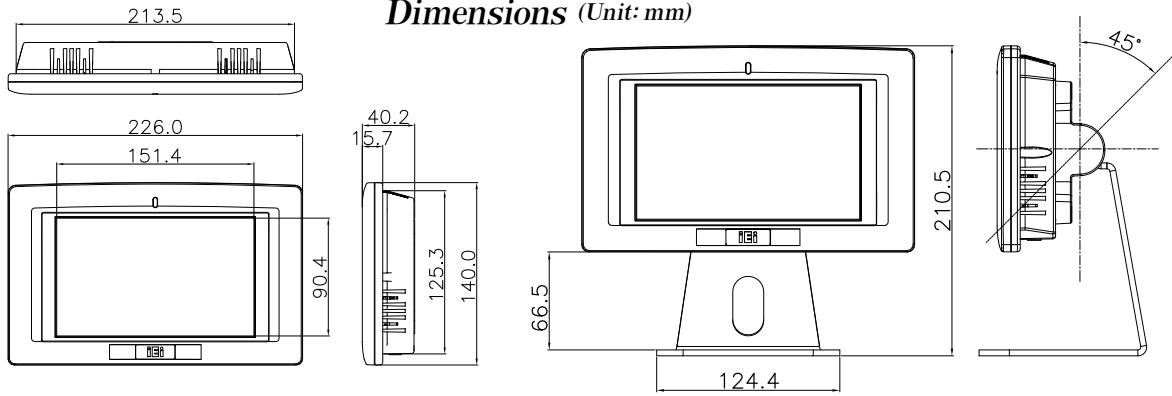
AFL-08M
Dimensions (*Unit: mm*)
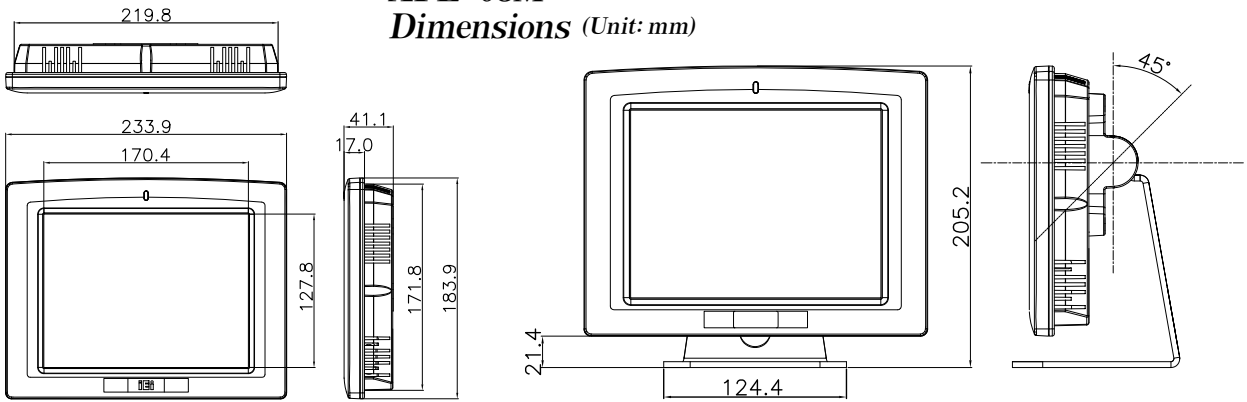
AFL-10M
Dimensions (*Unit: mm*)
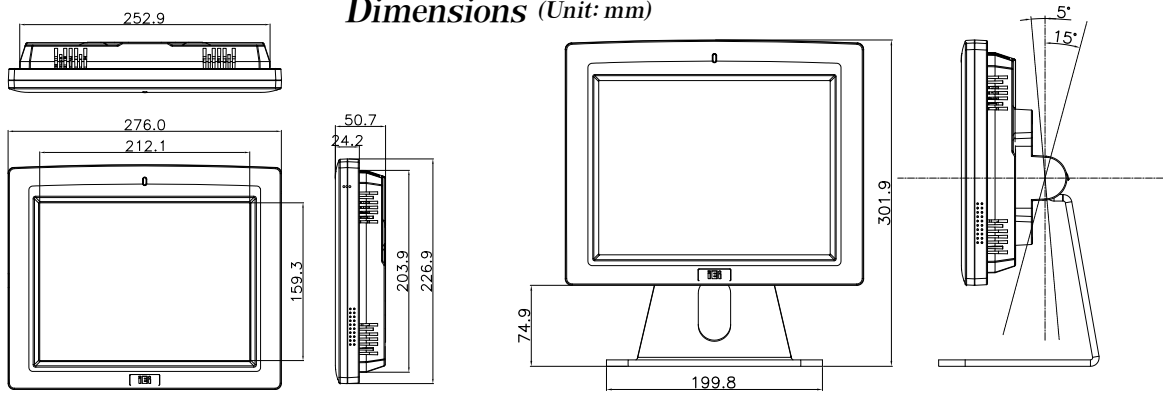
AFL-12M
Dimensions (*Unit: mm*)
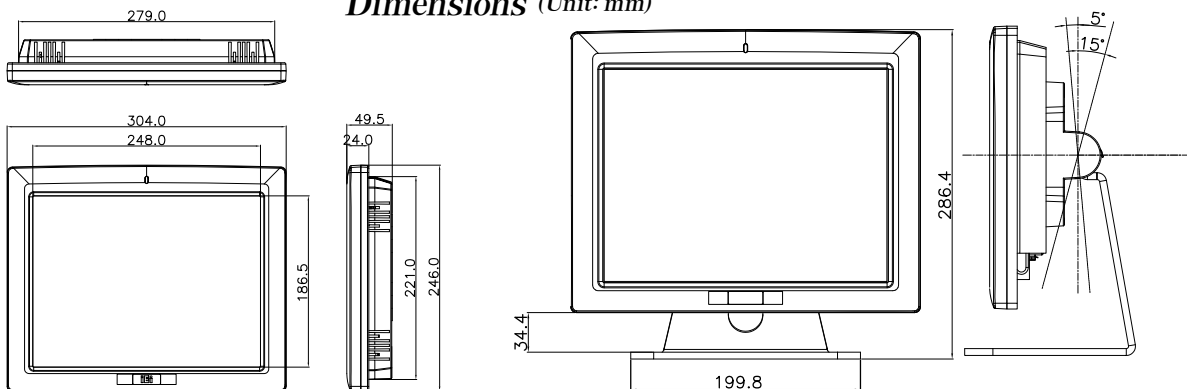
AFL-15M
Dimensions *(Unit: mm)*
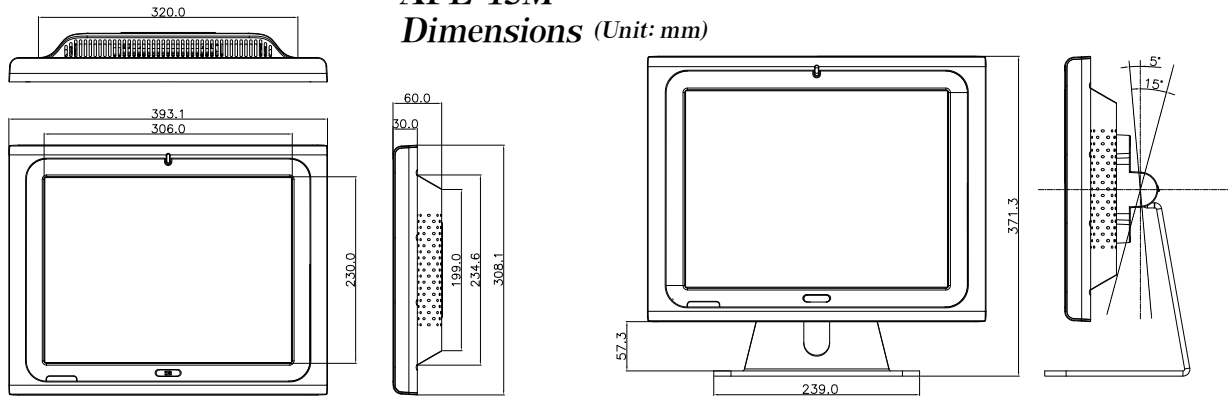
AFL-17M
Dimensions *(Unit: mm)*
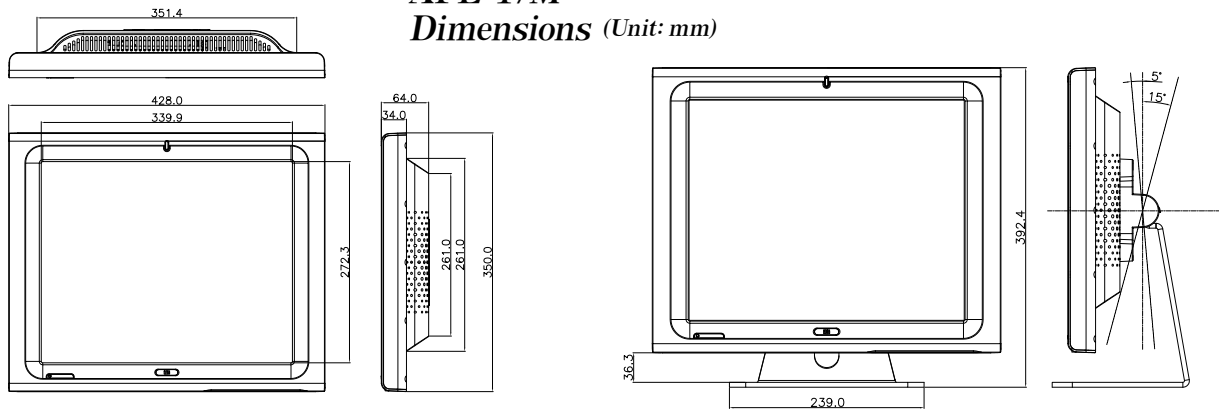
AFL-19M
Dimensions *(Unit: mm)*
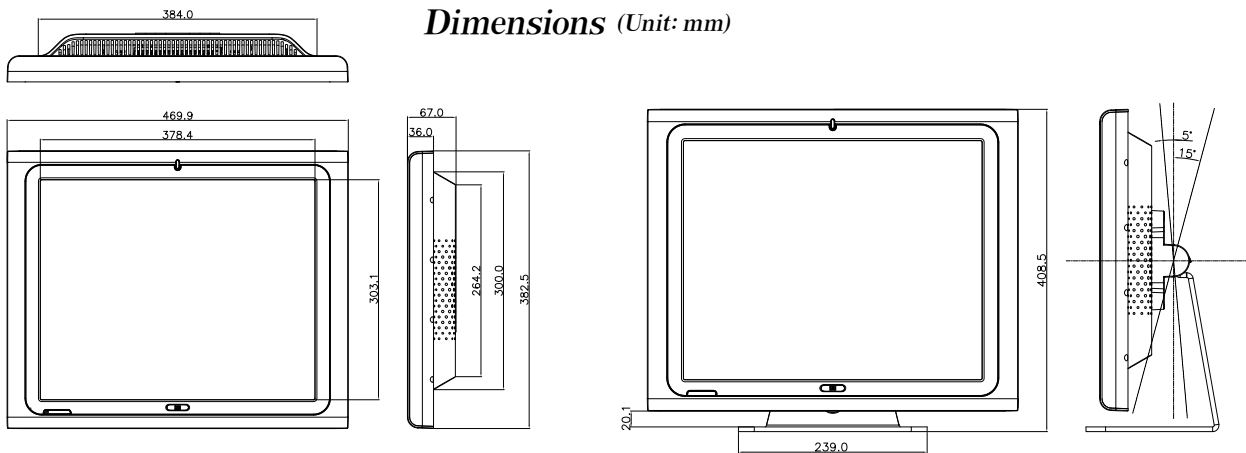
Options

Model	AFL-07M	AFL-08MH	AFL-10M	AFL-12M	AFL-15M	AFL-17M	AFL-19M
Panel Mounting Kits	AFLPK-08		AFLPK-12		AFLPK-15	AFLPK-17	AFLPK-19
Wall Mounting Kits	AFLWK-12				AFLWK-19B		
Rack Mounting Kits	AFLRK-07	AFLRK-08	AFLRK-10	AFLRK-12	AFLRK-15-R11	AFLRK-17-R11	N/A
LCD Monitor Stand	STAND-A08/STAND-100-RS		STAND-A12-RS/STAND-100-RS		STAND-A19-RS/STAND-A21-R10/STAND-210-R11		
VSTAND	VSTAND-A07		VSTAND-A10		VSTAND-A12	N/A	
DC to DC Converter Module	IDD-930160-KIT						

Ordering Information

Part NO	Description
AFL-07M/R-R20	7" 500cd/m² WVGA LCD monitor, plastic front panel, gray color, with 7" RS-232 and USB touch screen R20, RoHS
AFL-08MH/R-R20	8.4" 450cd/m² SVGA LCD monitor, plastic front panel, gray color, with 8.4" RS-232 and USB touch screen R20, RoHS
AFL-10M/R-R20	10.4" 400cd/m² SVGA LCD monitor, plastic front panel, gray color, With 10.4" RS-232 and USB touch screen R20, RoHS
AFL-12M/R-R20	12.1" 600cd/m² XGA LCD monitor, plastic front panel, gray color, With 12.1" RS-232 and USB touch screen R20, RoHS
AFL-15ME/R-R20	15" 250cd/m² XGA LCD monitor,plastic front panel,gray color,with 15" RS-232 touch screen R20, RoHS
AFL-17M/R-R20	17" 350cd/m² SXGA LCD monitor, plastic front panel, gray color, With 17" RS-232 touch screen R20, RoHS
AFL-17M-USB/R-R20	17" 350cd/m² SXGA LCD monitor, plastic front panel, gray color, With 17" USB touch screen R20, RoHS
AFL-19M/R-R20	19" 350cd/m² SXGA LCD monitor, plastic front panel, gray color, With 19" RS-232 touch screen R20, RoHS
AFL-19M-USB/R-R20	19" 350cd/m² SXGA LCD monitor, plastic front panel, gray color, With 19" USB touch screen R20, RoHS

Packing List

Description	Part No.	Remark
1 x AC power Cable	32000-089900-RS	Length: 1800 mm (EU or US, Which type of cord is shipped depends on the contry)
1 x VGA Cable	32000-036200-RS	Length: 1800 mm
1 x DVI Cable	32000-086600-RS	Length: 1800 mm For AFL-15M / 17M / 19M-R20
1 x Audio Cable	32007-001600-100-RS	Length: 1800 mm
1 x Component Cable	32010-000300-100-RS	Length:150 mm
1 x Component Extend Cable	32000-132800-RS	Length: 1800 mm
1 x 36W AC Power Adapter	63000-FSP036RAB610-RS	For AFL-07M / 08M / 10M / 12M-R20 series Operating Temperature : 0ºC~ +40ºC
1 x 60W AC Power Adapter	63000-FSP060DBAB1553-RS	For AFL-15M / 17M / 19M-R20 series Operating Temperature : 0ºC~ +40ºC
1 x User Manual		
1 x Remote Control	7Z000-8T00322ICP01G-RS	
1 x Touch Pen	43125-0002C0-00-RS	
1 x Touch screen RS-232 Cable / USB Cable / Driver CDROM	RS-232 cable:32005-001100-100-RS USB cable: 32001-006100-100-RS	Length: 1800 mm Length: 1500 mm RS-232 cable is for R models USB cable is for USB models

Remote Control

Touch Pen

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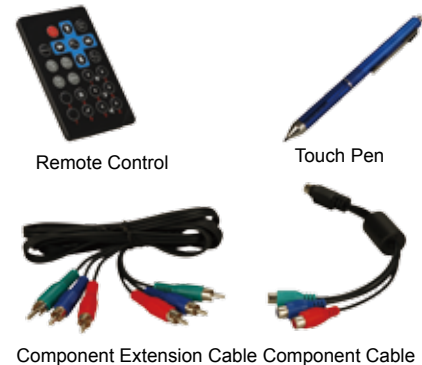
Optional 60W DC/DC Converter Module Spec. (P/N:IDD-930160-KIT)

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	250 Hz (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	42 mm x 103 mm x 31 mm
Mounting Kit	12 mm x 80 mm
Cable Length	180 cm
Operating Temperature	-40 °C ~ 85 °C

IDD-930160-KIT

60 W DC/DC converter module can be easily mounted in the vehicle equipment to supply DC power source.

IDD-930160-KIT(Optional)

Robot-TP-65M 6.5" Teaching Pendant

■ 6.5" control terminal, easy to use
- 800 nits high luminance control terminal with touchscreen to present its graphical user interface.
- 6-meter long all-in-one cable allows easy installation
- Ergonomic body design, easy to operate

■ Durable construction
- Completely dust and splash proof (IP 64) design
- 1 meter drop resistance
- 0°C~50°C extended operating temperature

■ Programming with 33-key membrane keypad and safety functions
(Emergency stop, 3-position dead-man switch, mode select switch with key)

Robot Controller   Mobile Display

■ Optimized keyboard layouts

Taking advantage of both real buttons the interface is straightforward for all users.

Key switch
(manual, automatic, teach)

Arrow/Cancel/OK/Speed key

LED Status Indicators
(Power , Ready, Auto, Servo, Enable)

Emergency stop button
(dual circuit)

Moving direction keys
to control 6-axis robot arm

Shift key/Fn Key/Screen/Servo/Lock/Mode

■ Equally suitable for right- or left-handed operation

Hook

Non-slip Design

2-contact 3-position
(OFF-ON-OFF) enabling
switch with rubber boot

Rubber edge
protectors

Back Side
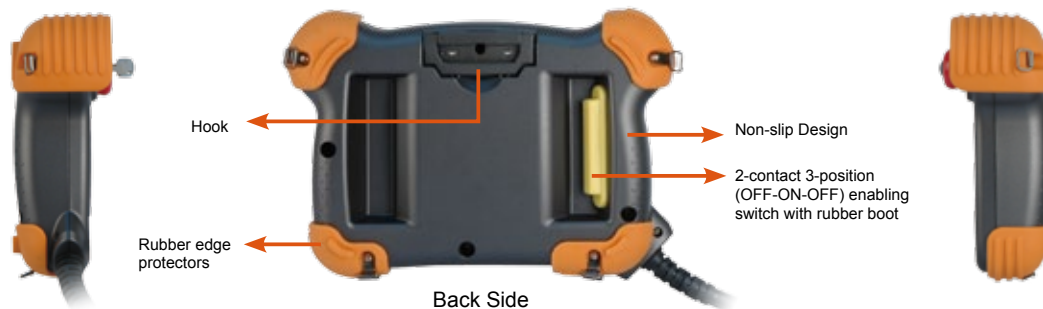
■ Durable construction

Fully IP 64 waterproof protection: prevent damage from oil and gas.

Pass the 1 m drop test.

■ Emergency Buttons

(1) 3-position (OFF-ON-OFF) enabling switch
● Ergonomically-designed OFF-ON-OFF operation.
● Easy recognition of position 1 to 2 transition is made possible by a snap action switch.
● Suficient difference in operating force is provided for shifting from position 2 to 3.

(2) Emergency stop
● Emergency stop switch can be reset either by pulling or turning.

Pull to reset

Turn to reset

■ Allows hours of fatigue-free working

● Adopts strap design to reduce user fatigue.
● Allows the operator to release the hands to do other jobs.
● Greatly enhance the efficiency of the operator.

Handheld front view

Handheld side view

Stably placed on the table

■ Friendly HMI operator interface (Optional)

Intuitive function menu

Convinient to switch between sfunction menus

Manual control mode

Include three motion modes and two coordinate modes for users to save information without hassles

Programming interface
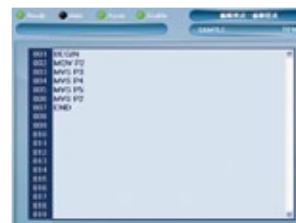
Simple programming interface allowing users to edit robot motion paths

Automatic execution

Run the programmed commands automatically. The cyclic operation mode is also supported.

System alarm

Record alarm logs to understand the robot operation status

External I/O status

Visualize the operation status of all 64 inputs and 64 outputs

Virtual keyboard

Virtual keyboard eases data input

Online help

Online FAQ and help center

Specifications

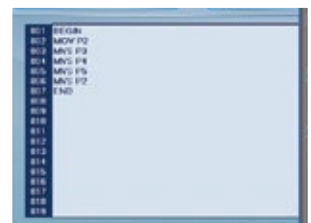| Model		Robot-TP-65M
Display	LCD Size	6.5"
	Max Resolution	640 (W) x 480 (H)
	Brightness (cd/m²)	800
	Contrast Ratio	600:1
	LCD Color	262k
	Pixel Pitch (mm) (HxV)	0.207 x 0.207
	Viewing Angle (V/H)	140°/160°
	MTBF	50,000 hrs (LED backlight)
LED Indicator		5 LEDs (Power , Ready, Auto, Servo, Enable)
Touch Controller		Penmount DMC6000
IO Interface	Video Input	VGA
	Touch Interface	RS-232
	Power Source	12VDC Input
	Keypad Control Interface	PS/2
OSD Control		Software OSD
Operating	Switches & keys	Switches: Emergency stop, 3-position dead-man switch, Mode select switch with key Keys: Moving direction, OK, Cancel, Speed (-/+), Shift, Function (F1~F6), Start, Servo, Lock, MOD , Menu, Stop, Cursor
	Touch Panel	4-wire resistive type touch panel
Emergency Stop Button		For B contacts, 4 circuit outputs (forced disjunction type)
Deadman switch (Enable switch)		3-position type (OFF-ON-OFF), 2 circuit outputs
Mode Selection Switch		3-positon (AUTO, MANUAL, TEACHCHECK), keylock switch. (switchable only with the key inserted)
Operating Temperature		0°C~50°C
Storage Temperature		-25°C~65°C
Humidity		<90% RH (no condensation allowed)
Vibration		Meet MIL-STD-810F
Drop Survival		1m (38 inch) 4 corners, 2 sides
Physical	Housing	ABS+PC
	Dimensions (LxWxH) (mm)	281 x 200 x 83
	Weight (N/W)	3.32kgs
	IP Rating	6-side IP 64 waterproof
	Color	Gray Pantone 8405C
Cable Length		6 meter
Power Consumption		6.6W

Ordering Information

Part NO	Description
Robot-TP-65M/K-ML-R10	6.5" 800cd/m² VGA TFT LCD teach pendant with touch screen, key switch, 3-position dead-man switch, emergency button, 37-pin military connector, R10
Robot-TP-65M/K-R10	6.5" 800cd/m² VGA TFT LCD teach pendant with touch screen, key switch, 3-position dead-man switch, emergency button, R10
Robot-TP-84M/K-ML-R10 Coming Soon	8.4" 250cd/m2 SVGA TFT LCD teach pendant with touch screen, key switch, 3-position dead-man switch, emergency button, 37-pin military connector, R10
Robot-TP-84M/K-R10 Coming Soon	8.4" 250cd/m2 SVGA TFT LCD teach pendant with touch screen, key switch, 3-position dead-man switch, emergency button, R10
Robot-TP-84M-R10 Coming Soon	8.4" 250cd/m2 SVGA TFT LCD teach pendant with touch screen, emergency button, R10

Dimensions (Unit: mm)
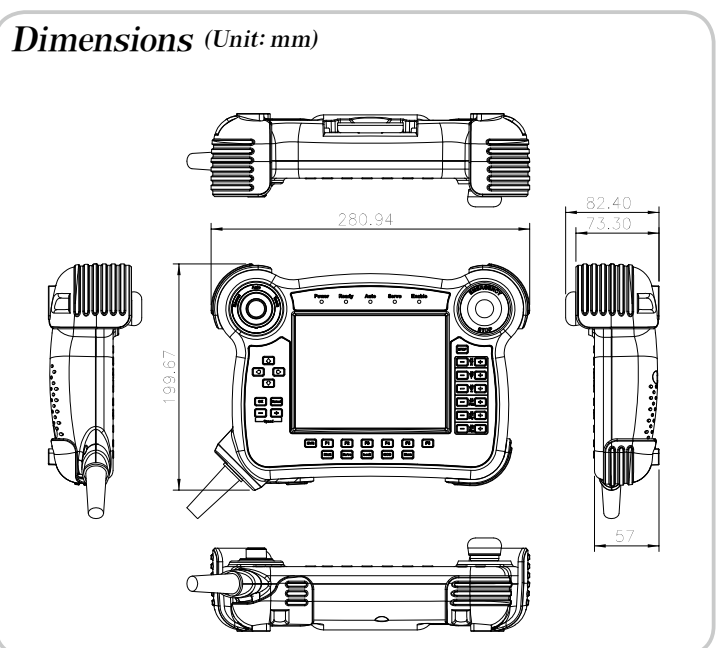
LKM-926G/9268G

15" LCD Monitor/ Keyboard/ Mouse/ Speaker/ KVMA Switch 5-in-1 1U Height Drawer

No special cables required to connect up to 8 computers!
Five functions: LCD monitor, keyboard, mouse, speaker and KVMA switch

LKM-9268G
Two self-clich prevents the keyboard from sliding and shaking

No special cables and connecting up to eight computers !
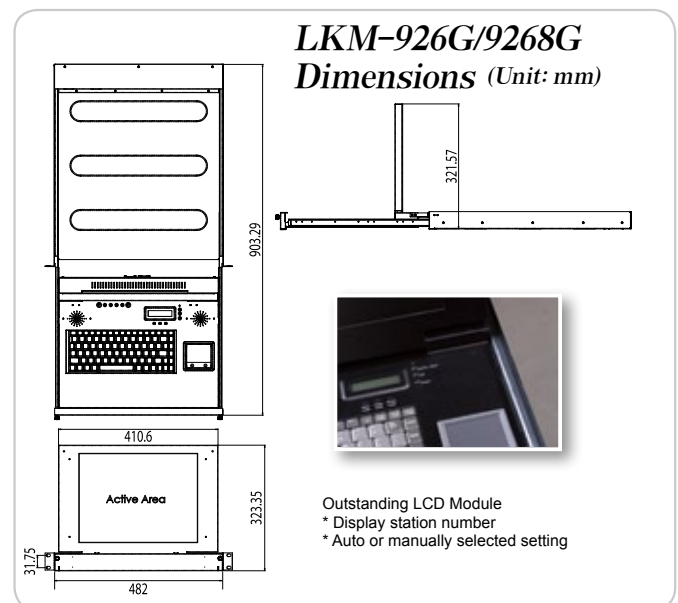
Features

1. Outstanding LCD Module : Channel change control, auto scan control, programmable station name

2. KVMA Switch : 8-port KVMA switch can be manually or automatically set via LCD module

3. Standard support of English version keyboard. Japanese, German, French and Italian keyboards are optional

4. Embedded speaker can support alarm warning notice or audio application

5. Hot Pluggable - Add or remove computers without having to power down the switch

Specifications

			LKM-926G	LKM-9268G
System Connections			1	8
LCD Specifications	LCD Size		15"	
	Resolution		1024 x 768	
	Brightness (cd/m²)		350 cd/m²	
	Display Color		262k	
	Viewing Angle (CR=10)		400:1	
	Contrast Ratio		120º / 100º	
	LCD MTBF (hrs)		50000	
Connectors	KVMA Port	Keyboard	1 x PS/2 (Purple)	8 x PS/2 (Purple)
		Video	1 x HDB-15 Male (Blue)	8 x HDB-15 Male (Blue)
		Mouse	1 x PS/2 (Green)	8 xPS/2 (Green)
		Speaker	1 x ø 3.5 Stereo Plug (Red)	8 x ø 3.5 Stereo Plug (Red)
LCM Adjustment			No	Yes
Computer Port Selection			No	Auto-scan/ Pushbutton
Switch	LCD Power		1 x Pushbutton	
	Speaker		1 x Pushbutton	
	LCM Adjustment		No	3 x Pushbutton
Color			Black (PANTONE Black C) or White (PANTONE 413C)	
Environment	Operating Temp.		0~50˚C	
	Humidity		5-95%, non-condensing	
	Shock		10G acceleration peak to peak (11ms)	
	Vibration		5-17Hz, 0.1" double amplitude displacement.17-640Hz, 1.5G acceleration peak to peak.	
Physical Properties	Housing		Metal	
	Dimensions (L x W x H mm)		482 x 323.25 x 520	

Packing List

Part Number	Description	Amount
41020-009501-00-RS	Rack mount bracket (Long)	2
41020-009001-01-RS	Rack mount bracket (Short)	2
LKM-CB18A-RS	1.8M cable Set	1
32000-000002-RS	18.3 cm round cable power cord	1
19600-000082-RS	Screw set	1
63SPU45E201-000-RS	AD/DC power supply (For AC input model)	1
63000-ACEN023T-RS	48 VDC/DC power supply (For 48VDC input model)	1
63000-ACEN023C-RS	24 VDC/DC power supply (For 24VDC input model)	1

LKM−926G/9268G Dimensions *(Unit: mm)*

321.57
903.29
410.6
323.35
31.75
482

Active Area

Outstanding LCD Module
* Display station number
* Auto or manually selected setting

Ordering Information

LKM-926G [C] - [L]-R20	Single Input 15" LCD / Keyboard / Mouse / Speaker 1U drawer includes 1.1M length cable set.AC Input, R20
LKM-926G [C] T - [L]-R20	Single Input 15" LCD / Keyboard / Mouse / Speaker 1U drawer includes 1.1M length cable set. 48VDC input, R20
LKM-926G [C] - [C] - [L]-R20	Single Input 15" LCD / Keyboard / Mouse / Speaker 1U drawer includes1.1M length cable set. 24VDC input, R20

LKM-9268G [C] - [L]-R20	8 input 15" LCD / Keyboard / Mouse / Speaker 1U drawer, AC input, R20
LKM-9268G [C] T - [L]-R20	8 input 15" LCD / Keyboard / Mouse / Speaker 1U drawer, 48VDC input, R20
LKM-9268G [C] - [C] - [L]-R20	8 input 15" LCD / Keyboard / Mouse / Speaker 1U drawer, 24VDC input, R20

[C] Color Code B: Black **W:** White
[L] Language Code EN: English, **JP:** Japanese, **DE:** German, **FR:** French, **IT:** Italian, **TW:** Traditional Chinese, **SP:** Spanish, **RU:** Russian

Options

LKM-CB18A-RS	1.8 M cable set; includes VGA, Keyboard, Mouse and Audio cable
LKM-CB30A-RS	3.0 M cable set; includes VGA, Keyboard, Mouse and Audio cable
LKM-CB50A-RS	5.0 M cable set; includes VGA, Keyboard, Mouse and Audio cable

LKM-927G/9278G

17" LCD Monitor / Keyboard / Mouse / Speaker / KVMA Switch 5-in-1 1U Height Drawer

LKM-9278GB

LKM-9278GW

No special cables required for connecting up to eight computers !

Convenient OSD Control Buttons

Two internal Speakers with audio on/off switch

Touch pad and two control buttons

Two self-clinch prevents the keyboard from sliding and shaking

Auto-scanning, selecting and editing computer ports by LCD module control buttons

5-in-1 1U height drawer !
LCD monitor, keyboard, mouse, speaker and KVMA switch

The LKM-927G and LKM-9278G LCD KVMA control units allow secure access to one or multiple computers from a single KVMA (keyboard, video, mouse and audio) console in a system rack.

A single LKM-927G or LKM-9278G can control up to 8 computers. The LKM-927G and LKM-9278G both feature 17" LCD monitor and keyboard with built-in touchpad in a 1U rack. The five-in-one space-saving design has either one (LKM-927G) or eight (LKM-9278G) ports to be conveniently installed in 1U system rack.

Features

1. Integrated KVMA console (88-key keyboard and touchpad) with 17" LCD monitor in a 1U rack maximizes space in your control center.
2. Supports up to 1280x1024 resolution
3. Wide viewing angles: 160° wide viewing angle for easy viewing
4. Hot-pluggable capabilities enables the addition or removal of computers without having to power down the switch
5. Multiple languages supported: English, Japanese, German, French, Italian, Traditional Chinese, Spanish, and Russian version keyboard supported.
6. Auto-scan mode: Automatically scan the port with an interval of 10 seconds so that users can monitor their activity automatically. (For LKM-9278G)
7. Editable station name: Allow users to name each computer station on the LCD module to easily manage every station. (For LKM-9278G)
8. Optional DC power input: 48 VDC or 24 VDC power input options for more mobile and server room applications

Specifications

		LKM-927G	LKM-9278G
System Connections		1	8
LCD Specifications	LCD Size	17"	
	Resolution	1280x1024	
	Luminance (cd/m²)	380	
	Display Color	16.7M	
	Viewing Angle (CR=10)	170º / 160º	
	Contrast Ratio	1000:1	
	LCD MTBF	50000 hrs	
Connectors	KVMA Port Keyboard	1 x PS/2 (Purple)	8 x PS/2 (Purple)
	Video	1 x HDB-15 Male (Blue)	8 x HDB-15 Male (Blue)
	Mouse	1 x PS/2 (Green)	8 xPS/2 (Green)
	Speaker	1 x ø 3.5 Stereo Plug (Red)	8 x ø 3.5 Stereo Plug (Red)
LCM Adjustment		No	Yes
Computer Port Selection		No	Auto-scan / Pushbutton
Switch	LCD Power	1 x Pushbutton	
	Speaker	1 x Pushbutton	
	LCM Adjustment	No	3 x Pushbutton
Color		Black (PANTONE Black C) or White (PANTONE 413C)	
Environment	Operating Temp.	0~50˚C	
	Humidity	5%~85%RH	
	Shock	10G acceleration peak to peak (11ms)	
	Vibration	5-17Hz, 0.1" double amplitude displacement.17-640Hz, 1.5G acceleration peak to peak.	
Physical Properties	Housing	Metal	
	Weight	17kg	
	Dimensions (L x W x H)	57.2 x 48.2 x 4.4 cm (17"/1U)	

Dimensions *(Unit: mm)*

572
928
68
100
130
130
100
38
482
465
433
44
32
367

Packing List

Part Number	Description	Amount
41020-009501-00-RS	Rack mount bracket (Long)	2
41020-009001-01-RS	Rack mount bracket (Short)	2
LKM-CB18A-RS	1.8M cable set	1
32000-000002-RS	18.3 cm round cable power cord	1
19600-000082-RS	Screw set	1
63SPU45E201-000-RS	AD/DC power supply (For AC input model)	1
63000-ACEN023T-RS	48 VDC/DC power supply (For 48VDC input model)	1
63000-ACEN023C-RS	24 VDC/DC power supply (For 24VDC input model)	1

Ordering Information

LKM-927G [C] - [L] -R20	Single input 17" LCD Monitor / Keyboard / Mouse / Speaker 1U Drawer with individual monitor and keyboard module, AC input, R20
LKM-927G [C] T - [L] -R20	Single input 17" LCD Monitor / Keyboard / Mouse / Speaker 1U Drawer with individual monitor and keyboard module, 48VDC input, R20
LKM-927G [C] C - [L] -R20	Single input 17" LCD Monitor / Keyboard / Mouse / Speaker 1U Drawer with individual monitor and keyboard module, 24VDC input, R20
LKM-9278G [C] - [L] -R20	8 inputs 17" LCD Monitor / Keyboard / Mouse / Speaker 1U drawer with individual monitor and keyboard module, AC input, R20
LKM-9278G [C] T - [L] -R20	8 inputs 17" LCD Monitor / Keyboard / Mouse / Speaker 1U drawer with individual monitor and keyboard module, 48VDC input, R20
LKM-9278G [C] C - [L] -R20	8 inputs 17" LCD Monitor / Keyboard / Mouse / Speaker 1U drawer with individual monitor and keyboard module, 24VDC input, R20

Note:

[C] Color Code   B: Black   **W:** White
T: 48VDC power input model
C: 24VDC power input model
[L] Language Code   EN: English, **JP:** Japanese, **DE:** German, **FR:** French,
IT: Italian, **TW:** Traditional Chinese, **SP:** Spanish, **RU:** Russian