

Industrial Monitor Redefine DM-F Series



Flexible Video Input Selection



DM-F provides comprehensive video input from conventional analog VGA to broad bandwidth digital HDMI and DisplayPort to fulfill different needs.



Benefits of DisplayPort

- 17.28 Gbit/s broad bandwidth for faster transmission
- 15M for 1080p 60fps long transmission distance
- Blu-ray disc content support
- Lockable cables against vibration
- Downward convertible for HDMI and DVI



Benefits of HDMI

- Single-link bandwidth to 340 MHz (10.2 Gbit/s)
- Blu-ray disc content support
- Downward convertible for DVI

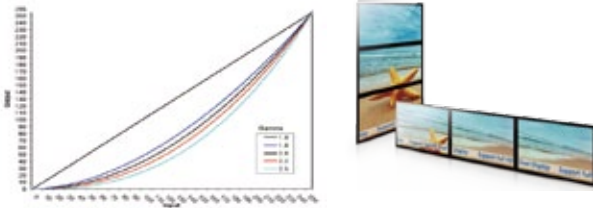


9V~36V Wide Range DC Input

Power requirement varies from applications. DM-F series provides 9V~36V DC input which simplifies system integration through adapter or DC source.

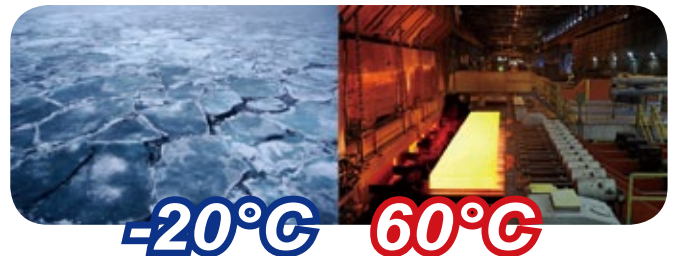
Gamma Correction - Pursuit of Perfection

Gamma correction enables each panel model to follow the specified look-up-table (LUT) in gamma curve doing color adjustment through software encode. In this way, various monitors can display in an unified color by following Gamma 2.2 standard for PC products, ensuring color consistency for multiple monitor applications.



Wide Operating Temperature

Design for outdoor applications, DM-F series support wide operating temperature from -20°C to 60°C for 12" to 17" models. 22" and 24" are by project request.



OSD Keypad on Back

In order to keep the front panel simple and clean, the membrane keypad of the DM-F series is located on the rear panel to prevent the possibility to adjust the setting accidentally.



Cable Cover for Neat Cabling

The DM-F series provides an optional cable cover for easy and neat cabling.



SmartOSD Remote Monitor Adjustment

Asides from physical membrane keypad, IEI also provides smartOSD software application to help users to adjust monitor color settings and power management setting from a PC control terminal.



Monitor Selection

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

Setting Saving

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

Power Management

Set up power cycle schedule to save power

DM-F Series

12.1"~24" DM-F IP65 Industrial Monitor

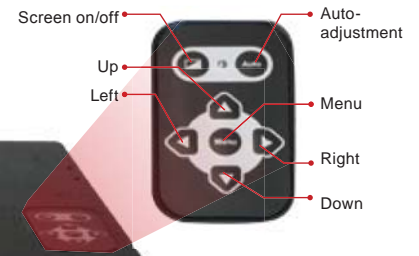
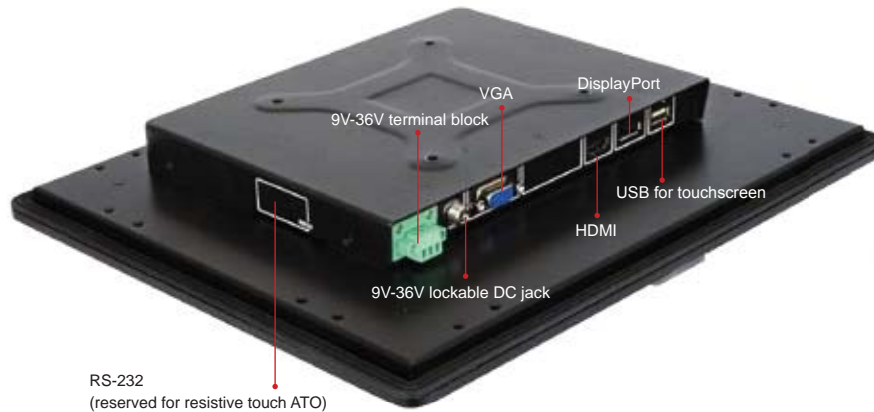
New**Features**

- Robust IP65 aluminum front bezel
- Aesthetic ultra-thin bezel for seamless panel mount installation
- Wide range 9V~36V DC input
- HDMI/DisplayPort/VGA flexible video input solution
- Projected capacitive multi-touch/ resistive single touch options

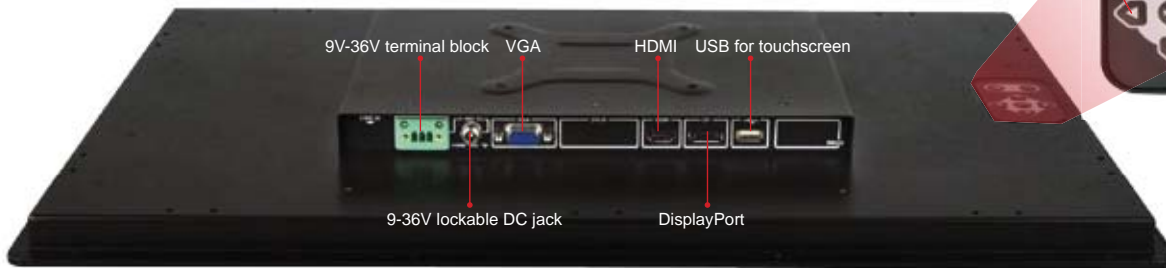
**Specifications**

Model		DM-F12A	DM-F15A	DM-F17A	DM-F22A	DM-F24A
LCD	LCD Display	12" (4:3)	15" (4:3)	17" (5:4)	21.5" (16:9)	24" (16:9)
	Max. Resolution	1024(W) x 768(H)	1024(W) x 768(H)	1280(W) x 1024(H)	1920(W) x 1080(H)	1920(W) x 1080(H)
	Brightness (cd/m ²)	500	400	350	250	250
	Contrast Ratio	700 : 1	700 : 1	1000 : 1	1000 : 1	3000 : 1
	LCD Color	16.2M	16.2M	16.7M	16.7M	16.7M
	Pixel Pitch (mm)	0.24 x 0.24	0.29 x 0.29	0.26 x 0.26	0.25 x 0.25	0.28 x 0.28
	Viewing Angle (H-V)	160° /140°	160° / 140°	170° / 160°	170° / 160°	178°/178°
	Backlight MTBF (Hrs)	50000	50000	50000	30000	30000
Touchscreen & Controller		Resistive type 5-wire flat touch window/ Penmount 6000 Projected capacitive flat touch window/ EETI EXC7200			Projected capacitive flat touch window/ EETI EXC7200	Projected capacitive flat touch window/ EETI EXC3000
I/O Ports		1 x VGA (DB-15) 1 x HDMI 1 x DisplayPort 1.1 1 x USB 2.0 (touch) 1 x RS-232 (touch) [reserved for resistive touch ATO] 1 x Lockable 9V-36V DC jack 1 x 9V-36V terminal block				
OSD	OSD Button	7-key membrane OSD keypad				
	Smart OSD Software	Smart OSD Software				
Physical	Construction Material	Aluminum front cover and sheet metal rear cover				
	Mounting	Panel Mount/ Rack Mount/ 100*100 VESA Mount				
	Enclosure Color	Black C				
	Dimensions (mm)	262.2 x 322.2 x 40.5	303 x 378.5 x 43.2	341.4 x 408.4 x 49.3	350.4 x 550.4 x 49.1	382 x 600 x 49.4
	Cutout Dimensions (mm)	234.8 x 303.8	284.6 x 68.1	323 x 398	340 x 532	358.6 x 578.6
	Weight (Net)	2.7	3.5	4.4	6.3	7.8
Environment	Operating Temperature (with air flow)	-10°C ~ 50°C				
	Storage Temperature	-20°C ~ 60°C				
	Humidity	10% to 95% (non-condensing)				
	IP Level	IP 65 compliant front panel				
	Safety and EMC	CE & FCC certified				
Power	Power Adapter	63040-010060-040-RS 12V 60W with lock (ATO by option)				
	Power Input	9V~36V DC				

DM-F12A/15A/17A



DM-F22A/24A



Options

Item	DM-F12A	DM-F15A	DM-F17A	DM-F22A	DM-F24A
Power Adapter	63040-010060-040-RS				
Arm	ARM-11-RS	ARM-31-RS	ARM-31-RS	ARM-31-RS	ARM-31-RS
Stand	STAND-A12-RS	STAND-A19-RS STAND-B19-RS	STAND-C19-RS STAND-A21-R10	STAND-C19-RS STAND-A21-R10	STAND-C19-RS STAND-A21-R10
Wall Mount Kit	WK-190MS-R10				
Panel Mount Kit	FPK-01-R10		FPK-02-R10		FPK-03-R10
Rack Mount Kit	FRK12-R10	FRK15-R10	FRK17-R10	N/A	
Cable Cover	N/A	DM-F-CC01-R10		DM-F-CC02-R10	
RS-232 Touch Cable Kit	DM-F-COMKIT-R10				
HDMI Cable	32012-000100-200-RS				
DisplayPort Cable	32004-000200-100-RS				

Packing List

Item	P/N	Q'ty	Description
Utility CD		1	Drivers and user manual
Touch Pen	43125-0002C0-00-RS	1	Resistive touch only
USB Cable	32001-006100-100-RS	1	For touch screen
VGA Cable	32000-036200-RS	1	

Ordering Information

PN	Description
DM-F12A/R-R10	12" 600 cd/m ² XGA LCD monitor, Aluminum front panel, Black color, W/ USB resistive touch screen, 9 ~36V DC input, R10
DM-F12A/PC-R10	12" 600 cd/m ² XGA LCD monitor, Aluminum front panel, Black color, W/ USB projected capacitive touch screen, 9 ~36V DC input, R10
DM-F15A/R-R10	15" 400 cd/m ² XGA LCD monitor, Aluminum front panel, Black color, W/ USB resistive touch screen, 9 ~36V DC input, R10
DM-F15A/PC-R10	15" 400 cd/m ² XGA LCD monitor, Aluminum front panel, Black color, W/ USB projected capacitive touch screen, 9 ~36V DC input, R10
DM-F17A/R-R10	17" 350 cd/m ² SXGA LCD monitor, Aluminum front panel, Black color, W/ USB resistive touch screen, 9 ~36V DC input, R10
DM-F17A/PC-R10	17" 350 cd/m ² SXGA LCD monitor, Aluminum front panel, Black color, W/ USB projected capacitive touch screen, 9 ~36V DC input, R10
DM-F22A/PC-R10	21.5" 250 cd/m ² FHD LCD monitor, Aluminum front panel, Black color, W/ USB projected capacitive touch screen, 9 ~36V DC input, R10
DM-F24A/PC-R10	24" 250 cd/m ² FHD LCD monitor, Aluminum front panel, Black color, W/ USB projected capacitive touch screen, 9 ~36V DC input, R10