

MCS-DM270



- 19/23.8/24/27-inches aspect ratio available
- P-CAP Multi-Touch, High Brightness and Optical Bonding (by request)
- AC/DC Multi-Power by default (Single power by request)
- Buzzer is available on front bezel and controlled via comm. protocol
- Comm. protocol is supported via RS port
- Marine type approval: IEC60945, IACS UR E10 and IEC61174 (ECDIS Color Calibrated model by request)



iei®

Smart Marine Solution

- **Marine Monitors – Visual Interface**
Available in **19"**, **23.8"**, **24"**, and **27"** sizes, suitable for both bridge and engine-room consoles.
P-CAP multi-touch, high-brightness displays with optional **optical bonding** for sunlight readability.
AC/DC multi-power input, optional single-power configuration for retrofits.
Integrated **buzzer** and **RS communication protocol** control.
IEC 60945 / IACS UR E10 / IEC 61174 (ECDIS color-calibrated model optional) certification for marine applications.
- This unified hardware platform served as the foundation for a **smart maritime solution**, enabling seamless integration with the vessel's NMEA networks, navigation sensors, and cloud-based fleet monitoring system.

Feature Highlight

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- Multiple Sizes for Different Vessel Environments
- Four size options—19", 23.8", 24", and 27"—provide flexible deployment across various onboard stations
 - » 19" → Engine room panels, auxiliary stations, tight control consoles.
 - » 23.8"/24" → Standard bridge displays, monitoring consoles, AMS/HMI.
 - » 27" → ECDIS, radar overlay, integrated navigation systems.
- Value: Unified design across multiple stations while meeting different ergonomic and space requirements.



- **High-Brightness Display + P-CAP Touch for Precise Operation**
 - » **High-brightness panel** for sunlight-readable bridge environments
 - » **P-CAP multi-touch** for intuitive zooming, panning, and quick actions
 - » **Optional Optical Bonding** to reduce reflection and condensation



- **AC/DC Multi-Power Input for Flexible Integration**
 - » Supports **AC 100–240V** and **DC 24V/28V**
- **Front Bezel Buzzer with Remote Control Support**
 - » Integrated buzzer controllable via protocol
- **RS Communication Protocol (Remote Management)**
 - » Control brightness, buzzer, power status via **RS-232 / RS-485**

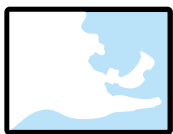


- **Marine-Grade Certifications (IEC 60945 / IACS UR E10 / IEC 61174)**
- **IEC 60945:** Environmental + EMC compliance for bridge/engine-room
- **IACS UR E10:** Validated for navigation, automation, and safety systems
- **IEC 61174 (ECDIS-calibrated version available):** Ensures precise color and brightness for navigation chart display

Marine displays must comply with:

- Day / Dusk / Night display modes
- IEC 61174-compliant color tables
- Brightness and gamma curve calibration (This is why the Marine Monitor must support an "ECDIS Color Calibrated Model.")

ECDIS Color Calibration



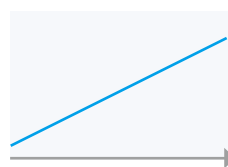
Day



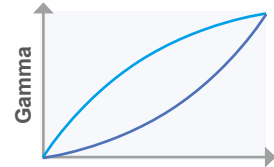
Dusk



Night

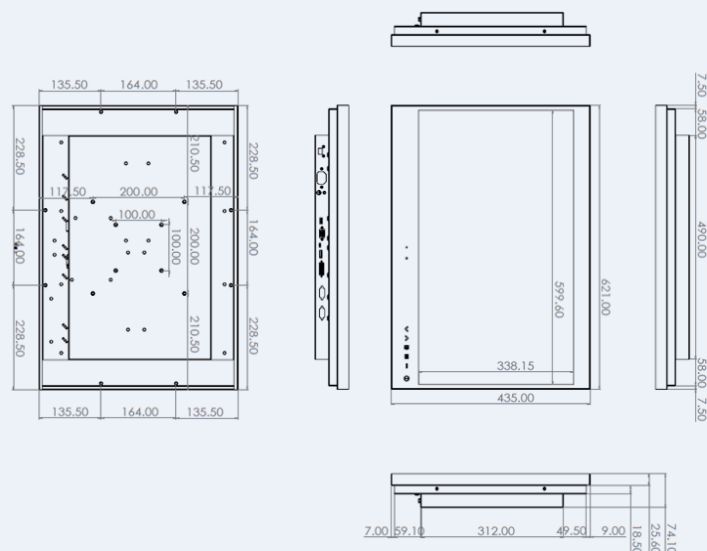


Brightness Adjustment

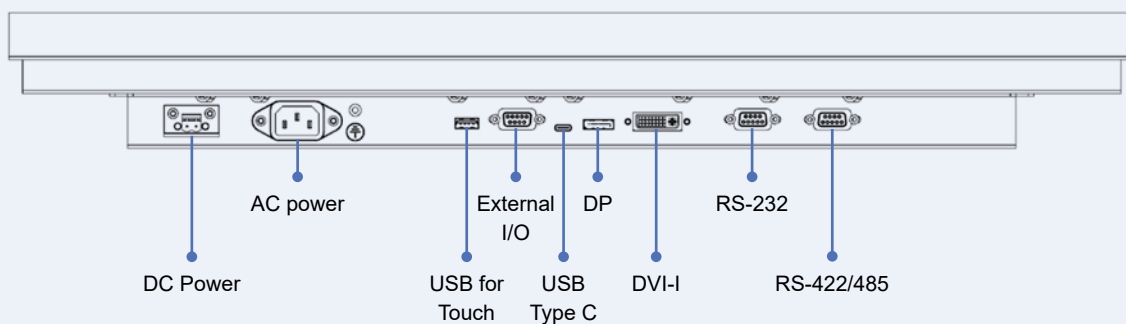


Gamma Correction

System & Mounting Dimensions (Unit: mm)

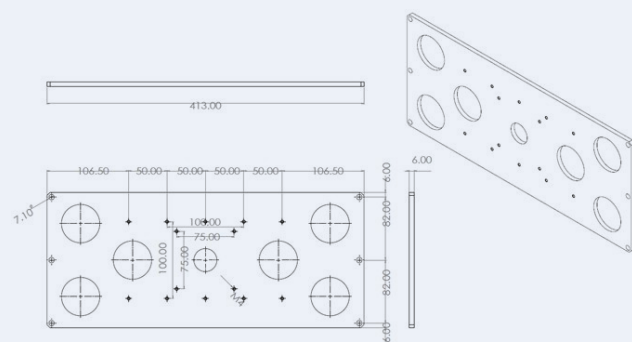


I/O Mechanical Layout



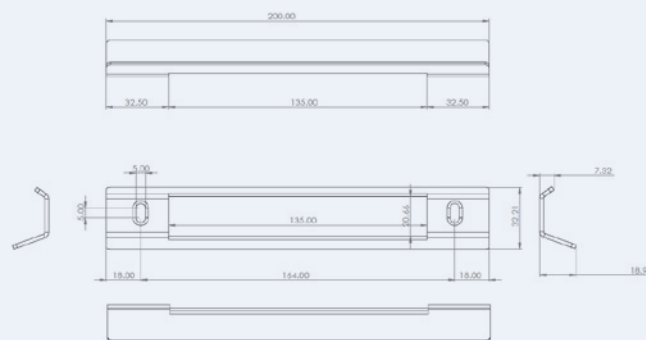
Accessories Options

VESA 75/100 Mounting Kit

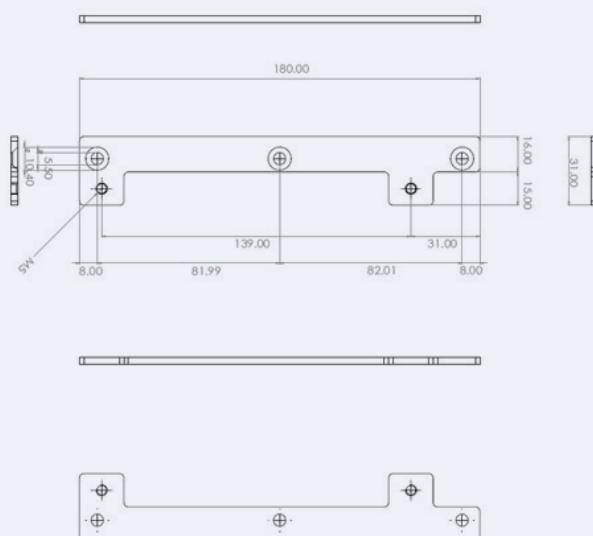


Panel Mounting Kit

(4 pcs for 4 sides)



Console Mounting Kit



Specifications

Model Name		MCS-DM270
Viewable Size		27 inch
Active Area		597.6 H x 336.15V mm
Native Resolution		1920 x 1080 (FHD)
Aspect Ratio		16:9
Light Intensity	Standard	300 cd/m ²
	Optional	High Brightness 1,000 cd/m ²
Contrast Ratio		3000:1
Viewing Angles (U/D/L/R)		89 degrees (up/down/left/right)
Max Color		16.7 million
Optimal Resolution and Hz		1920 x 1080 @ 60 Hz
Power Specifications and Consumption	Standard	100-240V AC - 50/60Hz, 45W (max)
	Optional	Multi-power 100-240V AC - 50/60Hz + 24V DC, 156W (max)
User Controls and Activity		1 x Power On/Off 1 x ECDIS LED 1 x MENU 1 x ENTER 1 x PLUS 1 x MINUS
Dimensions		621(W) x 435(H) x 82.2(D) mm
Weight		15.0 KG (approx.)
Accessories		TBC
Operating Temperature		-15.0°C to +55.0°C
Storage Temperature		-30.0°C to +70.0°C
Humidity		Humidity up to 95%
IP Rating		IP66 front; IP22 rear
Compass Safe Distance	Standard	190 cm
	Steering	110 cm
Certification		IEC60945 IACS-UR-E10 EU-RO-MR by DNV

Order Information

Part No	Description
MCS-DM270-R10	27.0" 300 cd/m ² 1920x1080 marine monitor, DVI-I, USB-C, DisplayPort, USB PC touch screen, 100-240VAC+24V DC input, RS232, RS422/485, COM, R10