DATASHEET

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Manufacturer:

Product: 15.0 inch Maritime Multi Display (MMD)

Hatteland Technology AS

Type:

HD 15T27 MMD-MA1-FyGz1A

y = A (No Bonding) O (Bonding) H (HighBright Bonded), z = A (No Touch) or P (Touch). Last Revised: 29 Revision#: 00

29 Apr 2024 00_06

15.0 inch Maritime Multi Display - Series X G3

Features:

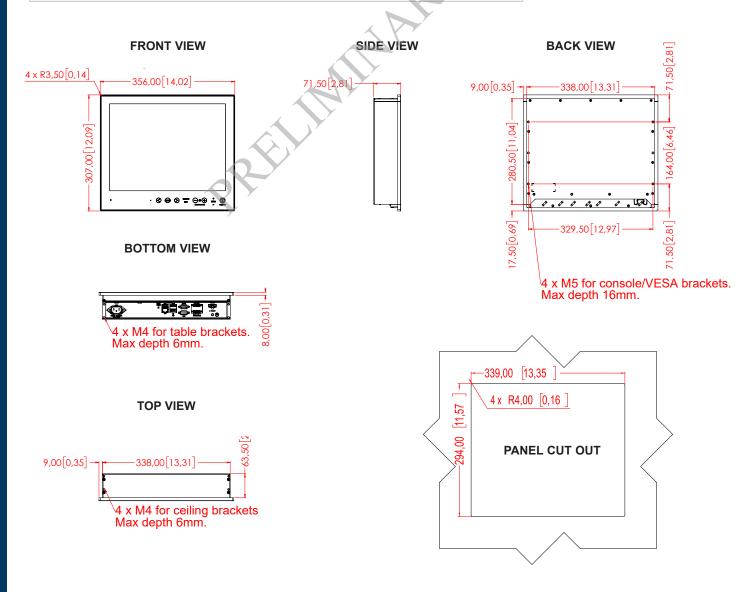
Series X Generation 3 (G3) Displays offer the ultimate in performance, convenience, state of the art design and enduring quality for system integrators and boat builders. Series X products offer a range of feature sets optimized for varying requirements and applications.

The Series X Generation 3 (G3) display range is a flexible monitor solution designed and type approved for the professional maritime segment, where reliability and long life time are key prerequisites for the industry. The product range combines stunning design and technology with innovative features and options, making it all that the integrator needs for top class type-approved marine systems.

The multi-input MMD models provide a wide choice of display size and format for a multitude of shipboard applications, where combining data and video inputs to a single unit provides maximum flexibility. Be it for ship navigation, automation or security, this range with all it's possible options provides a robust and multipurpose platform from which to display and manage data and multiple camera or sensor videos.

Series X Generation 3 (G3) displays feature Glass Display Control, LED Backlight Technology, full dimming and multipower as standard, and can also accomodate and combine a number of options such as multi-touch screen, optical bonding and sunlight readability (High Bright).





Dimensions might be shown with or without decimals and indicated as mm [inches]. Tolerance on drawings is +/- 1mm. For accurate measurements, check relevant DWG file.

SPECIFICATIONS

Note: All specifications are subject to change without prior notice! Please visit www.hattelandtechnology.com for the latest electronic version



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TFT Technology:

- High Quality TFT with LED Backlight Technology
- 15.0 inch viewable image size, Aspect Ratio 4:3
- TFT active-matrix liquid crystal panel

TFT Characteristics:

Supported Signals:

Resolutions:

- VGA : 640 x 480 (including 640 x 350) : 800 x 600 (including 720 x 400)
- SVGA
- XGA : 1024 x 768*
- * Recommended for optimal picture quality

Video Signals:

- Interlaced HDTV, NTSC, PAL and SECAM video
- Composite video

Power Specifications:

Multi-power Supply:

• 100-240V AC - 50/60Hz + 24 VDC

Note: You may connect either AC power or DC power or both. In case both sources are connected, power will be sourced from the AC input. If AC input is lost, there will be a uninterrupted switch-over to DC input.

Power Consumption:

Operating AC/DC: 75W (max)

Physical Considerations:

- **Product Dimensions and Weight:**
- W:356.00 [14.02"] x H:307.00 [12.09"] x D:71.50 [2.81"] mm [inch]
- Weight: Approx. 5kg / 11lbs
- Product Carton Size and Weight (Shipping):
- L:470.00 [18.50"] x W:220.00 [8.66"] x H:450.00 [17.72"] mm [inch]
- Approx. 6.9kg / 15.2lbs

Signal Terminals:

- DP++ 1.2 IN : 1 x DisplayPort Female (Dual-Mode DP++) • HDMI 2.0 Input : 1 x 19p HDMI (female)
- : 1 x USB-C Female with DP and USB2.0(SCOM and • USB-C touch)
- RGB Video IN : 1 x VGA Connector (female)
- SCOM RS-422/485 : 2 x 5-pin Terminal Block 3.81, non-isolated+Buzzer
- Firmware Update : 1 x USB TYPE A Connector (female)
- SCOM Ethernet : 1 x RJ45 Connector
- SCOM RS-232 : 1 x 9p D-SUB (female)
- Potmeter/User : 1 x 9p D-SUB (male)
 - (Potentiometer IN, +5VDC OUT, BRT +/- IN)
- AC Power IN : 1 x Std IEC Inlet
- DC Power IN : 1 x 2-pin Terminal Block 5.08

User Controls:

Behind front bezel - Glass Display Control[™] (GDC) IP66:

- Power On/Off and On Screen Display Menu (OSD)*
- Brightness Control (-/+)
- Hotkeys (left/right), Mode Status Indicators (Service)
- Buzzer (through glass) (75-85dB), Light Sensor (behind glass)
- *OSD Key Codes: 321=Get access to OSD, 362=Advanced Mode

Environmental Considerations:

Operating	: Temperature -15°C to +55°C
Storage	: Temperature -30°C to +70°C
Humidity	: Up to 95% (Operating / Storage)
 Shock - Vibration 	: 5g/11ms - 0.7g (IEC 60945 / IACS E10)
Air Pressure Maximum Altitude	: Operating: 4000m - Storage: 12912m
• Air Pressure Maximum Altitude	: Operating: 3000m - Storage: 3000m
(Bonded)	
IP Rating	: Protection: IP66 front – IP22 rear (EN60529)
 Compass Safe Distance 	: Standard: 100cm - Steering: 65cm

Lifetime Considerations:

Even though the test conditions for bridge units provide for a maximum operating temperature of 55°C, continuous operation of all electronic components should, if possible, take place at ambient temperatures of only 25°C. This is a necessary prerequisite for long life and low service costs.

Available Accessories:

- HD CMB SX2-A1
- HD TMB SX2-A1
- : 1 x Table Mount Bracket. EN60945 Tested • HD VED SX2-A1
 - : 1 x VESA Adapter Kit (75/75, 100/100 & 200/100mm) Not EN60945 Tested

retrofit

- JH 15TAP STD-C1
- HD REM SX1-A1
- : 1 x External Remote Control, EN60945 Tested • HD 15COV SX1-A1 : 1 x UV Sun Cover
- P006997-1
- Console mount HT DPUSB-2-USBC-A1 : 1 x DP & USB2.0 (Male) to USB-C (Male)
- Adapter, 2m (not IP67) • HT HDMIUSB-2-USBC-A1 : 1 x HDMI & USB2.0 (Male) to USB-C (Male)

: 1 x Console Mount Kit. EN60945 Tested

: 1 x Frame Adapter (15" Series 1 to Series X)

: 1 x IP66 Mount Gasket (EPDM), for Flush/

Adapter, 2m (not IP67)

Factory Options:

- Projected Capacitive Touch Screen (Multitouch, USB)
- Optical Bonding Technology
- Sunlight Readable / High Bright (includes Optical Bonding)

PPROVALS 8 CE S

IEC 60945 4th (EN 60945:2002)* IACS E10*

CCS - China Classification Society* LRS - Lloyd's Register of Shipping*

BV - Bureau Veritas*

These products have been tested / type approved by the following classification societies (* = Pending): EU RO MR - Mutual Recognition by DNV* KR - Korean Register of Shipping*

ClassNK - Nippon Kaiji Kyokai* ABS - American Bureau of Shipping*