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Manufacturer:	Hatteland Technology AS	5		an EMBRON Company 🕼
Product:	27 inch Maritime Multi Di	isplay (MMD)		
ype:	HD 27T27 MMD-MAx-FyG x = (1 No ECDIS) or 4 (ECDIS), y = H (HighBright Bonded), z = A (No To	A (No Bonding) O (Bonding)	Last Revised: Revision#:	27 Nov 2024 01
2	7 inch Maritime	e Multi Display -	Series X	G3
eatures:				
Series X Generat lesign and endu		ate in performance, convenience, state and boat builders. Series X products of and applications.		1015
or the professior ndustry. The pro	nal maritime segment, where reliabi oduct range combines stunning des	xible monitor solution designed and typ ility and long life time are key prerequis sign and technology with innovative fe top class type-approved marine system	sites for the eatures and	
hipboard applica exibility. Be it f	ations, where combining data and for ship navigation, automation or st and multipurpose platform from	ice of display size and format for a n video inputs to a single unit provides security, this range with all it's possi which to display and manage data a	s maximum ible options	
imming and mu	ultipower as standard, and can also uch screen, optical bonding and EC	s Display Control, LED Backlight Tech o accomodate and combine a number CDIS calibration. By factory standards	of options	9 0.9 - 0
		58]		
50[0,14]	FRONT VIEW		В	ACK VIEW
	650,00[25,59]	N°	4]max height	
			• • • • • •	8 8 0 8
		°	•	
		423,00[16,65] 312,00[12,28]	•	• •
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	BOTTOM VIEW	29,50 29,50 29,50 29,34 ■ ÷ ■ ■ ÷ ■	639,00[2 4 × R3,00[0,12]	• • • • • • • • • • • • •
	BOTTOM VIEW			
	BOTTOM VIEW	29,50 29,50 29,50 29,34 ■ ÷ ■ ■ ÷ ■	4 x R3,00[0,12]	

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.

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SPECIFICATIONS

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

HATTELAND TECHNOLOGY

an EMBRON Company 🕼

TFT Technology:

- LED Backlight Technology, Color Active Matrix
- 27.0 inch viewable image size, Widescreen, Aspect Ratio 16:9
- a-SI (amorphous silicon) Thin Film Transistor (TFT)

IFI Characteristics:	
 Native Resolution Pixel Pitch (RGB) Response Time Contrast Ratio Light Intensity Viewable Angle Active Display Area 	: 1920 x 1080 (FHD) : 0.31125 (H) x 0.31125 (V) mm : 12 ms (typical) (on/off) : 3000:1 (typical) : 300 cd/m ² (typical) : +/- 89 deg. (typical) (Up/Down/Left/Right) : 597.6 (H) x 336.15 (V) mm
 Max Colors 	: 16.7 million

Supported Signals:

Resolutions:

- VGA : 640 x 480 (including 640 x 350)
- SVGA : 800 x 600 (including 720 x 400)
- : 1024 x 768 XGA
- SXGA : 1280 x 1024
- UXGA : 1600 x 1200
- : 1920 x 1080* FHD * Recommended for optimal picture quality

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: 28W (Typ) 39W (Max)

Physical Considerations:

- Product Carton Size and Weight:
- W:650.00 [25.59"] x H:437.00 [17.20"] x D:69.50 [2.74"] mm [inch]
- Weight: Approx. 11.0kg / 24.2lbs
- **Product Carton Size and Weight:**
- L:765.00 [30.12"] x W:190.00 [7.48"] x H:615.00 [24.21"] mm [inch]
- Approx. 13.3kg / 29.3lbs

Signal Terminals:

• DP 1.4 IN	: 1 x 20p DisplayPort (female)*
• HDMI 2.0 IN	: 1 x 19p HDMI (female)*
• USB-C	: 1 x USB-C Female with DP 1.2 IN and USB2.0 (SCOM and touch)*
 VGA/RGB IN 	: 1 x 15p D-SUB (female)*
• SCOM RS-422/485	: 2 x 5-pin Terminal Block 3.81, non-isolated+Buzzer
 SCOM Ethernet 	: 1 x RJ45 Connector
 SCOM RS-232 	: 1 x 9p D-SUB (female)
• Firmware Update	: 1 x USB TYPE A Connector (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
Note: Max Cable length	n: <2m*

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 (ECDIS, 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: 190cm - Steering: 110cm

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.

Not EN60945 Tested

: 1 x UV Sun Cover

2m (not IP67)

2m (not IP67)

mount

: 1 x Console Mount Kit. EN60945 Tested

: 1 x Front Console Mounting/Adapter Kit

: 1 x DVI to HDMI Cable 2 meters

: 1 x DVI to HDMI Cable 5 meters

: 1 x Table Mount Bracket. EN60945 Tested

: 1 x VESA Adapter (100/100 & 200/100mm)

: 1 x External Remote Control, EN60945 Tested

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

: 1 x DP & USB2.0 (Male) to USB-C (Male) Adapter,

: 1 x HDMI & USB2.0 (Male) to USB-C (Male) Adapter,

Available Accessories:

- HD CMB SX2-E1
- HD TMB SX1-C1
- HD VED SX2-K1
- HD REM SX1-A1
- HD 27COV SX1-A1
- P018743
- HD CAK SX2-B1
- HT DPUSB-2-USBC-A1
- HT HDMIUSB-2-USBC-A1
- HT DVI-2-HDMI-A1 • HT DVI-2-HDMI-A2
- HT DVI-2-HDMI-A3
- : 1 x DVI to HDMI adapter 0.2 meters

Factory Options:

- Projected Capacitive Touch Screen (Multitouch, USB, Pen/Glove supported)
- Sunlight Readable / High Bright (includes Optical Bonding)
- Color Calibrated models (ECDIS)
- Optical Bonding Technology
- Expension board (DVI EXPcard 1xDVI IN)

PPROVALS R CER CA ES

These products have been tested / type approved by the following classification societies (* = Pending): IEC 60945 4th (EN 60945:2002)* IACS E10*

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

EU RO MR - Mutual Recognition by DNV* KR - Korean Register of Shipping*

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