

DATA SHEET

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HATTELAND® DISPLAY

Manufacturer: **Hatteland Display AS**
 Product: **26 inch Industrial Display (STD)**
 Type: **HD 26T21 STD-xxx-Fxxx (LED)**

Last Revised: **18 Feb 2013**
 Revision#: **01**

26 inch Industrial Display - Series X

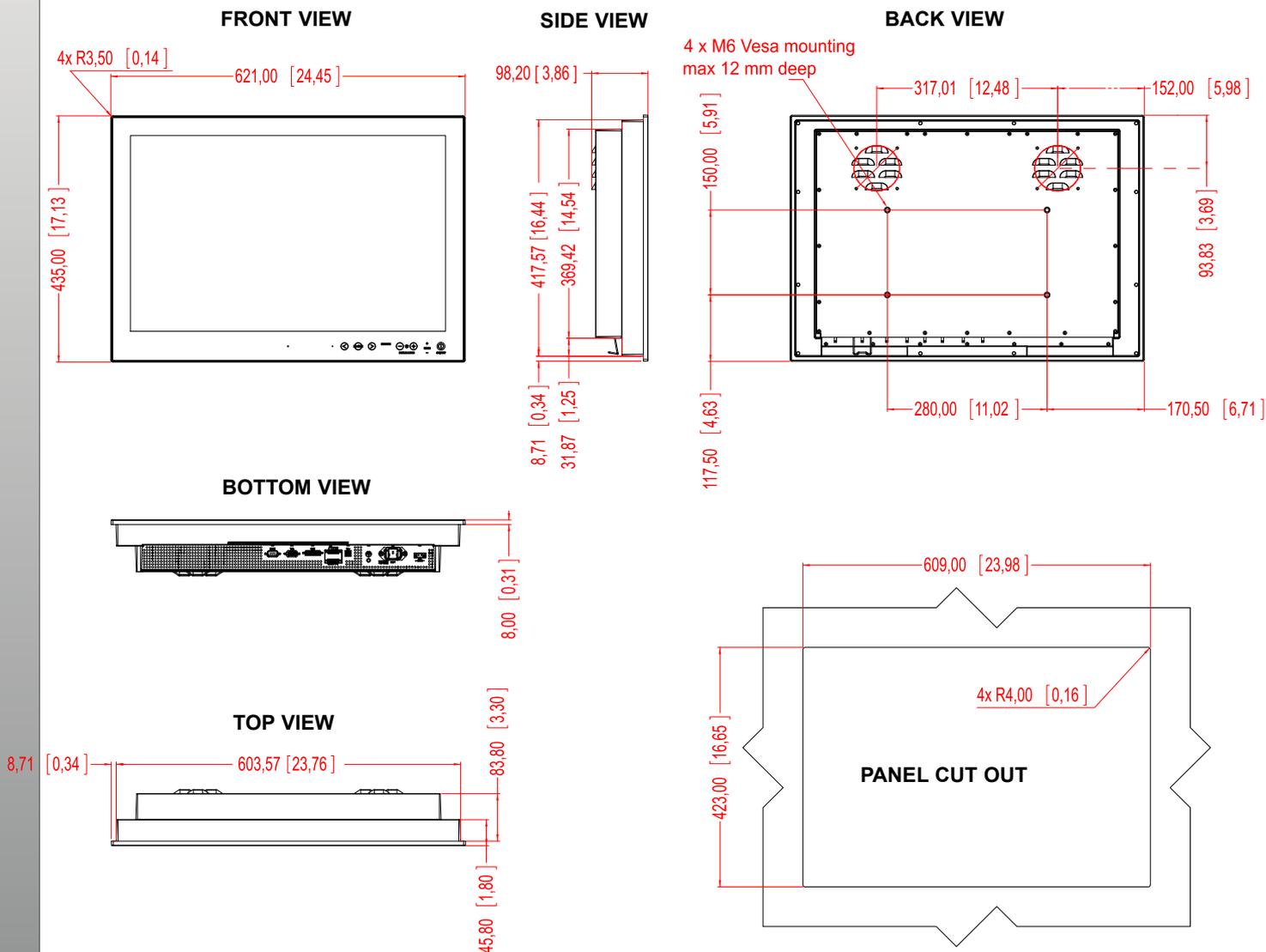
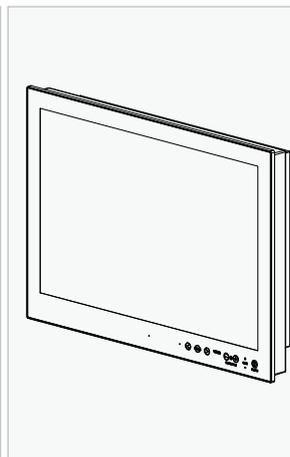
Features:

Series X Displays and Panel Computers 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 display range is a flexible monitor solution designed and type approved for the professional maritime segment, where reliability and long life time are key pre-requisites 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 entry level STD models provide a wide choice of display size and format for shipboard applications where simple data input (RGB & DVI) is required. Be it for ship navigation or automation, this range with all its possible options provides a robust and cost effective platform from which to display and manage data.

Series X displays feature Glass Display Control™, LED Backlight Technology, full dimming and multipower as standard, and can also accommodate and combine a number of options such as touch screen, optical bonding and ECDIS calibration.



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.

TFT Technology:

- High Quality TFT with LED Backlight Technology
- 25.54 inch viewable image size, Widescreen, Aspect Ratio 16:10
- S-MVA, Active Matrix, Thin Film Transistor (TFT)
- RGB Vertical Stripe

TFT Characteristics:

- Native Resolution : 1920 x 1200
- Pixel Pitch (RGB) : 0.2865 (H) x 0.2865 (V) mm
- Response Time : 20ms (Tr+Tf)
- Contrast Ratio : 1500:1 (typical)
- Light Intensity : 350 cd/m² (typical)
- Viewable Angle : +/- 88 deg. (typical) (Up/Down/Left/Right)
- Active Display Area : 550.08 (H) x 343.8 (V) mm
- Max Colors : 16.7 million

Synchronization:

- Digital separate synchronization
- Composite synchronization
- Synchronization on green
- Auto detects VGA -> WUXGA, interlaced and non interlaced
- Video Signal : Analog RGB 0,7Vp-p
- Input Impedance 75 Ohm

Synchronization Range:

- Horizontal : 31.5 kHz to 91.1 kHz
- Vertical : 60 Hz* to 85 Hz

* Recommended for optimal picture quality

Supported Signals:

Resolutions:

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

* Recommended for optimal picture quality

Power Specifications:

Multi-power Supply:

- 115&230VAC - 50/60Hz + 24 VDC - HD 26T21 STD-Mxx-Fxxx

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 : 125 W (max) TBC

Physical Considerations:

- 621.00 (W) x 435.00 (H) x 87.80 (D) mm
- 24.45" (W) x 17.13" (H) x 3.46" (D)
- 4 x M6 VESA mounting 280x150mm, Max 12mm deep
- Weight: TBD kg (approx)

Signal Terminals:

- DVI-D Signal IN : 1 x 24p DVI (female)
- RGB Signal IN : 1 x 15p HD D-SUB (female)
- SCOM RS-422/485 : 1 x Phoenix Terminal Block 3.81, non-isolated+Buzzer
- SCOM RS-232 : 1 x 9p D-SUB (female) non-isolated
- If Touchscreen : 1 x USB TYPE B Connector (female)
- AC Power IN : 1 x Std IEC Inlet
- DC Power IN : 1 x 2p Phoenix MSTB 2,5/2-GF-5,08 THT

User Controls:

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

- Power On/Off, On Screen Display Menu, Brightness Control (-/+)
- Hotkeys (left/right), Mode Status Indicators (ECDIS, Service)
- Buzzer (not visible), Light Sensor (not visible)

Environmental Considerations:

- Operating : Temperature -15 deg. C to +55 deg. C
- Humidity up to 95%
- Storage : Temperature -20 deg. C to +60 deg. C
- Humidity up to 95%
- IP Rating : Protection: IP66 front – IP22 rear (EN60529)

Safety Considerations:

Even although 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 SX1-C1 = 1 x Console Mount Kit
- HD TMB SX1-C1 = 1 x Table Mount Bracket. EN60945 Tested

Please see user manual/datasheet for more information

Factory Options:

- Capacitive Touch Screen (USB interface)*
- Optical Bonding Technology
- Color Calibrated models (ECDIS)
- Single AC Power 115&230VAC - 50/60Hz Input

* Release date to be confirmed. Please contact us for more information.

For a full overview of typenumbers, please review the following link:
www.hatteland-display.com/pdflink/ind100780-3.php

Compass Safe Distance: HD 26T21 STD-xxx-Fxxx

Standard: 125cm

Steering: 80cm

APPROVALS & CERTIFICATES

This product have been tested / type approved by the following classification societies:

IEC 60945 4th (EN 60945:2002)

GL - Germanischer Lloyd

CCS - China Classification Society (Pending)

IACS E10

DNV - Det Norske Veritas

BV - Bureau Veritas

ClassNK - Nippon Kaiji Kyokai (Pending)

ABS - American Bureau of Shipping

LRS - Lloyd's Register of Shipping (Pending)