

Manufacturer: **Jakob Hatteland Display AS**

Product: **10.4 inch Maritime Multi Display (MMD)**

Type: **JH 10T06 MMD**

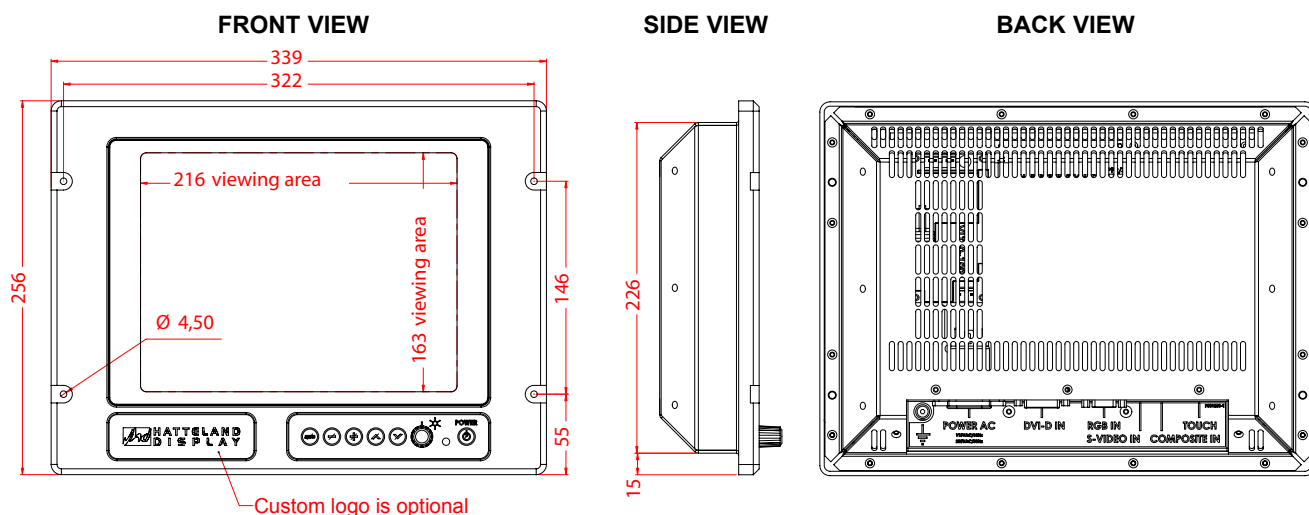
Last Revised: **03 Mar 2006**
Revision#: **12**

10.4 inch Maritime Multi Display (MMD)

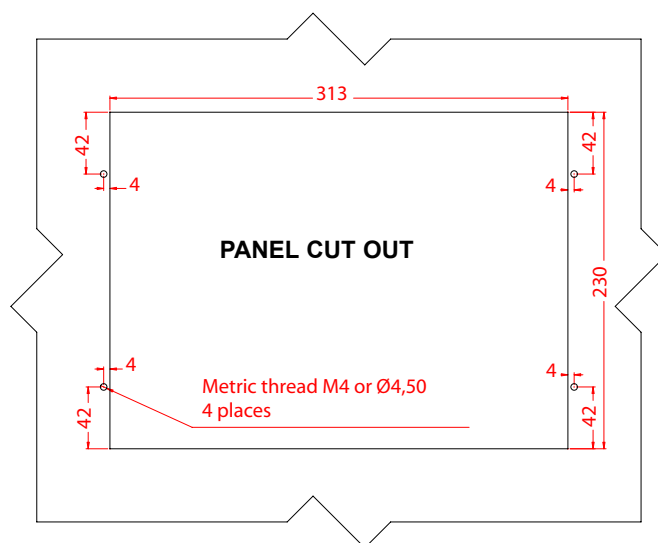
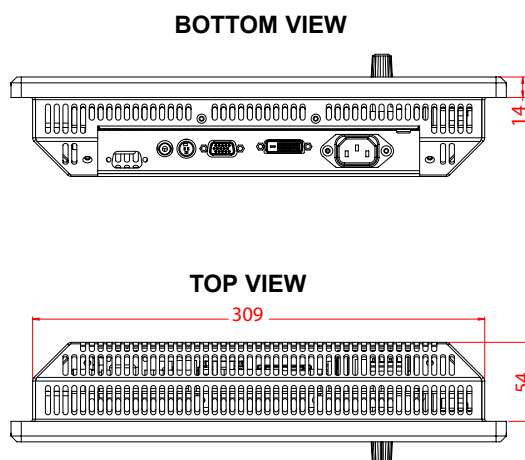
Features:

The color display described in this Data Sheet is an industrialized version of a high quality Sharp TFT based display. The MMD allows you to display professional applications with clarity and enhanced color and image quality. The MMD have DVI-D Input, RGB Input, Video Input (Composite/SVHS) and PiP (Picture in Picture) functions.

The controller and the high light intensity in combination with the high contrast and wide backlight adjustment control, allow the product to be used in many environments. Brightness is adjustable from 0 to 100%



Due to dimensions without decimals, the tolerance on drawings is +/- 1mm (For accurate measurements, measure in AutoCAD)



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Note: All specifications are subject to change without prior notice!

TECHNICAL DESCRIPTION

TFT Technology:

- 10.4 inch viewable image size
- Active Matrix, Thin Film Transistor (TFT)
- RGB vertical stripe

TFT Characteristics:

- Pixel Number : 640 x 480
- Pixel Pitch (RGB) : 0.33 (H) x 0.33 (V) mm
- Response Time : 20 ms (typical), "black" to "white"
- Contrast Ratio : 300:1 (typical)
- Light Intensity : 350 cd/m2 (typical)
- Viewable Angle : +/- 70 deg. (H), 40 deg. (V)
- Active Display Area : 211.2 (H) x 158.4 (V) mm
- Max Colors : 262,144 colors (6-bit max)

Synchronisation:

Sync Signal:

- Digital separate synchronisation
- Composite synchronisation
- Synchronisation on green.
- Video Signal : Analog RGB 0,7Vp-p
- Input Impedance 75 Ohm

Synchronisation Range:

- Horizontal : 31,5 kHz to 91,1 kHz
- Vertical : 60 Hz to 85 Hz

Supported Signal Inputs:

Resolutions:

- VGA : 640 x 480 (including 640 x 350)

Video Signals:

- Interlaced NTSC and PAL/SECAM video
- Composite video
- S-Video

* Recommended for optimum picture quality

Power Specifications:

Power Supply Options:

- 115 & 230VAC - 50 / 60Hz : Model JH 10T06 MMD A1
- 24 VDC : Model JH 10T06 MMD A2

Power Consumption:

- Operating : 60 W (max)

MECHANICAL DESCRIPTION

Physical Dimensions:

- 339 (W), 256 (H), 54 (D) mm
- Weight: 3,5 kg (approx)

Input Signal Terminal:

- DVI-D (PC) signal : DVI-D Input 24pin Connector
- RGB (PC) signal : 15pin mini D-SUB (female - Input)
- Composite Video : RCA Phono plug
- S-Video signal : S-Video (SVHS) plug
- AC Power signal : Std IEC Inlet Model JH 10T06 MMD A1
- DC Power signal : Screw terminal Model JH 10T06 MMD A2

Accessories:

- Touchscreen : 1 x D-SUB 9P Connector (female)

User Controls:

On front bezel:

- Power On/Off (push button)
- Brightness Control
- Mode Status LED
- On Screen Display control (OSD/OSM)

Environmental Considerations:

- Operating : Temperature -15 deg. C to +55 deg. C
Humidity 30% to 90% (non condensing)
- Storage : Temperature -20 deg. C to +60 deg. C
Humidity 10% to 90% (non condensing)

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 Options:

- JH 10TBR = Bracket *
- JH XXTRO STD = Bracket *
- JH 10TSV = Sun Visor *
- Touch Screen = Factory mounted

*Option: Standard or custom logo and color

*Option: See separate datasheet for specifications on bracket options.

Compass Safe Distance: JH 10T06 MMD

Standard: 100cm

Steering: 70cm

APPROVALS & CERTIFICATES

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

EN60945 3rd (IEC945 3rd)
EN60529 (IP66) (Applies only for flush mounting)
DNV - Det Norske Veritas

GL - Germanischer Lloyd
BV - Bureau Veritas
ClassNK - Nippon Kaiji Kyokai

ABS - American Bureau of Shipping