Manufacturer:	Hatteland Technology AS	
Product:	65 inch Multi Vision Monitor (MVD) - Console	**Note:** 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.
Type:	HD 65T40 MVD-MAy-Cyyy	

HD 65T40 MVD-MAy-Cyyy

HATTELAND®

65-inch Multi Vision Monitor (MVD)



The 65-inch Series X Multi Vision Monitor provides a large, clear 4K display for maritime applications. Its size and resolution make it possible to view information from four sources on one screen, reducing the need for four separate monitors when used with an external split-screen solution.

Approved in accordance with DNV requirements for maritime use, it offers full dimming, multiple video inputs and an on-screen display (OSD). An external tactile control panel allows easy operation when the monitor is mounted in a console. Available options include optical bonding, multi-touch and ECDIS calibration.

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Technical specifications

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

Physical Considerations	
Product Dimensions and Weight	W: 1530.00 x H: 905.00 x D:145.60 mm 69.4 kg
Product Dimensions and Weight (Packed in plywood box)	W: 1690.00 x H: 1070.00 x D: 390.00 mm TBD kg

Display Technology
High Quality TFT with LED Backlight Technology
64.5 inch viewable image size, Widescreen, Aspect Ratio 16:9
TFT a-Si active-matrix liquid crystal panel, RGB vertical stripe

Display Characteristics	
Native Resolution	: 3840 x 2160 (UHD, 4K)
Pixel Pitch (RGB)	: 0.372 (H) x 0.372 (V) mm
Response Time	: 8 ms (typical) (G to G)
Contrast Ratio	: 4000:1 (typical)
Light Intensity	: 450 cd/m² (typical)
Viewing Angle	: +/- 89 deg. (typical) (Up/Down/Left/Right)
Active Display Area	: 1428.5 (H) x 803.5 (V) mm
Max Colors[1]	: 8 bit + FRC (1.07 billion)

User Controls	
Button Display Control™ (BDC):	• Power On/Off Brightness Control (-/+) • Power LED: Video signal=Green, No signal=Yellow, Power off=Orange
Tactile Display Controls (TDC):	• Power On/Off and On-Screen Display Menu (OSD)* • Brightness Control (-/+) • Power LED: Video signal=Green, No signal=Yellow, Power off=Red • Hotkeys (left/right), Mode Status Indicators (ECDIS, Service) • Buzzer (not visible) (75-85dB), Light Sensor (not visible)

*OSD Key Codes: 321=Get access to OSD, 362=Advanced Mode

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Input/Output Connectors	
HDMI 1.4 Input	: 2 x 19p HDMI (female), Max 3840x2160@30 Hz
HDMI 2.0 Input	: 1 x 19p HDMI (female), Max 3840x2160@60 Hz
DP 1.2 Input	: 1 x 20p DisplayPort (female), Max 3840x2160@60 Hz (Cable length < 3 m)
SCOM RS-422/485	: 1 x 5-pin Terminal Block 3.81 (non-isolated), with Buzzer
SCOM + Touch	: 1 x USB TYPE A (female)
SCOM Ethernet	: 1 x RJ45, for Remote Control
SCOM RS-232	: 1 x 9p D-SUB (female, non-isolated)
User Interface	: 1 x 9p D-SUB (male), Potentiometer, BRT, I2C, +5VDC & 12VDC OUT
SW Interface	: 1 x USB TYPE A (female), for Firmware Update
TDC Interface	: 1 x 15p D-SUB (male), for HD TDCMVD KIT-A1
AC Power IN	: 1 x Standard IEC Inlet
DC Power IN	: 1 x 2-pin Terminal Block 5.08

Power Specifications	
Power Supply option	AC: 100-240V AC - 50/60Hz DC: 24 VDC
Power Consumption	Operating AC/DC: TBD W (typ) - TBD W (max)

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 an uninterrupted switch-over to DC input.

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 Max Altitude	Operating: 4000m - Storage: 12912m
Air Pressure Max Alt. (Bonded)	Operating: 3000m - Storage: 3000m
IP-Rating Protection	IP66 front - IP22 rear (EN60529)
Compass Safe Distance	Standard: TBD cm - Steering: TBD cm
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 REM SX1-A1	: 1 x External Remote Control
EPDM CELLE 2x6 MM	: 1 x 5M Roll

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Factory Options
Optical Bonding Technology
Projected Capacitive Touch Screen (Multitouch, USB, Pen/Glove supported)
Color Calibrated models (ECDIS)

Note: Touch models have Anti-Glare Coating (AG) + Anti-Smudge Coating (AS), while non-touch models have Anti-Glare Coating (AG).

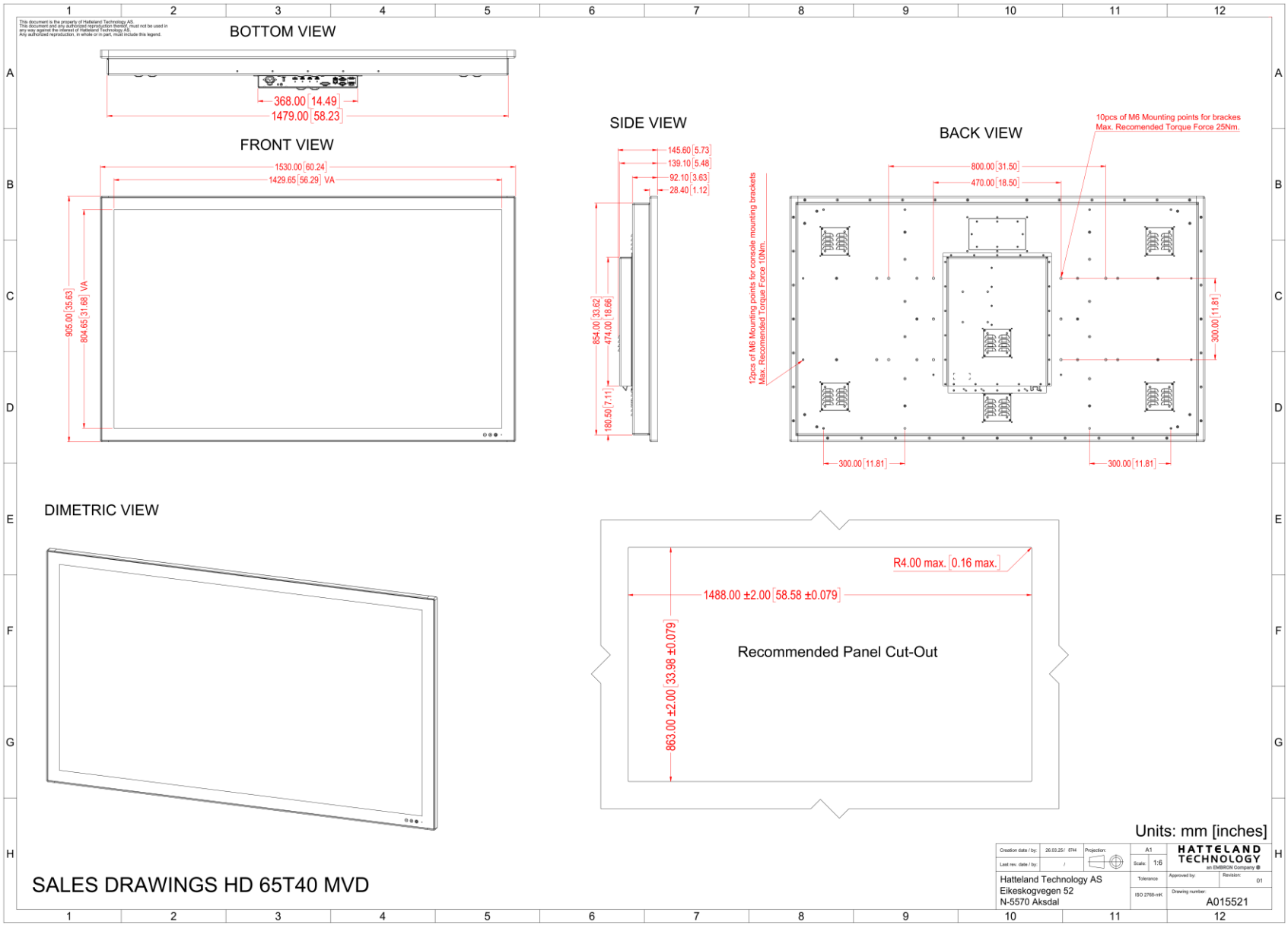
Contents of Package	
HD TDCMVD KIT-A1	: 1 x External Tactile Display Controls (TDC)
HD CMB SX2-P1	: 1 x 65" EN60945 Console Mounting Bracket Kit (6x P046932, 12x M6x35)

Approvals & Certificates		
IEC 60945 4th (EN 60945:2002)[1]	IACS E10[1]	EU RO MR - Mutual Recognition[1]
ClassNK - Nippon Kaiji Kyokai[1]	CCS - China Classification Society[1]	BV - Bureau Veritas[1]
KR - Korean Register[1]	ABS - American Bureau of Shipping[1]	

[1] Pending

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