



Model: WPM-MAR2000A2

20" Rugged Transfective SunLight Readable Marine LCD

Dimming 0~100%	Sunlight Readable	PIP	IP65 Proof	8- to36V DC input	Anti- Corrosion (Option)	OSD from panel	AR Safety Glass (option)	Touch Screen
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Features:

Hyper Dimming:	Dimming knob control backlight brightness from nearly 0% to 100%
Sunlight Readable	Transflective film technology enhance visibility
Ruggedized IP65 Proof:	Panel (flush) mount IP65 aluminum housing with powder coating design (IP54 rear)
Wide Voltage Range Input :	8 to 36V DC to DC power input acceptable(AC power for option)
Touchscreen :	High quality touchscreen / AR protection glass for option
Multiscan Function:	PIP(picture in picture) function and multi-video inputs
IP65 OSD front panel Design:	Ease of use front panel OSD control
Anti-shock and Vibration:	Enhanced shock and vibration resistance

TFT Characteristics

Pixel Number	1600x1200
Pixel Pitch(R&B)	0.255(H) x 0.255(V)
Contrast Ratio	700:1 (typ.)
Light Intensity	350 (typ.)
Viewable Angle	-89~89 (H); -89~89 (V)
Active Display Area	408.0 (H) x 306.0 (V)
Max Colors	16.7M (8bits/color)

Certification and Approvals

Certification	CE, FCC
Approvals	DNV Type Approval (Pending)

Outdoor Readability

Ambient light(nit)	10,000	30,000	80,000
Brightness gain (nit)	312.5	456	680
Reflectance(net)(%)	0.70%	0.68%	0.45%
Note	*Equivalent brightness under sunlight.		

Input Signals

RGB Signal	D-SUB 15P connector(female)
Composite Video	RCA phono plug
S-Video Signal	S-Video (SVHS) plug
DVI-D Signal	DVI-D input 24pin connector
DC Power Signal	Screw terminal block
AC Power Signal (Optional)	Std IEC Inlet
Touch Screen (Optional)	D-SUB 9P connector (female)
Remote via RS-232 (Optional)	D-SUB 9P connector (female)

*Due to Panel material's deviation, different panel supplier will set different specific variance range to optical characteristics. The factors of time used, Lamp current, Ambient temperature will influence the optical measurements.

User Controls

Power On/Off via front button
VR Brightness Knob Control
On Screen Display control(OSD)
OSD Remote Control via RS-232
Power Mode Status LED

Power Specification

Power Supply Options	8 to 36 V DC to DC power supply with terminal block. 90 to 265 V AC (optional)
Power Consumption	70 W typical, normal operation

Environmental Considerations

Operating Temperature	-10 deg.C to 55 deg.C
Humidity	5% to 95% (non condensing)
Anti-Vibration	5Hz~500Hz / 1Grms/3 Axis
Anti-Shock	15G, 11ms duration

Available Options

Mechanical Options	Panel (Flush) mount with IP65 (SAW touch for IP54)
Touch Screen Options	SAW, 5 Wire Resistive
AR Safety Glass Option	3mm Anti-reflective protection glass NO(VESA is only by special request)



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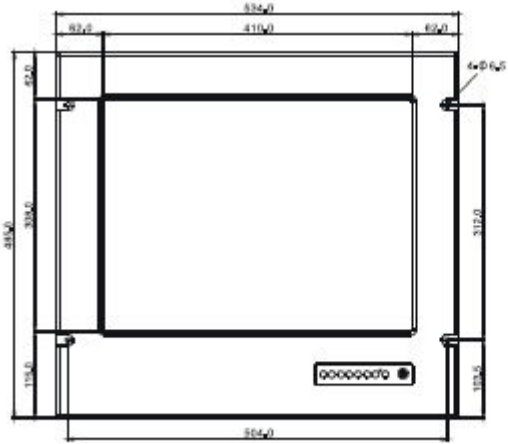
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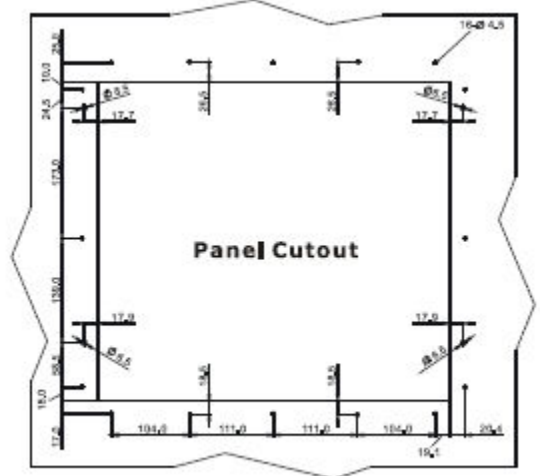
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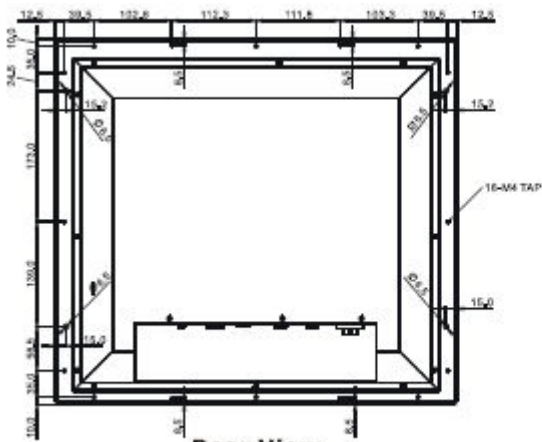
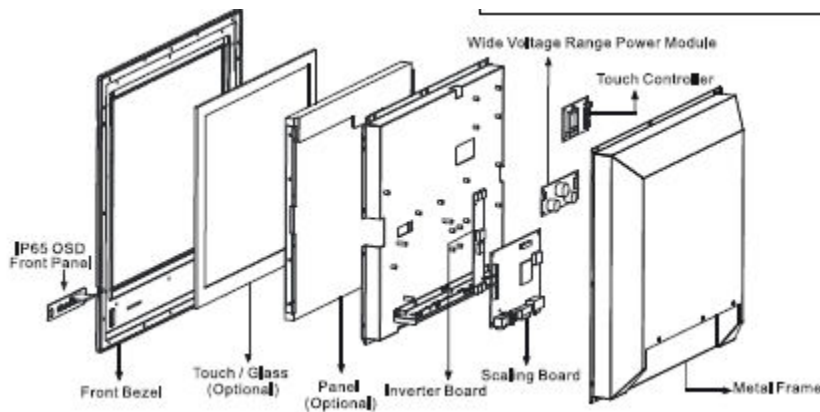
Front View



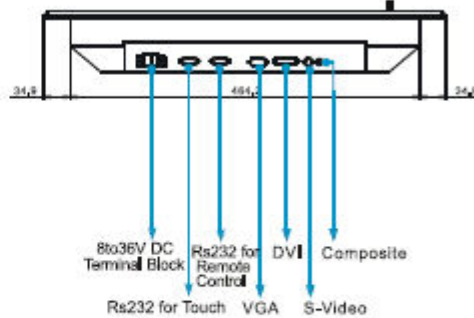
Side View



All Dimensions are ± 0.5 mm



Rear View



Bottom View

