Military Chassis LCD

Military Application, Chassis IP65 front, 17.3" LCD Monitor OSD Front
1920x1080, LED-300nits, VGA, WV(178°/178°), WT-20~60
I/O connector (Regular): 1 x VGA, 1 x DVI, 1 x HDMI, 2 x BNC

EMI/EMC: MIL-STD-461E
AR Coating Front glass ** Polycarbonate Anti-Reflective Front Protective Layer**
OEM Side Mounting holes.
9~36VDC isolated Power

MODEL: EMCHW1730TV

FEATURES

- Modularize mechanical design provides flexible product configuration and easy maintenance
- Optional build-in touch screen for interactive application
- Available with auto-brightness sensor offers application in day and night
- VGA connector with optional AV,SV,AV-Looping
- Complete custom design/solution for OEM customers
- Environmental: MIL-STD-810, Vibration - MIL STD 167-1; Shock - MIL-STD-901D Grade A, Class I, Type B Shock

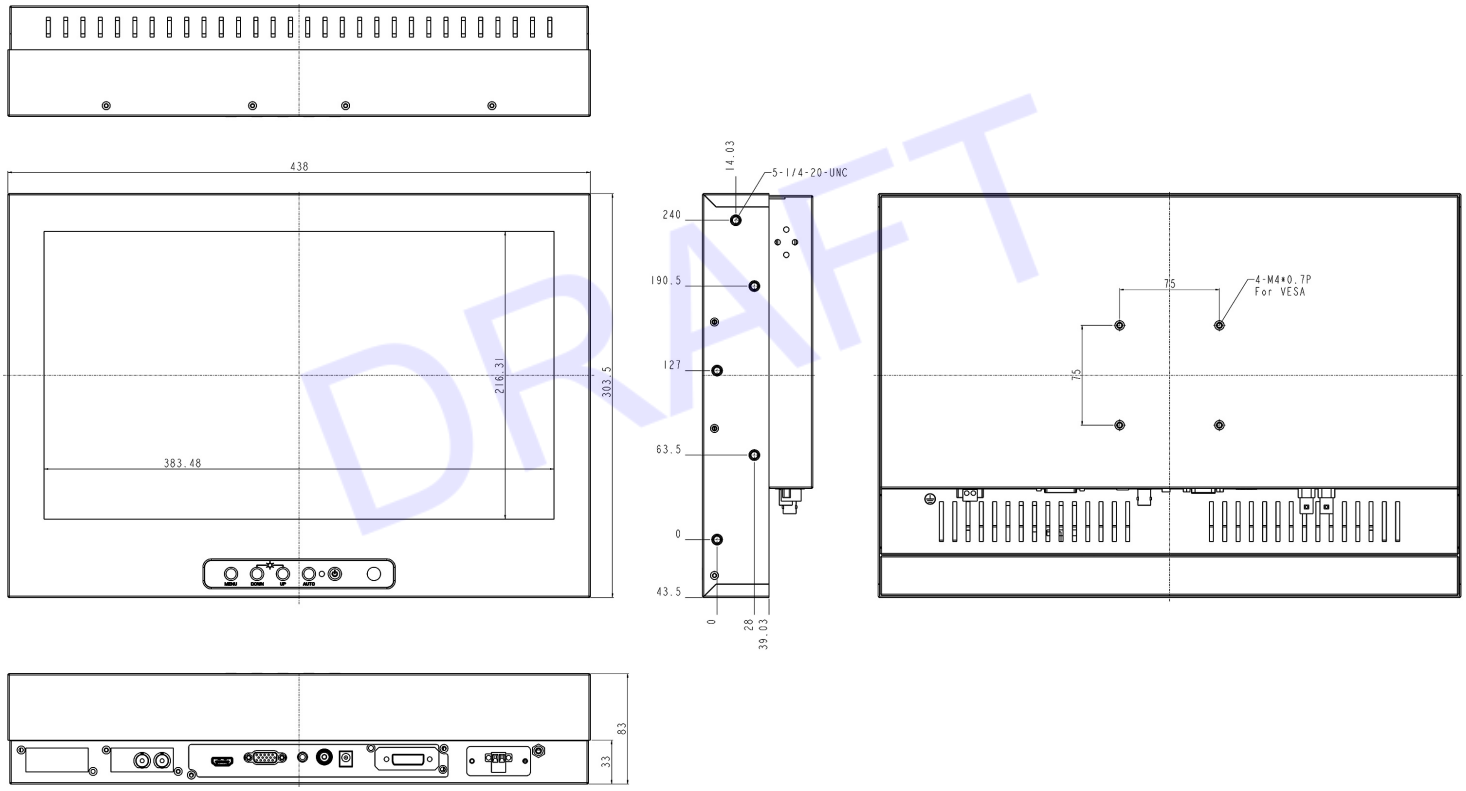
SPECIFICATIONS

Panel	Cell Type / Glass Surface	TFT LCD / Black Anti-Glare, low reflection coating	
	Aspect Ratio / Size	Wide / 17.3" viewable diagonal area	
	Active Area / Pixel Pitch	381.888(H) x 214.812(V) mm / 0.1989(H) x 0.1989(V) mm	
	Native Resolution / Colors	1920(H) x 1080(V) / 262 K	
	Brightness / Contrast	300 cd/m^2 (typ) / 600 : 1	
	Response Time	< 35 ms	
	Viewing Angle (typical)	H.178° (- 89° ~ + 89°) , V. 178° (- 89° ~ + 89°)	
	Light Source	LED backlight, Long life, 35,000 hrs (typ)	
Input Sources	PC System	Signal	Analog RGB (0.7/1.0 V_{p-p}, 75 ohms)
		Sync	Separate Sync, Composite Sync, Sync On Green
		Frequency	F_h : 30 - 82Khz , F_v : 50 -75Hz
	Audio System	2W speaker x 2	
Input Terminals	1 x VGA (15 Pin Female D-Sub) , 1 x DVI, 1 x HDMI, 2 x BNC		
Convenient Features	Auto Calibration , Back Light Adjustment , Plug&Play (VESA DDC/CI, DDC 2B)		
	OSD Multi-Languages , Wall Mount Ready (VESA Dimension - please refer to Drawing)		
Power	9~36VDC isolated Power		
Power Consumption	Operation / Power Saving	15 watt , < 1 watt (Support DPMS)	
Operating Condition	Temperature / Humidity	0°C ~ 50°C (32°F ~ 122°F) , 10% ~ 90% (no condensation)	
Storage Condition	Temperature / Humidity	- 20°C ~ 60°C (- 4°F ~ 140°F) , 10% ~ 90% (no condensation)	
Certification		FCC , CE	
Dimensions	Physical	Please refer to Drawing	
	Carton	W x H x D = TBD	
Weight	N.W. / GW.	4.5 Kgs / 5.5 Kgs	
Container Loaded	20ft / 40ft / 40ft HQ	TBD (Sets , By pallet)	

Options	Touch	Video / TV	Enhanced Panel	Others
	Resistive touch	SV + AV	Panel with LED backlight	Digital Signage(Stand alone)
	Capacitive touch	SV + AV + AV_Looping	High brightness panel	Networking Digital Signage
	SAW touch	SV + AV + TV	Wide Temperature	Motion Sensor
	Infrared touch		Sunlight Readable	Light Sensor
	Protected glass			Auto-Dimming

MECHANICAL DRAWING

This is subject to change without Notice. Final Drawings Will be Provided for Approval after Order.



Drawing No.: EMCHW1730TV-11072022-V1

PRODUCT TESTS REPORT

The above-mentioned Industrial LCD monitor product has been designed to comply with the tests listed below which were carried out during the development phase of the product.

ENVIRONMENTAL TEST	Specific Test Description	Comments	Passed
Dry heat Operational IEC 60068-2-2:1974 +A1:1993+ A2:1994	Temp. +60 °C, duration 48 hours		Yes
Dry heat Storage IEC 60068-2-2:1974 +A1:1993+ A2:1994	Temp. +80 °C, duration 4 hours		Yes
Cold operational IEC 60068-2-1:1990 +A1:1993+ A2:1994	Temp. -20 °C, duration 48 hours		Yes
Cold start test	Power off, soak overnight (8 hours) @ -45 °C, power up unit, unit must power up & function normally within < 30 minutes.		Yes
Cold Endurance Storage IEC 60068-2-1:1990 +A1:1993+ A2:1994	Temp -30 °C, Duration 4 hours		Yes
Humidity, operational Damp heat, steady state operational IEC 60068-2-2:1988	65 °C / 95 %RH for 6 hours, 35 ºC/85% RH for 16 hours. Repeat for 5 cycles total.		Yes
IEC 60529 Ingress Protection Rating (IPxx) Degrees of protection provided by enclosures (IP65 front) [Dust, water ingress (operational)]	Dust tight (no dust ingress; complete protection against contact). Water immersion: 30 minutes Water depth: 1 meter		Yes
Vibration test MIL-STD-167-1 Type I	Exploratory Test 4Hz – 25Hz @ .01-in single amplitude (.02-in DAD) 1Hz frequency intervals for (15) second dwells. Variable Frequency Test 4Hz – 15Hz @ .03-in single amplitude (.06-in DAD) 16Hz – 25Hz @ .02-in single amplitude (.04-in DAD) 1Hz frequency intervals for (5) minute dwells. Endurance Testing 25Hz @ .02-in single amplitude (.04-in DAD) The duration of Endurance Testing is to be 2 hours total, and should be performed at each frequency of prominence identified in the Exploratory and Variable Freq Tests previously performed		
Shock operational IEC 60068-2-27:1987	Half sine wave 11 ms pulse width, 30g 400 m/s² (40 g)		Yes
Medium weight Hammer Shock IAW MIL-S-901D	Equipment class I, Shock test type B,		Yes