

32" 4K UHD Military Display

M320TF-MIL

In mission critical environments, performance, reliable, and accurate image reproduction are imperative. From landscape to radar images, this environment is complex ecosystem that requires advance technology to keep it running smoothly. The M320TF-MIL with a UHD 4K (3840 x 2160) resolution helps minimize errors and improve operational efficiencies. With the number of display options available, knowing which will best suit your needs can be a challenge. The Winmate line of 4K monitors, implement the latest in technology, are making the decision easy.



Product Features

- 32" Display with UHD 4K (3840 x 2160) native resolution for video display and other on-site applications
- Thin and Compact Design with impact resistant screen
- AR protection glass with optional P-CAP touch
- Fanless and Ventless design, Easy-to-Clean
- Compatible with existing imaging systems

Product Specifications

TFT Technology	LED Backlight Technology, TFT Active-matrix, Widescreen, IPS Technology
Viewable Size	32" diagonal
Active Area	708.48"(H) x 398.52"(V) mm
Native Resolution	3840 x 2160 (UHD 4K)
Pixel Pitch	0.185 (H) x 0.185(V)mm
Aspect Ratio	16:9
Response Time	12ms (Gray to Gray)
Light Intensity	350 cd/m2 (typ), Optional for high brightness 700cd/m2 (typ)
Contrast Ratio	1000:1 (typ)
View Angle	89/89/89/89
Max Colors	1.07B
Synchronization Signal Auto-detect	Digital Separate Sync., Composite Sync., Sync. On Green
Synchronization Range	31.5 kHz to 60.0 kHz (H) - 30 Hz to 75 Hz (V)
Optimal Resolution and Hz	3840 x 2160 @ 60 Hz 4:4:4
Detectable Resolutions (Partial List)	640 x 480, 720 x 400, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x 1080, 1920 x 1200, 2560 x 1440, 3840 x 2160, 4096 x 2160
Product Features	Ambient light sensor, IR Control, Dimming

Power Specifications	24V DC in 150W, with external 110-240V AC to DC Adapter
User Controls and Activity	Capacitive OSD : Power On/Off, On Screen Display Menu, Brightness Control (-/+)
Input Signal	<ul style="list-style-type: none"> • DVI • HDMI 1.4 • HDMI 2.0 • Display Port 1.2 • VGA • Audio Line In • RS232 for Optional Remote Control • USB for Optional Touch
Product Dimensions	777.58 x 477.62 x 48 mm
Mounting	VESA mounting 100 x 100mm VESA mounting 200 x 100mm VESA mounting 300 x 100mm
Product Weight	11 Kg
Factory Options	• Projected Capacitive Multitouch screen (USB)
Operating Temperature	0 deg.C to 50 deg.C, Humidity up to 95%
Storage Temperature	-10 deg.C to 60 deg.C, Humidity up to 95%
IP Rating	Protection: front IP65 - rear IP22
Certificates	CE, FCC
Compliance	MIL-STD 810F/G MIL-STD 461E/F (RE101/RE102),(CE101/CE102)

* If you require external test report, Winmate will charge NRE fee.



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Military Grade EMC Compliance

EMC (MIL-STD 461E/F Compliance)			
EMC Test Spec	Type of Test	Frequency Range	Requirement
CE101	Conducted Emissions	30Hz ~10kHz	30Hz ~ 1kHz :110 dB 1k-10k:110-90 dB
CE102	Conducted Emissions	30Hz ~10kHz	10kHz ~ 500kHz: 100-66dB, 500kHz~10MHz:66dB
RE101	Radiated Emissions	30Hz ~100kHz	(30~100k :180-110 dBpT)
RE102	Radiated Emissions	10kHz ~-18GHz	(2MHz~18G Hz: 44-89 dB)


Military Grade Environmental Compliance

Environmental (MIL-STD 810F/G Compliance)		
Low Pressure	Operating	15,000 ft, Method 500.5 / Procedure II
	Storage	15,000 ft, Method 500.5 / Procedure I
Salt Fog	Method 509.5	
Vibration	5 ~ 500 Hz, 1.48 & 1.90 & 2.24 Grms Method 514.6 / Procedure I	
Transit Drop	Method 516.6 / Procedure IV	
Shock	Method 516.6 / Procedure I	


Designed for demanding reliability and the latest technology.




Zoom in by Region




Fanless




Display Port 1.2




Ultra HD



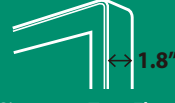
In-Plane Switch




Capacitive touch keys




Light Sensor



Signature True Flat With Slim design



Wide Viewing ANGLE



Built-in Speaker






Image Adjust by Region

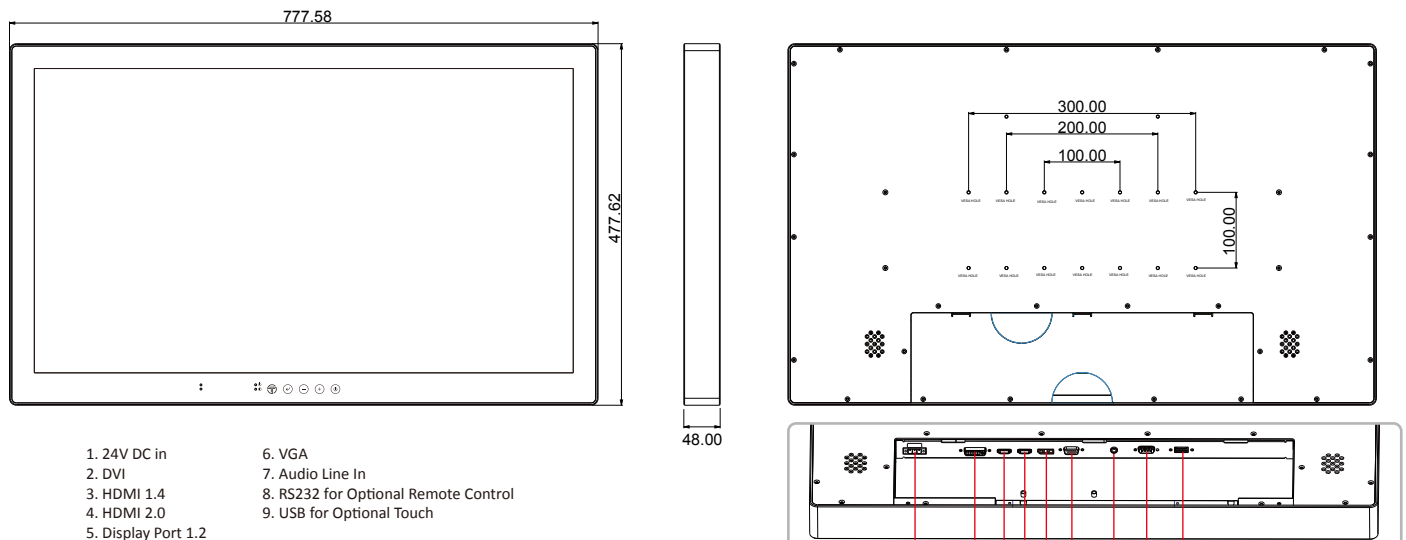


Touchscreen Capable (Optional)



HDMI 2.0

Mechanical Drawing



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