15" TFT LCD Display Composite Video & VGA Input

PROGRAMMABLE TACTICAL AWARENESS CONTROLLER

Model: DTT1500R



iTechLCD's Programmable Tactical Awareness Controller (DTT1500R) is aruggedized Mil Spec LCD display, engineered to operate under the most extreme environments found in military tactical wheeled and tracked vehicles. The DTT1500R offers a tactile programmable button interface (ASCII or HEX code) via RS232 protocol for PC software functions.

The ruggedized military computer display can be used in operations such assituational awareness and vehicle tracking, and surveillance and reconnaissance. The DTT1500R display can be used in either day or night operations. It comes equipped with features such as enhanced sunlight readability with high brightness, low power consumption and is NVIS compliant.

iTechLCD's integrated NVIS options either produce near zero color shift or slight color shift for full sunlight readability. The integrated NVIS is MILSTD- 3009 compliant, and can be viewed with NVGs (Night Vision Goggles) through the entire brightness range. Dimming is not necessary to meet MIL-STD-3009, Class B NVIS requirements.

Standard Features

- 15.0" TFT AM LCD XGA (1024 x 768)
- (2) RGB Inputs
- (1) RGB Output
- (1) Composite Video Input
- (1) Composite Video Output
- (12) Programmable Tactile Buttons (ASCII or HEX code via RS232 protocol)
- Tactile Button OSD User Interface (MIL-PRF-22885G; 1 million+ actuations)
- LED Backlight (1000:1 Dimming Ratio)
- Sunlight Readable
- Anti-reflective/Antiglare Surface Treatments
- Milled AL Case, sealed to IP67 NEMA 6
- Mounts via RAM or Panel Mount
- Military Grade Sealed Connectors
- Wide Range Input (10-36 VDC)†
- Protected against Internal Short Circuit, Load Dump, Over Voltage and Reverse Polarity
- 32 Watts Maximum Power Consumption



Optional Features

- NVIS Compliance (MIL-STD-3009 Class B)
- Touch (Touch works on both RGB ports)

Technical Specifications				
Display	15.0" TFT AM, XGA, LCD, 16M Colors			
Sunlight Readable	1,000 nits*			
Contrast Ratio	350:1			
Dimming Ratio	1000:1			
Viewing Angle (typical)	160° (H) x 135° (V)			
Video Input	(2) RGB, (2) RS-170 (NTSC/PAL) (B,D,G,I K)			
Mounting	Panel or RAM Mount			
Power Conditioning	Internal Short Circuit Protection Load Dump Protection Over Voltage Protection Reverse Polarity Protection			
Power Consumption	8 Watts Min - 32 Watts Max			
Environmental Specifications				
IP Rating	IP67 (NEMA 6 Submersible)			
Operating Temperature	-40°C to 70°C (-40°F to 158°F)			

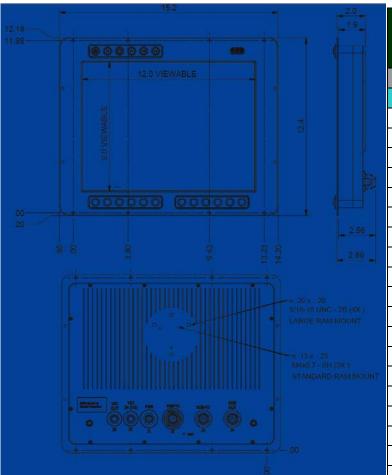
Storage Temperature	-40°C to 70°C (-40°F to 158°F)			
Humidity	0-100%			
Altitude	45,000 ft.			
Military Specifications				
MIL-STD-461E	EMI			
MIL-STD-810F	Method 501.4 II-Op; High Temperature			
MIL-STD-810F	Method 502.4 II-Op; Low Temperature			
MIL-STD-810F	Method 514.5; Procedure 1, General Vibration			
MIL-STD-810F	Method 516.5, Procedure 1, Functional Shock			
MIL-STD-1275D†	Wide Range DC Power Input 10-36 VDC (12, 24, 28 VDC nominal)			
MIL-STD-3009*	NVIS Compliance (Optional)			
MIL-PRF-22885G	Sunlight Readability for Buttons			
MIL-PRF-22750F	Housing Milled Aluminum, Tan Finish			
MIL-DTL-26482	Connector (Qualified)			
MIL-DTL-38999	Connector (Qualified)			



i-Tech Company LLC

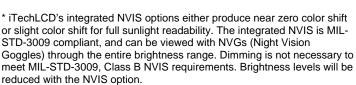
TOLL FREE: (888) 483-2418 • EMAIL: info@itechlcd.com • WEB: www.iTechLCD.com

Mechanical Drawing



RGB-V1 MIL-DTL-38999 SERIES 1 37 PIN CONNECTOR		RGB-V2 MIL-DTL-38999 SERIES 1 13 PIN CONNECTOR		RGB OUT MIL-DTL-38999 SERIES 1 13 PIN CONNECTOR	
	J2	J3		J4	
PIN	SIGNAL	PIN	SIGNAL	PIN	SIGNAL
18	RED	1	RED	1	RED
19	RED_GND	2	RED_GND	2	RED_GND
17	GREEN	3	GREEN	3	GREEN
30	GREEN_GND	4	GREEN_GND	4	GREEN_GND
16	BLUE	5	BLUE	5	BLUE
29	BLUE_GND	6	BLUE_GND	6	BLUE_GND
15	H-SNYC	7	H-SNYC	7	H-SNYC
14	V-SNYC	8	V-SNYC	8	V-SNYC
27	SYN-GND	9	SYN-GND	9	SYN-GND
10	N/C	10	TOUCH TXD	10	N/C
11	N/C	11	TOUCH RXD	11	N/C
28	GND	12	GND	12	GND
13	N/C	13	N/C	13	N/C
3	TOUCH RXD				
4	TOUCH TXD				
2	N/C				
6	BUTTON RXD				
7	BUTTON TXD				
5	GND				





^{*} The power range specified covers momentary environmental fluctuations generally found in a mobile environment while display is operating. For power initialization and continual operation, nominal voltages are required.

M	OWER INPUT IL-DTL-26482 SERIES 1 N CONNECTOR	VIDE	EO IN-V3 VIA BNC	VIDEO OUT VIA BNC	
	J1		J5		J6
PIN	SIGNAL	PIN	SIGNAL	PIN	SIGNAL
1	28 VOLT DC	1	COAX CORE	1	COAX CORE
2	28 VOLT RTN	2	SHIELD BRAID	2	SHIELD BRAID
3	CHASSIS_GND				

DIMENSIONS	MILLIMETERS	INCHES	
Height	315 mm	12.4"	
Width	386 mm	15.2"	
Depth (with connectors)	68 mm	2.69"	
Depth (w/out connectors)	51 mm	2.0"	
Weight	9.10 lbs ± .25 lbs. (4.1 kg ± .1 kg)		

