



## VDT

### Video Display Terminal

ISI's VDT is a combat systems operator display that is backwards compatible with legacy XGA resolution (1024x768) format displays. The VDT boasts a modular design and supports avionics open architecture (e.g. ARINC-818 ADVB) which allows for future growth and compatibility. This enables a form-fit-function replacement for existing 15" displays while improving reliability and decreasing weight due to leveraging advances in components including high efficiency solid-state lighting. It is fully ruggedized for airborne operational environments and includes selectable day and night (NVIS-compliant) LED backlight and NVIS-compliant bezel. The VDT also includes an integral heater for low temperature operation.



### Features

- » Sunlight Readable, NVIS compliant display and bezel backlighting.
- » Modular and open architecture design supports future growth (HD resolution, interfaces, touch and processing)
- » Interface versatility including ARINC-818 fiber optic video, copper based DVI, and RS-422
- » Electronics compatible with Full HD resolution input.
- » SWAP-C optimized system for high reliability and low life cycle cost.



## Optical Performance Specifications

<b>Viewable Area</b>	11.97" x 8.98"	<b>Viewing Angles</b>	±80° (H/V)
<b>Resolution</b>	1024 x 768	<b>High Ambient Contrast Ratio</b>	Up to 12:1 (Eye Reference Point)
<b>Color</b>	true 8-bit LCD with 16.7M colors	<b>Low Ambient Contrast Ratio</b>	Up to 800:1 (Eye Reference Point)
<b>Luminance</b>	>250fL (day mode)	<b>NVIS</b>	MIL-STD-3009 Compliant

### Physical Description

<b>Dimensions</b>	14.0" x 11.0" x 3.84" *
<b>Weight</b>	15.6 lb
<b>Cooling</b>	Conduction Cooled
<b>Primary Power</b>	28VDC Aircraft Power
<b>Power Consumption</b>	45W typ (90W Max)
<b>Bezel Configuration</b>	28 Multifunction Buttons, 1 Brightness Rocker Switch

### Interface Description

<b>Video Interfaces</b>	ARINC-818 (x2), DVI (x2)
<b>Signal Interfaces</b>	RS-422 (x2)

### Options

<b>Touch Screen</b>	Resistive Multi-Touch, PCAP
<b>HD Display</b>	1920x1080, 60Hz

\* Subject to platform interface requirements



## Environmental Performance

<b>Temperature</b>	-40°C - +55°C (Operating) -54°C - +71°C (Storage)
<b>Shock</b>	MIL-STD-810F
<b>Vibration</b>	MIL-STD-810F
<b>Altitude</b>	MIL-STD-810F + 70,000 ft
<b>EMI/ EMC</b>	MIL-STD-461C
<b>Power</b>	MIL-STD-704A (MIL-E-7894A)