

21" WIDE PANORAMIC DISPLAY

Affordable Dual Redundant Display

Astronautics' 22" Wide Panoramic Display (WiPaD) is a new concept for a wide large area display. It consists of two independent displays mounted side by side using a single bonded front glass. As such, it provides a dual, fully redundant, panoramic display at a very reasonable cost. Its top performance includes high brightness and contrast, wide viewing angles and high ruggedization.

GENERAL

The Panoramic Display includes:

- Two Color LCDs side by side with low reflectance
- NVIS compatible backlight
- Dual infrared touch panel, NVIS compatible
- Interface to standard video and communication
- Highly ruggedized mechanical enclosure.

The main features of the Panoramic Display are:

- High brightness and contrast.
- Anti-Reflection coating for direct view in sunlight.
- Night Vision Goggle (NVG) Compatibility.
- Wide dimming range brightness control for day and night operation.
- Designed to meet stringent Military Standards.



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Technical Characteristics

OPTICAL SPECIFICATIONS	
Display Area	19.7 inch x 7.3 inch (consists of two LCDs of 9.7 inch x 7.3 inch and a gap of 6 mm between them)
Resolution	2 x (1024 x 768) = 2048 x 768 color pixels (RGB)
Luminance	300 fL
Luminance Uniformity	75%
Viewing Angles	±70° horizontal and vertical
Contrast (no ambient light)	600:1
Contrast in 10,000 FC diffused sunlight	15 :1
Shades of grey	256 per primary color (total of 16 M colors)
NVIS Compatibility	Per MIL-STD-3009 for type I class B goggles
Touch panel	IR, NVIS compatible, multi-touch
ELECTRICAL SPECIFICATIONS	
Video Interfaces Available	Analog RS-170 RGB or Y/C, digital DVI, two input sets each
Communication	RS-422
Power	28 Vdc or 115Vac at 80 W max (without heater operation)
MECHANICAL SPECIFICATIONS	
Dimensions	21.3 inch x 8.9 inch x 2 inch (excluding bezel and connectors)
Front panel	Either Infra-red touch panel or pushbuttons panel, on the edges of the LCD
Cooling	By natural convection and radiation
Weight	Less than 6 kg
ENVIRONMENTAL SPECIFICATIONS	
Temperature - operating	-30°C to +60°C continuous; +71°C intermittent
Temperature - storage	-55°C to +85°C
Altitude	0 to 60,000 Feet
Vibration	5g, 50-2000 Hz
Shock	15g, 11 milliseconds
Humidity	Up to 95% at 40°C
EMI/EMC	Per MIL-STD-461E