



12.8" Display Unit

Full HD * Touch Sensitive (Multi-Touch)

Astronautics' Avionics 12.8" Multi-Touch Display Unit (DU) is based on a slim design (Around 1" thick), for use in cockpits and airborne workstations as a high-resolution modern mission display. The DU provides Full High Definition (F-HD) display resolution, with a DVI video input. The for connection of external USB input device (standard USB ports on the front panel), and various control keys in the front panel. Its excellent optical performance includes high brightness and contrast, high resolution, ultra-wide viewing angles and high ruggedization.

GENERAL FEATURES

- A full HD (F-HD) LCD.
- 3 Finger Resistive Touch (Multi-Touch with Gloves)
- Dual mode (Day/Night) backlight
- High brightness and anti-reflection coating supporting direct sunlight visibility.
- Digital Video (DVI) video input
- Control switches & annunciator LEDs
 - Power Button
 - Brightness control
 - Functional switches
 - Annunciator lights
- Communication with host via RS-422 (Touch panel & bezel keys).
- USB HUB with two (2 USB ports, accessible via the front panel).
- Slim design (less than 1" depth), highly ruggedized mechanical enclosure.
- Designed to meet stringent environmental and EMI Military Standards.





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OPTICAL SPECIFICATION	
Display Area	11.3" X 6.4" (283.4 mm X 159.4 mm); 12.8" diagonal
Resolution	FHD - 1920 x 1080 color pixels (RGB)
Luminance	Up to 250 fL (850 cd/m ²).
Luminance Uniformity	75%
Viewing Angles	±60° Horizontal; ±35° Vertical
Contrast (Low ambient light)	400:1
Contrast (High ambient light)	6:1 Minimum @ 10,000 fC diffused, plus 2,000 fL specular sunlight
Shades of grey	256 per primary color (total of 16 M colors)
ELECTRICAL SPECIFICATIONS	
Video Interfaces	Digital video DVI
USB Hub	2 x USB 2.0 channels
Communication	1 Channel of serial RS422 communication
Power	12 VDC, 23 W max
Connector	D-Sub Type, 37 pin connector
MECHANICAL SPECIFICATIONS	
Dimensions	299mm (W) x 219.8mm (H) x 24.2 mm (D) - excluding connector
Front panel	Momentary illuminated pushbuttons, Brightness control rocker, Power button, Pointing Device
Power supply	28Vdc (MIL-STD-704A) at 23W max (without heater).
Weight	1.9 kg
Environmental Specifications	
Temperature - operating	-15°C to +55°C continuous; +70°C intermittent
Altitude	0 to 41,000 Feet
Others	Per DO-160G (Vibration, Shock, Humidity, Rain, Salt-fog, Solar radiation, Fungus, Dust, Acoustic noise), and ABD0031G requirement (Flammability, Smoke density & Toxicity)
EMI/EMC	Per DO-160G

FOR MORE INFORMATION ON THIS OR ANY OF OUR OTHER PRODUCTS/SYSTEMS PLEASE CONTACT:

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