

# 15.6" Multi-Functional Display

## PERFORMANCE HIGHLIGHTS

Astronautics' **Avionics 15.6" Multi-Functional Display (MFD)** is a new product of a large display to be used in cockpit **main avionics displays, and for various sensors integration.** The MFD includes a **video matrix selector** and a **USB hub selector.** Its excellent optical performance includes high brightness and contrast, high resolution, ultra-wide viewing angles and high ruggedization.

### GENERAL FEATURES

The 15.6" MFD includes:

- A full HD LCDs – IPS technology.
- Dual mode, NVIS compatible backlight
- High brightness and anti-reflection coating for direct view in sunlight.
- Control switches, illuminated and NVIS compatible.
- Selection of one out of 5 video inputs at any resolution.
- Communication with two HOST computers.
- USB HUB connects a mouse and a keyboard to one out of 5 computers.
- Highly ruggedized mechanical enclosure.
- Designed to meet stringent environmental and EMI Military Standards.



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

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## DETAILED PERFORMANCE

<b>OPTICAL SPECIFICATION</b>	
Display Area	13.5 inch x 7.6 inch (344 x 194 mm)
Resolution	FHD - 1920 x 1080 color pixels (RGB)
Luminance	Up to 300 FL.
Luminance Uniformity	75%
Viewing Angles	±80° horizontal and vertical
Contrast (no ambient light)	600:1
Contrast in 10,000 FC diffused plus 2000 fL specular sunlight	6 :1 minimum in 10,000fC diffused, plus 2000fL specular sunlight.
Shades of grey	256 per primary color (total of 16 M colors)
NVIS Compatibility	NVIS B Compliance
<b>MECHANICAL SPECIFICATIONS</b>	
Video Interfaces	4 DVI Inputs at any standard resolution. 1 Analog RGB-HV at any standard resolution.
USB Hub	5 x USB 2.0 upstream Channels, 2 x USB 2.0 Downstream Channels.
Communication	2 Channels of serial RS422 communication
Power	28 Vdc at 60 W max (excluding heater operation)
<b>ENVIRONMENTAL SPECIFICATIONS</b>	
Dimensions	15.4 x 10.2 x 2.9 inches (391 x 259 x 73 mm) - excluding connectors.
Front panel	7 momentary illuminated pushbuttons and rocker, NVIS compatible
Power supply	28Vdc (MIL-STD-704A) at 60W max (without heater).
Weight	7 kg
Temperature - operating	-40°C to +55°C continuous; +70°C intermittent
Temperature - storage	-55°C to +85°C
Altitude	0 to 50,000 Feet
Vibration, Shock, Humidity, Rain, Salt-fog, Solar radiation, Fungus, Dust, Acoustic noise	Per MIL-STD-810 G / F
EMI/EMC	Per MIL-STD-461E

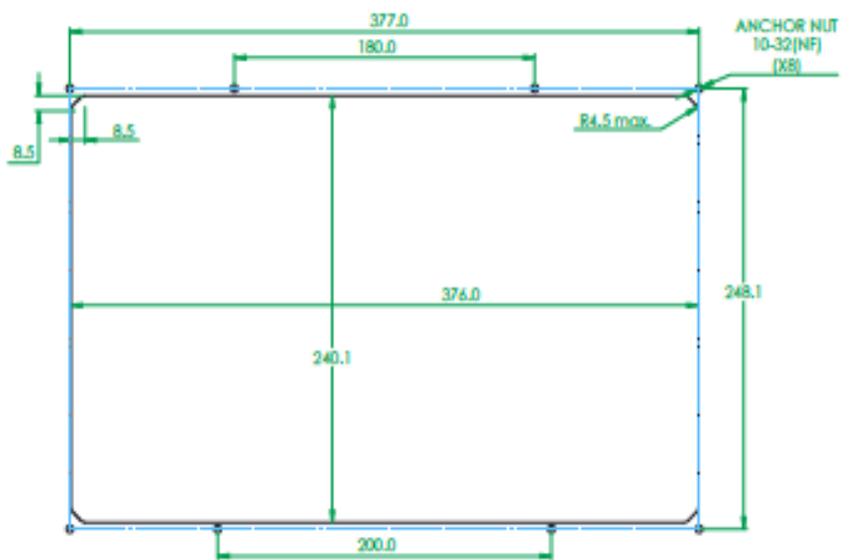
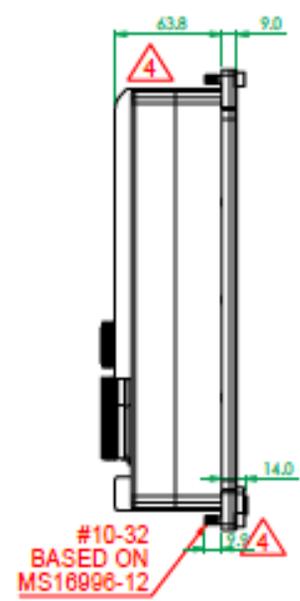
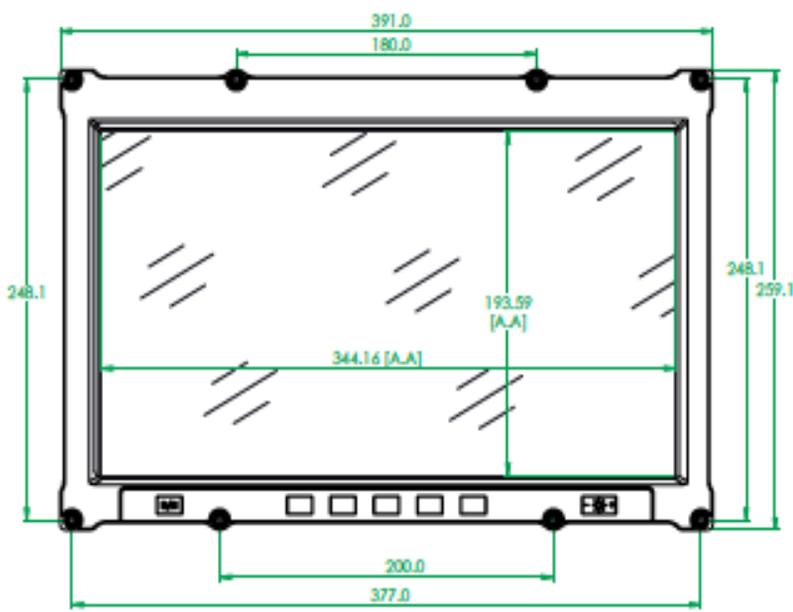
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## DIMENSIONS AND MOUNTING



**SUGGESTED PANEL CUTOUT FOR REFERENCE**