



# UFCD

## Up Front Control Display

**CYBER  
PROTECTED**

- Replaces aging Head Up Display panel
- Provides an added color LCD display to the cockpit
- Advanced Man Machine Operation
- Supports modern operation of aircraft's COMM devices
- Provides Audio/Radio controls
- Numeric keypad / cursor device / knobs
- Software selectable switches (around the display)



### Astronautics' UFCD includes:

- True flat-panel display & modern operating switches, knobs, soft-switches, keypad and cursor device
- Active Matrix LCD Display with LED backlight
- Anti Reflective coating
- Aspect Ratio 3:4 in portrait orientation.
- Night Vision Goggle (NVG) compatibility
- Selectable Brightness Modes: Day/Night/NVG
- Modular Rugged Construction
- BIT > 98% faults detection

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

<b>Display</b>	LCD with LED backlight & wide dimming range
<b>Viewing Angle</b>	30° in all directions
<b>Display Resolution</b>	640x480 pixels
<b>Active Viewing Area</b>	5.7" diagonal (aspect ratio 3:4)
<b>Colors</b>	262,144 colors (6 bits per color)
<b>Brightness</b>	0.1 fL to 250 fL (Day mode); 0.05fL to 3fL (Night mode)
<b>Contrast Ratio</b>	400 : 1
<b>Video Input</b>	DVI 1.0
<b>Digital Interfaces</b>	RS-422 (x3), Input GND/Open Discretives (X4), Output GND/Open Discretives (X8)
<b>Bezel</b>	Full bezel (20 multifunction illuminated keys) with tactile feedback on all keys, brightness & contrast rocker switches, Day/Night selector, numeric keypad, miniature cursor device (4 way pointer), INS mode select switch, various switches and knobs, master caution light, audio/radio controls – four (4) concentric knobs
<b>Bezel Dimming</b>	Local brightness knob (100 logarithmic steps)
<b>Power</b>	12 VDC, 10 Watts @ Maximum brightness setting; Heater – 15Watts (activated at low temperatures)
<b>Physical Dimensions</b>	8" (W) x 10.3" (H) x 1.1" (D)
<b>Weight</b>	2.5 Kg
<b>Temperature</b>	Operating: -25°C to +55°C; Storage: -40°C to +71°C
<b>EMC</b>	MIL-STD-461E – CS101, CE102, CS114, CS115, CS116, RE101, RE102, RS101, RS103
<b>Reliability</b>	15,000 Hours MTBF (Per MIL-HDBK-217 @ 40°C)

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