

Panoramic HD Airborne 22" Display

High Performance in a Wider and Slimmer Design



New from Elbit Systems of America, the 22" Panoramic High Definition Airborne display provides integrated high performance flight and mission graphics onto a single screen, wider and slimmer than ever before.

Our new generation of lightweight and low power consumption displays is driven by various external HD video sources. Upgraded options to smart displays provide extensive processing and interfacing capabilities, including embedded digital map.

Elbit System of America's High Definition display offers optional dual redundant electronics and backlight, assuring continuous, high performance even in cases of single fault failure.

This 22" diagonal landscape display provides a substantial increase of active display area. For size limited cockpits, a smaller size of 17" is available. Display and mission control is available with a variety of bezel options, including InfraRed Touch Screen.

Our new line of leading edge displays incorporates decades of experience in military and commercial avionics design, development and production.



Panoramic HD Airborne 22" Display

Main Benefits

- Very large area display enables simultaneous presentation of all A/C and tactical information
- High Definition (HD) resolution
- High brightness and contrast for direct sunlight visibility
- Full NVG compatibility
- Saturated colors in both day and NVG modes for vibrant reds and yellows
- Extra-wide viewing angles with uniform brightness and colors
- Advanced LED backlight - no power consuming lamp heaters
- Instant turn-on to maximum brightness at any ambient temperature
- Fast LCD switching speed, provides sharp presentation of moving targets
- Optimized electronics for enhanced image quality for both digital graphics and sensor imagery
- Optional dual redundant electronics and backlight
- Optional IR touch screen
- Slim and lightweight design
- Passive cooling - no forced air required, no fans



Technical Information

- **Electro-Optical:**
 - Active area: 18.7"X10.5" (aspect ratio 16:9)
 - Resolution: 1920X1080 pixels (true HDTV)
 - Brightness: >250 fL dimming to 0.02 fL
 - Contrast: >500:1 in dark environment, >10:1 in 10,000 FC diffusive sunlight
 - NVG compatibility: per MIL-STD-3009 and MIL-L85762A Type I Class B
 - Viewing angles: >60° cone in all directions with high contrast and no inversion
 - Gray scale: 8 bit per primary color (16.7 million colors)

Interfaces

- **Video In channels (single or multiple):**
 - DVI
 - LVDS
 - SMPTE 292
 - ARINC 818 (copper or fiber-optic)
 - Analog RGB (any standard)
 - Composite Video (NTSC or PAL)
- **Video Out channels:**
 - Analog RGB (any standard)
 - Composite Video (NTSC or PAL)
 - RS422/485 In/Out channels
 - MIL-STD-1553 MUX BUS interface
 - USB port
 - Discrete commands In/Out

General Data

- Power supply: 28VDC per MIL-STD-704 A thru F and RTCA DO-160
- Power consumption (at maximum brightness): 80W without LCD heater
- Dimensions: 530 x 326 x 67 mm (20.8" x 12.8" x 2.6")
- Weight: 6.8 Kg (15 lbs)
- MTBF: 7200 hrs
- Built In Test: PBIT, CBIT, IBIT
- Environmental: per RTCA DO-160 and MIL-STD-810E
- EMI /RFI: per MIL-STD-461E/462E



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