Technical Information:

Electro Optical:

- Brightness: >250 fL
- Contrast: >500:1 at dark environment
  >7:1 at 10,000 fC diffusive sunlight
- NVG compatibility: per MIL-STD-3009 and MIL-L85762A Type I Class B
- Viewing angles: >60° in all directions with high contrast and no inversion
- Resolution: 1024x768 (XGA)

Smart Displays also feature:

- Two independent CPU's and Graphics Processing Units:
  - Power PC
  - DDR SDRAM with ECC
  - GigaBit ethernet channels
  - OpenGL ES graphics accelerator
- Mass memory - 8GB
- ARINC 653 compatible operating system

Interfaces - Basic Displays:

- Video-In channels:
  - Analogue RGB (any standard)
  - Composite Video (NTSC or PAL)
  - DVI
  - LVDS
- Video-Out channels:
  - Analogue RGB (any standard)
  - Composite Video (NTSC or PAL)
- RS422/485 In/Out channels
- Discrete commands In/Out

Interfaces - Smart Displays:

- Video-In channels:
  - Analogue RGB (any standard)
  - Composite Video (NTSC or PAL)
  - Digital Video SMPTE 292M
  - ARINC 453/708
  - LVDS
- Video Out channels:
  - Analogue RGB (any standard)
  - Composite Video (NTSC or PAL)
  - LVDS
- ARINC 429 In/Out channels
- RS232 channel
- Ethernet 10/100/1000 channels
- USB 2.0 channels
- Discrete commands In/Out
- RS422/485 In/Out channels
- MIL-STD-1553B Mux Bus channel (option)

Controls Options:

- Brightness control rocker switch
- Customer selectable soft keys
- Automatic Brightness Control
- Rotary buttons and joystick
- IR touch screen

General Data:

- Power supply: 28VDC per MIL-STD-704 A through F and RTCA DO-160
- Power consumption
  (at maximum brightness and maximum processing):
  - Basic displays: 42 W without LCD heater, 100 W with LCD heater
  - Smart displays: 82 W without LCD heater, 140 W with LCD heater
- Environmental: per RTCA DO-160, MIL-STD-810E and MIL-STD-461E/462E
- MTBF:
  - Basic displays: 7200hrs
  - Smart displays: 3500hrs
- Built In Test: PBIT, CBIT, IBIT
- Hardware: RTCA DO-254 level A
- Software: RTCA DO-178B level A

For other options please contact Ferranti Technologies

FERRANTI TECHNOLOGIES

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July 09

ORD-900 Family of Airborne Displays

Top Performance in a Slimmer Design

FERRANTI TECHNOLOGIES

ORD-900 Family of Airborne Displays

Top Performance in a Slimmer Design

New from Ferranti Technologies - the ORD-900 family - a high performance range of primary flight and mission displays.

Slim, lightweight and low on power consumption, our new generation family of displays includes both basic models, driven by external video sources, and highly sophisticated smart models featuring extensive processing and interfacing capabilities.

Decades of experience in the military and commercial avionics markets have led us to the development of this leading-edge technology line of airborne displays.

Available in sizes of 15", 12.1" and 10.4" diagonal in both portrait & landscape orientation with a variety of bezel options, there is an ORD-900 display to suit virtually any application.

ORD-910s ORD-915s ORD-912

Main Benefits:

- High brightness and contrast for direct sunlight visibility
- Full NVG compatibility
- Saturated colours in both day and NVG modes for vibrant reds and yellows
- Extra wide viewing angles with uniform brightness and colours
- Advanced LED backlight - no power consuming lamp heaters
- Instant turn-on to maximum brightness at any ambient temperature
- High resolution
- Optimised electronics for enhanced image quality for both digital graphics and sensor imagery
- Broad colour gamut
- Passive cooling - no forced air required, no fans

Smart Displays also feature:

- Dual powerful CPU's
- Two independent Graphics Processing Units with OpenGL capability
- Separation between flight critical and non-critical functions
- Open modular architecture allowing easy integration of customer's or third party's software applications
- Extensive picture-in-picture and video overlay capabilities
- Wide variety of external interfaces to include ethernet communication
- Internal mass memory to support applications such as Digital Map

ORD-915 / ORD-915s

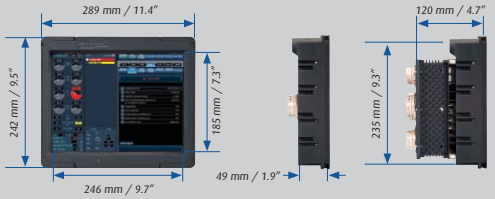
15" Diagonal Displays:

ORD-915 (basic) — *Weight: 6.2 kg / 13.6 lb*

ORD-915s (smart) — *Weight: 8.5 kg / 18.7 lb*

ORD-912 / ORD-912s

12.1" Diagonal Displays:

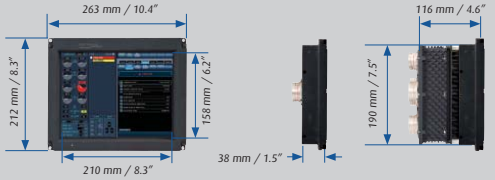


ORD-912 (basic) — *Weight: 4.7 kg / 10.3 lb*

ORD-912s (smart) — *Weight: 7.0 kg / 15.4 lb*

ORD-910 / ORD-910s

10.4" Diagonal Displays:



ORD-910 (basic) — *Weight: 3.2 kg / 7.0 lb*

ORD-910s (smart) — *Weight: 5.5 kg / 12.1 lb*