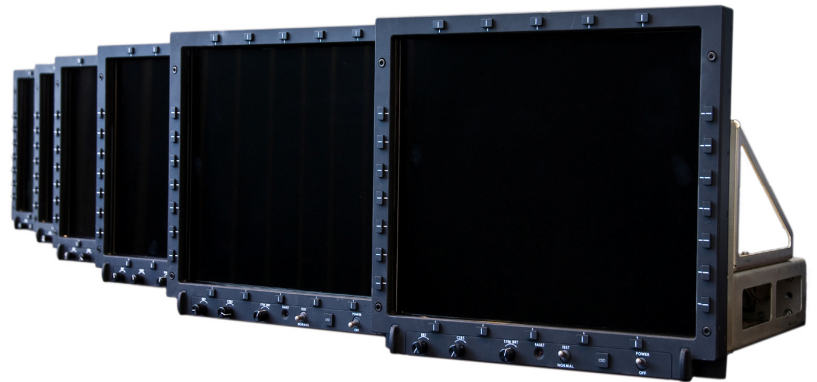


17-inch SXGA Multi-Function Display

- ◆ Multi-sync, multi-format video monitor with infrared touch system and bezel keys
- ◆ TFT AMLCD, 1280 x 1024 full color display
- ◆ 13.3 x 10.6 inches active area, 17-inch diagonal
- ◆ Two analog and one digital video input
- ◆ Analog video inputs support STANAG A (875 lines), STANAG C (525 lines) and NTSC with 20 MHz bandwidth
- ◆ Digital video input supports DVI with full 24-bit color resolution
- ◆ OSD alpha blending with transparency
- ◆ Motion compensation, fractional scaling, and aspect ratio conversion
- ◆ MIL-STD-810 environments including temperature, altitude, humidity, explosive atmosphere, shock, vibration, salt fog, crash hazard, sand and dust
- ◆ EMI compliance with MIL-STD-461
- ◆ Under than 25lbs



Fully Flight Qualified, Combat Proven



The GECO SXGA Multi-Function Display supports conversion of interlaced analog video in NTSC and STANAG A (525 lines) or STANAG C (875 lines) to digital video for output to a high quality 1280 x 1024 17-inch LCD TFT display. The video source is selectable from a primary

or secondary analog source. In addition true digital video input via standard DVI is also supported.

For enhanced target recognition, sharpness and gamma is user selective via an On Screen Display (OSD). In addition, while in analog mode, the display can be selected as Gray or Green.

The video controller module is based around a standard video controller augmented by an FPGA and an embedded micro-controller. The supported video formats, OSD menu, and gamma curves can be customized based on specific customer requirements.

GECO can produce customized standard display systems to meet your avionics or vehicle needs.



Engineering Solutions for Critical Environments

System Specification

System Configuration

Multi-sync, multi-format video monitor with infrared touch system and bezel keys.

Display

TFT (Thin Film Transistor) AMLCD, 1280 x 1024 pixel matrix, RGB stripe, active area 13.3 x 10.6 inches, 17-inch diagonal.

Cover Glass

5mm thick, optically-bonded, index-matched, chemically-hardened, impact-resistant, anti-reflective coating, hydrophobic coating (front side), ITO EMI layer (rear side).

Video

Two analog video inputs, primary and secondary, OSD alpha blending with transparency, Gen 2 FLIR compatible. Motion adaptive de-interlacing, fractional up and down scaling, aspect ratio conversion, frame rate conversion, user gamma selection. Four video inputs: STANAG A, STANAG C, NTSC, and DVI. On-screen display with infrared touch.

System Test

On-board test pattern generator, infrared touch system self test and correction.

Text Overlay

Simple graphics from on-board OSD memory.

Infrared Touch

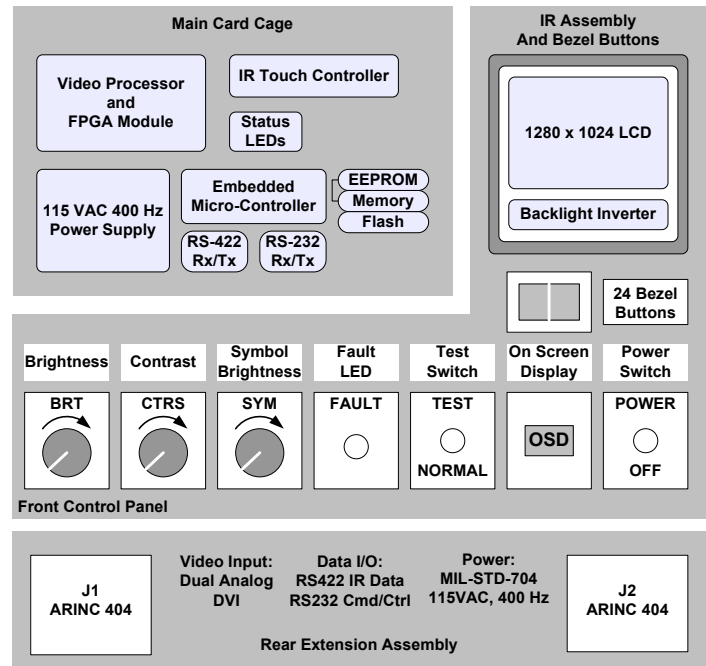
0.25-inch min accuracy, 0.125-inch min resolution, RS422 output via J2.

Front Mount Controls

Brightness, contrast, symbol brightness, test/normal, OSD on/off, power on/off.

Bezel Keys

24 bezel keys, 5 top/bottom, 7 right/left, 5-wire interface. Software encode option.



Adapters

17.5-inch deep rack and panel with dual ARINC 404 connectors. 19-inch rack mount adapter

Physical and Environmental Specification

Power: 115 V AC, 400 Hz, 60 watts.

Weight: 22lbs (without mounting adapters).

Dimensions: Bezel envelope 15.12 x 13 x 1.655 inches. Housing envelope 12 x 13.5 x 4 inches.

Operating temperature: -40 °F to 131 °F.

Storage temperature: -40 °F to 185 °F.

Humidity: 10% to 75%.

Altitude: -1,000 ft to +25,000 ft.

Environmental: Combined Temperature, Altitude, and Humidity test to MIL-STD-810 Method 520 10 days

Reliability: 4313 hours, uninhabited air cargo at 131°F per MIL-HDBK-217 parts count failure analysis.

Qualifications: AC-130U Gunship Battle Management Display.

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