



Fact Sheet

ALPHA-3800-01 15" (38cm) Display

Features

- ◆ 1024 x 768 resolution
- ◆ High brightness display
- ◆ Dual LED backlight for NVG filter option
- ◆ High Definition input as standard
- ◆ NVG filter option
- ◆ Touchscreen option with USB interface to a PC
- ◆ Uses D38999 connectors
- ◆ Conduction and convection-cooled

The new Alpha Series of displays from Curtiss-Wright Controls Embedded Computing has been developed with simplicity in mind.

This single stand-alone display, based

upon the proven Skyquest AVDU

family, provides users with all the functionality required for a display in an airborne surveillance mission. With a multitude of video inputs available, the unit is able to display imagery from all the industry leading multi-role EO turrets, cameras, moving maps and PCs.



The display comes with a single high-definition HD-SDI input and output as standard for presenting the highest quality images from the latest high-definition sensors.

Also as standard, the display offers the following functions, Picture in Picture, Picture by Picture (Split Screen), Image Freeze and Image Zoom.

The ALPHA series of displays all employ the D38999 connector types appropriate for demanding aerospace/military environments.

For night vision goggle operations we can fit a dual LED backlight. This gives the operator bright clear and colorful daylight images and an NVG compatible filtered display for night time operations.

Learn More

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ALPHA-3800-01 15" Display

Options

- ◆ The unit is available with an optional Night Vision Goggle (NVG) filter for night operations.
- ◆ The unit is available with an optional touchscreen for control over a moving map or PC. The touchscreen option includes a USB interface on the unit, we automatically fit the USB interface on the unit to allow the display to connect talk to a PC.

Technical Specification

Physical Dimensions

- ◆ Width: 388mm (15.2")
- ◆ Height: 310mm (12.2")
- ◆ Depth: 62mm (not including connectors) (2.4")
- ◆ Mass: <6kg (13.2lbs)

Functional

- ◆ Display Resolution: 1024 x 768 (XGA)
- ◆ Power: 28V DC

Qualification

- ◆ RTCA/DO-160

Part Numbers

ALPHA-3800-01: Standard display

Options (to be applied to end of part number):

T: Touchscreen

N: NVG filtered in accordance with MIL-STD-3009

Table 1: Video Inputs

| Number of Inputs | Signal Type | Connector Type | Comments |
|------------------|-------------|----------------|--|
| 4 | Composite | D38999 | PAL or NTSC |
| 2 | Composite | BNC | Connections in parallel to D38999 connector. So still a total of 4 composite inputs. |
| 1 | RGB | D38999 | |
| 1 | VGA | D38999 | |
| 2 | HD-SDI | BNC | SMPTE 292M |

Table 2: Video Outputs/Loop Throughs

| Number of Outputs | Signal Type | Connector Type | Comments |
|-------------------|-------------|----------------|---|
| 2 | Composite | BNC | Loop through of composite video applied to the BNC input connector. |
| 2 | HD-SDI | BNC | Loop through of HD-SDI video applied to the BNC input connector. |