



AVDU-2642

10.4" XGA Multi-function LCD Display

- ◆ XGA resolution high-brightness display
- ◆ Picture-in-Picture (PIP), sized and positioned on the screen by user menu
- ◆ Multiple video inputs, with instant switching between inputs to view
- ◆ Digital freeze frame
- ◆ SCALAR digital zoom
- ◆ Night Vision Goggle (NVG) filter option
- ◆ Compact and light weight design
- ◆ RGB, VGA inputs
- ◆ Video output

The AVDU-2642 is a compact multi-function LCD display designed for airborne use. It offers a wide range of video and VGA compatibility and gives the user a choice of inputs to suit most applications.



As standard, the display offers excellent video quality and features such as PIP, video freeze frame, video zoom and full range dimming.

Display Controls & Functions

The display is fitted with a membrane row of backlit control buttons, along with a rotary brightness control and a set of small direction arrow keys used for maintenance and set up. All control buttons can be factory programmed to meet a variety of user or installer requirements.

Button Backlighting Control

The buttons are backlit with specially designed NVG compatible lighting. This backlighting can be easily changed to meet differing operational requirements. For example, in early evening full backlighting brightness may be selected whereas for night time use, perhaps with NVG goggles, a very dim backlighting can be set.

Screen Brightness Control

The rotary brightness knob gives the user easy control over the brightness of the screen. The unit has been designed to offer the most precise and controllable adjustment at the 'dim' end where users need to make fine changes.

Learn More

Sales Info: sales.cwembedded.com

Sales Email: sales@cwembedded.com

ABOVE & BEYOND





Cockpit Master Dimming

The displays can be wired to enable the master cockpit lighting controller to dim and brighten the display in line with other avionics in the cockpit. This feature can be used or left unused as required by the installer or user.

NVG Filter Option

Using the latest NVG technology, Skyquest displays offer high-quality NVG compatibility. The filter, in combination with the smooth dimming control, allows the user to comfortably work in a night vision goggle environment.

Standard Display Features

Video Freeze Frame

By pressing the freeze frame button, the currently displayed picture is frozen in perfect quality on the screen. To return to live video, the freeze button is pressed again. Once frozen, an image can be electronically zoomed using the zoom function.

The displayed video image can be zoomed using a built in mathematical SCALAR zoom. This offers users true video zoom capability rather than pixel replication. The zoom function can be used on any freeze frame image.

Picture-in-Picture

PIP mode selects the currently viewed video image and places it as a window (the user can set size and position of PIP window) on top of the VGA or RGB image (for example, a live FLIR or video image can be placed in a window on top of the moving map or radar image).

Video Compatibility

Each Skyquest display offers multiple video, RGB and VGA inputs so almost any installation configuration can be handled using a standard unit. Switching between inputs is as simple as pressing the button required.

Mounting Option

Unit may be fitted with optional side check brackets providing a forward facing Dzus attachment for instrument panel installation (ordered separately).

Table 1: Technical Specification

Display Resolution	1024 x 768 (XGA)
Dimensions	200 mm x 250 mm x 63 mm (not including connectors or Dzus brackets)
Weight	<3.0kg
Power	28V DC
Power Consumption	60W
Video Input Standards	<ul style="list-style-type: none"> Composite video S-Video (Y/C) Component video (YCbCr) or RGB video or STANAG 3350/B/C (Default)
Graphics Formats Supported	Standard: <ul style="list-style-type: none"> VESA VGA SVGA XGA SXGA UXGA
Designed to meet environmental qualification standard EUROCAE/ED-14D and RTCA/DO-160D	

Table 2: Part Numbering

Part Number	Description
AVDU	Indicates that the product is a display (Advanced Visual Display Unit)
26	Screen diagonal in cm (approximate)
42	This denotes the variant of the display in this series
xx	This denotes the type of front screen fitted: 06: Filter, Polycarbonate, Anti reflective front coating, NVG (Grey/green) 07: Filter, Polycarbonate, Anti reflective front coating, NVG (Green) 13: Filter, Glass, Anti reflective coating, clear
yy	"yy" defines the key legends and functions. This number is to be allocated by Skyquest once the requirement is understood. Standard layouts are defined in the TSD or customer specific keys can be accommodated.
Additional Options	
DV	Additional DVI input option
DN	Day/Night - NVG external switch option
Sx	External Serial interface option (RS232[S2], RS422 [S4], PS2 [SP])