



Data Sheet

# AVDU-5008

## 20" Widescreen High-definition Display

### Features

- ◆ 16:9 widescreen format
- ◆ Compatible with all leading brands of airborne stabilized HD camera systems
- ◆ Multiple standard and HD video inputs and outputs
- ◆ VGA and graphics inputs
- ◆ Quad Screen (option)
- ◆ Split screen with multiple standard options
- ◆ HD ready (HD-SDI)
- ◆ High brightness with dual backlighting for optional NVG mode
- ◆ Embedded PC option



The Skyquest AVDU-5008 20" widescreen high-definition (HD) display, from Curtiss-Wright Controls Embedded Computing, offers users of the latest generation HD airborne camera systems true HD compatibility and stunning image quality. Designed to deliver the maximum possible image size within the smallest physical housing, the AVDU-5008 provides a host of additional features in a unit not much larger than a traditional 15" 4:3 display, with HD resolution delivering image quality not previously seen in aircraft applications.

Users have a number of display features at their control and can switch between full screen HD to split screen HD and moving map, or a number of other split screen and picture-in-picture modes. Adopting the Quad Screen option enables four live video images to be displayed together to maximize the use of multi-sensor camera systems. The optional touch screen feature allows operators to touch a Quad Screen image and switch immediately to a full screen view. The operator can then touch the screen to return to the quad overview, ensuring the most meaningful image is being used to track individuals or survey crime scenes.



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Like all Skyquest mission displays, the AVDU-5008 offers multiple video inputs, VGA (computer and/or graphics) inputs and a number of soft keys, which offer the option of controlling other mission equipment such as the VRDV-5002 high definition video recorder. HD video inputs are handled via BNC or Quadrax connection to the display, making it compatible with all of the leading brands of stabilized airborne camera systems.

When used with a Skyquest HD recorder, the AVDU-5008 can control all functions of the recorder, using the soft keys around the bezel of the display. This control includes not only the ability to start and stop recordings, but also to play back recorded video during flight. The display has built in LEDs to confirm video recording is active or to warn when video recording medium is running low.

Standard options include NVG dual backlighting, touch screen interface, Quad Screen and complex video matrix handling.

**Table 1: General Specifications**

Physical	
Dimensions	482 mm x 332 mm x 75 mm 18.98" x 13.07" x 2.95"
Weight	9.9 kg/21.83 lbs (option dependant)
Video and Graphic Signals	
Video Input Standards	<ul style="list-style-type: none"> <li>• Composite video</li> <li>• S-Video (Y/C)</li> <li>• Component video (YCbCr) or RGB Video (Default) or STANAG 3350/B/C</li> </ul>
Graphic Formats Supported	Standard VESA VGA, SVGA, XGA, SXGA, WXGA, UXGA & WUXGA (scaled)
Performance	
Display Resolution	1366 x 768 (WXGA)
Power	28 VDC
Power Consumption	112 W (option dependant)
Other	
Qualified to EUROCAE/ED-14D and RTCA/DO-160D	

**Table 2: Part Numbering and Available Options**

Part Number	Description
AVDU	Indicates that the product is a display (Advanced Visual Display Unit)
50	Screen diagonal in cm (approximate)
08	This denotes the variant of the display in this series
xx	<p>This denotes the type of front screen fitted:</p> <p>Three types of front screen options are available:</p> <ul style="list-style-type: none"> <li>• Anti-reflective coated glass</li> <li>• Polycarbonate film on glass touch screen</li> <li>• Polycarbonate window (lightweight option only)</li> </ul> <p>Behind the glass two LCD screen illumination options are available:</p> <ul style="list-style-type: none"> <li>• Cold cathode fluorescent tube (CCFL)</li> <li>• Dual array NVG/Day Light emitting diode (LED)</li> </ul> <p>These are designated by the xx in the part number as follows:</p> <p>01: Glass Anti-reflective coated (A/R) CCFL Day only illumination</p> <p>02: Glass Anti-reflective coated (A/R) LED Day/NVG (Green) illumination</p> <p>03: Polycarbonate (for the lightweight version) LED Day/NVG (Green) illumination</p> <p>51: Touch screen - CCFL Day only illumination</p> <p>52: Touch screen - LED Day/NVG (Green) illumination</p>
yy	This denotes the configuration of keys and controls. Before this number can be assigned the keys requirements should be discussed with your Curtiss-Wright Controls Embedded Computing sales person.
Additional Options (will change mass of the unit)	
DI	Differential video inputs is fitted
HT	Indicates that the heater option is fitted
EH	Indicates that image enhancement is fitted
QD	Quad generation is fitted
MX	Video Matrix option is fitted
EP	Embedded processor
L	Lightweight option fitted (requires 03 window)
QX	Quadrax connector option is fitted for HD



## **Warranty**

This product has a one year warranty.

## **Contact Information**

To find your appropriate sales representative:

Website: [www.cwembedded.com/sales](http://www.cwembedded.com/sales)

Email: [sales@cwembedded.com](mailto:sales@cwembedded.com)

## **Technical Support**

For technical support:

Website: [www.cwembedded.com/support1](http://www.cwembedded.com/support1)

Email: [support1@cwembedded.com](mailto:support1@cwembedded.com)

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