



Data Sheet

AVDU - 2112

8.4" Multi-function LCD Display



Features

- ◆ Ultra wide viewing angles
- ◆ Bright, sunlight readable display
- ◆ Tactile buttons
- ◆ Flange mounting
- ◆ Multiple video inputs
- ◆ NVG option
- ◆ Compact, lightweight design
- ◆ Integrated Joystick

Designed primarily as a center cockpit display, the AVDU-2112 incorporates buttons on each side of the display to enable pilot or co-pilot positions to operate the functions of the unit. As standard, the buttons on the left and right hand edges are repeated to enable full functionality to be gained from either side of the unit. Optionally different functions can be assigned to each button.

Like all Skyquest AVDU series mission displays the AVDU-2112 incorporates a comprehensive video matrix allowing for several forms of video, graphics and VGA inputs to be displayed. In addition, standard features include Picture-in-Picture (PIP), video freeze frame and video zoom commands often used in surveillance applications. An integrated joystick can be used for moving map control, positioning of the PIP window and for moving the frozen video image around on the screen to maximize the effectiveness of the SCALAR zoom function.



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Table 1: General Specifications

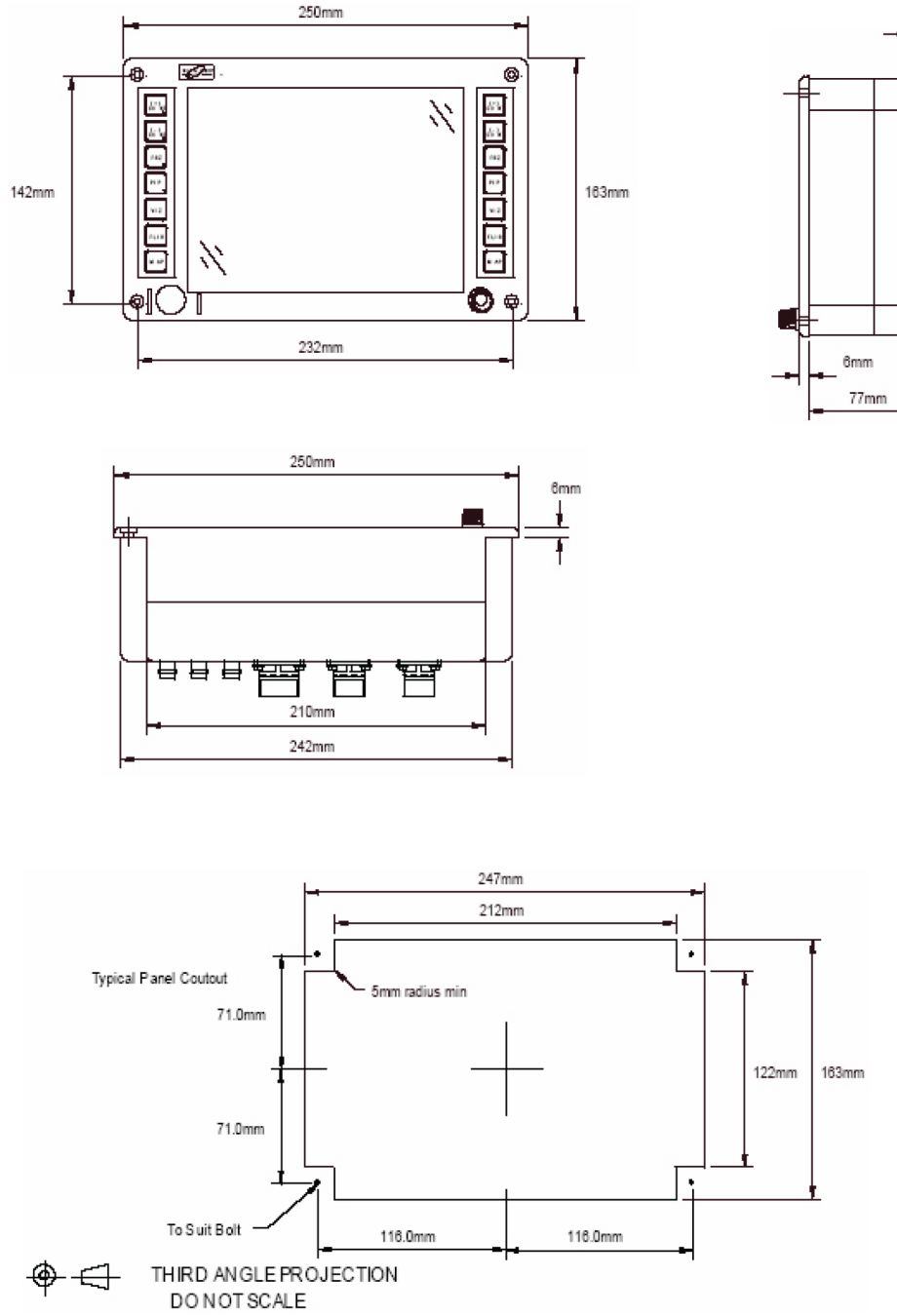
Physical	
Dimensions	250mm (w) x 163mm (h) x 77mm (d) 9.84" (w) x 6.42" (h) x 3.03" (d)
Weight	2.6 kg/ 5.72 lbs
Electrical	
Input Voltage	28V DC
Video and Graphic Signals	
Video Input Standards	Composite video, S-video (Component video (YCbCR) or RGB video or STANAG 3350/B/C) PAL, NTSC & SECAM
Graphic Input Standards	Standard VESA VGA, SVGA, XGA, SXGA, UXGA
Connectors	
Power	D38999/20WB 98PN
Signal	D38999/20WD 35PN
Remote	D38999/20WB 35SN
Display Performance	
Resolution	800 x 600 pixels
Viewing Area	170.4mm (w) x 127.8mm (h) 6.71" (w) x 5.03" (h)
Pixel Pitch	0.213mm (w) x 0.213mm (h) 0.01" (w) x 0.01" (h)
Pixel Configuration	RGB Vertical Stripe
Viewing Angle	Right: 60° Left: 60° Down: 45° Up: 40°
Luminance at Optimum Viewing Angle	Max: >800cd/m ² Min: <7 cd/m ² (max 1200 cd/m ²)
Contrast Ratio at Optimum Viewing Angle	>300:1

Table 2: Environmental Performance
(to EUROCAE/ED-14D and RTCA/DO-160D)

Section	Category
4 - Temperature & Altitude	Category B1 This unit is considered satisfactory for operation up to an altitude of 25,000ft. un-pressurised.
5 - Temperature Variation	Category C
6 - Humidity	Category A
7 - Operational Shocks & Crash Safety	Category B Operating: 6g 11/ms Non-operating: 15g/11ms
8 - Vibration	Category R + U (equiv: DO-160C Helicopter -Test curve 'N', 1.5g p-p)
9 - Explosion Proofing	Category E Environment III Surface temperature in normal operation cannot cause ignition.
10 - Waterproofing	Category W
11 - Fluid Susceptibility	Category F
12 - Sand & Dust	Category D
13 - Fungus Resistance	N/A Category F
14 - Salt Spray	N/A Category S
15 - Magnetic Effect	Category A The unit has no perceivable effect when mounted within 460mm (18") of an aircraft magnetic compass.
16 - Power Input	Category B
17 - Voltage Spike	Category A
18 - Audio Frequency	Category Z
19 - Induced Susceptibility	Category B
20 - RF Susceptibility (Radiated & Conducted)	Category S
21 - RF Emission	Category B
22 - Lightning Induced Transients	Not considered
23 - Lightning Direct Effects	Not considered
24 - Icing	Not considered
25 - Electrostatic Discharge	Category A



Figure 1: AVDU-2112 Dimensional Diagrams





Warranty

This product has a one year warranty.

Contact Information

To find your appropriate sales representative, please visit:

Website: www.cwembedded.com/sales

Email: sales@cwembedded.com

Technical Support

For technical support, please visit:

Website: www.cwembedded.com/support1

Email: support1@cwembedded.com

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