



Advanced Visualization

MDU 268 v2

6.521" (5.2" x 3.9") Display Head Assembly



Main features:

- Very wide viewing angles – ideal for cross-cockpit viewability
- NVIS Class B compatibility
- Safety critical multi-touch touchscreen
- 1 DVI-D video input, up to DAL C
- 1 HD-SDI input
- 6 analog inputs, can be combined into 2 STANAG 3350B class B inputs

The MDU-268 v2 is the successor to ScioTek's field-proven MDU-268. In addition to the DVI input and the analog video inputs (Composite, RGB, STANAG) the MDU-268 v2 also has a HD-SDI (SMPTE-292M) digital video input. The MDU-268 v2 is equipped with a multi-touch PCAP based implementation in order to support the latest market demands concerning intuitive man-machine interfaces.

Equipped with a high-quality sunlight-readable AMLCD and a high-efficiency LED backlight, the MDU-268 v2 delivers excellent optical performance. This includes high brightness and contrast values, as well as wide viewing angles of 80° in all directions. It allows the same unit to be used in portrait as well as landscape modes.

Compatible with thermal cameras, daylight video cameras, moving maps, computers and radar, the MDU-268 v2 Display Unit offers a dedicated imaging solution, wherever your mission takes you. The unit is DO-178B and DO-254 DAL C qualified for the DVI input and all HMI controls.

Technical specifications

MDU 268 v2	
Electro-optical	
Panel type	Active matrix LCD
Panel active area	10.4" diagonal
Panel resolution	1024 x 768
Color depth	262,144 colors, 64 grayscales (256 w/ dithering)
Viewing angle	H: +/- 80° V: +/- 80°
Backlight	LED backlight
Luminance	0.1 to 200fL
Sunlight readability	contrast ratio >14:1 @ 10,000 fC
Front surface	AG / AR / AF (MIL-C-14806 compliant)
NVG compatibility	MIL-STD-3009 Type I/II, Class B NVIS
Interfaces	
Video inputs	1 DVI digital video 1 HD-SDI (SMPTE-292M) Up to 6 (depending on the type) Analog inputs RS-170, NTSC, PAL, S-Video, VGA to XGA RGB (SoG or +H, +V), STANAG 3350 B/C
Video outputs	RS-422 communication for keyboard, touchscreen, video source/mode selection, OSD control and BIT data retrieval Discretes for display configuration, lighting mode selection, etc. RS-232 maintenance interface
Controls	
Bezel controls	24 programmable function keys, brightness & contrast
Touch screen	Safe-guarded multi-touch touchscreen
Brightness control	Automatic, manual or commanded through the RS-422
General specifications	
Power supply	28VDC, MIL-STD-704A
Power consumption	55W @ 120fL (20°C ambient)
Weight	3.8 kg / 8.4 lbs
Cooling	Internal fans
Built-in testing	PBIT / CBIT / IBIT
Software	RTCA/DO-178B Level C
Hardware	RTCA/DO-254 Level C
Environmental conditions	
Compliance	DO-160E
High temperature	+55°C operational / +71°C short-time / +85°C ground survival
Low temperature	-45°C operational / -45°C short-time / -55°C ground survival
Altitude	40,000 ft

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The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.

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