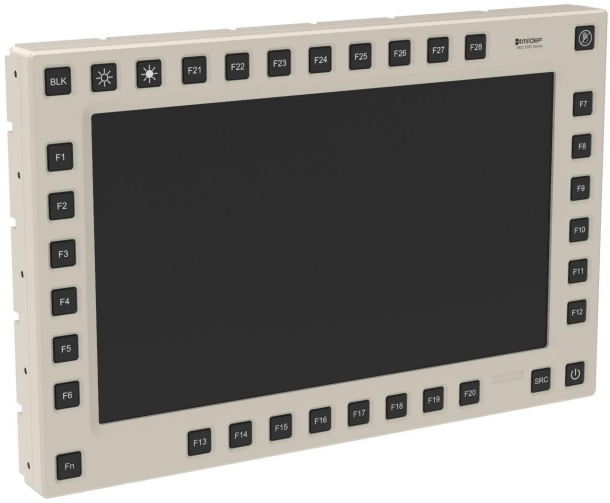
MDU1501



15.6" MDU DISPLAY

The 15.6" MDU Display is a rugged unit built for demanding environments. The display is part of the MilDef MDU series.

Modular display units

The MilDef MDU range is designed with modularity and low life-cycle cost in mind.

Featuring a rugged range of displays and backboxes, a solution may be tailored for any scenario. The modular concept enables cost effective future upgrades, utilizing the latest hardware.

Standardized mounting and compatibility

The MDU range features a standardized docking interface for full interoperability between displays and backboxes. Displays feature side mounting holes, with VESA mounting available on the backboxes.

Military-relevant rugged design

MilDef products are designed to operate in extreme environmental conditions and challenging electromagnetic operational scenarios. Operationally proven, MilDef products are actively employed in military operations in over 60 countries.

Customizable

Are you looking for additional features and functions? MilDef specializes in customized solutions, to include change of connectors, chassis modifications, mounting solutions, etc. Contact your nearest MilDef Sales Office and we will help you tailor a solution to meet your exact requirements.

Features

- Compatible with MilDef MDU Backboxes
- Multi touch
- Bezel buttons

Options

- MIL-connectors or Industrial
- NVIS
- AG or AR
- Programmable Bezel buttons
- IK0X

MDU1501

Other Interfaces

35x button panel (front)

Technical Specification

Brightness control	Two buttons to control brightness
Contrast ratio	800
Display color	16.7M colors
Display resolution	1920 x 1080 resolution
Display surface	Hardened glass 6H
Touch display	Multi touch
Docking compatibility	MDU Backbox (sold separately)
Response time	35 ms
White luminance	400 nits luminance
Power consumption	100 W with heater
Chassis material	Aluminum
Coating and color	AE0305-1101320 Axalta (RAL 1013)
Cooling	Passively cooled
Earth point	M6 12 mm
Surface treatment chassis	Chromit-Al
Weight	8 kg (17.7 lbs)
CE	Compliant

Environmental Specification

High temperature - Operating	MIL-STD-810G, Method 501.5, Procedure II - Operation 55 °C (131 °F)
High temperature - Storage	MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F)
IP Class (Solid Particle Protection)	IP Class 6X
IP Class (Water)	IP Class X5
Low air pressure - Rapid decompression	MIL-STD-810G, Method 500.5, Procedure III - Rapid decompression 75.2 kPa, corresponding to 2,438 m (8,000 ft) 17 kPa, corresponding to 12,192 m (40,000 ft)
Low air pressure - Operating	MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4,572 m (15,000 ft)
Low temperature - Operating	MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F)
Low temperature - Storage	MIL-STD-810G, method 502.5, Procedure I - Storage -40 °C (-40 °F)
Noise level	Maximum noise level of 40 dB SPL A-weighting at 1 m (3.3 ft) distance
Salt fog	MIL-STD-810G Method: 509.5 5 % ± 1 % (by weight) Two cycles, 24 h wet + 24 h dry / cycle
Temperature shock	MIL-STD 810G, method 503.5 procedures I 55 °C (131 °F) -40 °C (-40 °F)
Vibration - Helicopter	MIL-STD-810G. Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter
Vibration - Loose cargo	MIL-STD-810G. Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/trailer - loose cargo
Vibration - Tracked vehicles	MIL-STD-810G. Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles
Vibration - Wheeled vehicles	MIL-STD-810G. Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, wheeled vehicles

EMC Specification

EMI conducted CE102	MIL-STD-461F, Method CE102, Conducted emissions, power leads BASIC CURVE 10 kHz - 10 MHz
EMI radiated RE102	MIL-STD-461F, Method RE102, Radiated emissions, electric field Navy Mobile & Army 2 MHz - 18 GHz
EMS conducted CS101	MIL-STD-461F, Method CS101, Conducted susceptibility, power leads CURVE #1 30 Hz - 150 kHz
EMS conducted CS114	MIL-STD-461F, Method CS114, Conducted bulk susceptibility Army, Ground 10 kHz - 200 MHz
EMS conducted CS115	MIL-STD-461F, Method CS115, Conducted susceptibility, bulk cable injection, impulse excitation

EMS conducted CS116	MIL-STD-461F, Method CS116, Conducted susceptibility, damped sinusoidal transients, cables and power leads 10 kHz - 100 MHz
EMS radiated RS103	MIL-STD-461G, Air Force ground 2MHz to 1GHz Army