

Serval RD19-SXGA-01



Rugged 19" Display

The roda Serval RD19 is available in different versions and can also be customized to your specification. The displays with and without touch screen, high brightness option as well as blackout light and NVIS functionality.

roda Serval series

The roda Serval series allows operations at nearly all ambient conditions. The displays come with robust aluminum housing and was especially designed for demanding environments. Customized mounting systems offer a wide range of applications. The remote power on interface allows decentralized installations of display and computer.

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.

Guaranteed performance

MilDef products are designed for the long lifecycles of military programs and come with a lifetime support program to ensure your equipment maintains peak performance for many missions to come.

We also guarantee the availability of spare parts for an additional 5 years after product end-of-life.

Features

- 19" display
- 5:4 format
- Resistive touch (optional)
- Infrared touch (optional)
- Function keys
- NVIS compatible

Serval RD19-SXGA-01

Technical Specification

Display

Display	19" TFT LCD
Resolution (native)	1280 x 1024 pixel (SXGA)
Format	5:4
Colors	up to 16.7 million (8 bit/color)
Viewing angle	Vertical: 160° Horizontal: 170°
Contrast	1000:1
Luminance	Standard: 450 cd/m ² High Brightness: 1000 cd/m ² optional

Touchscreen

Resistive single touch **optional**
Infrared touch **optional**

Buttons

OSD menu in front panel
(8 keys, 2 LEDs)

NVIS

NVIS compatible **optional**

Interfaces*

- 1x DC-In (integrated invisible mode)
- 2x USB 2.0 Downstream
(Upstream only by RD-DVI)
- 1x RD-DVI**
- 1x VGA
- 1x Invisible mode / door contact activation

Audio

2x Speaker

Housing

Aluminum

Color

Military Green (RAL 6031)
Navy Grey
(other colors are available at request)

Mounting

- Display mounting:
 - e.g., for vehicle installation
 - RD19 Stand Unit
- Shock Mount fixation, designed to meet MIL-STD-810G

Other

- Grounding bolt
- Circuit breaker
- Carrying Handle **optional**

Technical Specification (cont.)

Size & Weight

Dimensions (W x D x H)	480 x 405 x 77.5 mm (18.9 x 15.9 x 3.1 inch)
Weight	10.7 kg (23.6 lbs.)

Temperature Range

Operational	-30 to +70 °C (-22 to 158 °F) ***
Storage	-40 to +70 °C (-40 to 158 °F)

Reliability

MTBF (Ground Benign)	TBD
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Power

Power input	18 - 32 VDC (230 VAC is available)
Power consumption	85 W (with heater)
AC Adapter	Ordered separately

Standards

CE	Yes
REACH	Yes
Environment	MIL-STD-810G IP65 (front) IP54 (back)
EMC/EMI	MIL-STD-461F SDIP 27 Level B optional

Warranty

Warranty	5 years
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Customization

Need anything not included in the data sheet? MilDef products are designed to enable customization to your specific program requirements. Please contact your MilDef sales team member to find the best solution for your requirements.

Environment (MIL-STD-810F)

Method	Operating	Storage
Altitude 500.5 (Procedure I, II)	4572 m (15000 ft) 4572 m (15000 ft)	4572 m (15000 ft) 4572 m (15000 ft)
Temperature 501.5 & 502.5 (Procedure I, II)	-32°C to +55°C (-26°F to 131°F)	-32°C to +70°C (-26°F to 158°F)
Temperature shock 503.5, (Procedure I)	-20* to +55 °C (-4 to 131 °F)	-20 to +70 °C (- 4 to 158 °F)
Salt fog 509.7 (Procedure I)	5 %, 35 °C	5 %, 35 °C
Vibration 514.6, Cat 1	Tracked Vehicle Vibration	Tracked Vehicle Vibration
Vibration 514.6, Cat 20 (Procedure I)	Comp. Wheeled Vehicle Vibration	Comp. Wheeled Vehicle Vibration
Vibration 514.6, Cat 24 (Procedure I)	All Material - minimum integrity test	All Material - minimum integrity test
Shock / drop 516.6 (Procedure I)	40 g, 11 ms	40 g, 11 ms

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*All interfaces are available with rugged industrial optional circular MIL connectors.

** All RD series displays support the remote function (RD-DVI). With remote function you can turn on the RD series display and the connected MilDef laptop by only pressing the power button of the display. Also, USB device signals like keyboard and mouse, which are connected to the RD displays USB-port, will be send via the display signal to the MilDef laptop.

*** Operational within 30 min from -30°C (-22°F)

Serval RD19 pictures



RD19 rear side



RD19 interfaces



RD19-SXGA with Stand Unit



RD19 with circuit breaker

Ordering information

Part number	Description
Main Unit	
	Serval RD19 - Green (RAL6031 HR)
	Serval RD19 - Gray
	Serval RD19 - Green (RAL6031 HR) MIL
	Serval RD19 - Gray MIL
Options	
	High brightness 1000 nits
	Resistive Touch
	Infrared Touch
	NVIS
	SDIP27 Level B (designed to meet)
	SDIP27 Level B (certified)
	MIL-STD-461F Ground Army (designed to meet)
	Only available with MIL and without touch option
AC adapter	
311-2615	AC90 w/MIL-DC-in EU
311-2591	AC90 w/MIL-DC-in US
311-2592	AC90 w/MIL-DC-in UK
311-2601	AC90 w/MIL-DC-in EU (Ground Army)
311-2593	AC90 w/MIL-DC-in US (Ground Army)
311-2594	AC90 w/MIL-DC-in UK (Ground Army)
Accessories	
	Carrying handles
	Transport case
	Stand unit RD19

More option and accessories are available at request, please get in contact with your local sales office.