# Display RD24

## full rugged — 24" display



WATER  SAND

FROST  HEAT

SHOCK  DROP

The RD24 allows an optimal use of modern command control communication and information systems, even under hardest environmental conditions. Customised mounting systems (Options) guarantee an wide scope of operation.

## Technical specification

| | |
|---|---|
| **Display** | 24" LED LCD colour display with dual touch screen |
| **Resolution** | FHD, 1920 x 1080 pixel |
| **Format** | 16:9 |
| **Display colours** | displays up to 16.7 million colours |
| **Viewing angle** | vertical: 178°<br>horizontal: 178° |
| **Contrast** | 5000:1 |
| **Luminance** | typ. 300 cd/m² (EMI glass might reduce the luminance) |
| **Reaction time** | 25 ms ($T_{on}$+$T_{off}$) |
| **Certification** | IP65,<br>designed to meet MIL-STD 810G,<br>designed to meet MIL-STD 461F (Navy Mobile & Army),<br>CE EN55022 and EN55024,<br>Product safety according to EN60950 |
| **Case** | aluminium, powder coated |
| **Colour** | military green RAL 6031 HR |
| **Dimensions** | 614 mm x 370 mm x 76 mm |
| **Weight** | ca. 20 kg |

**roda** solid IT·solutions

## Designed to meet:

| MIL-STD 810G | operating | storage |
|---|---|---|
| Altitude<br>Method 500.5 | 4572 m (15000 ft) | 12192 m (40000 ft) |
| Temperature<br>Method 501.4 & 502.4, (Prozedur I, II) | -20°C to +70°C<br>-30°C with heater | -30°C to +80°C |
| Humidity<br>Method 507.5, (Prozedur I) | Five 24h test cycles<br>95 % | Five 24h test cycles<br>95 % |
| Salt fog<br>Method 509.4, (Prozedur I) | N/A | 5 %, 35° C |

### only shockmounted:
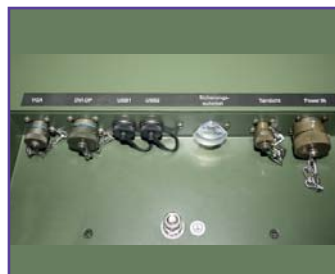
| | | |
|---|---|---|
| Vibration<br>Method 514.5, Cathegory 20 | Tracked Vehicle Vibration<br>Comp. Wheeled Vehicle Vibration<br>All Material - minimum interity test | Tracked Vehicle Vibration<br>Comp. Wheeled Vehicle Vibration<br>All Material - minimum interity test |
| Shock / drop<br>Method 516.6 | N/A | 40 g, 11 ms |

**WATER JET** RESISTANT

**SHOCK** RESISTANT

**DROP** RESISTANT

**FROST** RESISTANT

**HEAT** RESISTANT



**RD24 circuit breaker switch**



**RD24 example for standard interfaces**



**RD24 example for MIL interfaces**

## more technical specification

- heater: operational within 30 minutes from -30°C
- OSD menu in front panel (8 keys, 2 LEDs)
- varnished fine structure
- coated filter screen
  conductively coated/ Sitec 15 (< 20Ohm/cm²)
- power Input 18-32 $V_{DC}$, nominal 24 $V_{DC}$
- grounding bolt
- circuit breaker

## Options

- carrying handles
- rugged transport box
- rugged mounting systems
    - e.g. RD24 StandUnit
    - custom mounting for on request
- Shockmount fixation, designed to meet MIL-STD 810G

## Interfaces

- VGA
- DVI
- 2x USB2.0 Downstream (Upstream only by RD-DVI)
- MIL-DC-In
- MIL invisible mode / door contact activation

standard connectors optional available with MIL grad connectors

All roda displays from RD series support the remote function (RD-DVI).
With remote function you can turn on the RD series display and the connected Rocky® unit 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 Rocky® unit.

v1.2