

# HEL

full rugged

# 4.0

video wall



  
WATER

  
SAND

  
FROST

  
HEAT

  
SHOCK

  
DROP

The roda HEL4.0 represents the consistent further development of HEL2.0 which has been shown highly reliable in harsh environments in the operation area. It was made the switch to up to date components in the fields of computer technology, LCD technology and data transmission technology. The HEL4.0 is the perfect equipment to visualize and centralize information in stationary and mobile command posts.

The HEL4.0 offers the following features:

- high modularity - 1x1 display, 2x1 display or 2x2 display version
- highly mobile by optional Case (transport and storage box) system
- complies with the relevant MIL-STD, STANAG and industry standard, can therefore be used even in extremely harsh environments
- for mobile use extremely short assembly time, can be reduced to 30 minutes in the version 2x2
- VTC-capable (Video/Phone - conference)
- optional available Tempest SDIP 27 Level C and Level B
- hardware-independent operator software **roda HEL Commander V.2**
- maximum resolution 8K (4k per display)
- optional operated with touch system or pad solution
- Computer system with removable drives

## Technical Specification

### HEL 65" display, rugged

Display	65" display with extra narrow frame
Resolution	UHD 4k, 3840 x 2160 pixel
Format	16:9
Color display	display of up to 16.7 million colors
Viewing Angle	178° (l/r/o/u)
Contrast	4000:1
Brightness	typ. 450 cd/m <sup>2</sup> without EMI glass
Reaction time	8 ms (GtoG)
Power supply	230V <sub>AC</sub> voltage input and output
Certification	IP54
VESA	400
Housing	rugged aluminum housing
Colour	RAL 1013 HR matt with fine structure
Dimensions	1453 x 834 x 93.4 mm
Weight	ca. 56 kg

### HEL Computer, rugged

CPU	Intel® Xeon® processor D-1541
Memory	64 GB DDR4 RAM
Storage	2x SATA III SSD RAID 0/1 supported
Interfaces	6x USB2.0, 2x Gigabit LAN LWL, 4x HEL fibre display interface
Operating system	support for Windows 10 64 Bit
Power supply	230V <sub>AC</sub> voltage input and output
Certification	IP54
Housing	rugged aluminum housing
Colour	RAL 1013 HR matt with fine structure

Components \ Version	HEL 1x1	HEL 2x1	HEL 2x2
HEL 65" Display	1	2	4
HEL Computer	1	1	1
HEL 1x1 Stand system	1	-	-
HEL 1x2 Stand system	-	1	-
HEL 2x2 Stand system	-	-	1
Case HEL 65" Display	1	2	4
Case HEL Computer	1	1	1
Case HEL Stand system	1	1	1
roda HEL Commander	1	1	1
Weight	ca. 250 kg	ca. 350 kg	ca. 590 kg

### Environmental Specification

Temperature storage	according MIL-STD-810F 501.4 Procedure 1 (+71°C) according MIL-STD-810F 502.4 Procedure 1 (-21°C)
Temperature operating	according MIL-STD-810F 501.4 Procedure 2 (+49°C) according MIL-STD-810F 502.4 Procedure 2 (-19°C)
Climate zone	according STANAG climat zone: A1, A2, A3, B1, B2, B3, C0, C1, M1, M2, M3 Note: C1 and M3 only in storage by using the TuLB and with active TuLB heater
Humidity	according MIL-STD-810F 507.4
Dust protection	according MIL-STD-810F 510.4 Procedure 1
Water splash	according MIL-STD-810F 506.4
Vibration	according MIL-STD 810F 514.5 C1 according MIL-STD 810F 516.5 Procedure 1 according MIL-STD 810F 500.4 Procedure 1
IP	according IEC 60529: IP54

### Electrical safety

EMI	2004/108/EG • EN 55022:2010 +AC:2011 • EN 55024:2010 • EN 61000-3-2:2006 + A1:2009 +A2:2009 • EN 61000-3-3:2008
Low voltage	2006/95/EG • EN 60950-1:2006 +A11:2009 +A1:2010 +AC:2011 +A12:2011
RoHS	2011/65/EU • EN 50581:2012
MIL-STD-461F	• RE102-4
Tempest	SDIP 27 Level B (optional)