

Robbo Command

GROUND
CONTROL



TELEROB
— An AVS Company —

PRODUCT
DESCRIPTION

Control station Robo Command

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Telerob Gesellschaft für Fernhantierungstechnik mbH

Vogelsangstrasse 8 // 73760 Ostfildern // Germany // Phone +49 (0)711 34 102 - 0 // www.telerob.com

Control station

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1 GENERAL

The modern control station Robo Command allows a uniform operating concept for the EOD robot tEODor EVO and all models of the telemax EVO series. Thus, operations of all robots within a fleet can be done via just one Robo Command, permitting multi-robot operation. The control station is comprised of a communication unit, a controller and associated radio equipment.

The communication unit is made up of a hand-luggage-sized PELI case. During transport, the case not only houses the controller, but also the radio

components, the telescopic mast, a power supply unit and the electronics for the communication unit including a battery. When in use, the telescopic mast is affixed to the communication unit along with the radio components, enabling the antennas to reach a height of approximately 1.8 m (5.9 ft) when extended. The communication unit offers several connections: such as a PSU connection, an ethernet connection with PoE and a voltage connection.

The controller consists of a multi-touch screen and two lateral operating blades, each fitted with a



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3-axis joystick and a control pad. Both the operating interface and the video streams transmitted by the camera(s) are shown on the multi-touch screen, providing a quick and complete overview of all the information and functions. The set-up of the user interface is self-explanatory and permits intuitive operation based on the applications we're all familiar with from the world of tablets and smartphones. What's particularly beneficial is that most settings and functions can be accessed in two clicks at most. For experienced users, there is a control pad to en-

able quick access to frequently used and important functions.

The entire EOD robot is controlled with only two joysticks. Numerous displays provide information about the current vehicle condition and the selected settings. The EOD robot's current axis position data is displayed as a 3D animation. The controller and the radio components can be quickly and conveniently integrated in an emergency vehicle if necessary.

2 TECHNICAL DATA

2.1 COMMUNICATION UNIT

CASE	PELI™ 1510
LENGTH	230 mm (9.1 in)
WIDTH	355 mm (14.0 in)
HEIGHT	560 mm (22.1 in)
WEIGHT	Approx. 19 kg (41.9 lb) (including controller and radio equipment)
POWER SUPPLY	BB2590 Li-ion battery
CONNECTIONS	Charger plug, operation cable, fiber optic cable, radio equipment, external GPS, PoE, voltage output
MAST HEIGHT	Approx. 1800 mm (70.9 in)



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2.2 CONTROLLER

LENGTH	502 mm (19.8 in)
WIDTH	225 mm (8.9 in)
HEIGHT	100 mm (3.9 in)
WEIGHT	Approx. 4.6 kg (10.1 lb)
CONNECTIONS	1 x ethernet 2 x USB3 1 x display connection 1 x headset socket 1 x operation cable 1 x dongle
DISPLAY	12.1" diagonal, sunlight-suited (1000 cd/m ² typ.)
TOUCH	Capacitive multi-touch, operable with gloves, can be used in rain
SPECIAL EQUIPMENT	2 x 3-axis joystick 2 x loudspeaker 1 x microphone
IP RATING	IP 65

2.3 ADDITIONAL DATA

BTN NUMBER	84799070
END USER CERTIFICATE	Required

2.3.1 ELECTRICAL/ELECTRONICS

ELECTROMAGNETIC	EN 301 489-1
COMPATIBILITY (EMC)	EN 61000-6-2
	EN 61000-6-3

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2.3.2 RADIO LINK

The network is self-configuring, i.e. the best connection is always selected automatically, e.g. via repeaters. The frequency range can be restricted on the software side if required.

NETNODE IP MESH RADIO	
	1,14 ... 1,5 GHz
FREQUENCY BAND	2,0 ... 2,5 GHz 4,4 ... 5,0 GHz
BANDWIDTH	6 MHz
TRANSMITTING POWER	1 W

MPU5 IP MESH RADIO	
	1,35 ... 1,39 GHz
FREQUENCY BAND	2,2 ... 2,5 GHz 4,43 ... 5,0 GHz
BANDWIDTH	10 MHz
TRANSMITTING POWER	3 × 2 W (depending on radio module)

2.3.3 AMBIENT OPERATING CONDITIONS

TEMPERATURE RANGE	-20°C to +60°C
IP RATING	IP 65
MOISTURE	Cleaning and decontamination with running water

3 SCOPE OF DELIVERY

- › Bedieneinheit
- › Communication unit with telescopic mast, power supply and battery
- › Controller
- › Radio equipment IP Mesh
- › Power supply unit with cable
- › 3m cable
- › Headset

