

NERVA[®] S

Robot dedicated to information collection
for Defence and Security applications

KNDS





/ NERVA® S

Robust robotic system for remote observation

Fast and quick to deploy

Robust and reliable

Easy to use

NERVA® S is a 2-wheeled compact robotic platform, equipped with one High-Definition camera and one microphone; it can collect remote information in hostile or unknown environment (even with CBRN and IED threats). It is operated and managed (including both audio and video data) using standard based equipment (rugged PC, Tablet, Smartphone, ...).

Performance and Robustness of radio link between the robot and this control station provide a range over several hundred meters in urban environment.

As a highly rugged platform, NERVA® S can be thrown without any damage on concrete floors at distances over several meters, even from a moving vehicle; its weight and its hardness make it well able to break a window. Very compact when in transport configuration, NERVA® S is powered in seconds; this one is also used for balancing the platform and, when required, to throw it.

Finally, it is equipped with "Ethernet" and digital "dry contacts" interfaces to remote control/trigger external payload that would be placed on the robot body.



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KRV-047-EN-06/2024

Operational use

Indoor and Outdoor use

Speed 0-4 km/h and 0-15 km/h

Weight 2 kg

Dimensions 30 cm x 21 cm x 15 cm

Payload capacity 1 kg

Energy 1x Battery Li-Ion / 2700 mA.h / 21,6V

Endurance 4 hours (depends on mission profile)

Charging time < 1 hour

On-board perception Front HD Camera; on-board visible and infrared lighting; microphone

Radio communication COFDM 2,4 GHz (on request: WiFi 2,4 GHz / 100 mW)

Shocks/vibrations MIL-STD-810

Ambient temperature -20°C / +40°C (+55°C with intermittent operation)

Waterproofness IP65 (IP67 en option)

Command and control station Rugged PC based + joystick (on request: Tablet, Smartphone)

Control modes Teleoperation

Logistics and Configuration

Secured transport kit for vehicles (option)

Charging kit from: 110V-220V main, vehicle and solar panel (option)

Wheels replaceable in "1-click"

Interfaces for additional payloads:

- **Mechanical:** Generic interface via picatinny rails OR configurable metal plate
- **Power:** 24V / 1A
- **Data:** Ethernet, digital I/O (relay with dry contacts)