NERVA®XX

**Multi-purpose robot
for reconnaissance
and support to operations**

KNDS

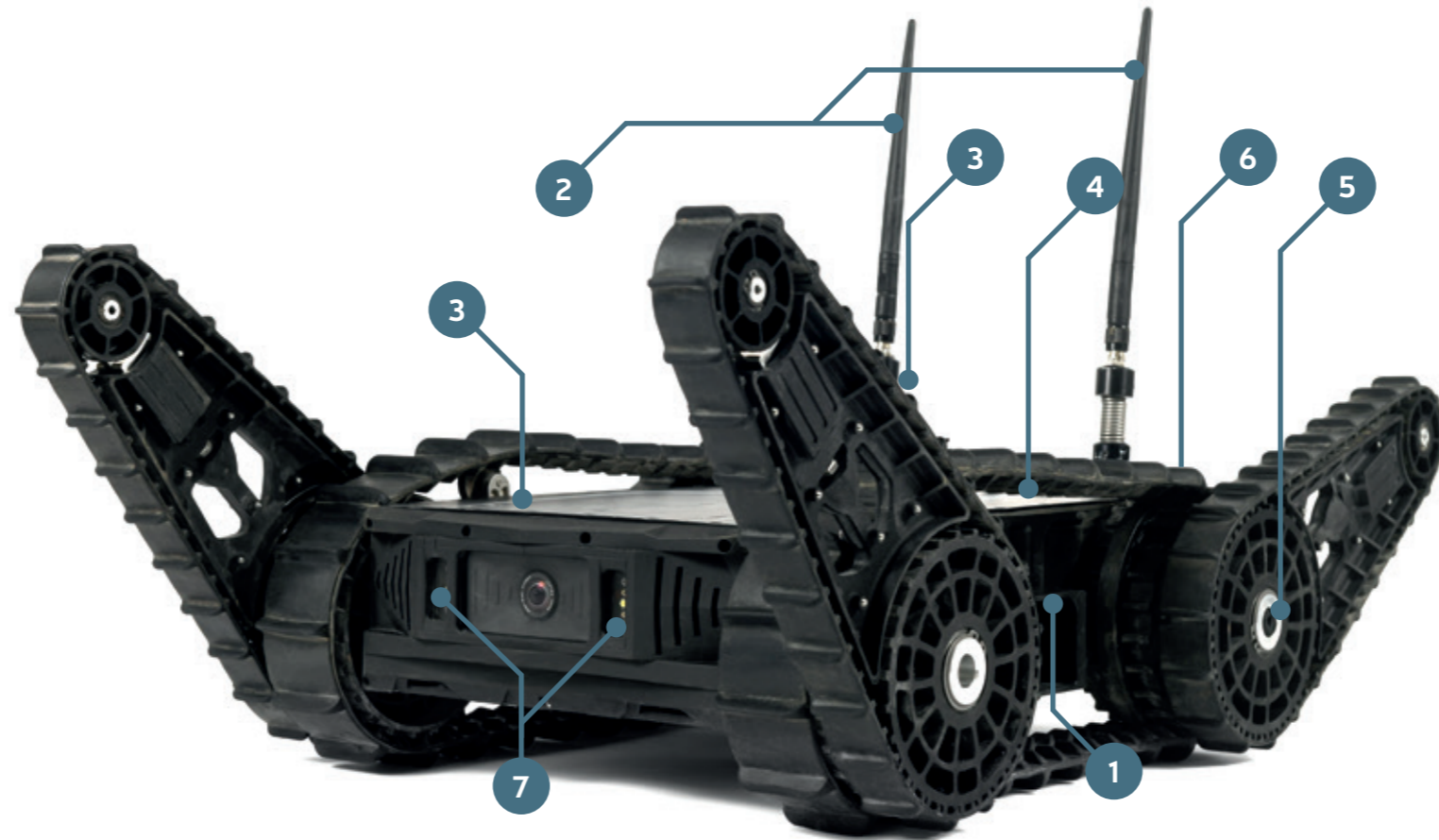# NERVA® XX
multi-purpose medium size robot for reconnaissance and support to operations

Mission module Manipulator arm

- Removable arm (hot swap)
- 4 electrical axis + 1 O/C gripper
- Automatically vertical and horizontal reach position: up to 91 cm
- Gripper aperture: 0 to 120 mm
- 1 safe shooting circuit
- Anti-collision safety
- 3 camera with lighting
- Gripper/turret/disrupter camera
- 2 PICATINY rails for payload

Description & features

1 1-Click battery:
Changing the battery can be done easily in 1-click, no tool required.

2 Long range COFDM & mesh capability:
More than 1000 m in Line Of Sight (LOS), more than 500 m in dense forests, more than several 100 m in urban areas.

3 1-Click modules:
Mechanical and electrical interfaces to operate a large panel of additional standards or dedicated payloads. No tool required, compatible with NERVA® LG.

4 Semi-autonomous:
Semi-autonomous capabilities: waypoints navigation.

5 1-Click tracks:
You can easily add the front and/or rear flippers according to your needs, no tool required.

6 Rear camera:
Rear & Front Camera : HD 1280x720 pixels area, H-FOV: 126.6° and V-FOV: 70°, virtual Pan&Tilt with no moving part, day light and IR sensitivity.

7 White & IR lights:
Integrated high power-days and IR lights.

NERVA® LG
kit content

1x NERVA® XX Robot
1x Handheld controller
2x Robot batteries
1x Robot charger
1x Controller battery
1x Controller charger
1x Antenna kit
1x User Manual
1x Rugged case

Operational performances

- Endurance: between 2h30 to 4h (depends on the mission)
- Stand-by endurance: 15h (surveillance area without movement)
- Speed: up to 5 km/h
- Weight (with arm & small OCU): < 20 kg
- Obstacle clearance: 20 cm
- Slope: 45°
- Temperature range: -20 °C to + 55 °C
- Digital radio range: up to 500 m
- Lifting capability: up to 4.5 kg
- Towing capability: 20 kg

Chassis

- Rugged
- Waterproof: IP65
- Weight: 12.2 Kg with two batteries
- 2 motorized flippers
- Payload capacity: 15 kg
- Inclinometers & GPS
- Size (cm, with track kit long): 47 (L) x 42 (W) x 18 (H without antenna)
- Microphone & loudspeaker (5 m range)
- Up to 3-mission-module capability, fully compatible with NERVA® LGs payloads
- Front camera:
  • Color/IR & light white + IR
  • H-FOV: 110° and V-FOV: 60°
- Rear camera:
  • Color/IR & light white + IR
  • H-FOV: 100° and V-FOV: 75°
- 2 battery slots (Hot swap)
- Up to 3 PICATINY rails

/ NERVA® XX modularity for multi mission requirement

Whether you need Observation & Detection, Localization & Mapping, Action & Intervention capabilities, NERVA® XX can help you complete your mission with the highest flexibility. Swap your NERVA® payload in five seconds, the NERVA® XX will automatically detect it and operate it properly. It remains fully compatible with NERVA® LG (control stations and payloads).

Thermal imaging

3D-mapping

PTZ camera

Disruptor mount

Dropping charge
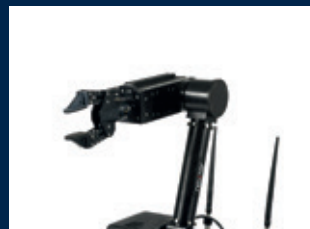

Chemical mount

2D-mapping

Vehicle inspection

Gunshot detection

Manipulator arm

Generic support

Two-way intercom

External battery

Non lethal weapon

We adapt your equipment

KNDS

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