



Rhyno Protect Technical Proposal

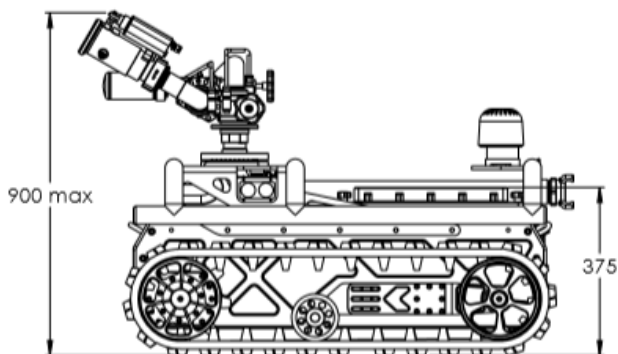
RHYNO PROTECT

UGV providing technical support for security units



Fire Fighting & Operational Support

Fire extinction
reconnaissance and observation with sensors



RHYNO PROTECT

RHYNO PROTECT is a versatile unmanned ground vehicle designed to support troops and firemen in risk areas.

Able to evolve on all types of ground, this robot will assist security men to :

Extinguish fire at distance, gathering information (temperature, gas, CBRN etc.. allow day / night vision with video equipment *.

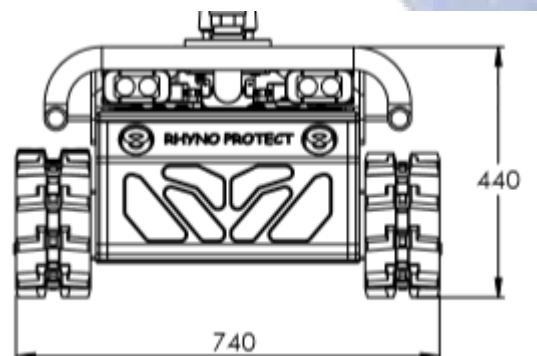
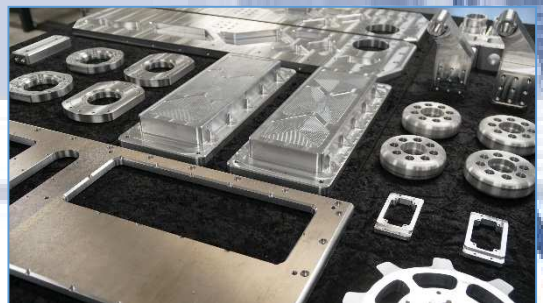
It can easily accommodate many options.

The strengths of RHYNO PROTECT :

- Rapid implementation,
- Outstanding power (2 x 500W),
- Ability to cross and climb stairs,
- Easy to pilot,
- Few and easy maintenance,
- Fully designed, machined and assembled in our workshops,
- Traction capacity 250 kg
- Carrying capacity 200 kg

Designer and manufacturer **SHARK ROBOTICS** will support you for equipment and option selection and equipment training.

*Optional



RHYNO PROTECT

TECHNICAL SPECIFICATIONS

Dimensions : L x l x H : 95x 77,5 x 30 cm

Weight : 160 Kg

Speed : 3.5 km/h

Payload : 200 Kg

Duration : 4h00

Obstruction clearance : 30 cm (Ability to cross)

Slope : 50°

Side Slope : 45°

Watertight and waterproof IP67

Battery : 2 x Batteries 29,8V – 46Ah (hot swap)

Motorization – 2 x 500W

Los (external) : 600 mètres (plus)

Aluminum chassis mechanically welded

Rails Picatinny

Motorized water gun POK 500 / 1000 Liters per minutes

OPTIONS

PC pilot tablet with photography, videos and telemetry functions (temperature, gas, CBRN..)

IP long- distance transmission system relay: 5000 m +

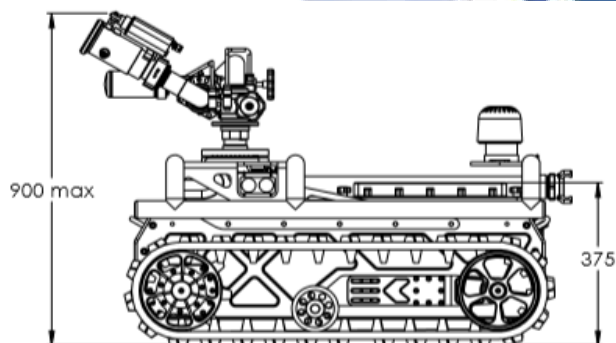
Camera tray

Water canon motorized (1000 Liters / minutes)

Extra Battery

Gas, CBRN, temperature sensors

Transmission cable (200 meters on options)



RHYNO PROTECT

SHARK ROBOTICS propose the hardened NX-SHARK touch pad to remotely control the robot

The hardened NX-SHARK touch pad:

Allows to remote control of the robot with 7 " video on-screen feedback, as well with following functions:

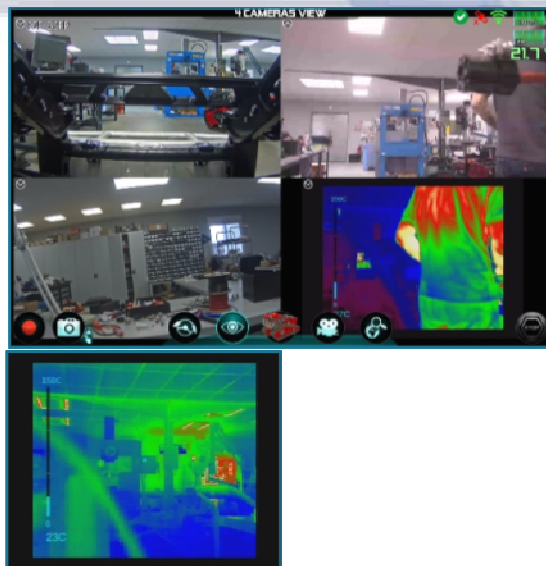
- Taking pictures and videos,
- Telemetry (ambient temperature, engine temperature, GPS position, speed, inclinometers)
- Possibility to connect sensors: CBRN, gas...
- Allows the use of a microphone and a loudspeaker
- thermal camera (FLIR Type)
- High performance 2.4GHz band OFDM
- Integrated mini joystick and touch buttons (on-screen)
- Menu language configurable by the user (English, Turkish..)



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This system integrates a computer into the robot

Transmission control distance : 600 meters



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**Los (external) : 600 mètres (plus)
(depending on the control system)**

Aluminum chassis mechanically welded

Rails Picatinny

Motorized water gun



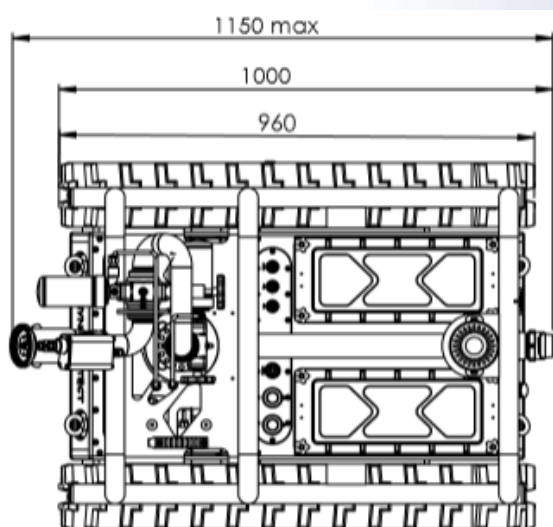
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RHYNO PROTECT

➤ Missions

The RHYNO PROTECT full options allow to intervene on indoor and outdoor missions with full range of capacity

- Robot can be used on every type of fire (Tunnel fire, parking fire, forest fire, industrial and chemical fire..)
- HD Day/Night camera to operate in bad visibility, (thermic camera in option)
- CBRN, Gas and temperature detection



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RHYNO PROTECT

Strong Points compare to competitors

- ✓ Outstanding power : 2 engines of 500W
 - ✓ Traction Capacity : 300 kg
 - ✓ Payload : 200 Kg
- ✓ Autonomy : 4 hours countinous
- ✓ Temperature and gas sensors directly visible on tablet
 - ✓ Speed 3,5 km/h
 - ✓ Ability to climb stairs
- ✓ Facility access to the engines to maintain
- ✓ Replacement of batteries in 30 seconds
- ✓ Replacement of engine in 30 minutes

