

INTERCEPTOR

ST-INTCPT

EOD ROVS



PRODUCT OVERVIEW

The Interceptor is an advanced, reliable and robust medium-sized EOD Robot with applications extending to security, CBRN and X-Ray.

Its IP Mesh Radio system offers excellent performance in complex urban environments. The Interceptor's manipulator arm is one of the strongest in its weight class. All joints are clutch protected to offer maximum protection from falls and crashes, ensuring a long reliable service life.

KEY FEATURES

- 6 Degrees of freedom (DOF).
- Clutch protection on all joints to protect from falls and crashes.
- Kinematic collision avoidance and fly the head control.
- Fully integrated 2-way audio.
- Rear Tool-bay and Tool Changing Gripper.
- HD cameras and multiple feed view (Quad/ PIP).
- Adaptive 4 track drive system for different terrains and stairs.
- User-defined flipper and manipulator programmable pre-sets.
- IP Military Band Mesh Radio Network with optional repeaters.
- Quick Change 12 hr Battery Box with up to 6 x UBI-2590 batteries.

INTUITIVE CONTROL

Multiple Sensor Integration with real-time feedback.

Intuitive Touch-Screen with 3D realtime avatar.



HD CAMERA SPECIFICATIONS

Front Camera Drive: 1280x720P25 Fixed F3.6 Lens

Rear Camera Drive: 1280x720P25 Fixed F3.6 Lens

Turret Camera: 1280x720P25 Fixed F3.6 Lens

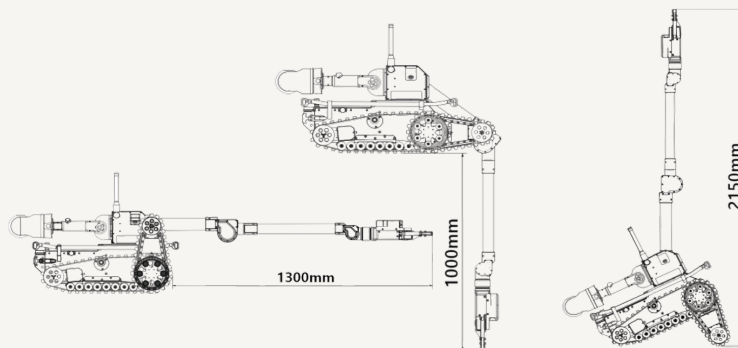
PTZ Primary Zoom Camera: 1920x1280P25 30x Optical Zoom 10x Digital

PTZ Secondary Zoom Camera: Fixed F3.6 Lens

Claw Primary Zoom Camera: 1920x1280P25 30x Optical Zoom 10x Digital

Claw Secondary Zoom Camera: Fixed F3.6 Lens

All cameras have lights with individual low, medium and high power settings.



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TECHNICAL SPECIFICATIONS

Technical Specification

Max Lift: 50kg
Total Payload: 80Kg
Tow / Drag: 150kg
Turning Radius: 750mm
Top Speed: 6 km/h

Vehicle Stow / Operational Dimensions:

Length Flippers Up: 73cm (29")
Length Flippers Down 101 cm (40")
Width: 44.5cm
Height: 44cm

Operational Weight: 85kg
Ground Clearance: 63.5mm (2.5")
Drive: 4-track system

Blast Withstand: 24KN

Operational Temperature: -20C to +55C

Operator Control Unit:

Model: HDOCU
Weight: 16Kg
Operating System: Win 10 IOT
Software: Reamda In-House
Video Screen: 19" TFT
GUI Touch-Screen 10" Getac UX10
Dual Joysticks: Apem 3 Axis
Switches: 7 x Toggle
Battery: UBI-2590
Supply Voltage :
 AC 100-240V, 50-60Hz, 3A Max
 DC 9 - 36V, 8A Max

Radio:

DTC MIMO SOLO8-SDR
Military L-Band MESH
Operational RadioRange LOS: 1Km
Operational RadioRange NLOS: 300m typical

Climbing:

Obstacle: 30cm
Gap: 35cm
Stairs: 45° 8"
Vertical Slope: 45°
Side Slope/Tilt: 30°
Fording depth: 50mm

Run Time:

Minimum 2 Batteries - 5Hrs
Maximum 6 Batteries - 12Hrs

Degrees of freedom (DOF)

Turret: 360°
Shoulder: 189°
Wrist: 300°
Elbow: 270°
Claw Rotate: 360°
Flipper 360°
Gripper Opening: 20cm
Gripper Force: 40Kg

Manipulator Arm Lift

13kg
Front Extended:
Front Retracted: 50kg
Side Extended: 8kg

Payload Ports:

Gripper Tool/Sensor Port
Elbow Sensor Port
Rear Bay Tool / Sensor Port

Collision Avoidance:

Full Model Kinematic Collision
Avoidance on all moving parts

Firing System:

Key activated weapons screen with
self-tests and diagnostic feedback