CENTAUR®

Medium-sized, IOP-compliant robot

APPLICATIONS

- REMOTE MONITORING
- ROUTE CLEARANCE
- CASUALTY EVACUATION
- INSPECTION
- CBRN/ HAZMAT DETECTION
- EXPLOSIVES DETECTION
- RECONNAISSANCE



The Centaur product line supports remote monitoring, debris removal, route clearance, casualty evacuation, inspection, and reconnaissance applications.

Centaur is the solution to the U.S. Army's Man Transportable Robotic System Increment II (MTRS Inc II) program of record.

Based upon field-proven technology, Centaur remotely operated systems are compatible with Chemical, Biological, Radiological and Nuclear (CBRN) and explosives detection payloads for stand-off capability to detect, confirm, and identify hazards like landmines, unexploded ordnance, and improvised explosive devices in the path of maneuvering forces. Centaur can be deployed from a mounted or dismounted location while keeping the operator at a safe distance.

FEATURES

ROBUST PAN-TILT-ZOOM CAMERA

Identifies objects at range in all weather conditions by using its EO/IR camera suite.

SUPERIOR MANIPULATION

Highly dexterous arm with 75.5" reach and 5 degrees of freedom.

HIGHLY MOBILE

Climbs 6 inch obstacles, as well as stairs. Traverses 30° slopes.

EMPLOYS CBRN SENSORS FROM A DISTANCE

With sensor data integrated into the controller display, the robot currently supports multiple sensors.

READY FOR FUTURE EXPANSION

Fully IOP compliant.

SPECIFICATIONS

Product Specifications	
Weight	<164 lbs
Runtime	Up to 8 hours
Mobility - Speed	>2.5 mph
Mobility - Agility	Zero radius turn
Mobility - Slopes	Traverses 30°
Mobility - Obstacles	Climbs up to 6" obstacles
Mobility - Stair Climbing	Up to 43°
Communications	Radio: 800 m Line-Of-Sight (LOS), 150 m Non-Line-Of-Sight (NLOS) Fiber Tether: 200m
Manipulator - Degrees of Freedom	5: Shoulder pitch, shoulder yaw, elbow pitch, wrist pitch, wrist roll
Manipulator - Lift	Lift and carry 32 lb, 15 lb at full extension
Manipulator - Vertical Reach	75.5" above ground
PTZ Camera - Camera Capability	VIS, NIR, and LWIR
PTZ Camera - Pan-Tilt Degrees of Freedom	4: 1 pan, 3 tilt
PTZ Camera - Remote Positioning	5" to 40" above ground
PTZ Camera - Person Detection	300 m in low light and night, 600 m daytime
CBRN	MultiRAE Pro, JCAD, FIDO XT, Radiac and FirstDefender RMX
Controller	MOCU3 with rugged laptop and hand controller
Future Expansion	Fully IOP compliant
Export Regulations	ITAR



AMERICAS

19 Alpha Road
Suite 101
Chelmsford, MA 01824-4237

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