



## **MEDIUM-SIZED, IOP-COMPLIANT ROBOT**

# FLIR Centaur™

FLIR Centaur is the Man Transportable Robotic System Increment II (MTRS Inc II) solution.

Based upon field-proven technology, this remotely operated, medium-sized system provides a standoff capability to detect, confirm, identify and dispose of hazards, like landmines, unexploded ordnance, and improvised explosive devices in the path of maneuvering forces. Centaur is operable from a mounted or dismounted location.

The fully-IOP compliant, open architected robot has a standard chassis and modular mission payloads in support of current and future missions. Centaur supports Engineers, Chemical, Biological, Radiological and Nuclear (CBRN) and EOD Soldiers.

*Centaur is currently only available to the United States DOD.*

### **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 and featuring open architecture software.

### **APPLICATIONS**

ROUTE CLEARANCE

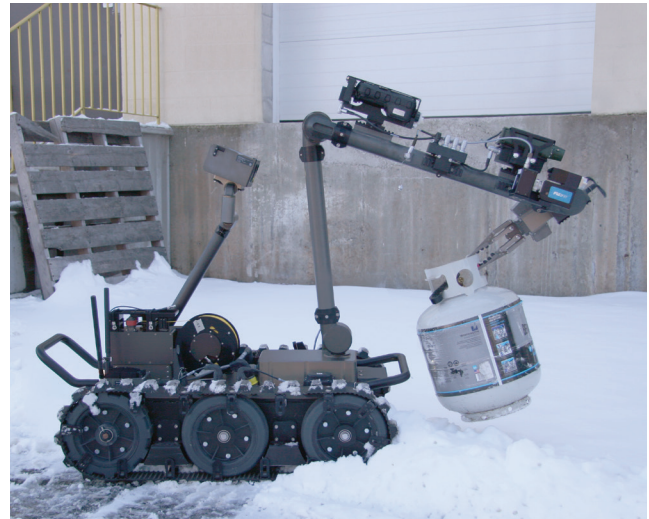
CBRN/ HAZMAT DETECTION

EXPLOSIVE ORDNANCE DISPOSAL (EOD)

## DETAILS

### 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, Open Software Architecture
Export Regulations	ITAR



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19-1479-UIS-Centaur Specs sheet LTR



The World's Sixth Sense®