TELEDYNE FLIR

# 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),<br>150 m Non-Line-Of-Sight (NLOS)<br>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

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