



Sarcos

SARCOS Guardian-S Magnetic Robotic Crawler System

Pine Item #56045

DESCRIPTION:

Premier surveillance and inspection tool, the GuardianS magnetic robotic crawler is uniquely capable, cost-effective, and man-portable, weighing approximately 17 lbs.

FEATURES:

- **Lightweight & Man-Portable:** Easily hand-carried and able to carry a 10lb payload on horizontal surfaces
- **Expansive Navigation:** Low-profile vertical surfaces all-terrain: mud gravel water unstructured terrain and confined spaces as narrow as 7 inches
- **Real-Time Communication:** Transmits two-way video audio and sensor data while the operator stays at a safer standoff distance
- **Cloud Connected:** Command Center provides robot control data gathering analytics and secure communications
- **Simple Remote Controls:** Allows operators to get up to speed quickly and enables safer surveillance and payload deployments
- **Immediate Situational Awareness:** Performs ongoing observation and investigation of dangerous environments to keep its operator out of harm's way
- **Ruggedized All-Terrain Design:** Navigate indoor and outdoor territory complete with 3-D mapping with up to 3 miles of battery capacity



APPLICATIONS:

- Boiler visual inspection - first look leak identification
- Coal Transport Systems
- Coal and Silo Bunkers
- Economizer-Back pass
- Tool and debris retrieval
- Hi energy pipe inspection
- Circulating water piping
- Remote scanning and 3D image capture
- Steam drums
- Steam lines
- Any other 10" + pipe inspection
- Tank & vessel inspections



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www.pine-environmental.com

Canada

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Product Specifications

Dimension	Snake Mode: 52 in. L x 4.7 in. W x 5.2 in. H Tank Mode: 21.7 in. L x 17.4 in. W x 5.2 in. H	
Weight (w/o external radio)	Guardian S: Guardian S Magnetic:	~17 lb ~18 lb
Max Speed (unloaded)	Guardian S: Guardian S Magnetic:	1.4 MPH 0.6 MPH
Max Payload	Guardian S: Guardian S Magnetic:	Horizontal Surface: 10 lb Horizontal Surface: 10 lb
	Guardian S: Guardian S Magnetic:	Vertical Surface: NA Vertical Surface: 5 lb
Operating Temperature	Guardian S: Guardian S Magnetic:	-4 to 140 °F -20 to 60 °C
Ingress Protection	IP65	
Battery Usage	Rated Voltage: 14.4 V Total energy capacity: 147 Wh	
Charging Times	~3 hrs	
I/O	One USB2 (power only)	
Communications	Wireless: Wi-Fi IEEE 802.11ac Options: RF Module (multiple ISM bands: 915 MHz, 2.4 GHz, 4.9 GHz & 5.75 GHz LTE)	
Built-in Sensors*	Variable LED illumination, GPS, Inertial Measurement Unit (IMU) and optional Infrared *Guardian S robot can support/carry customer-sourced, 3rd party sensors via optional payload platform with tripod mount adapter	
Cameras (Images and Videos)	Six (6) 4K color cameras with digital zoom (front view, 2 side views, rear view, upward view, and forward-facing rear navigation) for normal visual range 360-degree coverage Options: FLIR hi-res camera	
Audio	Built-in microphone and speaker to enable two-way audio between the OCU and robot (half duplex PTT)	
Accessories	Two-bay battery charger Options: Payload platform with tripod mount adapter, safety tether, Picatinny rail, six-bay battery charger, hard and soft carrying cases	



Video:
<https://youtu.be/5GJjY-03ISqo>



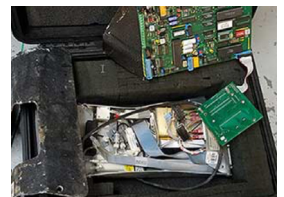
Local Delivery Pick-up



In-Stock Equipment



Repair & Calibration



Rental Protection Plan