

SPOT in Nuclear





Radiation Protection Automated Surveys ALARA Engineering Inspections Decommissioning

Save Time, Save Dose, Save Money



SPOT SUPPORTS ALL ASPECTS OF NUCLEAR POWER GENERATION

- RADIATION PROTECTION
- ALARA
- AUTOMATED SURVEYS
- ENGINEERING
- MAINTENANCE
- INSPECTIONS
- SECURITY
- EMERGENCY PLANNING
- DECOMMISSIONING
- SUBSTATION INPECTIONS



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PERFORM MANUAL & AUTO-WALK MISSIONS IN HAZARDOUS AREAS

Boston Dynamics' robot, Spot[®] is now available from RADECO. In addition to the standard commercially available payload options, RADECO will configure, mount and integrate a variety of Mirion Technologies detectors and RADECO Air samplers onto the robot. We are offering a fully customizable universal plug and play detection payload package.

Other industry specific accessories Boston Dynamics' robot, Spot[®] is now available from RADĒCO. In addition to the standard commercially available payload options, RADECO will configure, mount and integrate a variety of Mirion Technologies detectors and RADĒCO Air samplers onto the robot. We are offering a fully customizable universal plug and play detection payload package. Other industry specific accessories

FLEXIBLE DETCTION PAYLOADS

RADECO AIR SAMPLERS, MIRION TECHNOLOGIES DETECTORS

- SPIR EXPLORER, SPIR ACE
- RES-31, SG-2R PROBE, SN-D-2 NEUTRON MODERATOR
- RGU-100
- AcuRad PRD
- RAD-PRO 10 PERSONAL AIR SAMPLER, IODINE AND/OR PARTICULATES



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CUSTOM SOLUTIONS

PLUG AND PLAY VERSATILITY FOR ENDLESS COMBNIATIONS OF PAYLOADS

ENHANCED INSPECTIONS



+ CAM is a PTZ 30x zoom camera for enhance inspections

ENHANCED AUTONOMY



+ LIDAR enhances the accuracy and range of the autonomy at large sites



SPIR Mobile Software from Mirion Technologies

Visual Your Payload Data

During outdoor applications, operators can visualize their spectroscopic data on the SPIR Mobile software.

For local onsite applications, SPOT can stream the RDS WRM protocol onto an AWM, Teleview 3000 or the plant's own RMS system.

ACCESSORIZE YOUR SPOT

- + CAM PTZ 30X ZOOM CAMERA
- + LIDAR
- Work Rack: Hot swap batteries, payloads & survey the feet for contamination
- Custom Skin options
- Trimble Lidar



Spot work rack

SPECIFICATIONS

DIMENSIONS

Length = 1100 mm (43.3 in) Width = 500 mm (19.7 in) Height (standing) = 840 mm (33.1 in) Height (sitting) = 191 mm (7.5 in) Net weight = 32.5 kg (71.7 lbs)

BATTERY

Battery capacity = 605 Wh Average runtime (no payload) = 90 mins Standby time = 180 mins Recharge time = 120 mins Weight = 4.2 kg (9.3 lbs)

BATTERY CHARGER

Input voltage = 100-240VAC 50/60Hz 5.5A Max Output = 35-58.6 VDC 7.2A Max Operating temperature = 0 to 40°C

CONNECTIVITY

WiFi 2.4Ghz b/g/n Gigabit Ethernet

ENVIRONMENT

Ingress protection = IP54 Operating temperature = -20 to 45°C

TERRAIN SENSING

Horizontal field of view = 360° Range = 4 m (13 ft) Lighting = > 2 Lux Collision avoidance = maintains set

LOCOMOTION

Max speed = 1.6 m/sMax slope = $\pm 30^{\circ}$ Max step height = 300 mm (11.8 in)

PAYLOADS

Max weight = 14 kg total (30.9 lbs) Mounting area = 850 mm (L) x 240 mm (W) x 270m m (H) Mounting interface = M5 T-slot rails Connector = DB25 (2 ports) Power supply = Unregulated DC 35-58.8V, 150W per port Integration = Available software API and hardware interface control documentation

POWER CASE SPECIFICATIONS

Length = 559 mm (22 in) Width = 432 mm (17 in) Height = 267 mm (10.5 in) Net weight (one battery) = 18.1 kg (40 lbs) Net weight (two batteries) = 22.7 kg (50 lbs)

CONTROLLER SPECIFICATIONS

Height = 143.6 mm (5.7 in) Width = 274 mm (10.8 in) Depth = 53 mm (2.1 in) Weight = 580 g (1.3 lbs) Touch Screen Size = 7" diagonal Resolution = 1920x1200

SAFETY AND COMPLIANCE (US)

- Designed according to ISO 12100 for risk assessment and reduction methodology and IEC 60204-1 for electrical safety. See User Guide for further details on intended uses
- EMC: FCC Part 15A
- Radio equipment: Incorporates a FCC Part 68 Certified radio system Laser product = Class 1 eye-safe per IEC 60825-1:2007 & 2014

Spot is a versatile quadruped robot that can climbs stairs and traverses rough terrain with unprecedented ease, yet is small enough to use indoors. An extremely rugged and customizable platform, Spot has an industry track record in remote operation and autonomous sensing. Spot is the Future of Nuclear.

Contact Sales today to schedule an onsite or virtual Tele-Op demo:

Email: info@radecoinc.com

Tel: 860-564-1220



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RADēCO Inc.

Headquarters: 17 West Pkwy Plainfield, CT 06374 Tel: 860-884-1220

Unmanned Systems Division

8604 Old Ferry Rd Monroe, NC 28110

Website: www.radecoinc.com

Email: info@radecoinc.com