

Spot helps reduce risk in potentially dangerous scenarios, enabling first responders to safely assess and de-escalate tense or hazardous situations.

Agile

Spot's athletic intelligence makes it easier to operate than tracked and wheeled robots. Within moments, operators can quickly drive Spot up and down stairs, over unstructured terrain, and more.

Dextrous

With Spot Arm, operators can pick up objects and open doors with ease. Issuing high level commands via tablet actions, users can be up and running with very little training.

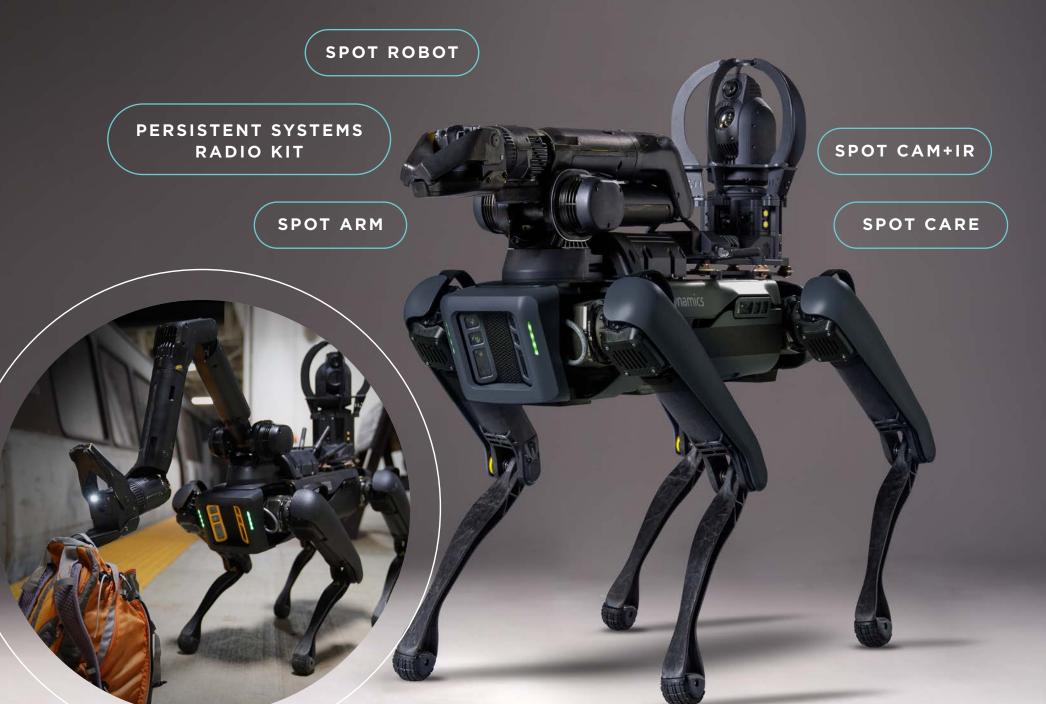
Customizable

In addition to the payloads included in this bundle, our network of partners have created an ecosystem of enhanced capabilities for Spot, including a variety of mission-applicable chemical, biological, and radiological sensors.





SPOT® THE AGILE, MOBILE ROBOT



SPOT ARM

Equipped to operate through both semi-autonomous actions and telemanipulation, the arm will open doors, pick, place, push, or drag objects, and adapt to new situations at the push of a button or swipe of a screen.

Features:

- 6 degrees of freedom plus a gripper
- Semi-automated manipulation options
- Carries up to 11kg (24 lbs)

SPOT CAM+IR

The Spot CAM+IR payload turns Spot into a powerful inspection tool with purpose-built cameras. 30x optical zoom allows you to see details at a distance, and an integrated thermal camera helps to detect hot spots and more in low light situations.

Features:

- Integrated radiometric thermal camera
- Spherical camera (360 x 170" view)
- Pan-tilt-zoom (PTZ) camera with 30x optical zoom

PERSISTENT SYSTEMS RADIO KIT

The Persistent Systems
MPU5 Radio Kit enables
point to point communications
between Spot and its
operator, so you can deploy
Spot quickly and easily
through a secure network
with no infrastructure
required.

Features:

- (w) Creates a powerful, secure network anywhere
- Able to mesh if a wider network is needed
- 2.4 Radios support 2.4 GHz

SPOT CARE

One year of premium service and support to keep your robot up and running at peak performance.

Features:

- Free damage protection*
- Part replacement
- Quick repair turnaround

*Improper use of Spot is not covered under Spot Care. See our <u>Spot Care</u> <u>Terms and Conditions</u> to see what constitutes improper use.

THE SPOT® ROBOT SPECIFICATIONS

Government & Public Safety Kit

DIMENSIONS WITH PAYLOADS

Lenath

1100 mm (43.3 in)

Width

500 mm (19.7 in)

Height (Sitting) 618 mm (24.3 in)

Default Height

(Walking) 1037 mm (40.8 in)

Max Height (Walking) 1127 mm (44.4 in)

Min Height (Walking) 947 mm (37.3 in)

Net Mass/Weight 50.5 kg (111.3 lbs)

LOCOMOTION

Max Speed

1.6 m/s

Max Slope

±30°

Max Step Height

300 mm (11.8 in)

TERRAIN SENSING

Horizontal Field of View

360°

Range

4 m (13 ft)

Lighting

> 2 Lux

Collision avoidance

maintains set distance from stationary obstacles

CONNECTIVITY

WiFi

2.4GHz / 5GHz b/g/n Ethernet

ENVIRONMENT

Ingress Protection IP54

Operating Temp.

-20°C to 55°C

BATTERY

Battery Capacity

564 Wh

Average Runtime

90 mins

Standby Time

180 mins

BATTERY (continued)

Recharge Time

60 mins

Lenath

324 mm (12.8 in)

Width

168 mm (6.6 in)

Height

93 mm (3.7 in)

Mass/Weight

5.2 kg (11.5 lbs)

CHARGER

Input Voltage

100-240VAC, 50/60Hz 8A Max

Output

35-58.2 VDC. 12A Max

Length

380 mm (15.0 in)

Width

315 mm (12.4 in)

Height

178 mm (7.0 in)

Mass/Weight

7.5 kg (16.5 lbs)

Operating Temp.

0°C to 45°C



TABLET WITH JOYSTICKS

Height

138 mm (5.4 in)

Width

286 mm (11.3 in)

Depth

56 mm (2.2 in)

Weight

546 g (1.2 lbs)

Touch Screen Size

8" diagonal

Interface Controls

2x Joysticks, 2x 5-direction buttons, and 2x bumper buttons

Resolution

1920x1200

Battery Life

Up to 5 hours

Ingress Protection

Rain and dust resistant

SAFETY AND COMPLIANCE, UNITED STATES

Designed according to ISO 12100 for risk assessment and reduction methodology and IEC 60204-1 for electrical safety. See Information for Use for further details on intended uses.

EMC: FCC Part 15B Radio

equipment: Incorporates a FCC Part 68 Certified radio system

Laser product

Class 1 eye-safe per IEC 60825-1:2007 & 2014

SPOT ARM

Degrees of Freedom

6 + gripper

Length (at full extension) 984 mm (38.7 in)

Max. Endpoint Speed 10 m/s

Max. Lift Capacity**
Up to 11 kg (24.3 lbs)

Continuous Lift Capacity**

(at 0.5 m extension) 5 kg (11 lbs)

Max. Drag Capacity**

(on carpet) Up to 25 kg (55.1 lbs)

Max. Reach Height

1800 mm (70.9 in)

GRIPPER

Depth

90 mm (3.5 in)

Max Aperture

175 mm (6.9 in)

Peak Clamp Force

(at tip of opening) 130 N

Integrated Sensors

Accessory Port, ToF, IMU, 4K RGB, Gigabit Ethernet, 50W power, camera sync (PPS)

**Payload capacities measured at 22°C

SPOT CAM+IR

360° CAMERA

Field of View (FoV) 360 × 170°

Video Frame Rate

Variable*

Video Storage

No

Video Streaming

Yes

Resolution

10 MP

File Size

31.1 MB

Still Image Format

PPM (Portable Pixel Map)

PTZ CAMERA

Resolution

2MP, 1080p video

Optical Zoom

30x

Pointing Accuracy

2 degrees

Range of Motion

170°/sec

Tilt Range

-30 to 270°

IR CAMERA

Scene Temp. Range

(High Gain) -40°C to +160°C

(Low Gain) -40°C to +550°C

Video Speed

7.5 Hz

FoV

69 x 56°

Image Resolution

640 x 512

Accuracy

Radiometric ±5°C

PERSISTENT SYSTEMS RADIO KIT

OPERATOR RADIO

Length

(with antennas and battery) 390 mm (15.4 in)

Length (without antennas and battery) 140 mm (5.5 in)

Width

70 mm (2.8 in)

Depth

40 mm (1.6 in)

Total Mass/Weight

(with antennas and battery) 1.1 kg (2.4 lbs)

Mounting

Belt clip

RADIO TRANSMISSION DETAILS

Model

Persistent Systems MPU5 RF-2150

Frequency Range

2412 - 2462 MHz

RF Modulation

OFDM (64QAM, 16QAM, QPSK, BPSK)

Antenna Chains

3 Independent RF Chains

TX/RX Operating Modes

All MIMO modes from SISO to 3x3

Channel Bandwidth

5, 10, and 20 MHz

Peak TCP Throughput

150 Mbps at 20 MHz Channel

Configured Transmit Power

955W

ENVIRONMENT

IP Rating

IP68

Storage Temperature

-40°C to 70°C

Operating Temperature

-20°C to 45°C



GET STARTED WITH SPOT TODAY.

Contact our sales team to learn more about how you can implement the robot on your team: www.bostondynamics.com/spot-sales

Visit our website at:

www.bostondynamics.com

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