

# Spot

## Transformative Mobility

Automate sensing and inspection, capture limitless data, and explore without boundaries.

## Operate with Ease

Spot's vision system makes it easy to navigate around objects and over rough terrain. Control the robot from afar using an intuitive tablet application and built-in stereo cameras. Spot can also be teleoperated via Scout desktop software.

## Automate Data Collection

Program repeatable autonomous missions to gather consistent data. Flexible autonomy allows Spot to adjust to changes on its programmed path as desired. Missions can be launched from the Spot Dock for remote operations.

## Customize for Your Needs

Spot can carry up to 14 kg (30 lbs) of sensing equipment. Our diverse payload ecosystem is ready for a variety of applications, from thermal and acoustic inspections to laser scanning and site progress monitoring.

## Learn with Training and Support

We make it easy to get started with Spot. Our Support Center features a comprehensive collection of knowledge articles and discussion groups, product training options are available, and in addition to our one-year limited warranty, we offer premium service and support through a Spot CARE subscription.

[www.bostondynamics.com/products/spot](http://www.bostondynamics.com/products/spot)

## Features

-  14 kg (30 lbs) Payload Limit
-  90-Minute Run time
-  Object Avoidance
-  Stair & Complex Terrain Navigation
-  Manual & Autonomous Operation
-  IP54 Rated
-  Flexible API and Python SDK
-  Premium Service and Support

## Industries



### Manufacturing

Set Spot up to do autonomous inspection rounds or use the robot to create digital twins of a plant in advance of rework.



### Construction

Inspect progress on construction sites, create digital twins, and compare as-built conditions to Building Information Modeling (BIM) autonomously with Spot.



### Power & Utilities

Create autonomous routes or drive the robot to remotely perform inspections in electrified or radiation dense areas.



### Mining

Create routine tunnel inspection routes and attach additional payloads to take measurements and ensure safe working conditions.



### Oil and Gas

Create autonomous routes or drive the robot to remotely inspect facilities and improve site awareness of plant operations.



### Public Safety

Drive Spot remotely to get eyes on dangerous situations and inspect hazardous packages from afar.

BostonDynamics



## ENTERPRISE ROBOT SPECIFICATIONS

### BASE SPOT 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 Mass/Weight	33.5 kg (73.9 lbs)

### BATTERY

Capacity	605 Wh
Average Runtime	90 minutes
Standby Time	180 minutes
Recharge Time	120 minutes
Mass/Weight	5.2 kg (11.5 lbs)

### CHARGER

Input Voltage	100-240VAC 50/60Hz
	5.5A Max
Output	35-58.6 VDC
	7.2A Max
Operating Temp.	0 to 40°C

### CONNECTIVITY

WiFi	2.4Ghz b/g/n
	Dual band 802.11ac*
Gigabit Ethernet	

## CASE SPECIFICATIONS

### ROBOT CASE

Length	927 mm (36.5 in)
Width	546 mm (21.5 in)
Height	464 mm (18.25 in)
Net Mass/Weight	47.6 kg (105 lbs)

### POWER CASE

Length	559 mm (22 in)
Width	432 mm (17 in)
Height	464 mm (18.25 in)
Net Mass/Weight (two batteries)	24.7 kg (54.5 lbs)

## 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 15A
- Radio equipment: Incorporates a FCC Part 68 Certified radio system
- Laser product = Class 1 eye-safe per IEC 60825-1:2007 & 2014

\*Availability dependent on region

### ENVIRONMENT

Ingress Protection	IP54
Operating Temp	-20 to 45°C

### TERRAIN SENSING

Horizontal Field of View	360°
Range	4 m (13 ft)
Lighting	> 2 Lux
Collision Avoidance	Maintains set distance from stationary obstacles

### LOCOMOTION

Max Speed	1.6 m/s
Max Slope	±30°
Max Step Height	300 mm (11.8 in)

## PAYLOAD SPECIFICATIONS

### GENERAL

Max Weight	14 kg (30.9 lbs)
Mounting Area	850 mm (L) x 240 mm (W) x 270 mm (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 document

## CONTROLLER SPECIFICATIONS

### GENERAL

Height	144 mm (5.7 in)
Width	274 mm (10.8 in)
Depth	53 mm (2.1 in)
Mass/Weight	580 g (1.3 lbs)
Touch Screen Size	7" diagonal
Resolution	1920x1200