

Transformative Mobility

BostonDyna

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

Operate with Ease

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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 Orbit[™] 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.

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.

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



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.



Boston Dynamics

Public Safety

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



Specifications

Base Robot

DIMENSIONS Length = 1100 mm (43.3 in) Width = 500 mm (19.7 in) Height (Sitting) = 191 mm (7.5 in) Default Height (Walking) = 610 mm (24.0 in) Max Height (Walking) = 700 mm (27.6 in) Min Height (Walking) = 520 mm (20.5 in) Net Mass/Weight (Spot with battery) = 32.7 kg (72.1 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

AUDIO & VISUAL SIGNALS Pre-configured behaviors for manual and autonomous operations **LED Brightness** = Adjustable up to 1010 Lux **Max Projection Distance** = 1.8 m in front of robot **Buzzer Volume** = Adjustable up to 110 dB at 1 m distance from robot

ENVIRONMENT Ingress Protection = IP54 Operating Temp. = -20°C* to 55°C

* Robot must be powered on at a minimum temperature of 0° C.

Travel Cases

ROBOT CASE Includes robot and tablet 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)

Payload Mounting

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 CASE

Includes two batteries and charger Length = 810 mm (32 in) Width = 530 mm (21 in) Height = 300 mm (12 in) Net Mass/Weight = 28 kg (61 lbs)

Power Supply = Unregulated DC 35-58.8V, 150W per port **Integration** = Available software API and hardware interface control document

Spot Dock

DIMENSIONS Length = 1140 mm (44.9 in) Width = 414 mm (16.3 in) Height = 403 mm (15.9 in) Mass/Weight = 22.9 kg (50.5 lbs) POWER Input = 90-277 VAC Output = 58V at 12A Charge Time = 2-3.5 hours**

**Charge time varies based on table below

Ambient Temp.	80% charge	100% charge
25°C	50 min	2 hrs
35°C	2.5 hrs	3.5 hrs

ENVIRONMENT Operating Temp. = 0°C to 35°C

Lighting = Ambient light required Mounting = Bolt/tie down locations provided CONNECTIVITY Gigabit Ethernet passthrough to robot

CERTIFICATIONS cTUVus Certified to UL 1564 and CSA C22.2 No. 107.2

Safety and Compliance, United States

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

Emergency Stop meets ISO 13850

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

Updated: 05/22/2024

Battery

Battery Capacity = 564 Wh Average Runtime* = 90 mins Standby Time = 180 mins Recharge Time = 60 mins Length = 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)

*Runtime may vary depending on payloads and environmental factors

Charger

Input Voltage = 100-240VAC 50/60Hz 8A Max Output = 35-58.2 VDC, 12A Max Length = 380 mm (15.0 in)

Tablet

Height = 127 mm (5.0 in) Width = 214 mm (8.4 in) Depth = 10 mm (0.4 in) Weight = 426 g (0.9 lbs) Touch Screen Size = 8" diagonal **Resolution** = 1920x1200 **Ingress Protection** = IP65

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

Joystick add-on available

Contact

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