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.

Transformative Mobility

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.

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

www.bostondynamics.com/products/spot
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) = 31.7 kg (69.9 lbs)

TERSAIN
Horizontal Field of View = 360°
Range = 4 m (13 ft)
Lighting = > 2 Lux
Collision avoidance = maintains set distance from stationary obstacles

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

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)

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
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
Joystick Add-on available for Spot Arm

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)

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 (two batteries) = 28kg (61 lbs)

Payload Mounting
Max Weight = 14 kg (30.9 lbs)
Mounting Area = 850 mm (L) x 240 mm (W) x 270 mm (H)
Connecting 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

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

ENVIRONMENT
Operating Temp. = 0°C to 35°C
Lighting = Ambient light required
Mounting = Bolt/tie down locations provided

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 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

Contact
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www.bostondynamics.com/products/spot

Boston Dynamics