Boston Dynamics

Spot Cam 2 Instructions for Use

Safety and operations Manual

Version 5.1 Original Instructions
January 2026

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Boston Dynamics Support Center homepage: https://support.bostondynamics.com

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1. Introduction

1.1. About this document

This document contains critical safety information for the operation and use of Spot Cam 2 and the Spot robot.

Responsible use of Spot and Spot Cam 2 is crucial to prevent dangerous conditions for those in close proximity to the equipment. Read, understand, and comply with this document before initial use of Spot and Spot Cam 2 to decrease the risk of injuries or damage to yourself, the Spot robot, Spot Cam 2, or other property.

Keep a copy of this document in a readily accessible location. Complete user and developer documentation on the Spot robot platform, including a digital version of this document, is available online in the Boston Dynamics Support Center: https://support.bostondynamics.com/s/spot

This document is valid for the following designations of Spot Cam 2 and the Spot Robot:

Spot Cam 2 hardware model (P/N):	03-004899-001
Robot hardware model (P/N):	04-00143531-001 04-00143531-101 04-00143531-401 04-00143531-501 04-00143531-601 04-00143531-611 04-00143531-701 04-00143531-711
Robot and Spot Cam software:	5.1

1.2. Manufacturer information

Spot Cam 2 is manufactured by:

Boston Dynamics, Inc.
200 Smith St.
Waltham, MA 02451
USA

+1 617-868-5600

1.3. Key terminology

Term	Definition	
Spot	A legged robot capable of mobility on a variety of terrains. Spot uses multiple sensors and three motors in each leg to navigate in indoor and outdoor environments, maintain balance and attain postures. Spot is capable of carrying and powering attachments.	
Operator	Any person trained and authorized to manually operate, repair, handle, or supervise the automatic operation of Spot. This definition corresponds to the terms “Qualified person” and “Authorized person” as defined in ISO/TR 22053:2021, Clause 3.4.	
Bystander	Any person who can be reasonably expected to be near Spot, but is not an operator. This definition corresponds to the term “Affected person” as defined in ANSI B11.0-2020, Clause 3.4.	
Task	An activity performed by a person, including manual operation of Spot.	
Operation	An activity performed by Spot, whether as a result of manual or automatic operation.	
Mission	A set of instructions and map data that allows Spot to navigate automatically along a known route while performing data capture actions and other operations. The features that allow Spot to record and replay missions are collectively called “Autowalk”.	
Action	A predefined operation that can be performed during a mission. The Spot software includes several preset Actions, such as capturing images from robot cameras and docking with a Spot Dock. Custom Actions can be created using Spot’s software development tools.	
Attachment	Any device or piece of hardware that is affixed to Spot to enhance or expand Spot’s functionality. Attachments for Spot are commonly called “payloads”.	
Fiducials		Specially designed images similar to QR codes that Spot uses to match its internal map to the world around it. Fiducials are required at the beginning of every mission. Spot recognizes AprilTag fiducials that meet the following requirements: • AprilTags in the Tag36h11 set. • The default Image size: 146 mm square. • Printed on white non-glossy U.S. letter-size sheets (preferably rigid).

1.3.1. Legend of Hazard Labels

DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

Indicates information considered important, but not hazard related.

REQUIRED READING

Indicates a mandatory reading of Instructions for Use or other safety-related documentation.

1.4. About Spot Cam 2

Major components of Spot Cam 2.

Spot Cam 2 is a compact multisensor attachment for the Spot quadruped robot. It includes optical and thermal cameras, and dual microphones. It is capable of pan-tilt-zoom (PTZ) movement to aim sensors at the surrounding environment.

Spot Cam 2 is compatible with several additional optional sensor attachments that integrate directly with Spot Cam 2 itself. Spot Cam 2 can also be integrated with Spot alongside other Spot attachments, including Spot Arm.

REQUIRED READING

Before setting up or using Spot Cam 2 with a Spot robot, review *Spot Instructions for Use*, available in the Boston Dynamics Support Center at https://support.bostondynamics.com/s/spot/product-safety

1.4.1. Specifications

Specification	Value
Length	22 cm
Width	25 cm
Height (stowed)	27 cm (33 cm with riser)
Maximum height	41 cm (47 cm with riser)
Mass of payload	8.9 kg (9.5 kg with riser)
Panoramic field of view	360° x 135°
Panoramic camera dimensions	3000 x 1500 px
PTZ horizontal field of view	58.1° (wide) to 2.3° (tele)
PTZ camera sensor size	f = 6.5 mm (wide) to 162.5 mm (tele), F1.6 to F4.8
PTZ pan speed	360°/s
Pan range	360° continuous rotation
PTZ/IR tilt range	-30° to 90°
Accessory bay tilt range	-90° to 90°
PTZ camera resolution	4k
PTZ camera zoom	25x
Scene dynamic range	Up to 500°C (low gain)
IR video speed	9hz
IR horizontal field of vision	50°
IR image resolution	640 x 480 px
IR accuracy	Radiometric ±5°C or less, depending on operating conditions
NETD	60 mK
Audio input	2 microphones mixed to single channel
Ingress protection	IP67
Operating temperature	-20°C to 55°C

Specification	Value
Storage	NVME SSD 480GB
Accessory port data and power	Ethernet + 48V bus
Streaming	1080p over WebRTC (RTSP coming)

1.4.2. Sensors

Spot Cam 2's built-in sensors include the panoramic cameras, PTZ and thermal cameras, and microphone.

1.4.2.1. Panoramic Cameras

The panoramic cameras are an array of 5 visual sensors on the sides and top of the tilt housing. Images from these cameras are stitched together to provide 360-degree situational awareness and capture panoramic images of the robot's surroundings. The stitched image automatically compensates for pan and tilt as the unit rotates, with coverage gaps filled by previously collected images.

1.4.2.2. PTZ Camera

The PTZ (pan-tilt-zoom) camera is located at the front of the tilt housing.

1.4.2.3. Thermal Camera

The thermal camera is located at the front of the tilt housing.

1.4.2.4. Microphone

There are two microphones, located on the left and right sides of the tilt housing. Audio from both microphones is mixed down to a single channel.

1.4.3. LED Lights

There are 8 LED lights located in pairs below the tilt housing on all four sides of the unit. The brightness of the lights is adjustable up to 75 lumens per LED.

These lights will illuminate automatically for several seconds at maximum brightness when the robot is booting up.

1.4.4. Accessory Bay

Spot Cam 2 has an accessory bay for attaching additional sensors (not included). The bay provides pass-through power and data, and enables the attached sensor to be aimed in any direction around, above, or slightly below the robot.

1.4.5. Status Light

The status light on the rear face of the tilt housing illuminates when Spot Cam 2 is powered on. The color indicates Spot Cam's status.

- Blue – Booting up
- Green – Software running, motors off
- Red – Software running, motors on

2. Product Safety Overview

2.1. General Principles

Spot Cam 2 is an aimable sensor suite for capturing optical, infrared, acoustic, and other types of data from the surrounding environment. It has two axes of movement:

- Pan – Rotates the entire unit at the base around a vertical axis.
- Tilt – Rotates the tilt housing (upper section) around a horizontal axis.

Spot Cam 2 attaches to a Spot robot and shares a controller with Spot. It can be operated manually or automatically.

2.2. Intended Use

Spot Cam 2 is intended for use as a sensor suite that expands the Spot robot's ability to capture images and other data of its operating environment.

Spot Cam 2 attaches directly to Spot and is intended for use in the same environments as Spot.

REQUIRED READING

For an overview of the generic environmental conditions specified for Spot, review *Spot Instructions for Use* in the Boston Dynamics Support Center at https://support.bostondynamics.com/s/spot/product-safety

Spot Cam 2 must only be used with compatible models of Spot, and only by properly trained Spot operators.

Explicitly prohibited uses include:

- Underwater and airborne applications.
- Use as a weapon or to enable any weapon.
- Any use as – or enabling the use of – a Certified Medical Device. Access and operation in healthcare facilities subject to limitations.
- Use in personal care, medical treatment, or life-critical applications.
- Use in home environments.
- Intentionally harming any person with Spot Cam 2 or an accessory attached to Spot Cam 2.
- Use for any illegal purpose.

2.3. Modes of Operation

Spot and Spot Cam 2 share the same controller. Spot Cam 2 is always operated in the same mode as Spot.

- Manual: Direct control of Spot and Spot Cam 2 by displaying images from the robot's cameras on a remote controller. Manual mode is also used when recording Autowalk missions.
- Automatic: Spot and Spot Cam 2 operate automatically to replay an Autowalk mission.

REQUIRED READING

For details on Spot's modes of operation, review *Spot Instructions for Use* in the Boston Dynamics Support Center at https://support.bostondynamics.com/s/spot/product-safety

2.4. Operational Stop

Spot Cam 2 shares a controller with Spot. Any policy or command that would stop or de-energize Spot will simultaneously stop or de-energize Spot Cam 2.

2.5. Camera Motion

Spot Cam 2 motion.

When aiming cameras or sensors, Spot Cam 2 rotates continuously around a vertical axis at the base of the unit.

The upper section, which houses the sensors, tilts from 0 degrees to 210 degrees around a horizontal axis.

CAUTION

When Spot Cam 2 is installed on a robot with Spot Arm or any other mobile payload, collisions between payloads are possible. To avoid collisions, do not command the payloads to move simultaneously.

2.5.1. Stowed Position

Spot Cam 2 in the stowed position.

When Spot Cam 2 is stowed, the tilt housing is closed and the unit is rotated so the main cameras point toward the front of the robot. This position provides the best protection for cameras and sensors in case of falls or collisions.

2.5.2. Automatic Flip to Tilt Down

Spot Cam 2 in the tilt-down position.

When Spot Cam 2 is commanded to aim its main cameras below the horizon, it will perform an automatic pan-and-tilt motion that rotates the unit 180 degrees and flips the tilt housing open upside down. This allows the sensors to continue tilting up to 30 degrees below the horizon.

Spot Cam 2 will then perform the same motion in reverse if commanded to stow or to aim sensors above the horizon.

2.6. Pinch Points

Spot Cam 2 spins and rotates and there are potential pinch points and crush hazards associated with this motion.

Spot Cam 2 pinch points and crush hazards.

In normal operation, users are required to stay at least 2 meters away from Spot. At that distance there is no exposure to risks associated with Spot Cam 2.

It may be necessary to approach or handle the robot to turn it off or troubleshoot an issue during operation. If manual interaction with Spot Cam 2 is necessary, keep appendages, hair, clothing and jewelry away from the areas of Spot Cam 2 where potential hazards exist.

The following warning symbols are located on Spot Cam 2 to identify potential hazards:

Pinch points are present.

Crush hazard is possible.

2.7. Bright Lights

There is no significant risk associated with Spot Cam 2's LED lights. However, users with sensitive eyes should avoid prolonged exposure to the lights, as it may cause discomfort.

3. Transport, Handling, and Storage

3.1. Transport

Spot Cam 2 is transported in a padded heavy-duty cardboard box. This box should be saved and reused to store or ship Spot Cam 2.

Spot Cam 2 can be shipped via standard air and ground freight.

Shipping case dimensions:

- Length – 36 cm
- Width – 36 cm
- Height – 42 cm
- Empty case weight – 2 kg
- Combined weight (case and payload) – 11.5 kg

3.2. Safe Handling

During and after installation on Spot, Spot Cam 2 should be handled only when the robot is powered off. When Spot Cam 2 is unpowered, there is resistance in the joints from backdrive torque but the joints can move freely by hand or under gravity.

When lifting Spot Cam 2, always grip the unit from the sides. Gripping the front or back can cause the tilt housing to open and expose fingers to pinch points.

Lifting Spot Cam 2.

CAUTION

Always keep appendages, hair, clothing and jewelry away from areas where pinch points or crush hazards are marked.

4. Set Up Spot Cam 2

4.1. Before Setting Up Spot Cam 2

Spot Cam 2 must be installed only on compatible Spot robots running software version 5.0.1 or later. If necessary, upgrade Spot's software before setting up Spot Cam 2. Spot must be powered off during installation.

Collect the following tools and materials:

In the box:

- Spot Cam 2 payload
- Payload cable
- 2 x payload rail guides
- 4 x T-slot nuts (includes extras)

Shipped separately:

- Rear-mount riser (includes 2 x riser payload rail guides and additional T-slot nuts)

Tools needed:

- Phillips screwdriver
- 2 mm hex key
- 4 mm hex key

4.2. Attach Additional Sensors

Additional sensors can be attached before or after installing Spot Cam 2 on a robot.

Sensors attach to the accessory bay on the underside of the tilt housing. Installation requires removing and reinstalling the Spot Cam 2 crash protection.

Refer to documentation for each accessory for detailed instructions.

4.3. Mount and Configure Spot Cam 2

Spot Cam 2 must be physically attached to the robot, and then configured for use in the robot's software settings. Always follow safe handling guidance as described in Safe Handling.

4.3.1. Mounting Positions

Spot Cam 2 can be mounted on the front or rear of Spot. For rear-mounted installation, an optional riser can be added to improve line-of-sight over additional payloads mounted on the front of the robot.

Spot Cam 2 mounted directly to the robot in the front position.

Spot Cam 2 mounted with a riser in the rear position.

4.3.1.1. Attach Spot Cam 2 to Spot (Front Mount)

In the front mounting position, Spot Cam 2 attaches directly to the robot's mounting rails.

Prepare robot

1. Using a Phillips screwdriver, loosen the two screws in Spot's front payload port cap, and then remove the cap. Store the cap in a safe location.
2. Insert 1 T-slot nut into each of the included payload rail guides, aligning the threaded hole in the nut to the large hole in the guide. Use a 2 mm hex wrench to loosen the set screw in each T-slot nut so it does not protrude through the bottom of the guide.

3. Slide the payload rail guides into mounting rails until fully seated. The flared ends of the guides are angled to match the left or right mounting rail.

4. Using a 4 mm hex wrench, remove the 2 forwardmost screws from the Spot robot's top plate. Store the screws in a safe location.

Prepare Spot Cam 2

- Align the red dot on the round end of the included payload cable with the corresponding red dot on the port on the bottom of Spot Cam 2's base plate. Push firmly to attach the cable. You should feel a click when the cable is fully attached.

Attach Spot Cam 2

1. Position Spot Cam 2 so that the included screws in the narrow part of the base slide into the holes in the front of the robot. The screws in the wide part of the base should align with the T-slot nuts in the mounting rails.

2. Using a 4 mm hex wrench, tighten all four screws. Raise the tilt housing and rotate Spot Cam 2 around its base to create clearance to access each screw.

3. Attach the payload cable to Spot's front payload port, and then use a Phillips screwdriver to hand-tighten the included screws.

4.3.1.2. Attach Spot Cam 2 to Spot (Rear Mount)

In the rear mounting position, Spot Cam 2 can attach directly to the robot's mounting rails or to an optional riser.

Prepare robot

1. Using a Phillips screwdriver, loosen the two screws in Spot's rear payload port cap, and then remove the cap. Store the cap in a safe location.
2. If attaching directly to the robot, insert 1 T-slot nut into each of the included payload rail guides. If using riser, Insert 2 T-slot nuts into each of the included riser payload rail guides. Use a 2 mm hex wrench to loosen the set screw in each T-slot nut so it does not protrude through the bottom of the guide.

3. Slide the payload rail guides into mounting rails until fully seated. The flared ends of the guides are angled to match the left or right mounting rail.

4. Using a 4 mm hex wrench, remove the 2 rearmost screws from the Spot robot's top plate. Store the screws in a safe location.
5. If installing Spot Cam 2 onto a robot with Spot Arm, rotate the arm 90 degrees to keep it out of the way.

Prepare Spot Cam 2

- Align the red dot on the round end of the included payload cable with the corresponding red dot on the port on the bottom of Spot Cam 2's base plate. Push firmly to attach the cable. You should feel a click when the cable is fully attached.

Optional: Attach riser

1. Position the riser so that the included screws in the narrow part of the riser slide into the holes in the rear of the robot. The screws in the wide part of the riser should align with the T-slot nuts in the mounting rails.

2. Using a 4 mm right-angle hex wrench, hand-tighten all six screws. You may need to start the two rearmost screws with your fingers first, as the area around these screws has low clearance and tools may not fit easily.

3. Follow remaining instructions to attach Spot Cam 2, using the threaded holes in the riser rather than the mounting rails.

Attach Spot Cam 2

1. Rest Spot Cam 2 on top of Spot with the payload cable extending toward the rear of the robot. Attach the payload cable to Spot's rear payload port and then use a Phillips screwdriver to hand-tighten the included screws.

2. Lift Spot Cam 2, taking care not to pull on the payload cable. Rotate the entire unit 180 degrees clockwise, so the narrow part of the base faces the rear of the robot. Lower the unit so the included screws on the narrow part of the base slide into the holes in the rear of the robot. The screws in the wide part of the base should align with the T-slot nuts in the mounting rails. Ensure that the payload cable is tucked into the gap under the unit and not pinched between the base and the robot's top plate.

3. Using a 4 mm hex wrench, hand-tighten all four screws. Raise the tilt housing and rotate Spot Cam 2 around its base to create clearance for accessing each screw.

4.3.2. Configure Spot Cam 2 for Use

After attaching Spot Cam 2 but before using the robot, you must authorize the payload in Spot's Admin Console.

To authorize Spot Cam 2:

1. Power on Spot.
2. Connect a computer to Spot and log in to the Admin Console. The default IP address for the Admin Console is `https://10.0.0.3` if connected by Ethernet and `https://192.168.80.3` if connected to Spot's WiFi access point. If Spot is connected as a client to your WiFi network, use the IP address assigned to Spot by your network.
3. Navigate to **Payloads**. Spot Cam 2 should already appear on the page. If it does not, power off the robot and check the payload cable connections.
4. Select **AUTHORIZE**.
5. Select the configuration that matches your Spot Cam 2 mounting position, then select **AUTHORIZE**.

NOTICE

If using an additional sensor in the accessory bay, select the option that matches the combined sensor package (e.g. “Spot Cam 2 with L642”). This allows Spot Cam 2 to account for the accessory's mass as it moves. If Spot Cam 2 was previously authorized with a different sensor, or with no additional sensor, you will need to “forget” and re-authorize.

Accessories may also require their own separate authorization to enable software features. Refer to documentation for each accessory for detailed instructions.

4.4. Update Spot Cam 2 Software

Spot Cam 2 should always be on the same software version as Spot. Update the software for the robot and Spot Cam 2 at the same time.

To update Spot Cam 2 software:

1. Download the latest version of Spot Cam 2 software (.bde file) from the Boston Dynamics Support Center by visiting https://support.bostondynamics.com/s/spot/downloads and logging in with your customer account.
2. Connect a computer to Spot and log in to the Spot Admin Console as an admin. The default IP address for the Admin Console is `https://10.0.0.3` if connected by Ethernet and `https://192.168.80.3` if connected to Spot's WiFi access point. If Spot is connected as a client to your WiFi network, use the IP address assigned to Spot by your network.
3. Navigate to **Payloads**, then select **Spot Cam 2**.
4. Scroll to the bottom of the page, then select and upload the Spot Cam 2 software (.bde file).
5. When the file is fully uploaded, Spot Cam 2 will automatically install the update and reboot. The installation and reboot should take about 1 minute. Wait until the status light on the rear face of the tilt housing cycles back to green, then refresh the page and confirm the updated software version before using the robot.

5. Operate Spot Cam 2

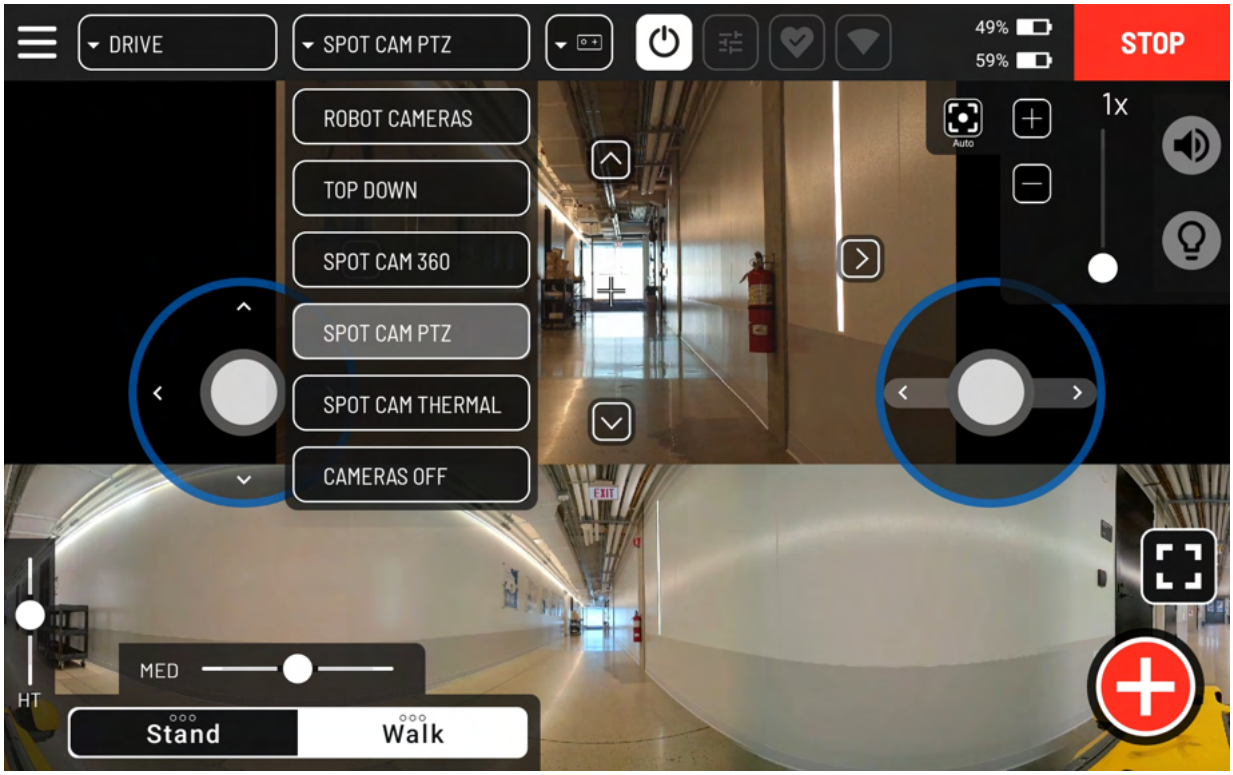
5.1. Remote Controllers

Spot Cam shares a controller with Spot. This document assumes you are using the Spot App on the Spot Tablet Controller. For information about other controller options, refer to additional documentation in the Boston Dynamics Support Center at https://support.bostondynamics.com/s/spot

5.2. Manual Operation

In manual mode, you use features in the Spot App to aim Spot Cam's sensors and capture data.

Spot Cam also adds several camera options you can use when driving Spot.



Switching camera views in the Spot App.

WARNING

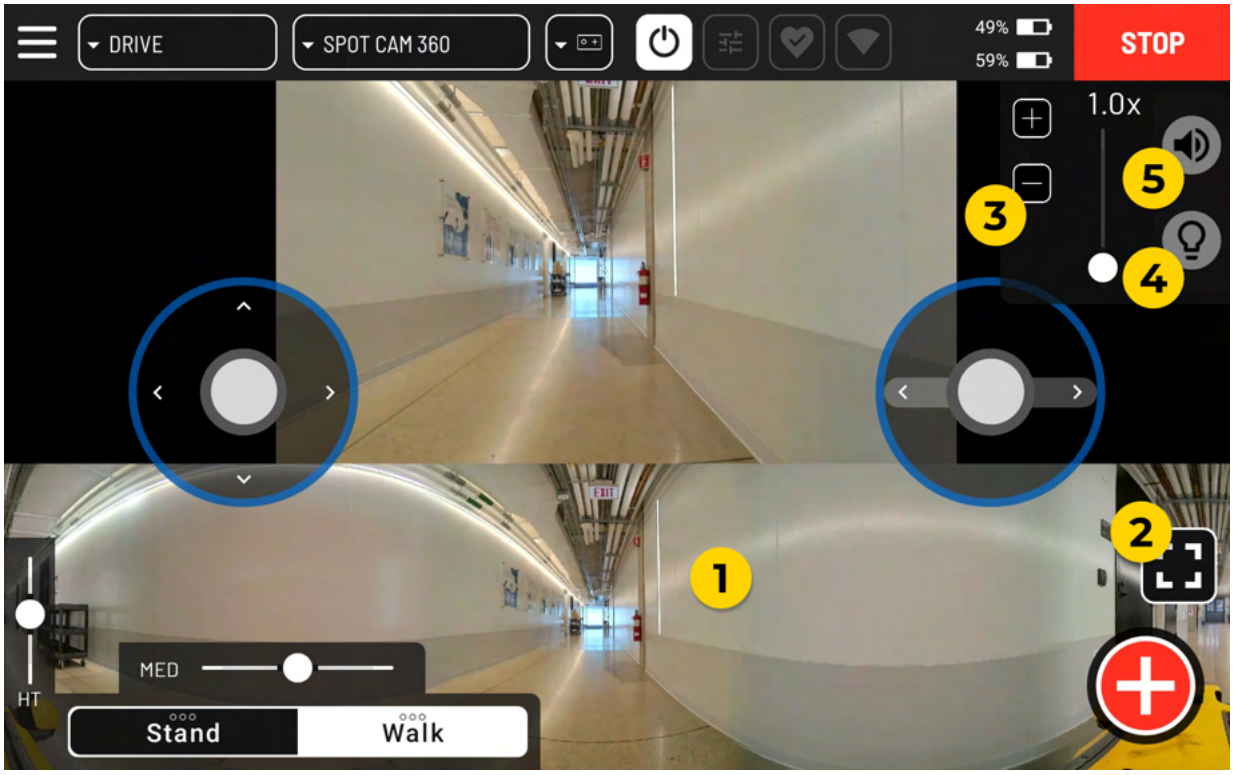
Driving Spot with Spot Cam 2 in the deployed position may increase the risk of instability or falls, especially on stairs or other inclined surfaces. Falls and collisions are more likely to damage the unit when it is deployed.

To reduce these risks:

- Stow Spot Cam 2 whenever the pan or tilt functions are not required.
- Whenever possible, Stow Spot Cam 2 before navigating stairs.
- Never actuate Spot Cam 2 on stairs while Spot is moving. If the camera must be repositioned while on a staircase, first bring Spot to a standstill.

5.2.1. Operate the Panoramic Camera

When driving with the **SPOT CAM 360** view, you will see the full field of the panoramic camera and a detailed inset.

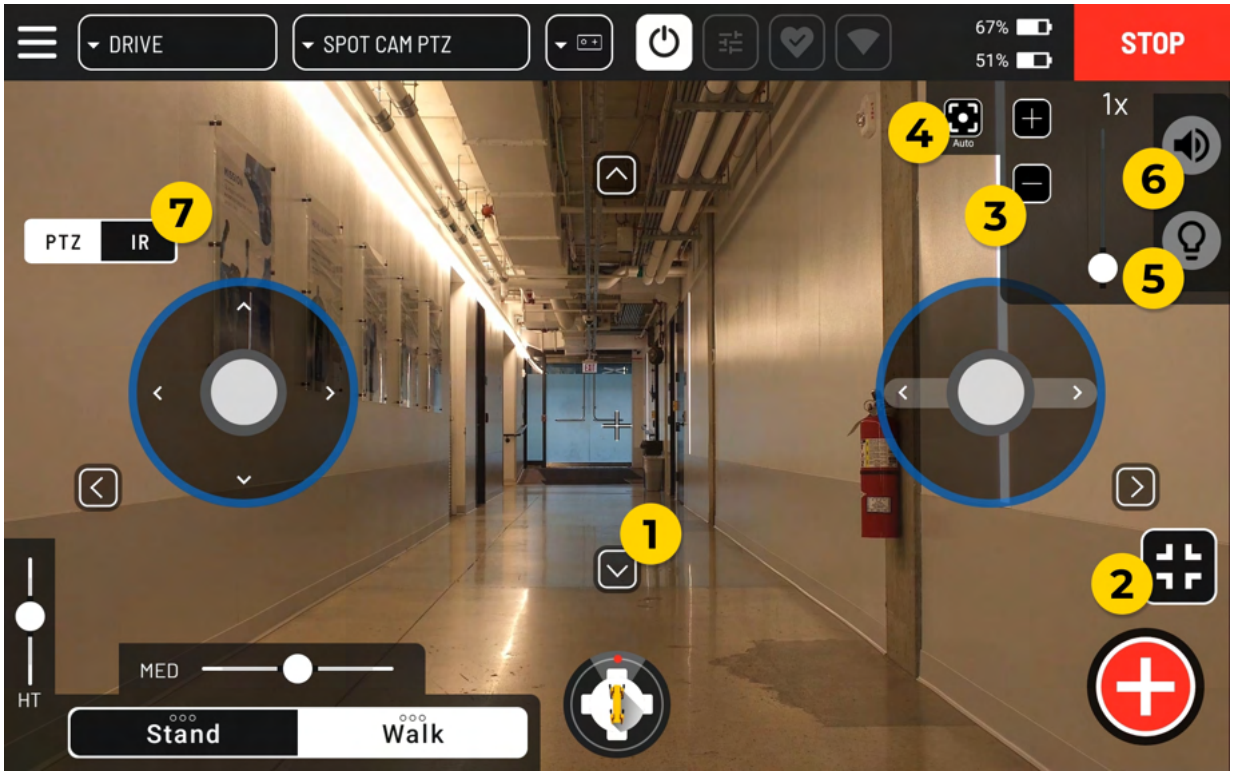


Panoramic camera controls in the Spot App.

1. Tap or drag on the panoramic image to aim the inset
2. Expand inset to full-screen
3. Zoom image up to 10x
4. Turn LED lights on or off
5. Mute and unmute audio from Spot Cam's microphone

5.2.2. Operate the PTZ Camera

When driving with the **SPOT CAM PTZ** view, you will see the view through the main PTZ (pan, tilt, zoom) camera.

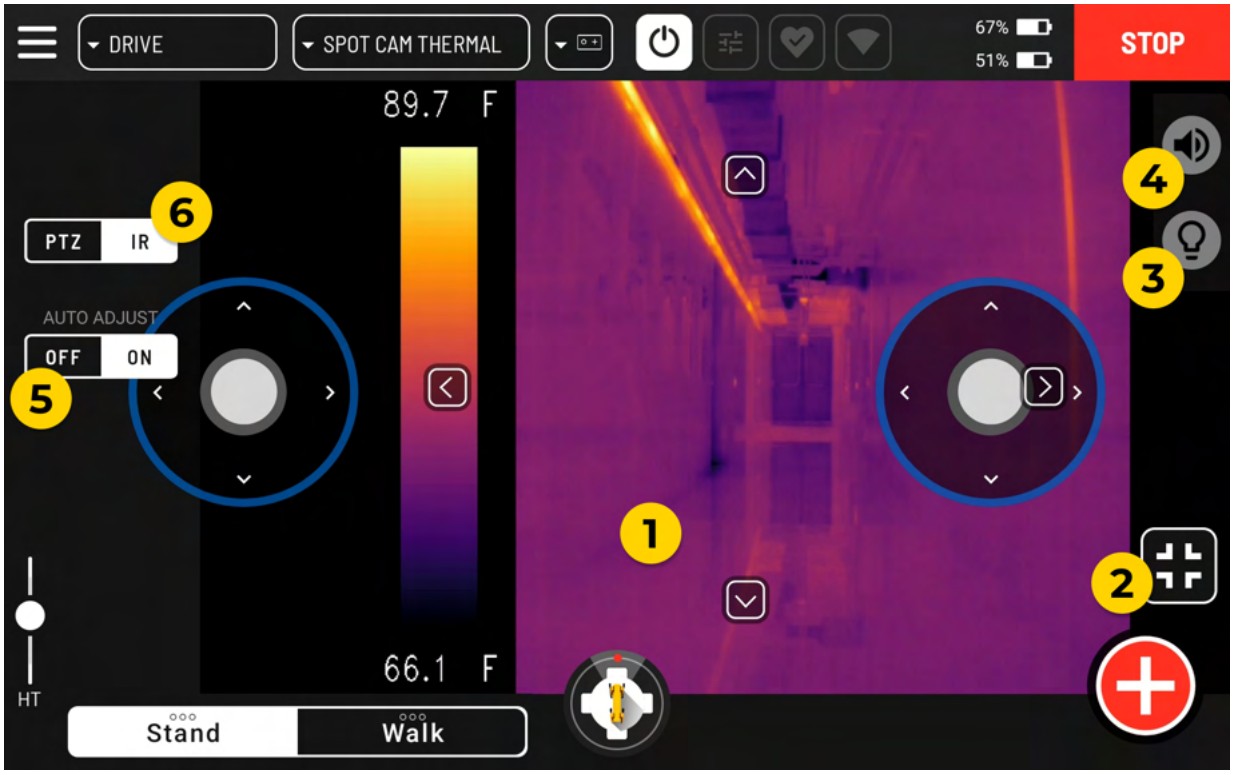


PTZ camera controls in the Spot App.

1. Nudge camera left, right, up, down
2. Show or hide panoramic image (tap or drag on panoramic image to aim camera)
3. Zoom image up to 25x
4. Toggle auto or manual focus
5. Turn LED lights on or off
6. Mute and unmute audio from Spot Cam's microphone
7. Switch to thermal image

5.2.3. Operate the Thermal Camera

When driving with the **SPOT CAM THERMAL** view, you will see the view through the infrared (IR) camera.



Thermal camera controls in the Spot App.

1. Nudge camera left, right, up, down
2. Show or hide panoramic image (tap or drag on panoramic image to aim camera)
3. Turn LED lights on or off
4. Mute and unmute audio from Spot Cam's microphone
5. Toggle auto or manual temperature adjustment
6. Switch to PTZ image

5.2.4. Take a Picture or Video

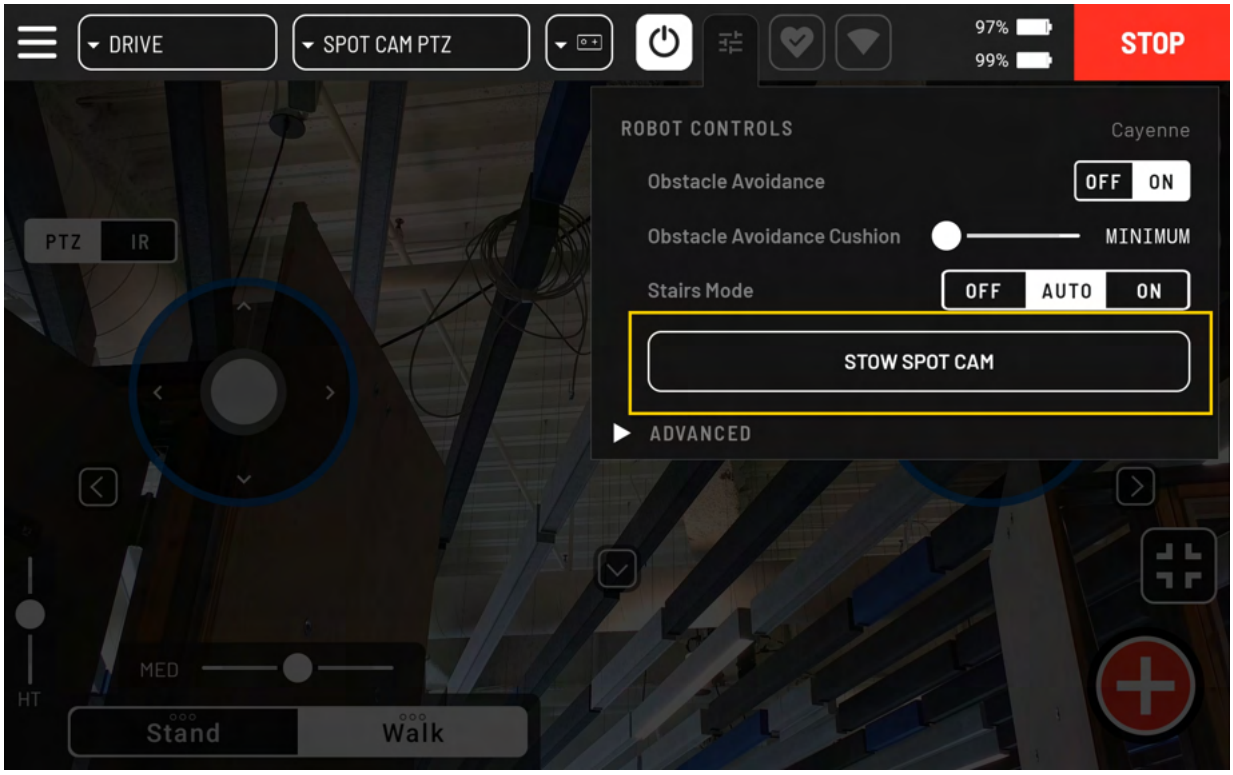
To capture images or videos from Spot Cam's cameras, select **Add Action** and choose an inspection type, then follow the on-screen prompts to configure the inspection.

- **Spot Cam - PTZ** – Captures an image from the main PTZ camera. Also captures raw thermal data, a panoramic image, and a short video.
- **Spot Cam - Video** – Captures video from the main PTZ camera with a configurable duration and optional region of interest (ROI).
- **Spot Cam - Thermal** – Captures thermal data from the infrared camera with optional regions of interest (ROI) and alert thresholds.

5.2.5. Stow Spot Cam 2

Spot Cam 2 should be stowed before navigating stairs and whenever the camera is not in use.

To stow Spot Cam 2, open the **Robot Controls** panel and select **STOW SPOT CAM**.

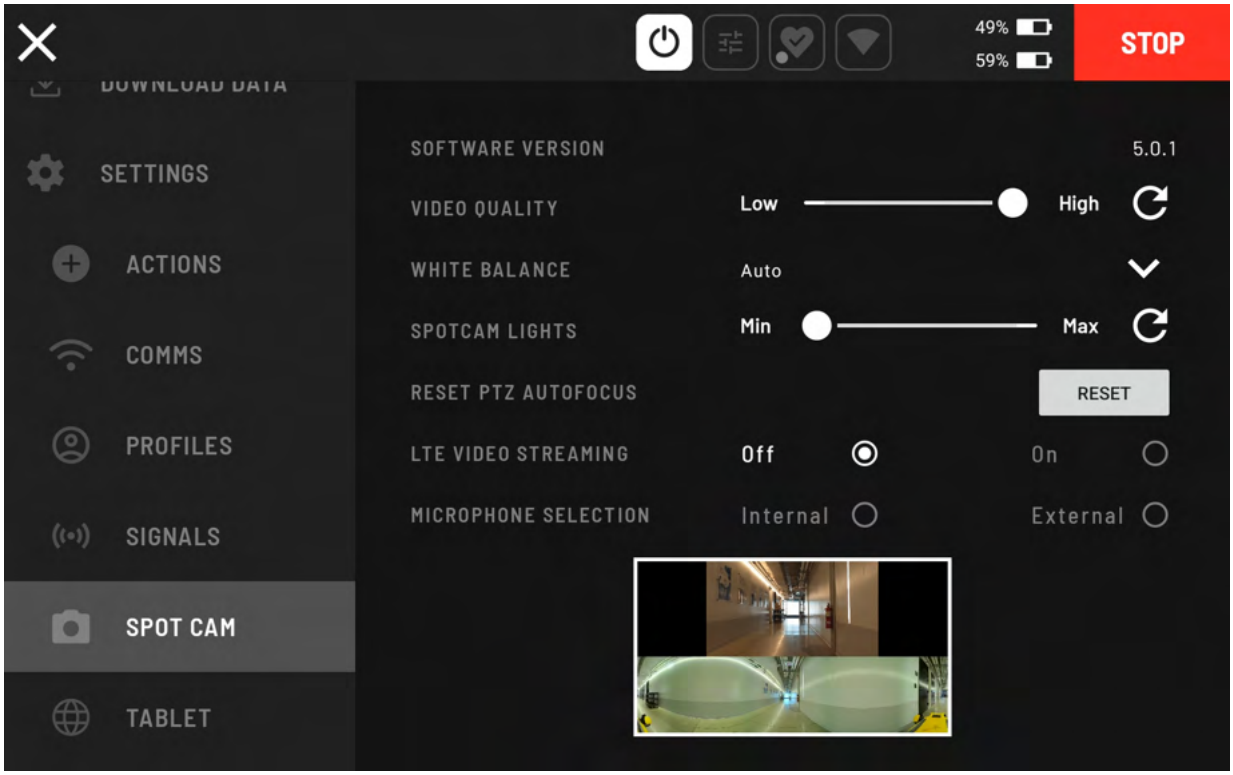


Stowing Spot Cam 2 from the Robot Controls panel.

NOTICE

When stowed, Spot Cam 2 remembers its last deployed position. Using the nudge controls while stowed will redeploy the camera to the previous position.

5.2.6. Change Spot Cam Settings



Spot Cam settings in the Spot App.

To adjust LED brightness, microphone gain, and various camera and video streaming settings for Spot Cam 2, navigate to ≡ **Menu** > **SETTINGS** > **SPOT CAM**. Scroll the list to access all settings.

5.3. Automatic Operation

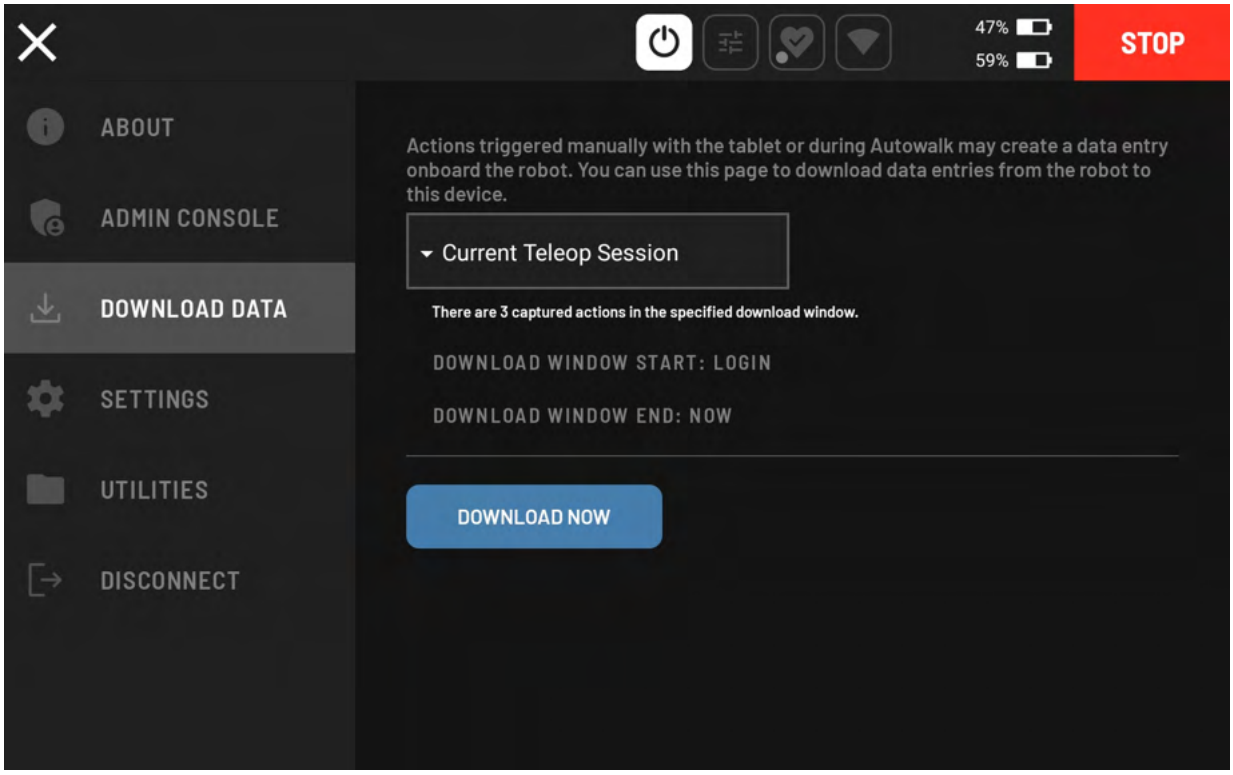
During Autowalk missions, Spot Cam 2 will automatically deploy to perform inspections that capture data with its sensors. The tilt housing will stow after every inspection.

Spot Cam 2 can replay almost all inspections recorded with previous versions of Spot Cam, such as Spot Cam+ or Spot Cam+IR. The only exception is inspections with zoom levels greater than 25x, which exceed Spot Cam 2's zoom capability and will need to be re-recorded at a lower zoom level.

Inspections recorded with Spot Cam 2 cannot be replayed with previous versions of Spot Cam.

5.4. Review and Download Data

Images and other data captured in manual mode or during Autowalk missions can be downloaded to the tablet, and then manually transferred to a computer via USB cable.



Downloading data from the robot to the tablet controller.

To download Spot Cam data:

1. In the Spot App, navigate to ≡ **Menu** > **DOWNLOAD DATA**.
2. Select a data set to download, or set a custom time range.
3. Select **DOWNLOAD NOW** to download the selected data.

The data will be downloaded as a .zip file to **SD Card** > **Android** > **media** > **com.bostondynamics.spot** > **SPOT_DATA**. The .zip file will contain a separate folder for each mission run or manual driving ("teleop") session in the data set. Each folder contains images and other data collected from inspections, and a metadata.json file with additional information about each file.

Select **SIT & VIEW DATA** to view the decompressed file in the tablet controller's file browser. The robot will sit and power off motors.

6. Maintenance

6.1. Service and repair

Do not attempt to service or repair Spot Cam 2 yourself. If errors or other issues persist during robot operation, Spot Cam 2 may need attention from Boston Dynamics Support engineers. Include the following information when contacting Support:

- Spot robot serial number
- Spot Cam 2 serial number
- Description of the issue

To contact Boston Dynamics Support, visit: https://support.bostondynamics.com/s/contactsupport.

6.2. Clean and Maintain Spot Cam 2

Spot Cam 2 requires regular cleaning and basic preventive maintenance.

While conducting cleaning or maintenance operations, always follow safe handling guidance as described in Safe Handling.

CAUTION

Dirty or damaged camera lenses may prevent remote operators from assessing the condition of the environment around the robot. Do not operate the robot if doing so would require using a Spot Cam 2 camera that is damaged or obscured.

Turn off the robot before touching Spot Cam 2 or performing maintenance inspections.

6.2.1. Inspect Crash Protection Panels

The crash protection panels are the plastic shells that surround the front, rear, and sides of Spot Cam 2.

Examine each panel for any signs of damage such as cracks, missing pieces, or separation from the unit.

Minor surface damage is acceptable. Anything that could impede Spot cam 2 from functioning normally should be addressed and reported immediately.

6.2.2. Inspect and Clean Camera Lenses

Spot Cam 2 includes 7 camera lenses, including the PTZ and IR cameras on the front of the tilt housing, and the panoramic cameras located on the front, rear, sides, and top of the tilt housing.

To clean camera lenses:

1. Using a non-abrasive cloth or anti-static soft lens brush, gently brush away any debris that can be found on the glass or surrounding area.
2. Once debris is removed, dampen the non-abrasive cloth with glass cleaner. Do not spray cleaner directly onto the lens.
3. Gently wipe the lens with the dampened cloth until all residue is removed. Use a dry section of cloth to remove any remaining moisture.
4. Repeat for each camera lens.

7. Declarations and marking

7.1. EU Declaration of Incorporation

This document is prepared in accordance to `Low Voltage Directive 2014/35/EU, Annex III` — Originally authored in English.

Manufacturer:	Boston Dynamics, Inc 200 Smith Street Waltham, MA 02451 USA	Person authorised to compile the technical file established in the community:	Boston Dynamics GmbH Alexander-Fleming-Ring 57 65428 Rüsselsheim Germany

Description and Identification of the Machinery:

Product and function: This is an audio/video accessory used in conjunction with the Spot robot.

Name	Model	Serial Number (S/N)
SPOTCAM 2	`04-00850255-001`	`52000001` or higher.

It is declared that the product, for what is supplied, fulfills all the relevant provisions of the following directives:

`Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU`

Harmonized Standards Used, as referred to in:

`LVD: EN 62368-1 2014 +A11:2017, EN 62368-1: 2020 +A11:2020`

`EMCD: EN 61000-6-4:2019, CISPR 32:2019, EN 55032:2015/A11: 2020,CISPR 32-1:2016; EN 55011:2016/A1:2017/A2:2021/A11:2020/CISPR 11:2019; EN 61000-6-2:2019, EN 55035:2017/A11:2020`

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Waltham, MA (USA) _____	Authorised Representative Jason P Fiorillo, Chief Legal Officer	_____

Waltham, MA (USA) July 22, 2025	Authorised Representative Jason P Fiorillo, Chief Legal Officer

7.2. Labels

The following label appears on Spot Cam 2:

Spot Cam 2 label.