Accelerate your digital transformation with agile mobile robots. Spot helps increase your uptime by enabling your team to collect high quality data more frequently and efficiently with automated robotic inspection.

**Automated**
Spot allows you to automate the dull, dirty, and dangerous inspection tasks in your facility. Easily programmed to move through human purposed environments, Spot brings IoT sensors to your assets frequently and consistently, creating a digital twin of the health of your operation.

**Scalable**
Whether you are operating one Spot or an entire fleet, from six feet or six hundred miles away, we offer the tools needed for an enterprise deployment. Our software helps you manage your fleet and makes your data accessible in one place, with flexible communication options to keep you connected and informed.

**Reliable**
Extensive testing in the lab and field has created a robot that you can trust to work day-in and day-out. Spot can operate without interventions, autonomously charging, dynamically replanning around new obstacles, and self-righting if it falls. With over 1,000 robots in customer hands today, you can rest assured that Spot is a dependable coworker that delivers consistent results.
Thermal Inspection
Equipped with a thermal imager, Spot allows for frequent inspection of critical equipment such as pumps and motors. Set up thermal inspection actions to trigger alerts when equipment exceeds a set range or when temperature differences between assets surpass thresholds.

Gauge Reading
With plug and play partner machine vision models, Spot can read and analyze analog gauges, measuring pressure, flow, and more. Trigger alerts for abnormal readings and track trends in your assets over time.

Acoustic Inspection
With an optional Fluke SV600 add-on, Spot can perform acoustic imaging inspections to identify costly leaks in compressed air or other gas lines. Record images and video of equipment data for post-analysis inspection, and trigger alerts so your team can respond quickly to data insights.
KIT INCLUDES:

- SPOT ROBOT
- SPOT CAM+IR
- SCOUT
- FLUKE SV600*
- SPOT CARE
- SPOT EAP 2
- SPOT DOCK

* optional add-on
<table>
<thead>
<tr>
<th><strong>SPOT EAP 2</strong></th>
<th><strong>SPOT CAM+IR</strong></th>
<th><strong>FLUKE SV600</strong> <em>(optional add-on)</em></th>
<th><strong>SCOUT</strong></th>
<th><strong>SPOT DOCK</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot EAP 2 enhances the autonomy, computation, and communications available on the Spot platform. Configure inputs such as sensors, cameras, and other devices and process data collected into actionable insights.</td>
<td>The Spot CAM+IR payload turns Spot into a powerful inspection tool with purpose-built cameras. Use Spot CAM+IR to get eyes on remote or hazardous environments.</td>
<td>The SV600 Acoustic Imager enables users to detect, locate, and visualize air and gas leaks or changes in sound signatures in real-time.</td>
<td>Control your Spot fleet from a virtual control room with our web-based application Scout. Run pre-programmed autonomous missions and integrate Scout data into your existing enterprise asset management (EAM) system.</td>
<td>The Spot Dock is a self-charging station that transforms Spot into a truly autonomous remote inspection tool. Increase predictability and improve safety on your sites with enhanced remote and autonomous operations.</td>
</tr>
<tr>
<td><strong>Features:</strong></td>
<td><strong>Features:</strong></td>
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<td><strong>Features:</strong></td>
<td><strong>Features:</strong></td>
</tr>
<tr>
<td>☀️ Lidar maps up to 100m around Spot</td>
<td>☀️ Integrated radiometric thermal camera</td>
<td>☀️ 64-Digital MEMs microphones</td>
<td>☀️ Autonomous site coverage</td>
<td>☀️ Autonomous self-charging</td>
</tr>
<tr>
<td>🌍 Compact CPU and GPU with customizable inputs and outputs</td>
<td>🌍 Spherical camera <em>(360 x 170° view)</em></td>
<td>🌍 Programmable alarms for sound level (dB) and frequency (kHz)</td>
<td>🌍 Real-time visibility</td>
<td>🌍 Gigabit Ethernet passthrough to robot</td>
</tr>
<tr>
<td>🌐 5G/LTE modem with CBRS support for private networks</td>
<td>🌐 Pan-tilt-zoom (PTZ) camera with 30x optical zoom</td>
<td>🌐 Video and photo capture</td>
<td>🌐 Remote site access</td>
<td>🌐 2-3 hour recharge time</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SPOT CARE</strong></th>
<th><strong>Features:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>One year of premium service and support to keep your robot up and running at peak performance.</td>
<td>☑️ Free damage protection*</td>
</tr>
<tr>
<td>☑️ Part replacement</td>
<td>☑️ Quick repair turnaround</td>
</tr>
<tr>
<td>*Improper use of Spot is not covered under Spot Care. See our <a href="#">Spot Care Terms and Conditions</a> to see what constitutes improper use.</td>
<td></td>
</tr>
</tbody>
</table>
## SPOT SPECIFICATIONS

**Enterprise Asset Management Kit**

### DIMENSIONS WITH PAYLOADS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1100 mm (43.3 in)</td>
</tr>
<tr>
<td>Width</td>
<td>500 mm (19.7 in)</td>
</tr>
<tr>
<td>Height (Sitting)</td>
<td>548 mm (21.6 in)</td>
</tr>
<tr>
<td>Default Height (Walking)</td>
<td>967 mm (38.1 in)</td>
</tr>
<tr>
<td>Max Height (Walking)</td>
<td>1057 mm (41.6 in)</td>
</tr>
<tr>
<td>Min Height (Walking)</td>
<td>877 mm (34.5 in)</td>
</tr>
<tr>
<td>Max Speed</td>
<td>1.6 m/s</td>
</tr>
<tr>
<td>Max Slope</td>
<td>±30°</td>
</tr>
<tr>
<td>Max Step Height</td>
<td>300 mm (11.8 in)</td>
</tr>
</tbody>
</table>

### LOCOMOTION

- **Net Mass/Weight (Including battery and Fluke SV600)**: 47.5 kg (104.7 lbs)
- **Net Mass/Weight (Including battery, not including Fluke SV600)**: 43.8 kg (96.6 lbs)

### AUDIO & VISUAL SIGNALS

- **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

### TERRAIN SENSING

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

### BATTERY

- **Battery Capacity**: 564 Wh
- **Average Runtime**: 90 mins
- **Standby Time**: 180 mins
- **Recharge Time**: 60 mins

### CHARGER

- **Input Voltage**: 100-240V, 50/60Hz 8A Max
- **Output**: 35-58.2 VDC, 12A Max
- **Mass/Weight**: 7.5 kg (16.5 lbs)

### 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
- **Average Battery Life**: 8 hours
- **Ingress Protection**: IP65

### 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.
- 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
### SPOT CAM+IR

**360° CAMERA**

- **Field of View (FoV)**: 360 x 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)

**FLUKE SV600 CAMERA**

- **Integrated Visible Light**: Included with fixed lens
- **Resolution Video**: 640 x 480
- **Camera Field of View**: 65° ±3°
- **Camera Resolution**: 720 p at 30 fps

**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
- **Scene Temp. Range (Low Gain)**: -40°C to +550°C
- **Accuracy**: Radiometric ±5°C
- **Angular Resolution**: 0.1° – 0.4°
- **Rotation Rate**: 5 Hz – 20 Hz
- **Laser Product**: Class 1 eye-safe per IEC 60825-1:2007 & 2014
- **Laser Wavelength**: 903 nm
- **Power**: 8 W
- **Voltage**: 9-18 V
- **Other**: Integrated web server for monitoring and configuration

### SPOT EAP 2 PROCESSING (JETSON XAVIER NX)

- **CPU**: 6-core NVIDIA Carmel ARM V8.2
- **GPU**: 384-core NVIDIA Volta GPU with 48 Tensor cores
- **Memory**: 16GB 128-bit LPDDR4x at 51.2 GB/s

### DATA FORMATS

- **Audio**: .wav (audio verification)
- **Pictures**: .jpg, .png
- **Video (V/V+ models)**: .mjpeg, .mp4
- **Data messages**: .json

### SPOT DOCK DIMENSIONS

- **Length**: 1140 mm (44.9 in)
- **Width**: 414 mm (16.3 in)
- **Height**: 403 mm (15.9 in)

### POWER

- **Input**: 90-277 VAC
- **Output**: 58V at 12A
- **Charge time**: 2.3.5 hours†

### ENVIRONMENT

- **Operating Temp**: -20°C to 35°C, Shelter and ambient light required
- **Mounting**: Bolt/tie down locations provided

### CONNECTIVITY

- **USB**: 3.1 2x USB 3.1 ports with support for 4.5W
- **USB-C**: 1x USB-C port with support for 50W power delivery and video out
- **SD Card**: 1x SD card slot
- **Other Connections**: E-Stop interface PPS output, GPIO (Configurable to PWM output), I2C Ports
- **Power Outputs**: 48V or robot battery voltage for Spot Explorer models 24V, 50W 12V, 50W 5V, 30W
- †Actual storage available will be less due to operating system.