

Co-Lab

Indoor Security Robot by KABAM

Surveillance, Data Collection and
Advanced Video Analytics



Product Overview

The Co-Lab security robot safely navigates autonomously around its environment via an extensive sensor array. Providing ample run time, and public announcement features, Co-Lab is ideal for your safety and surveillance needs.

Equipped with lift integration, smart access-door capabilities, and sitemap sharing, Co-Lab can access various building floors. Co-Lab has complete visibility of its surroundings, capturing extensive data for comprehensive surveillance and analytics. An interactive screen allows users to access various directories and concierge functions.

Complete with an easy-to-use mission control interface, Co-Lab is your perfect surveillance partner and an essential member of your security team.

Key Benefits

Continuous 24/7 Monitoring, Indoor Mobility and expanded surveillance, force multiplier for security personnel and Improved safety.

Functions/Features

- Autonomous Navigation System
- ≤ 8 hours* Battery Life
- Static and Dynamic Obstacle Avoidance
- Self-Recharging Capabilities
- Extendable, Telescopic Camera
- 360-degree Video Streaming
- Private LTE/5G connectivity

Smart+

- Live Observability Tools
 - Camera and LIDAR Feeds
 - Health Data/Metrics
- Remote Over-the-air Intervention
- Scheduled and Ad-Hoc Patrol Task Execution
- Real-time System Alerts
- State-of-the-Art User Interface
- Smart video analytics enable the detection of unattended objects, overflowing bins and faulty lights
- Integrates with existing security operations platforms.

Trilogy NextGen is an authorized distributor of the Co-Lab Indoor Security Robot by KABAM. Our mission is to reimagine connectivity, delivering simple, reliable and secure networks that enable differentiated experiences.

Product Specifications



Modular Design

For Easy Add-on Options
(LCD/LED Display Screen,
Camera Arrays)

Concierge/Help Desk/
Visitor Registration

Automated
Disturbance
Responses



Front View



Side View

with extended telescope

Extendable Telescopic
360° Camera

Security & Surveillance,
Facility Inspection

Storage Compartment

PA System/FCC Alert

Top View



Side View



Back View



Front View

Description

Parameters

Diameter	500mm ± 10mm (19.7in ± 0.4in)
Height	Without Extended Telescopic: 1500mm ± 10mm (59.1in ± 0.4in) With Extended Telescopic: 2000mm ± 10mm (78.7 ± 0.4in)
Weight	80kg (176.4lbs)
LIDAR Maximum Scan Radius (On the surface with a 90% reflective rate)	25 metres (82 feet)
Ultrasonic Sensor	6 (Maximum Detecting Distance: 50cm (19.7in))
Depth Camera	3
Cliff Sensor	3 (Minimum Detecting Depth: 5cm (2in))
Pressure Bumper	1
Mapping Performance	Maximum Mapping Area: 500m x 500m (546.8ft x 546.8ft) Map Definition : 5cm (2in)
Speed	0.3 – 0.7m/s (1 - 2.3ft/s)
Hardware Interface	Ethernet : 10/100/1000 Mbps Power : DC 20-25.2V 5A Max Wi-Fi : 5G & 2.4G 802.11a/b/g/n/ac
Software Interface	Smart+
Working Hours	≤ 8 hours*
Battery Capacity & Type	24V 32AH (18650 Li-Ion)
Autonomous Recharging	Charging Station Input : 100 – 240 VAC (250W) Output : 25.2V 6A-10A Max Charging Time : 3 – 5 hours
Operating Environment	0°C – 40°C (32°F – 104°F)
Network	4G Enabled with Wi-Fi Access