

AUTONOMOUS SECURITY

V2.4



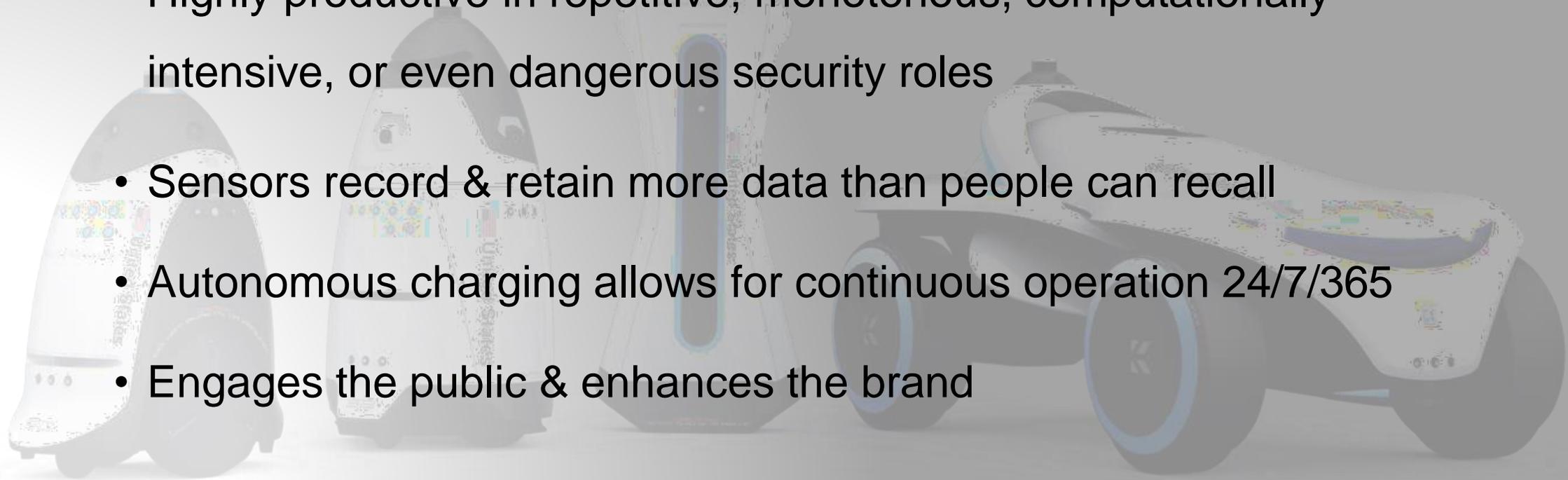
Available Today

Future Release



Advantages of Autonomous Security

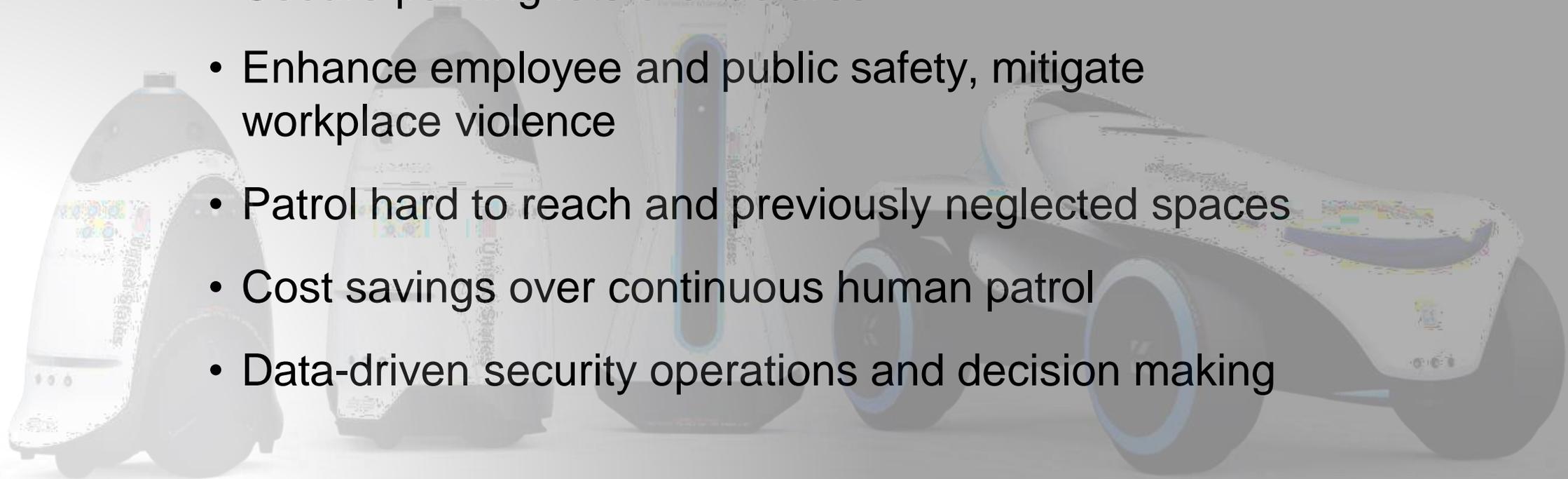
- Large autonomous robots are an effective physical deterrence –
Force Multiplier Effect
- Highly productive in repetitive, monotonous, computationally intensive, or even dangerous security roles
- Sensors record & retain more data than people can recall
- Autonomous charging allows for continuous operation 24/7/365
- Engages the public & enhances the brand





Why our Clients use Autonomous Security

- Disrupt criminal behavior
- Deter vagrancy, trespassing, & unauthorized visitors
- Secure parking lots & structures
- Enhance employee and public safety, mitigate workplace violence
- Patrol hard to reach and previously neglected spaces
- Cost savings over continuous human patrol
- Data-driven security operations and decision making





Fully Autonomous Operation 24/7 Nationwide

Keeping America and its territories safe.
Now patrolling across 5 time zones.



OVER 1 MILLION
Hours in operation

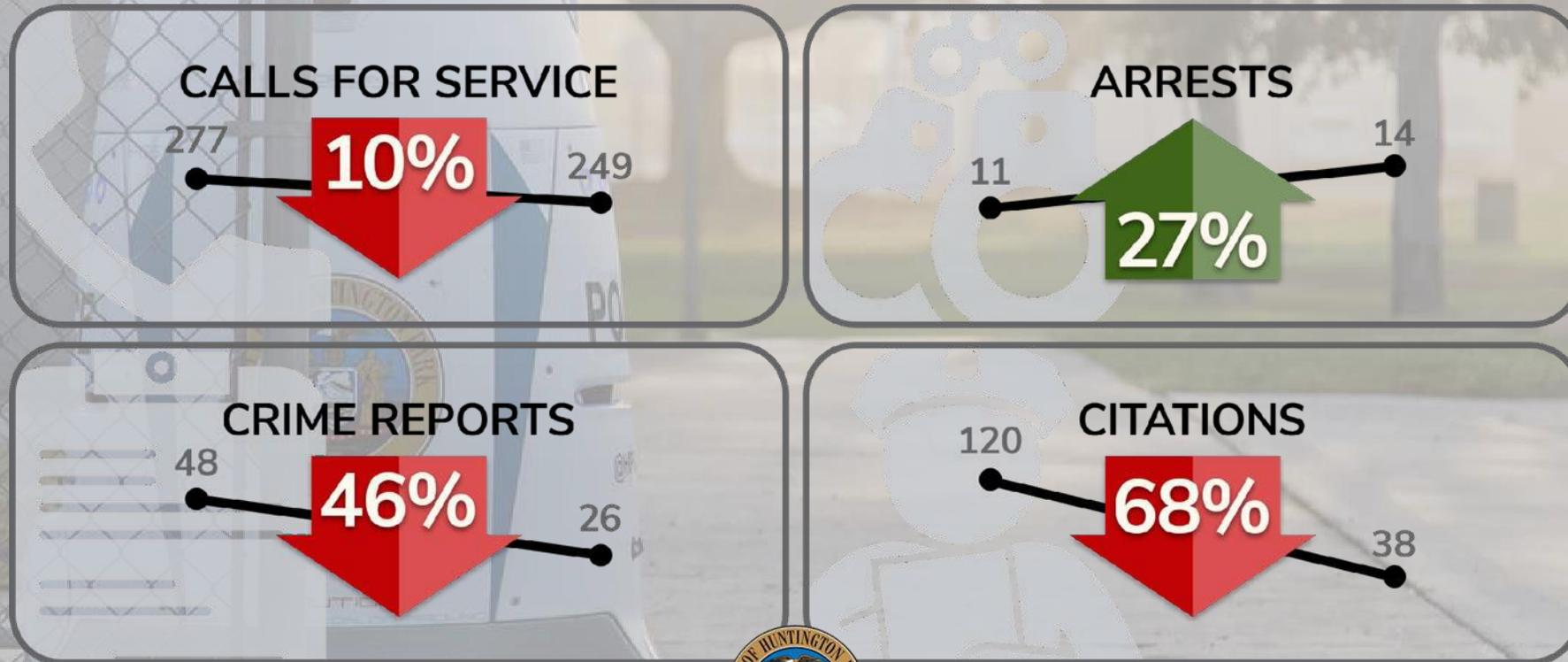
OVER 240 BILLION
People detected

OVER 10.5 MILLION
License plates read

Autonomous Security Winning Against Crime

K5 Robot Data Analysis - Salt Lake Park, CA

Jun-Dec 2018 (No K5) to Jun-Dec 2019 (One K5 Robot)



Knightscope Credited for Reducing Crime



Source: City of Huntington Park Police Dept.



Autonomous Security Robot (ASR)

INDOOR/OUTDOOR USE

Built to operate on ADA compliant areas, such as

- Corporate Campuses
- Shopping Malls
- Hospitals
- Stadiums
- Retailers
- Warehouses
- Logistics Facilities
- College Campuses
- Airports, Bus & Train Stations
- Casinos

KEY FEATURES

- 360° Eye-level HD/4K Recording
- Two-way Intercom and Live Audio
- People Recognition
- Automatic License Plate Recognition
- Parking Meter
- Thermal Detection
- Signal Detection



Speed: Up to 3 mph
Terrain: Indoors & Outdoors
Height: 62.5"
Width: 33.5"
Length: 36"
Weight: 398 lbs.



Autonomous Security Robot (ASR)

INDOOR USE

Designed for complex dynamic indoor environments such as

- Indoor Malls
- Office Buildings
- Manufacturing Facilities
- Stadium Plazas
- Warehouses
- Schools
- Casinos

SMALLER SIZE

Smaller and narrower than its outdoor counterpart, allowing easier maneuvering indoors

AVAILABLE FEATURES

- 360° Eye-level HD/4K Recording
- Two-way Intercom and Live Audio
- Thermal Detection
- Signal Detection
- People Detection



Speed: Up to 3 mph
Terrain: Indoors
Height: 51"
Width: 24"
Length: 33"
Weight: 340 lbs.



Autonomous Security Robot (ASR)

STATIONARY – INDOOR/OUTDOOR USE

- Pedestrian Entrances
- Lobbies & Reception Areas
- Residential Parking Lots & Structures
- Help Points
- High-Risk Areas & Hot Spots
- Remote or Distant Areas
- Shuttle Stops
- Challenging Retrofits
- Retail Aisles

KEY FEATURES

- 360° Eye-level HD/4K Recording
- Two-way Intercom and Live Audio
- Automatic License Plate Recognition
- Thermal Detection
- People Recognition
- Facial Recognition
- Elevated Body Temperature Sensing



Speed: Stationary
Terrain: Indoors/Outdoors
Height: 69"
Width: 28.8"
Length: 11.2"
Weight: 150 lbs.

Knightscope Security Operations Center

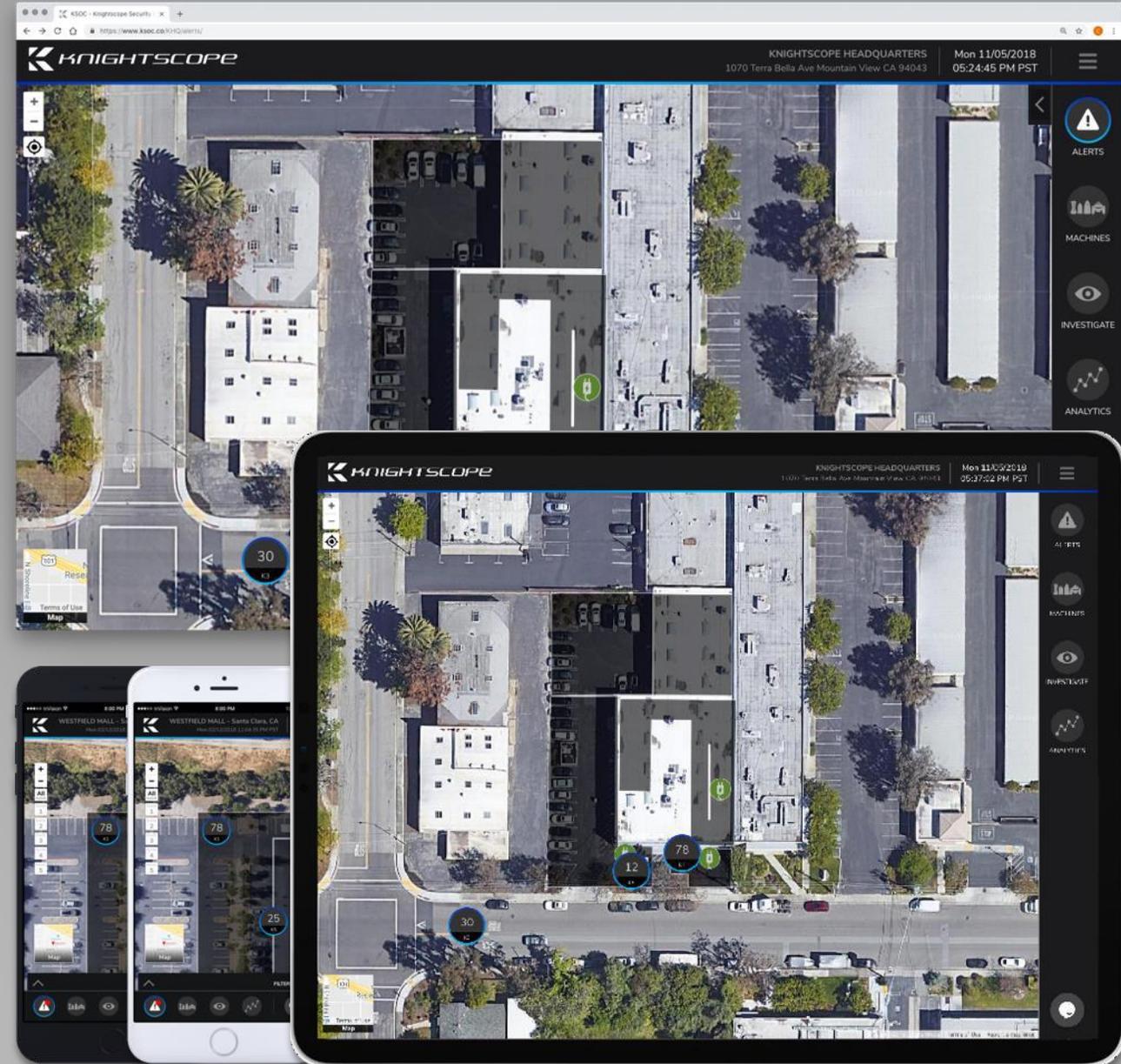
KSOC

USER INTERFACE

All data generated by Knightscope ASRs is accessible through the Knightscope Security Operations Center (KSOC), a highly intuitive, browser-based user interface. Clients can recall, review, and save the data for forensic or event documenting purposes.

MOBILE/TABLET

The KSOC is designed to be fully responsive and optimized for mobile/tablet devices. Put the power of the KSOC right in the palm of your hand.



KSOC Capabilities



MAP REST & ZOOM LEVEL

Reset the default location and zoom level of map

MACHINE STATUS

Display machine status when rollover machines icon

MACHINE ICON

Show Machine Identification Number and type

MAP TOGGLE

Switch map to satellite or map view

DEPLOYMENT NAME & ADDRESS

DEPLOYMENT DATE/TIME

HAMBURGER MENU
Various options like deployment, settings, help, about and logout

ALERTS

Review People detection, ALPR, Thermal Detection, ASD

MACHINES

View machines list; select patrol, stop or park option; sound controls; intercom; broadcast; all camera view; map view; grab the timeline and move to left or change the date in calendar to view recorded videos; make and download video clips; patrol scheduler

INVESTIGATE

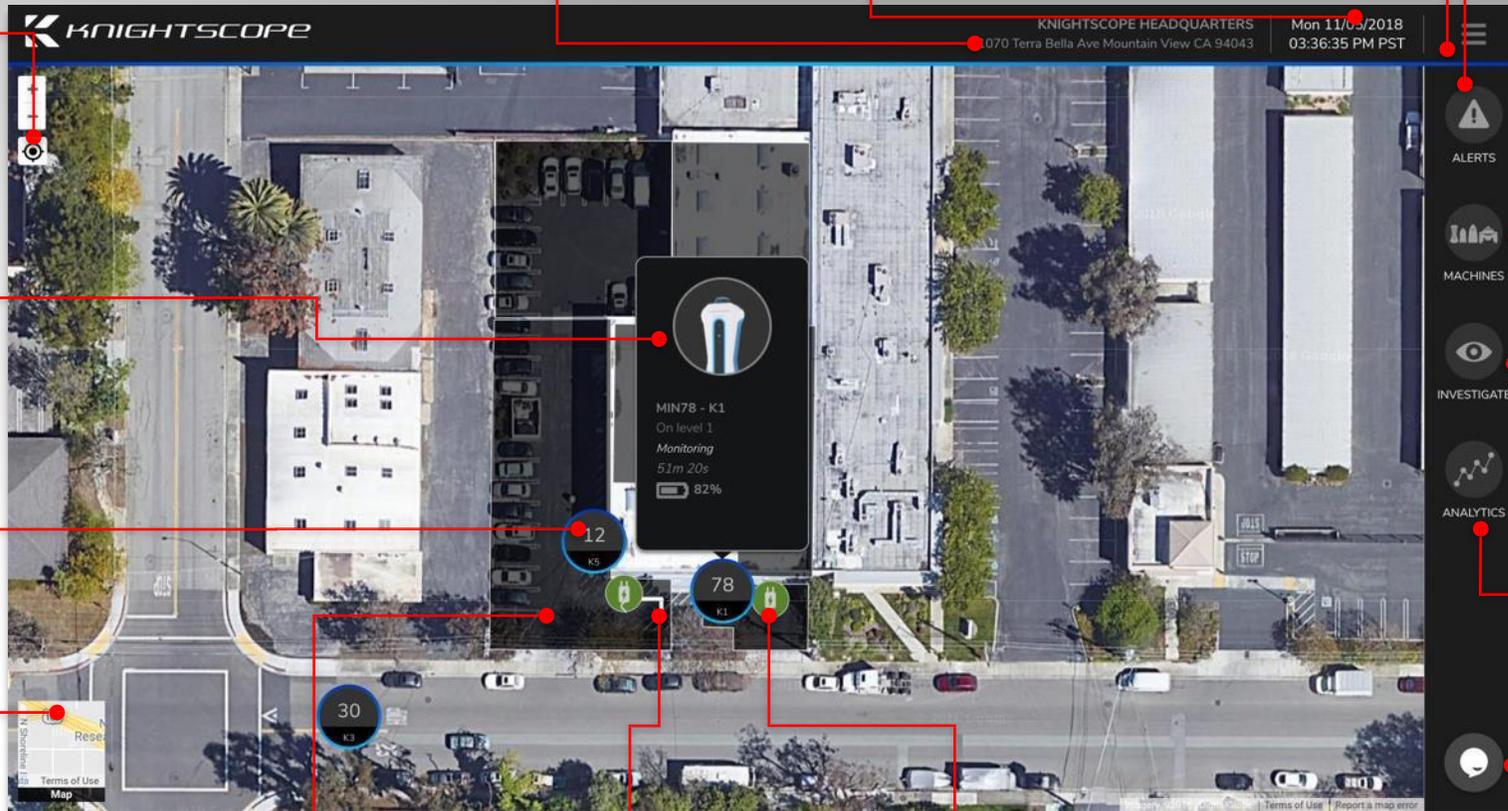
Search specific detections for investigation

ANALYTICS

View various information about the deployment and subscription

ONLINE CHAT

Real time online help



PATROL ZONE

PATROL PATH

CHARGE PAD

24/7 Monitoring



The KSOC gives security teams the ability to perform forensic investigations from anywhere in the world with a Chrome browser and an Internet connection

Intercom



The Intercom Call Button turns the K1/K3/K5 into an Emergency Call Box.

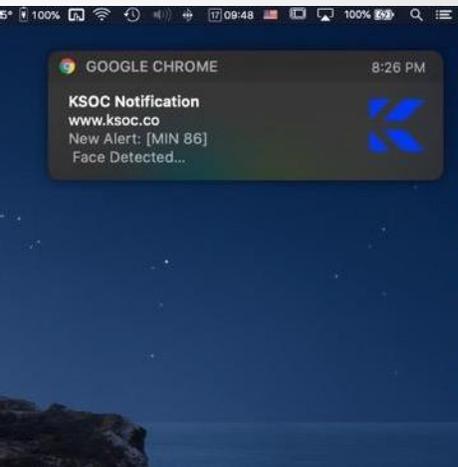
Individuals can push the button to talk directly to the SOC or Security Person responsible for responding to direct requests for assistance.



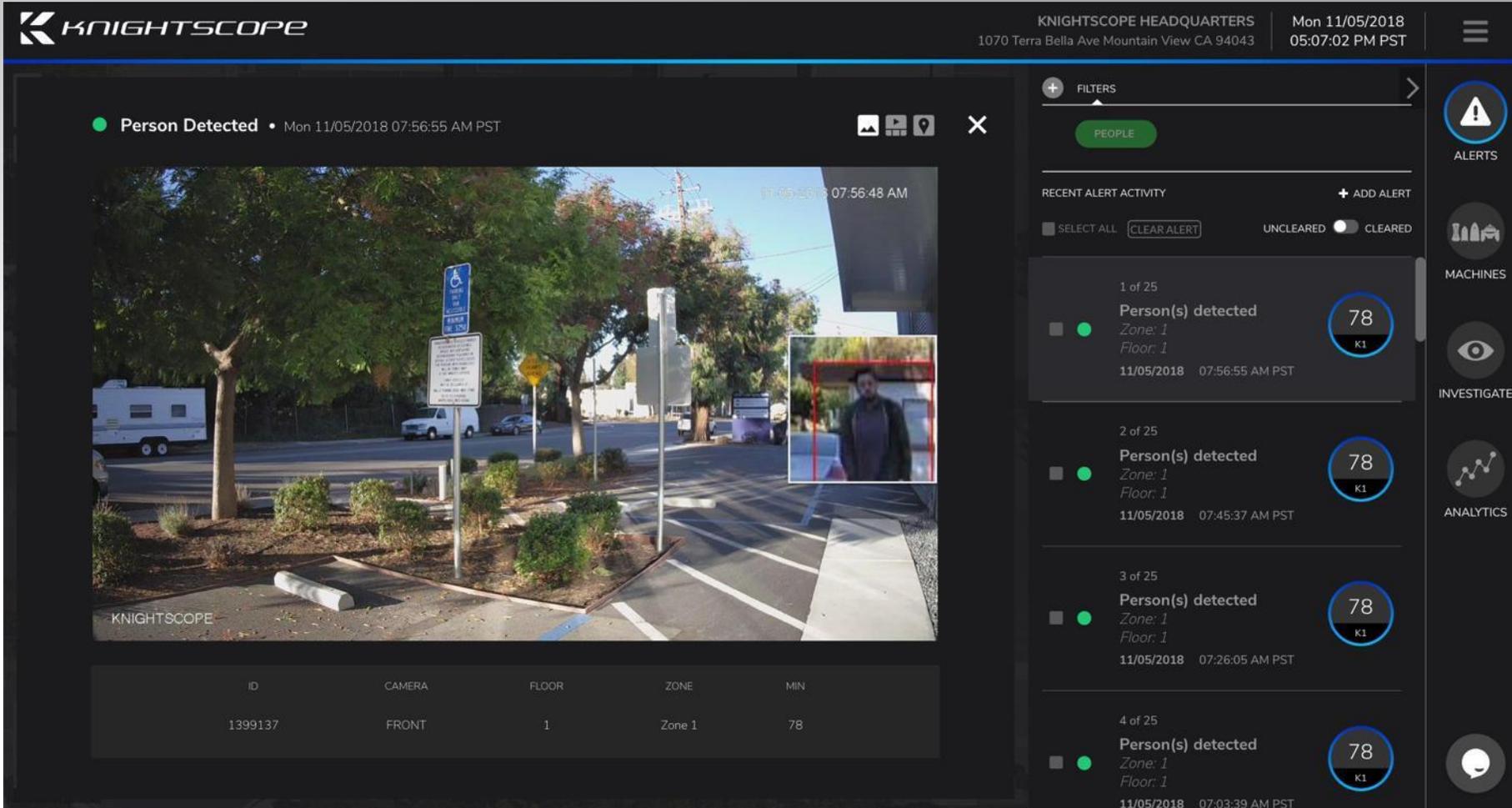
Alerts

Knightscope gives you multiple ways to receive alerts and messages to keep your security team engaged and aware of incidents:

- Text message
- Email notification
- Alert through computer or tablet
- Text to phone call
- Alert in KSOC application
- To one or multiple recipients



People Detection



Person Detected • Mon 11/05/2018 07:56:55 AM PST

11-05-2018 07:56:48 AM

ID	CAMERA	FLOOR	ZONE	MIN
1399137	FRONT	1	Zone 1	78

Filters: PEOPLE

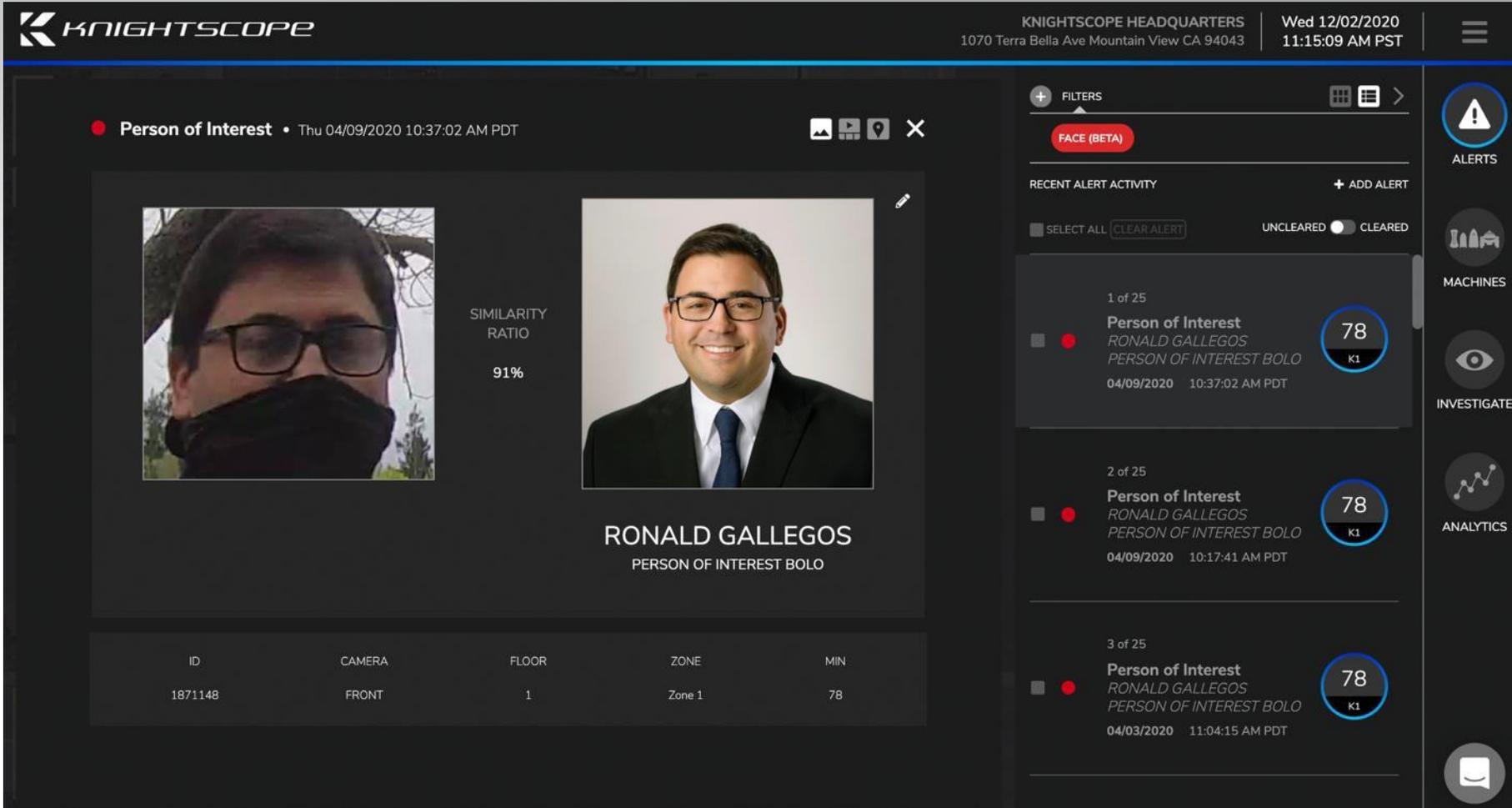
Recent Alert Activity: + ADD ALERT

SELECT ALL UNCLEARED CLEARED

- 1 of 25
Person(s) detected
Zone: 1
Floor: 1
11/05/2018 07:56:55 AM PST
78 K1
- 2 of 25
Person(s) detected
Zone: 1
Floor: 1
11/05/2018 07:45:37 AM PST
78 K1
- 3 of 25
Person(s) detected
Zone: 1
Floor: 1
11/05/2018 07:26:05 AM PST
78 K1
- 4 of 25
Person(s) detected
Zone: 1
Floor: 1
11/05/2018 07:03:39 AM PST
78 K1

- Unauthorized individuals in secured areas
- Suspicious persons after hours
- Trespassers or criminal activity
- Positive identification capture

Facial Recognition



KNIGHTSCOPE KNIGHTSCOPE HEADQUARTERS 1070 Terra Bella Ave Mountain View CA 94043 Wed 12/02/2020 11:15:09 AM PST

Person of Interest • Thu 04/09/2020 10:37:02 AM PDT

Person of Interest
SIMILARITY RATIO
91%

RONALD GALLEGOS
PERSON OF INTEREST BOLO

ID	CAMERA	FLOOR	ZONE	MIN
1871148	FRONT	1	Zone 1	78

FILTERS
FACE (BETA)

RECENT ALERT ACTIVITY + ADD ALERT

SELECT ALL CLEAR ALERT UNCLEARED CLEARED

1 of 25
Person of Interest
RONALD GALLEGOS
PERSON OF INTEREST BOLO
04/09/2020 10:37:02 AM PDT 78 K1

2 of 25
Person of Interest
RONALD GALLEGOS
PERSON OF INTEREST BOLO
04/09/2020 10:17:41 AM PDT 78 K1

3 of 25
Person of Interest
RONALD GALLEGOS
PERSON OF INTEREST BOLO
04/03/2020 11:04:15 AM PDT 78 K1

ALERTS MACHINES INVESTIGATE ANALYTICS

- Eye-level video surveillance coverage
- Greater facial recognition accuracy
- Escalating alerts for persons of interest

Elevated Body Temperature (EBT) Detection



Elevated Body Temperature • Mon 10/26/2020 03:00:31 PM PDT

1 of 25
Elevated Body Temperature
100.93F
Zone: Front building
Floor: 0
10/26/2020 04:03:36 PM PDT

2 of 25
Elevated Body Temperature
101.67F
Zone: Front building
Floor: 0
10/26/2020 03:00:31 PM PDT

3 of 25
Elevated Body Temperature
102.84F
Zone: Front building
Floor: 0

FILTERS
NO FILTERS SELECTED
RECENT ALERT ACTIVITY
SELECT ALL CLEAR ALERT UNCLEARED CLEARED
ADD ALERT

ALERTS
MACHINES
INVESTIGATE
ANALYTICS

- Detecting any person entering an area who has an Elevated Body Temperature (EBT) over 100.4 degrees
- Alerting via email, text, KSOC or one-way audio-to-text phone call

Automatic License Plate Recognition (ALPR)



KNIGHTSCOPE HEADQUARTERS
1070 Terra Bella Ave Mountain View CA 94043
Mon 11/05/2018 06:34:27 PM PST

Plate Detected • Mon 11/05/2018 12:44:08 PM PST

Nov/05/2018 12:44:05

6FCT959

RECENT ALERT ACTIVITY

Count	Alert Type	Plate	Date	Time
12	Blacklisted Plate	6FCT959	11/05/2018	12:54:27 PM PST
12	Blacklisted Plate	6FCT959	11/05/2018	12:49:22 PM PST
12	Blacklisted Plate	6FCT959	11/05/2018	12:44:08 PM PST
12	Blacklisted Plate	6FCT959	11/05/2018	12:38:20 PM PST

PLATE	CAMERA	FLOOR	ZONE	MIN	CONFIDENCE
6FCT959	LEFT	1	Zone 2	12	100%

- Protect employees from domestic abusers
- Mark suspicious vehicles
- Track terminated employees returning
- Police BOLO alerts for vehicles & plates

Parking Meter

KNIGHTSCOPE KNIGHTSCOPE HEADQUARTERS 1070 Terra Bella Ave Mountain View CA 94043 Wed 12/12/2018 03:52:48 PM MST

● **Plate Detected** • Sun 12/09/2018 09:19:40 PM MST

Dec/09/2018 21:19:29



PLATE	CAMERA	FLOOR	ZONE	MIN	CONFIDENCE
CVM749	LEFT	8	Zone 1	64	91.74%

FILTERS
NO FILTERS SELECTED

RECENT ALERT ACTIVITY + ADD ALERT

SELECT ALL CLEAR ALERT UNCLEARED CLEARED

- 1 of 25
Parking Meter Violation
Plate: CVM749
Reason: Vehicle has been parked for over 24H
12/09/2018 09:19:40 PM MST
- 2 of 25
Parking Meter Violation
Plate: 8JW6523
Reason: Vehicle has been parked for over 24H
12/09/2018 04:22:51 PM MST
- 3 of 25
Parking Meter Violation
Plate: E0F276
Reason: Vehicle has been parked for over 24H
12/09/2018 04:20:55 PM MST
- 4 of 25

ALERTS
MACHINES
INVESTIGATE
ANALYTICS

- Parking violations or abuses
- Suspicious or abandoned vehicles

PLATES - PARKING METER - TOP 10

Zone 2 12/12/2018

PLATE	DURATION
5FEJ899	05:12:49
5FEL899	05:02:43
8AIS067	04:50:34
8A1S067	04:33:05
7XLA939	04:13:02
6FCT959	03:10:57
5FE899	02:33:06
84IS067	01:56:03
8A7S067	01:03:22
6FCT959	00:38:17

12
Design Spaces - Coworking Office
Terms of Use Report a map error

Thermal Detection



KNIGHTSCOPE HEADQUARTERS
1070 Terra Bella Ave Mountain View CA 94043
Mon 11/05/2018 06:32:46 PM PST

Thermal Detected • Wed 10/24/2018 11:47:26 PM PDT

FILTERS
THERMAL

RECENT ALERT ACTIVITY + ADD ALERT
SELECT ALL CLEAR ALERT UNCLEARED CLEARED

High Temp 10/25/2018 04:31:20 AM PDT K1

15 of 25
High Temp - 313 F
Temp: 313 F
High Temp 53:08 PM PDT K1

205 F 47:26 PM PDT K1

316 F 46:02 PM PDT K5

273 F

ID	TEMPERATURE	FLOOR
1387497	205	1

ALERTS
MACHINES
INVESTIGATE
ANALYTICS

- Early fire & anomaly detection
- Unauthorized individuals or vehicles in restricted areas
- Suspicious persons and/or vehicles after hours
- Trespassers or criminal activity

Advanced Signal Detection



KNIGHTSCOPE KNIGHTSCOPE HEADQUARTERS 1070 Terra Bella Ave Mountain View CA 94043 Wed 11/07/2018 04:39:28 PM PST

Signal Detected • Wed 11/07/2018 04:39:28 PM PST

DEVICE INFO

ID	62308
NAME	Urja Patel
LISTING	BLACKLIST
ADDRESS	70:14:A6:4D:5F:0B
TYPE	LIKELY MOBILE DEVICE
MANUFACTURER	APPLE, INC.
FIRST VISIT	11/17/17 08:46:53 AM
LAST VISIT	11/07/18 16:38:02 PM

DEVICE VISIT HISTORY DEVICE LISTING HISTORY

MIN	START	END	DWELL
30	11/07/18 09:10:35 AM PST	11/07/18 04:38:02 PM PST	07:27:27
78	11/07/18 08:29:48 AM PST	11/07/18 02:18:08 PM PST	05:48:20
12	11/07/18 08:29:37 AM PST	11/07/18 01:48:44 PM PST	05:19:07
78	11/06/18 12:20:27 PM PST	11/06/18 05:19:31 PM PST	04:59:04
12	11/06/18 11:31:15 AM PST	11/06/18 05:20:15 PM PST	05:49:00
30	11/06/18 10:07:35 AM PST	11/06/18 05:18:38 PM PST	07:11:03
30	11/05/18 08:52:33 AM PST	11/05/18 03:04:44 PM PST	06:12:11
12	11/05/18 08:26:45 AM PST	11/05/18 03:07:12 PM PST	06:40:27
78	11/05/18 08:26:35 AM PST	11/05/18 03:06:20 PM PST	06:39:45

RECENT ALERT ACTIVITY

SELECT ALL CLEAR ALERT UNCLEARED CLEARED

- 1 of 25
Blacklisted MAC Address
Urja Patel
Blacklisted MAC Address
11/07/2018 09:12:01 AM PST (30 K3)
- 2 of 25
Blacklisted MAC Address
Urja Patel
Blacklisted MAC Address
11/07/2018 08:31:01 AM PST (12 K5)
- 3 of 25
Blacklisted MAC Address
Urja Patel
Blacklisted MAC Address
11/07/2018 08:31:01 AM PST (78 K1)
- 4 of 25
Blacklisted MAC Address
Urja Patel
Blacklisted MAC Address
11/06/2018 12:22:01 PM PST (78 K1)

90+ % of adults have smartphones and use Wi-Fi when available

- Suspicious packages (device inside)
- Unauthorized device in secure areas
- Workplace violence threats
- Positive identification capture

Broadcast and Intercom



KNIGHTSCOPE HEADQUARTERS
1070 Terra Bella Ave Mountain View CA 94043
Tue 11/06/2018 05:50:02 PM PST

MIN 12 • PATROLLING

Nov 06/2018 17:49:51

Front - Live

Left - Live

Rear - Live

Right - Live

Tue 11/06/2018

05:48:00 PM 05:49:00 PM 05:50:00 PM 05:51:00 PM 05:52:00 PM 05:54:00 PM

PATROL SCHEDULER

MIN12 - K5
PATROLLING
PATH 1, ZONE 2

12
K5

PATROL STOP PARK

ALARM PATROL SOUND

LIVE AUDIO

INTERCOM KSOC -> MIN

CALL INTERCOM READY

BROADCAST PRE-RECORDED CUSTOM

SELECT MESSAGE

MIN 12

BROADCAST

MIN30 - K3
CHARGING
PATH 1, K1Q INDOORS

30
K3

MIN78 - K1
MONITORING
ZONE 1

78
K1

PATROL SCHEDULER

MIN12 - K5
PATROLLING
PATH 2, ZONE 2

12
K5

PATROL STOP PARK

ALARM PATROL SOUND

LIVE AUDIO

INTERCOM KSOC -> MIN

CALL INTERCOM READY

BROADCAST PRE-RECORDED CUSTOM

SELECT MESSAGE

MIN 12

BROADCAST

ALERTS

MACHINES

INVESTIGATE

ANALYTICS

- Live two-way intercom
- Live audio & live broadcast
- Pre-recorded messages based on time, location or event

SELECT MESSAGE

Knightscope

Our twitter handle is @knightscope
Learn more about us
In case you are wondering, I am security robot

Greeting

- Good morning
- Good afternoon
- Good evening
- Hello
- Hi
- Good day to you
- Excuse me!
- Pardon me!

Emergency

- Step away from the machine
- Step away from the machine now
- Seriously step away
- 5.4.3.2.1
- Authorities have been notified

Custom

- Welcome DJ

Activity-Based Investigation



KNIGHTSCOPE SHOWROOM NYC
501 Lexington Ave New York, NY 10017
Wed 11/07/2018
01:37:27 PM EST

SELECT FILTERS
TIME RANGE MACHINE PEOPLE PLATES THERMAL SIGNAL BADGE GO

SELECTED FILTERS
11/07/2018 01:07 PM - 11/07/2018 01:37 PM EST MIN58 MIN71 MIN77

887 DETECTIONS DURING 29 MINUTE TIMESPAN
Click a detection to further investigate that minute

01:10 PM 01:20 PM 01:30 PM

22 / 22 DETECTIONS DURING 11/07/2018 01:20:00 PM - 11/07/2018 01:20:59 PM EST

#	TYPE	TIME	ID	MIN	FLOOR	ZONE	DETAIL
1	SIGNAL	01:20:04 PM EST	126771287	MIN58	N/A	N/A	42:AB:BA:DD:49:67
2	THERMAL	01:20:12 PM EST	53473347	MIN58	F 1	ZONE 1	100 F
3	SIGNAL	01:20:14 PM EST	126771302	MIN58	N/A	N/A	BA:5B:12:17:02:B5
4	THERMAL	01:20:24 PM EST	53473349	MIN58	F 1	ZONE 1	111 F
5	SIGNAL	01:20:24 PM EST	96413403	MIN58	N/A	N/A	00:1A:DD:02:E2:64
6	SIGNAL	01:20:29 PM EST	96414226	MIN58	N/A	N/A	44:65:0D:0B:3C:14

DETAILS VIDEO

The investigate page allows KSOC users to access forensics the robot has gathered by letting them filtering alerts by the following categories:

- Time Range
- Machine
- Alert Type

Location-Based Investigation



Focus on alerts in a given location based on time, type of alert, and more.

The screenshot displays the KnightScope interface for location-based investigation. At the top left, the KnightScope logo is visible. The main header shows the date and time: "Fri 10/16/2020 01:34:30 PM PDT". Below the header, a timeline shows "7 DETECTIONS FROM 10/16 5:33 AM - 10/16 1:33 PM PDT" with a "Click a detection to further investigate that hour" instruction. The timeline has markers for 07:00 AM, 07:30 AM, 08:00 AM, 08:30 AM, 09:00 AM, 09:30 AM, 10:00 AM, 10:30 AM, 11:00 AM, 11:30 AM, 12:00 PM, 12:30 PM, and 01:00 PM. A map of San Francisco is shown with a polygon search area drawn around a location. The map includes various business markers like "iCracked HQ", "Swinton", "The Beacon", "Tender Greens", "Starbucks", "Chase Bank", and "UCSF Primary Care". A "Location Based Search" panel is overlaid on the map, providing instructions: "Use polygon tool to draw an area to start. Click to reset." The right sidebar contains several filter sections: "SELECT FILTERS" with a "TIME RANGE" dropdown; "SELECT TIME RANGE:" with radio buttons for "PAST 10 MINUTES", "PAST 30 MINUTES", "PAST 1 HOUR", "PAST 8 HOURS" (selected), and "PAST 24 HOURS"; "CUSTOM" option; "SEARCH BY LOCATION" with a checked "APPLY LOCATION FILTERS" and a "SAVE LOCATION & QUIT" button; "ALERT" section with "SHOW ALERTS ONLY FOR:" checkboxes for "PEOPLE" (checked), "PLATES", "THERMAL", and "SIGNAL"; and a "PEOPLE (alerts only)" filter at the bottom. The bottom right corner has icons for "ALERTS", "MACHINES", "INVESTIGATE", and "ANALYTICS".

Analytics



The analytics page displays data gathered by the ASR in simple graphical and tabular form:

- Top 10 plates (Parking Meter)
- Top 10 signals
- Device statistics
- Machine usage
- LTE usage

AUTONOMOUS SECURITY



Force Multiplying
Physical Deterrence



360 Degree HD
Video Streaming



People
Detection



Facial
Recognition



Automatic License
Plate Recognition



Parking Meter



Thermal Anomaly
Detection



Elevated Body Temp
(EBT) Detection



Automatic Signal
Detection



Live Audio
Broadcast



Two-Way
Intercom



Pre-Recorded
Broadcast Messages



Call Button



24/7 Monitoring



Analytics



Investigate

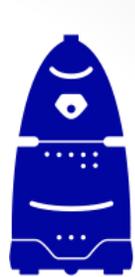


Patrol
Scheduler



Autonomous
Charging

Knightscope Integrated Weekly Coverage



296

HOURS PER WEEK

Traditional Guard Weekly Coverage



168

HOURS PER WEEK

Save money while getting more hours of coverage with our Autonomous Security Robots

	Human Manned Guarding	Autonomous Security
National Hourly Rate	\$12.39	\$6 - \$12
Benefit Burden (25%)	\$3.10	NA
Company Overhead	\$1.25	Included
Company Profit	\$0.87	Included
Hourly Rate	\$17.50	\$6 - \$12
Employee Turnover Rate	Up to 400%	0%
Easy to Recruit	No	Yes
Always Trained and on Time	No	Yes
Always on Best Behavior and Attitude	No	Yes
Follows Orders Consistently	No	Yes
Advanced Detection Capabilities	No	Yes
Improves Capabilities Over Time	No	Yes
Hours Available per Week	40	168
24/7 Monthly Cost	\$14,800	\$4,500 - \$8,300

Weekly Cost Comparison



Security Guards

- Coverage: One post
- 24/7/365 = 168 Hours per week
- Average hourly bill rate: \$22.00
- Weekly cost: \$3,696.00



Mobile K5 Robot

- Coverage: 1 Post
- 24/7/365 = 168 Hours per week
- Hourly Cost: \$6.85
- Weekly Cost: \$1,152.88



Stationary K1 Robot

- Coverage: 1 Post
- 24/7/365 = 168 Hours per week
- Hourly Cost: \$2.79
- Weekly Cost: \$470.19

AUTONOMOUS SECURITY



mil-specsecurity.com

GEORGE REPPERT

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