

SMART VISION AI

IP67 CERTIFIED



PEDESTRIAN &
FORKLIFT DETECTION



IMPACT ALERTS
WITH VIDEOS



SMART
START



DRIVER MONITORING
SYSTEM



REMOTE
ACCESS



STORAGE
MEDIA



WI-FI & CELLULAR
CONNECTIVITY



INSTALLATION





PEDESTRIAN & FORKLIFT DETECTION



PEDESTRIAN &
VEHICLE DETECTION

CUSTOMIZABLE ALERTS

DRIVER VIEW WITH A STACK WARNING LIGHT AND OPERATIONAL BUZZER ALARM.



ZONE 3
TRIGGERED



ZONE 2
TRIGGERED



ZONE 1
TRIGGERED



25 FEET





PEDESTRIAN &
FORKLIFT DETECTION

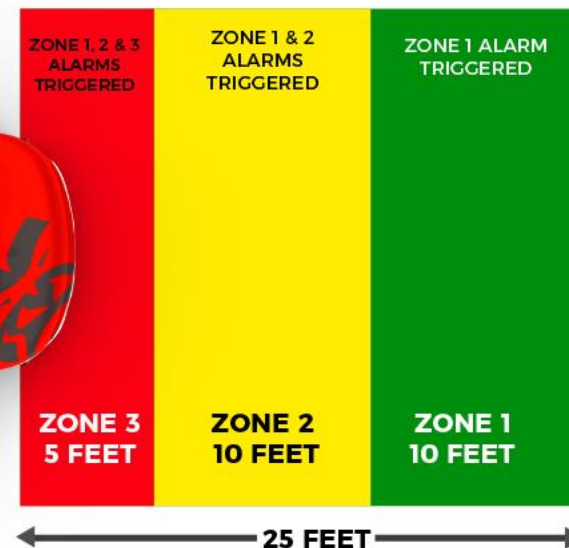
CUSTOMIZABLE ALERTS

EACH ZONE CAN HAVE ITS OWN UNIQUE
PEDESTRIAN WARNING DEVICE.
EACH ZONE CAN BE TRIGGERED AND
PEDESTRIANS WARNING ALERT SET
INDEPENDENTLY.

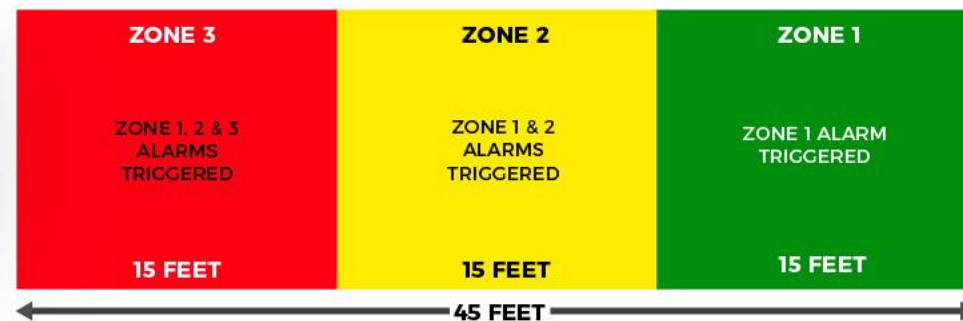


CAMERA
MOUNT SPOT

ADJUSTABLE ZONE AREAS



ADJUSTABLE ZONE AREAS





OPERATOR VIEW MONITOR

**GREEN ZONE WARNING ACTIVATED:
BRIGHT LIGHT APPEARING IN FRONT OF PEDESTRIAN.**

**YELLOW ZONE WARNING ACTIVATED:
STROBE LIGHT AND AUDIBLE ALARM WARNING**

**RED ZONE WARNING ACTIVATED:
LOUDER AUDIBLE ALARM WARNING**





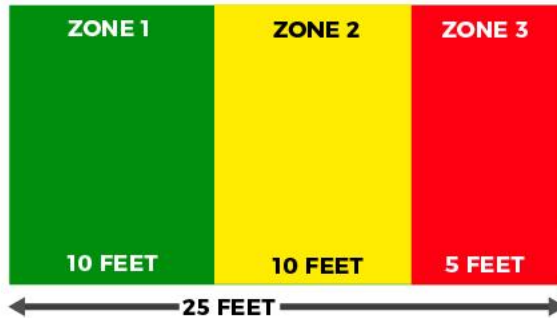
PEDESTRIAN &
FORKLIFT DETECTION

360° CAMERAS

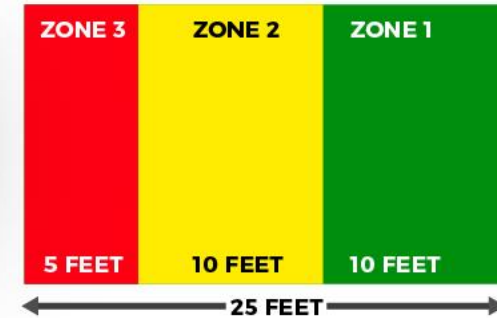
EACH COMMAND CENTER CAN BE EQUIPPED WITH UP TO 4 AI CAMERAS AS WELL AS AN ADDITIONAL 4 IP CAMERAS, ENSURING MAXIMUM COVERAGE AND PEDESTRIAN DETECTION. EACH AI CAMERA HAS A COVERAGE OF UP TO 25 FEET, IN WHICH 3 UNIQUE ZONES CAN BE CREATED AND CONFIGURED VIA THE TRIGGER ALERT SYSTEM, TO SEND AUDIBLE OR OPTICAL WARNINGS TO THE PEDESTRIAN.



ADJUSTABLE ZONE AREAS



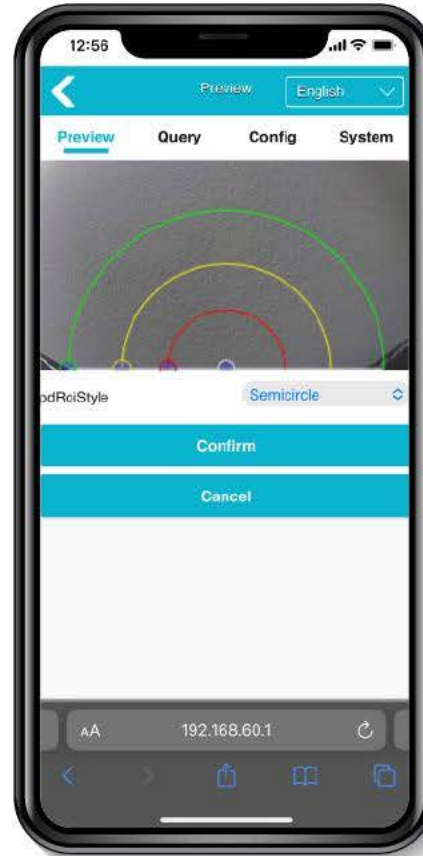
ADJUSTABLE ZONE AREAS



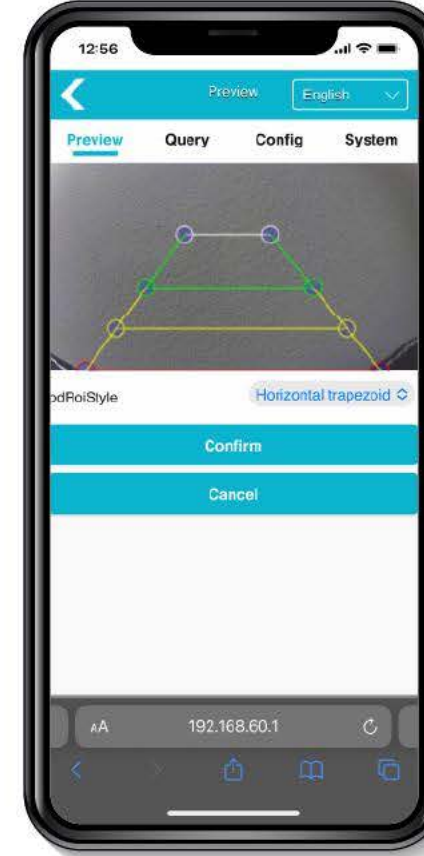
- EASY AND SECURE CONNECTION WITH ANY PC, ANDROID/IOS,
- YOU CAN: CALIBRATE RESPECTIVE ZONE COVERAGE AREAS, CHANGE ZONE COVERAGE SHAPE,
- AND MANY OTHER SETTINGS.

IMPORTANT NOTE ABOUT PEDESTRIAN DETECTION:

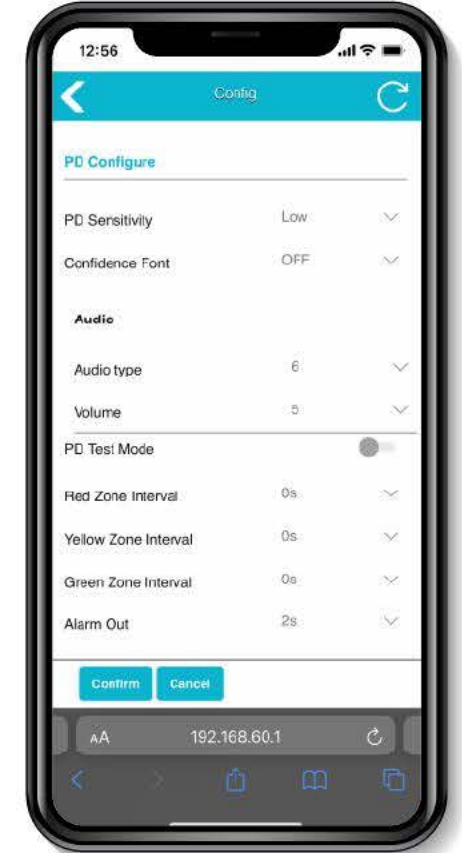
- DVR IS NOT REQUIRED TO ENABLE JUST THE PEDESTRIAN DETECTION AND ALERTS. THE AI CAMERA CAN BE EASILY CONFIGURED USING ANY BROWSER ON ANY DEVICE.
- EACH AI CAMERA CAN TRIGGER 3 SEPARATE AND UNIQUE WARNING AREAS.



ZONE CALIBRATION
SEMICIRCLE STYLE



ZONE CALIBRATION
HORIZONTAL STYLE



OTHER SETTINGS

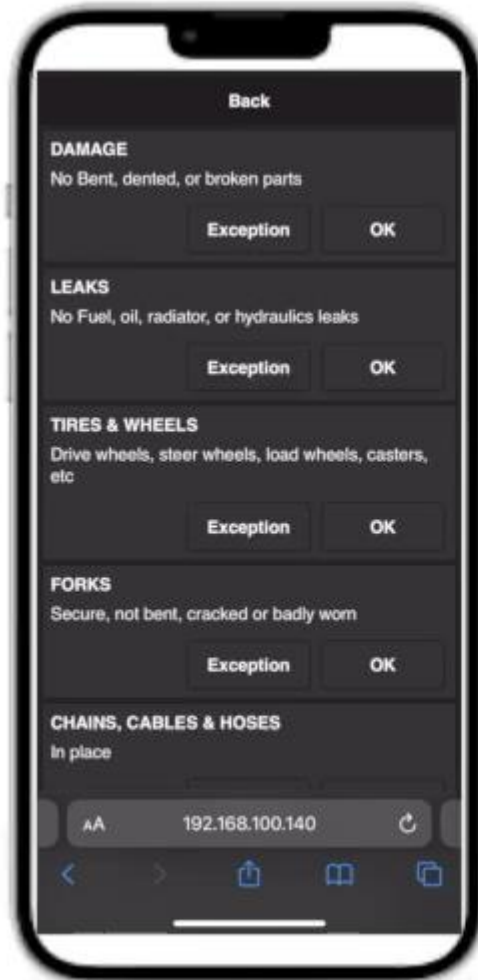


**SMART
START**

IF DESIRED, YOU CAN CREATE YOUR OWN UNIQUE DRIVERS OPERATIONAL CHECKLIST. CONSISTING OF UP TO 20 QUESTIONS THAT MUST BE ANSWERED BY THE OPERATOR, WHO SIGNS INTO THE DVR WITH THEIR OWN UNIQUE ID AND PASSWORD. USER CONFIGURED AS TO HOW AND HOW OFTEN A CHECKLIST MUST BE COMPLETED: EVERY DAY, EVERY 8 HOURS, EVERY 12 HOURS.....



ONCE CHECKLIST IS COMPLETED, THE TRUCK WILL START, AND THE COMPLETED CHECKLIST WILL BE SENT VIA EMAIL TO MANAGEMENT FOR RECORD RETENTION ON YOUR SERVERS OR OURS.



USING WEB BROWSER



USING TOUCH MONITOR



SMART
START

EXAMPLE OF A CUSTOMIZED CHECKLIST

EMAIL NOTIFICATIONS

Smart Vision System
Checklist Notification

Hi Admin,

A Checklist has been completed for Chicago warehouse forklift ID:2104260352 at 2022-12-12 08:12:54 device time.

LOGIN

Department	Operator	Checklist
Chicago Warehouse	Mark	Forklift Safety Checklist

DAMAGE - OK
No Bent, dented, or broken parts

LEAKS - EXCEPTION
No Fuel, oil, radiator, or hydraulics leaks
Note: Oil leaking on floor

TIRES & WHEELS - OK
Drive wheels, steer wheels, load wheels, casters, etc

FORKS - OK
Secure, not bent, cracked or badly worn

CHAINS, CABLES & HOSES - OK
In place

BATTERY - OK
Battery cable and connector condition. Cable routing (not outside of truck). Battery retainer securely in place.

GUARDS - OK
All guards in place and condition. Overhead, load backrest, etc. Gates and side rails (SP & Turret Models)

PDF SAVED IN A DESIGNATED SERVER

Toronto Warehouse

Plate: Forklift 1	Operator: Ace Ventura	Date: 8 July, 2022	Time: 8:00 AM
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QUESTIONS	EXCEPTION	OK
DAMAGE Bent, dented or broken parts NOTE:		✓
LEAKS Fuel, oil, radiator, hydraulics NOTE:		✓
TIRES & WHEELS Drive wheels, steer wheels, load wheels, casters, etc. NOTE: Right front tire is damaged. Need to replace	X	
FORKS Secure, not bent, cracked or badly worn NOTE:		✓
CHAINS, CABLES & HOSES In place NOTE:		✓
BATTERY Battery cable and connector condition. Cable routing (not outside of truck). Battery retainer securely in place. NOTE:		✓
GUARDS All guards in place and condition. Overhead, load backrest, etc. Gates and side rails (SP & Turret Models) NOTE:		✓
MECHANICAL SAFETY DEVICES Operator harness or seat belt, fire extinguisher, name/data plate, warning labels, etc. in good condition. NOTE:		✓
OPERATOR COMPARTMENT/CONTROLS All controls, steer tiller, pedals, etc. in good condition. Seat locks in position. NOTE:		✓

1 / 1

- COMPANY NAME
- DEPARTMENT NAME
- CHECKLIST NAME
- FORKLIFT PLATE
- OPERATOR NAME
- DATE OF CHECKLIST COMPLETION
- ANSWERED QUESTIONS WITH NOTES



IMPACT ALERTS WITH VIDEOS



IMPACT ALERTS
WITH VIDEOS

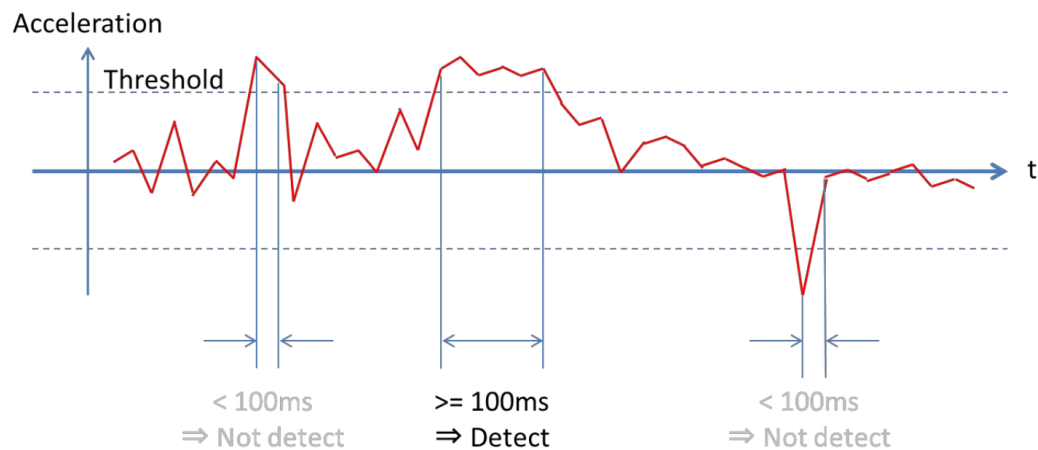
INTEGRATED G-FORCE & ALERTS

G-FORCE ALERT TRIGGERS:

- ACCIDENTS
- AGGRESSIVE ACCELERATING
- HARSH BRAKING
- DANGEROUS MANEUVERING
- EXCESSIVE IDLING

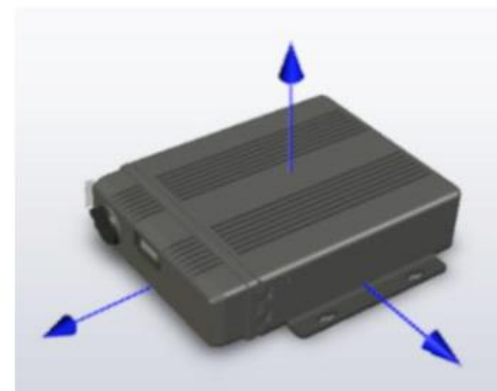


$$\text{abs}(X) + \text{abs}(Y) + \text{abs}(Z) * \text{Filter}$$



X-axis (the side with LED light)

Z-axis (in vertical upward direction)



Y-axis (the side without lock)



IMPACT ALERTS WITH VIDEOS

SMART ALERT EXAMPLES

THE SYSTEM WILL RECORD VIDEO FOOTAGE OF EVENTS THAT HAVE CAUSED A TRIGGER. THE DURATION IS CONFIGURABLE, SUCH AS TEN SECONDS BEFORE THE EVENT AND TEN AFTER THE EVENT. THE SYSTEM WILL SEND AN ALERT VIA EMAIL AND/OR WHATSAPP.



1

HARSH BRAKING

THE SYSTEM WILL SEND
AN ALERT EMAIL WHEN EVENTS OCCUR.





IMPACT ALERTS WITH VIDEOS

SMART ALERT EXAMPLES

THE SYSTEM WILL RECORD VIDEO FOOTAGE OF EVENTS THAT HAVE CAUSED A TRIGGER. THE DURATION IS CONFIGURABLE, SUCH AS TEN SECONDS BEFORE THE EVENT AND TEN AFTER THE EVENT. THE SYSTEM WILL SEND AN ALERT VIA EMAIL AND/OR WHATSAPP.



1

HARSH BRAKING

2

DANGEROUS MANEUVERING

THE SYSTEM WILL SEND
AN ALERT EMAIL WHEN EVENTS OCCUR.





IMPACT ALERTS WITH VIDEOS

SMART ALERT EXAMPLES

THE SYSTEM WILL RECORD VIDEO FOOTAGE OF EVENTS THAT HAVE CAUSED A TRIGGER. THE DURATION IS CONFIGURABLE, SUCH AS TEN SECONDS BEFORE THE EVENT AND TEN AFTER THE EVENT. THE SYSTEM WILL SEND AN ALERT VIA EMAIL AND/OR WHATSAPP.



- 1 HARSH BRAKING
- 2 DANGEROUS MANEUVERING
- 3 AGGRESSIVE ACCELERATING

THE SYSTEM WILL SEND
AN ALERT EMAIL WHEN EVENTS OCCUR.





DRIVER MONITOR SYSTEM



DRIVER MONITOR SYSTEM MONITOR THE OPERATOR AND SEND ALERT NOTIFICATION TO THE MANAGEMENT WHEN UNSAFE BEHAVIORS INCUR.



FATIGUE
DETECTION



NO MASK
DETECTION



SMOKING
DETECTION



DISTRACTION
DETECTION



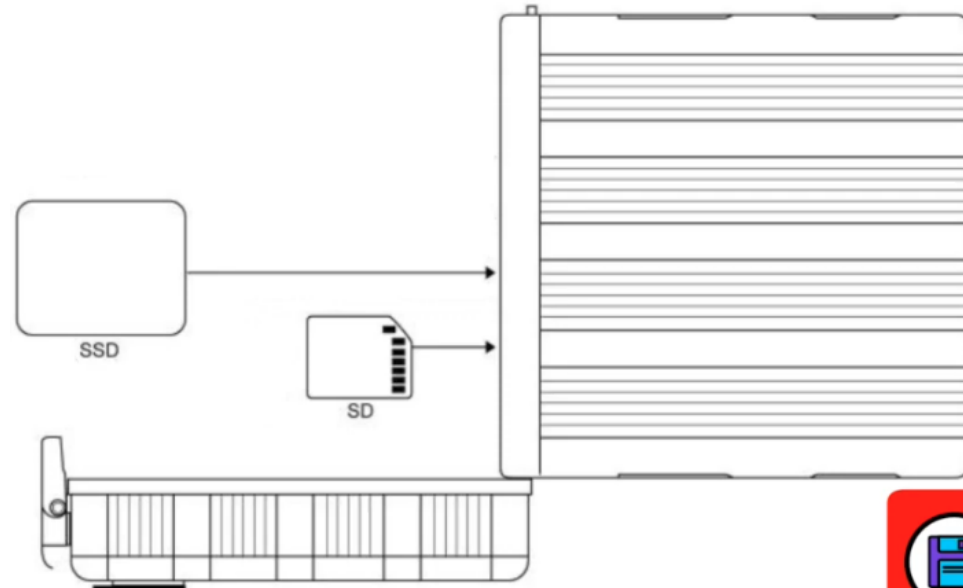
PHONE CALL
DETECTION



**STORAGE
MEDIA**

STORAGE MEDIA

- SD CARD OR SSD UP TO 2TB, SLOTS INSIDE THE COMMAND CENTER FOR WATERPROOF
- 2TB RECORDS IN 1 CAMERA:
 - 1200 HOURS AT 1080P/ 4MBPS (150 SHIFTS/8 HOURS PER SHIFT)
 - 2400 HOURS AT 720P/ 2MBPS (300 SHIFTS/8 HOURS PER SHIFT)
- STORAGE MEDIA STORES:
 - NORMAL VIDEO FOOTAGES
 - EVENT VIDEO FOOTAGES
 - CHECKLIST FILES



MAXIMUM CAPACITY
2 TERABYTE

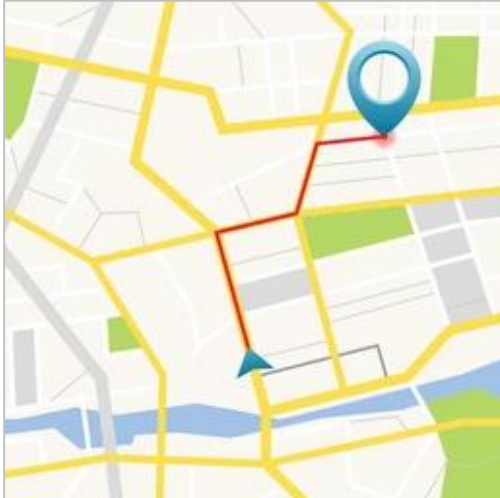


STORAGE MEDIA SD/SSD SLOTS ARE LOCATED ON THE FRONT OF THE DVR. SIMPLY UNLOCK THE TAMPER-RESISTANT ACCESS PANEL WITH THE SUPPLIED KEY.

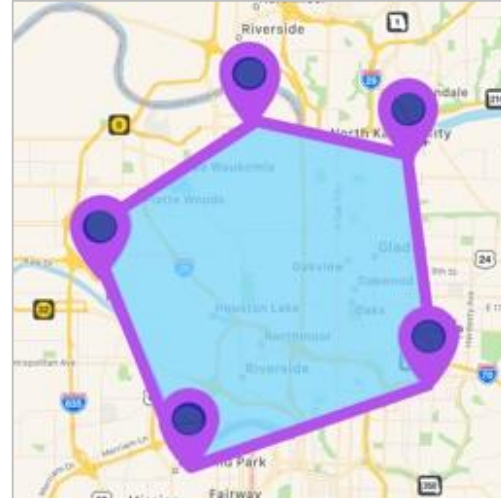
STORAGE MEDIA

- SD CARD OR SSD UP TO 2TB, SLOTS INSIDE THE COMMAND CENTER FOR WATERPROOF
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- STORAGE MEDIA STORES:
 - NORMAL VIDEO FOOTAGES
 - EVENT VIDEO FOOTAGES
 - CHECKLIST FILES





GPS LIVE LOCATION
& GPS HISTORY TRACK



GPS FENCE
& ALERT EMAIL NOTIFICATION



SPEED MONITOR
& ALERT EMAIL NOTIFICATION



REMOTE ACCESS

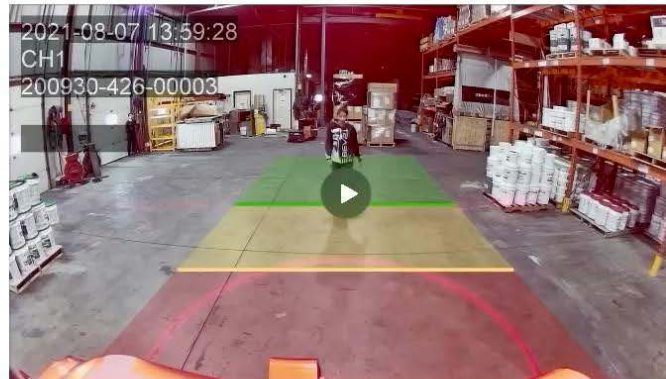


Decelerate

Hi Moe Albader,

An event occurred for Warehouse1 - ID:2301090074 at 2023-04-19 14:26:55 Alert Type: Decelerate.

LOGIN



Screenshot of Alert Video, Ch:1

Longitude:

0.000000

Latitude:

0.000000

GX:

0.000

GY:

0.000

GZ:

0.000

Roll:

nan

Pitch:

nan

Yaw:

nan



SMART
START

WEB APP VIEW FOR CHECKLISTS

VIEW, DOWNLOAD ALL COMPLETED
CHECKLIST FOR EACH DEVICE VIA WEB
APP.

Dashboard

Live View

View Devices

Alert Notifications

Reports

ADMIN SETTINGS

Overview

Clients

Groups

Users

Devices

SERVER SETTINGS

Checklist

System Email Settings

General Settings

Update

DOCUMENTATION

FAQ

Documentation

Support

View Devices

Search by Plate, Device ID, €

GROUP:NEW YORK BRANCH

ID:2104260352
DOCK-5 ON

PSM01-V1 CH:1

ID:2109290078
DOCK-3 ON

PSM01-V1 CH:1

GROUP:LAS VEGAS BRANCH 2

ID:2109290071
FRONT-WARE OFF

PSM01-V1 CH:2

GROUP:VANCOUVER BRANCH

ID:2104260353
WAREHOSUE2 8 ON

PSM01-V1 CH:2 New Alert!

ID:1122334455
FACTORY 1 OFF

PSM01-V1 CH:1

DOCK-5 ID:2104260352 ON

Live View Alerts Sessions Checklist Start Recorded Videos Settings

Show 10 entries

Search:

Copy Excel PDF Print

Device Completed Time	Client ID	Department	Checklist	Operator	Status	Action
2022-12-13 21:22:46	16999	Toronto Warehouse	Forklift Safety Checklist	MOEALBADER	OK	
2022-12-12 16:00:04	16999	Incorrect password	Incorrect password	Incorrect password	-	-
2022-12-12 08:31:13	16999	Toronto Warehouse	Forklift Safety Checklist	TREVOR	Exceptions: 3	
2022-12-12 08:27:54	16999	Toronto Warehouse	Forklift Safety Checklist	DON	Exception: 1	
2022-12-12 08:24:50	16999	Toronto Warehouse	Forklift Safety Checklist	MOEALBADER	OK	
2022-12-12 08:16:48	16999	Toronto Warehouse	Forklift Safety Checklist		Exception: 1	
2022-12-12 08:12:54	16999	Toronto Warehouse	Forklift Safety Checklist	admin	Exception: 1	
2022-12-10 10:04:06	16999	Toronto Warehouse	Forklift Safety Checklist	MOEALBADER	OK	
2022-11-29 18:29:31	16999	Toronto Warehouse	Forklift Safety Checklist	MOEALBADER	OK	
2022-11-29 13:43:09	16999	Toronto Warehouse	Forklift Safety Checklist	MOEALBADER	Exceptions: 2	

Showing 1 to 10 of 44 entries

Prev 1 2 3 4 5 Next



LIVE VIEW



PLAYBACK / DOWNLOAD



ADD UNLIMITED DVRS



ADD UNLIMITED USERS

ADD UNLIMITED
GROUPS

MODIFY EMAIL ALERTS



USER MANAGEMENT



REPORTS

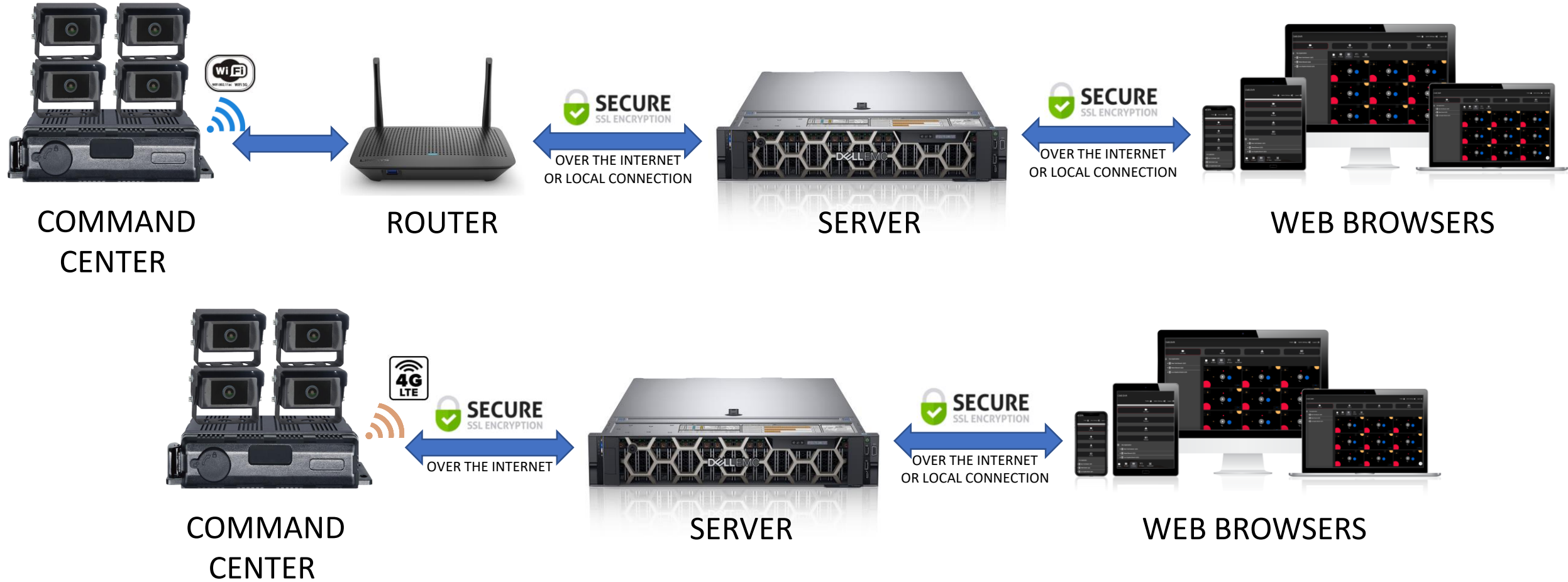


CONFIGURE DVRS



LOCK & ADMIN ACCESS

GPS TRACKING (WITH
COMPATIBLE DVR)CROSS PLATFORM
WEB BASED ACCESS





*SSL CERTIFICATE CAN BE INSTALLED IN ACCESS POINT