



Global Surveillance IOT (*) Platform

(*) INTERNET OF THINGS

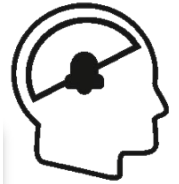
GLOBAL SURVEILLANCE IOT (*) PLATFORM

A NEW GENERATION OF AI POWERED SURVEILLANCE EQUIPMENT USING SENSOR FUSION TECHNOLOGY



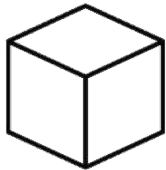
SMART THREAT DETECTION

A **REAL-TIME** REALITY CAPTURE EQUIPMENT THAT USES "**SENSOR FUSION**" TECHNOLOGY: A COMBINATION OF **ADVANCED COMPUTING, IMAGING, MEASUREMENT** AND **LASER** DETECTION TO **DETECT** PHYSICAL CHANGES WITHIN A SPACE AND **ANALYZE** THEM.



OBJECT CLASSIFICATION

AI SOFTWARE PROVIDES SECURITY AND SAFETY PROFESSIONALS WITH A POWERFUL NEW TOOL TO **CLASSIFY** INTRUDERS AS "HUMAN" OR "NON-HUMAN". THIS PROVIDES AN ADDITIONAL LAYER OF DETECTION TECHNOLOGY TO EXISTING SECURITY SYSTEMS AND REDUCES COSTLY **FALSE ALARMS** CAUSED BY ANIMALS, RAIN, TREES SWAYING OR TRASH BLOWING THROUGH THE PROTECTED AREA. THE TECHNOLOGY CAN RECOGNIZE A HUMAN **REGARDLESS OF THE BODY'S POSITION**: WALKING, RUNNING, CRAWLING, SQUATTING OR SITTING.



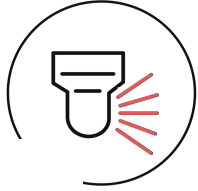
COMPLETE 3D COVERAGE

3D DETECTION INCLUDING IN **TOTAL DARKNESS**
A **360°** HORIZONTAL X **270°** VERTICAL FIELD OF VISION

THE ABILITY TO MONITOR AN **ENTIRE SPACE** OR SET **SPECIFIC AREAS OF INTEREST**, BOTH **INDOORS** AND **OUTDOORS**, FOR SURVEILLANCE USING **3D GEO-LOCATION**.

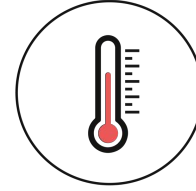
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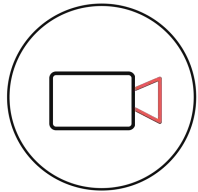
MEASUREMENT & DETECTION WITH LASER

AN INVISIBLE LASER BEAM WITH 360 BY 270 DEGREE COVERAGE CONSTANTLY SCANS THE SPACE WITH HIGH DIMENSIONAL ACCURACY, RESULTING IN REAL-TIME 3D CHANGE DETECTION.



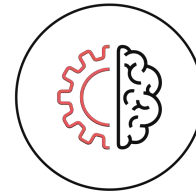
THERMAL SENSOR

FOUR THERMAL CAMERAS MONITOR THE SPACE FOR ALL TEMPERATURE CHANGES.



VIDEO

A TWIN VIDEO CAMERA SYSTEM MONITORS THE SAME AREA AS THE LIDAR SYSTEM, AND INCLUDES ON-BOARD VIDEO SEQUENCE RECORDING.



AI (**) & EDGE COMPUTING

OUR EQUIPMENT USES ONBOARD ASSISTIVE AI AND EDGE COMPUTING TO ANALYZE THE DATA IT GATHERS. IT THEN DISTINGUISHES BETWEEN A THREAT AND A NON-THREAT AND DECIDES WHETHER TO TRIGGER AN ALARM.

(**) ARTIFICIAL INTELLIGENCE

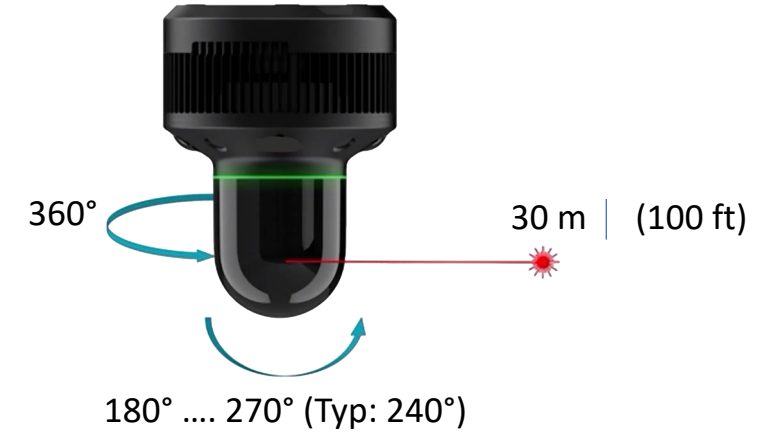
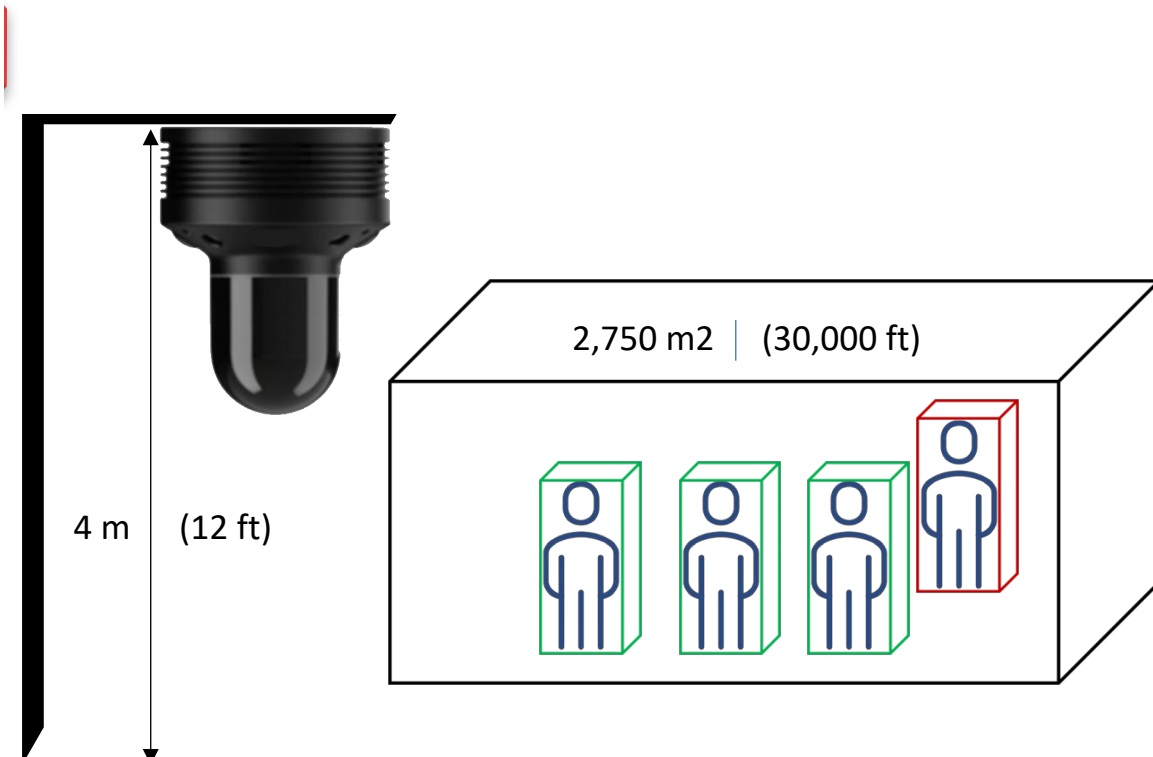
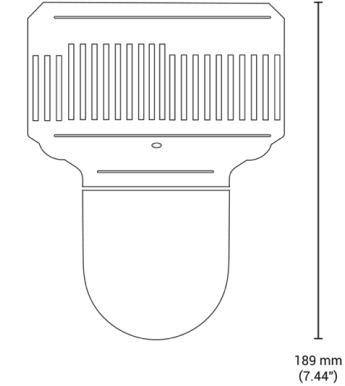
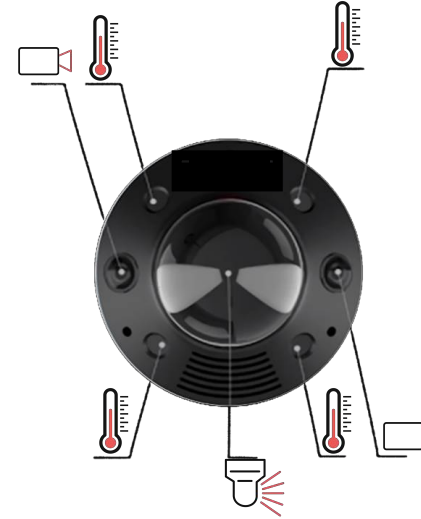
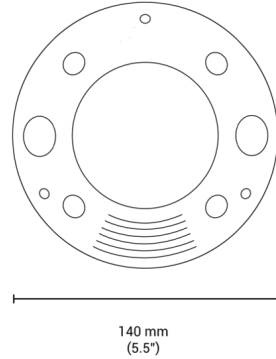
GLOBAL SURVEILLANCE IOT (*) PLATFORM

USING OUR MULTI-SENSOR AND LASER CONNECTED EQUIPMENT

SIZE OF THE IOT(*)

THANKS TO ITS OPTIMIZED SIZE, OUR EQUIPMENT CAN BE DISCREETLY INSTALLED INDOORS OR OUTDOORS TO FORM A NETWORK OF CONNECTED OBJECTS DEDICATED TO SURVEILLANCE.

THE SCANNING SPEED IS "2 SCANS" PER SECOND.



AUTONOMOUS CONFIGURATION AND COVERAGE
EACH EQUIPMENT CAN BE USED INDEPENDENTLY OR IN COMBINATION WITH OTHERS.

PLACED AT A HEIGHT OF 4M, IT ALLOWS TO SCAN A SURFACE OF 2,750 SQM.

GLOBAL SURVEILLANCE IOT (*) PLATFORM

SPECIFICATIONS OF THE MULTI-SENSOR AND LASER CONNECTED EQUIPMENT

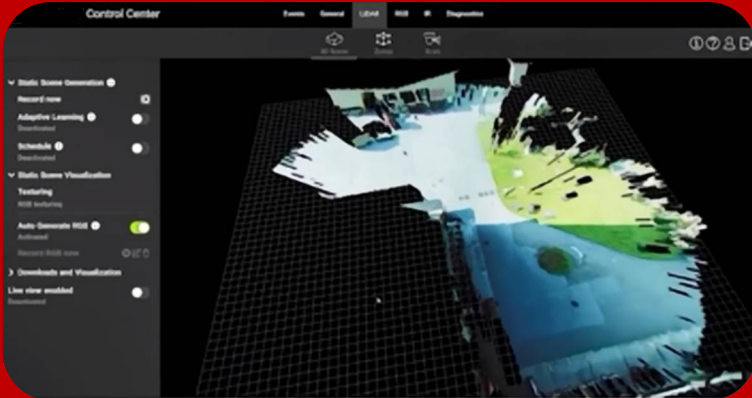
	IoT-x	IoT-i
GENERALITES		
USAGE:	Indoor & outdoor	Indoor
RGB Cameras:	x	x
IR Cameras:	x	-
Laser:	x	x
DESIGN & PHYSICAL		
HOUSING:	black powder coated aluminium	white powder coated aluminium
HEIGHT:	189 mm (7.44 in.)	189 mm (7.44 in.)
WEIGHT:	1460 g (3.218 lbs.)	1380 g (3.042 lbs.)
DIAMETER:		
Bottom part:	140 mm (5.5 in.)	140 mm (5.5 in.)
Lighthouse:	80 mm (3.25 in.)	80 mm (3.25 in.)
ELECTRICAL SPECIFICATION		
POWER SUPPLY:		
Power consumption:	51 W(max)	51 W(max)
Power supply options:	Power over Ethernet (PoE + +); IEEE 802.3bt, Type 3, Class 6	Power over Ethernet (PoE + +); IEEE 802.3bt, Type 3, Class 6
	Power supply over I/O port 48 V DC 1.06 A	Power supply over I/O port 48 V DC 1.06 A
ALARM OUTPUT I/O CONNECTOR:		
	Solid state relay	Solid state relay
	Max. working voltage 40 V DC/AC	Max. working voltage 40 V DC/AC
	Max. switch current at different working voltages: * 5 V: max. 200 mA * 12 V: max. 100 mA * 24 V: max. 50mA	Max. switch current at different working voltages: * 5 V: max. 200 mA * 12 V: max. 100 mA * 24 V: max. 50mA

	IoT-x	IoT-i
RGB IMAGING & VIDEO		
IMAGE SENSOR:	2-camera system, RGB	2-camera system, RGB
TYPE:	Fisheye lens	Fisheye lens
SINGLE CAMERA RESOLUTION:	12 megapixel	12 megapixel
FIELD OF VIEW:	360° x 180° (stitched image)	360° x 180° (stitched image)
STREAM RESOLUTION:	1080p / 720p	1080p / 720p
FRAME RATE:	10/15/20/25/30 fps	10/15/20/25/30 fps
H264 PROFILE:	HIGH / MAIN / BASELINE	HIGH / MAIN / BASELINE
IMAGE ADJUSTMENT:	Auto	Auto
PRIVACY MASKING:	Black/white	Black/white
LASER		
LASER CLASS:	Laser Class 1 (in accordance with IEC 60825-1)	Laser Class 1 (in accordance with IEC 60825-1)
WAVELENGTH:	830 nm	830 nm
FIELD OF VIEW:	360° x 270°	360° x 270°
RANGE:	30 m (98.4 ft.)	30 m (98.4 ft.)
POINT MEASUREMENT RATE:	200,000 pts/s	200,000 pts/s
ACCURACY:	6 - 10 mm (0.24 in. - 0.39 in.)	6 - 10 mm (0.24 in. - 0.39 in.)
ENVIRONMENTAL		
IP RATING:	IP55/65/67	-
OPERATING TEMPERATURE:	x5: -15° C to 40° C (5° F to 104°F)	i5: 10° C to 35° C (50° F to 95°F)
STORAGE TEMPERATURE:	-25° to 70° C (-13° to 158° F)	-25° to 70° C (-13° to 158° F)
HUMIDITY:	Max 95% non-condensing	Max 95% non-condensing
WORKING ALTITUDE:	Unlimited	Unlimited
IR IMAGING & VIDEO		
IMAGE SENSOR:	4-camera system	-
EMMISIVITY:	Adjustable	-
SINGLE CAMERA RESOLUTION:	80 x 64 pixel	-
FIELD OF VIEW:	360° x 136° (stitched image panorama)	-
	88° x 70° (1 single image panorama)	-
MEASURABLE TEMPERATURE RANGE:	-20°C to 1000°C (-4° F to 1832° F)	-
STREAM RESOLUTION:	720 x 480	-
FRAME RATE:	2 fps	-

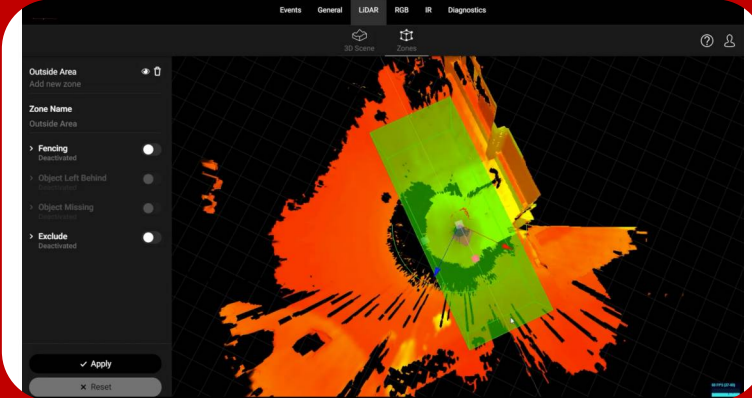
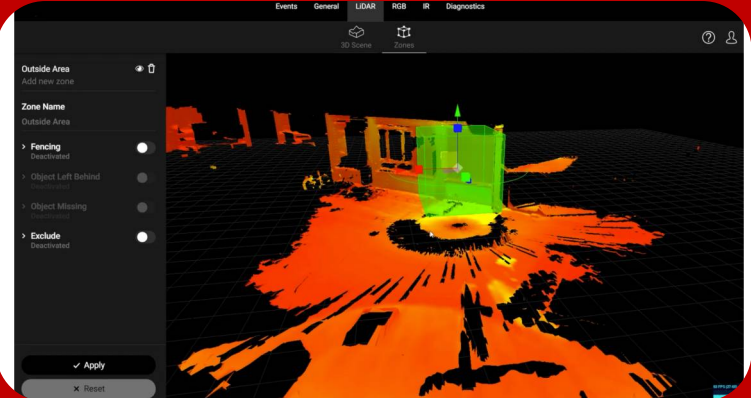
GLOBAL SURVEILLANCE IOT (*) PLATFORM

ACCESS TO THE EMBEDDED "CONTROL CENTER" OF OUR EQUIPMENT, BY SIMPLY CONNECTING TO ITS "IP ADDRESS" ON THE NETWORK.

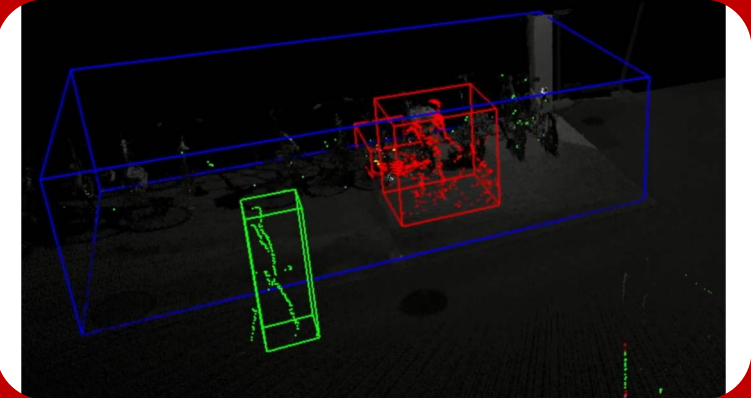
CAPTURING A STATIC SCENE



DEFINING THE 3D ZONE TO CONTROL



MONITORING THE DEFINED ZONE



INCIDENT OR THREAT DETECTION.

GLOBAL SURVEILLANCE IOT (*) PLATFORM

INTEGRATED INTO EXISTING VMS(**), PSIM (***) OR WITH OUR VOLUMETRIC DETECTION SYSTEM TO ENJOY THESE FEATURES:

3D MAPPING

OUR PLATFORM USES 3D DIGITAL CAPTURE OF THE ENVIRONMENT WITH THE ABILITY TO NAVIGATE INSIDE IN AN INTUITIVE MANNER.

IT PROVIDES THE ABILITY TO IMPORT 3D MODELS OF SYSTEMS OR EASILY CREATE A 3D SCENE OF THE SITE USING CAPTURE EQUIPMENT (EXAMPLE: DRONE, ETC.)

IDENTIFICATION OF AUTHORIZED PEOPLE

THE INTELLIGENT SURVEILLANCE SYSTEM CAN DISTINGUISH PEOPLE WITH ACCESS PERMISSION (IN GREEN) TO A CONTROLLED AREA FROM OTHERS (IN RED) BY COUPLING WITH THE ACCESS CONTROL SOLUTION.

IF NECESSARY, IT CAN ACTIVATE AN ALARM.

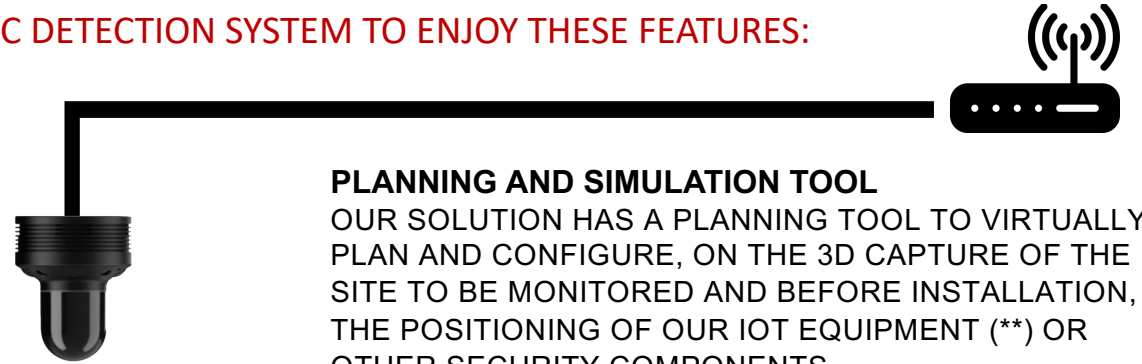
PLANNING AND SIMULATION TOOL

OUR SOLUTION HAS A PLANNING TOOL TO VIRTUALLY PLAN AND CONFIGURE, ON THE 3D CAPTURE OF THE SITE TO BE MONITORED AND BEFORE INSTALLATION, THE POSITIONING OF OUR IOT EQUIPMENT (**) OR OTHER SECURITY COMPONENTS.

IT ALSO ALLOWS TO SIMULATE THE PRESENCE OF AN INTRUDER (VIRTUAL) TO TEST THE ROBUSTNESS OF THE INSTALLATIONS IN A SIMPLE AND INTERACTIVE WAY.

REMOTE AND MOBILE ACCESS

CONTROL THE SECURITY OF YOUR INFRASTRUCTURE OR EQUIPMENT REMOTELY FROM DESKTOP COMPUTERS, LAPTOPS, TABLETS OR MOBILE PHONES.



WLAN
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*) VIDEO MANAGEMENT SYSTEM (***) PHYSICAL SECURITY INFORMATION MANAGEMENT

GLOBAL SURVEILLANCE IOT (*) PLATFORM

OUR INTELLIGENT SECURITY SYSTEM FEATURE - 3D MAPPING

EXTERIOR FACADE PERSPECTIVE VIEW



INTERIOR VIEW



EXTERIOR APPROACH VIEW



EXTERIOR SITE PERSPECTIVE VIEW

GLOBAL SURVEILLANCE IOT (*) PLATFORM

OUR INTELLIGENT SECURITY SYSTEM FEATURE - VIDEO CAMERA PLANNING TOOL

NAVIGATION FOR OUTDOOR POSITIONING



SIMULATION OF POSITIONING ON AN EXTERIOR WALL



SIMULATION OF POSITIONING IN THE EXTERIOR VIEW OF THE SITE



CAMERA VIEW SIMULATIONS

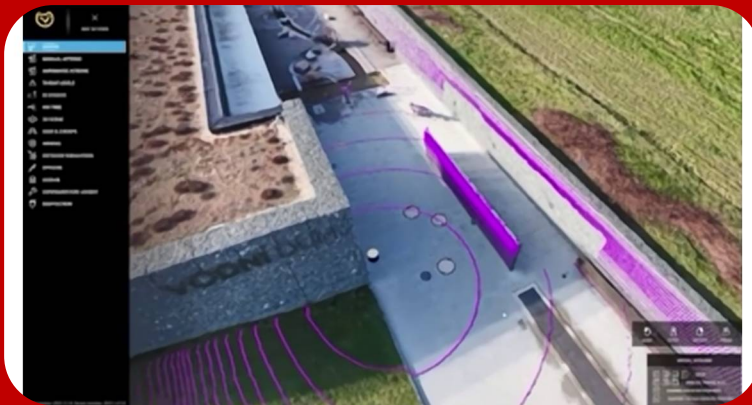
GLOBAL SURVEILLANCE IOT (*) PLATFORM

OUR INTELLIGENT SECURITY SYSTEM FEATURE - LASER SCANNER PLANNING TOOL AND VIRTUAL INTRUDER

POSITIONING OF A LASER SCANNER



PREDICTED COVERAGE ZONE OF THE LASER SCANNER



VIRTUAL INTRUDER



SIMULATION OF TRACKING A VIRTUAL INTRUDER

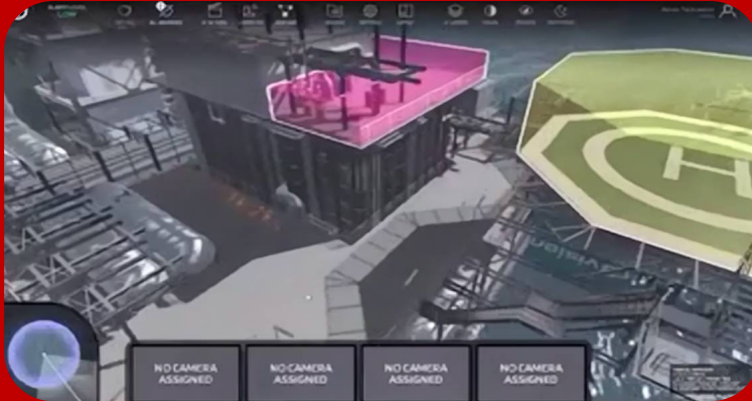
GLOBAL SURVEILLANCE IOT (*) PLATFORM

OUR INTELLIGENT SECURITY SYSTEM FEATURE - ALERT ZONES AND REAL-TIME ALERTS

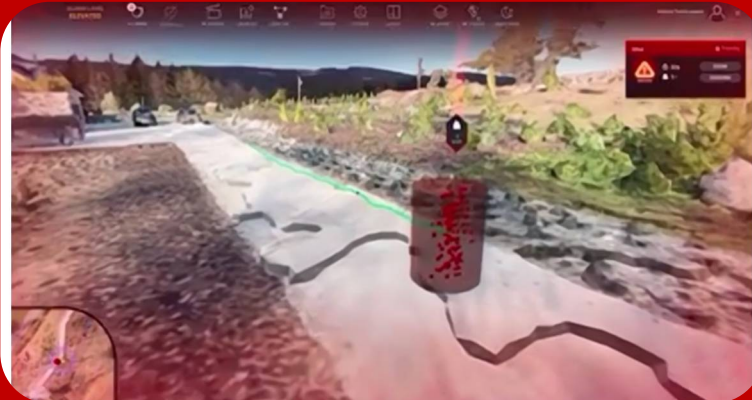
MATERIALIZATION OF AN ALERT ZONE



MULTIPLE ALERT ZONES



REAL-TIME DETECTION AND TRACKING OF A DRONE



REAL-TIME DETECTION AND TRACKING OF AN INTRUDER



Thanks!