WORLD'S LEADING AI ENGINE BUILDERS

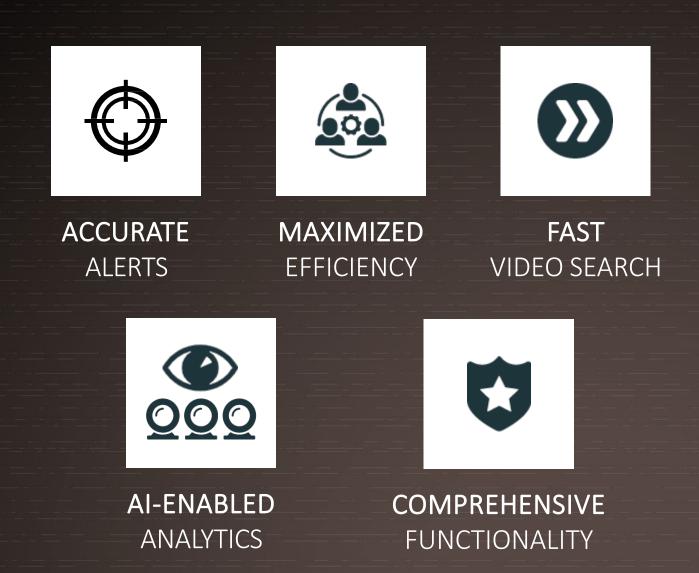


AICUDA TECHNOLOGY & IRONYUN

ANALYTICS FOR A SAFER WORLD







VERSATILE More analytics than any alternative FAST Search days of video in minutes ACCURATE Reduce false positives by orders of magnitude IMMEDIATE Real-time alerts in 3 seconds or less INTELLIGENT Natural-language search across multiple objects **OPEN** Integrate with 97% of ONVIF devices **IMPACTFUL** Increase alert readiness, improve productivity

REAL-TIME AND FORENSIC AI ANALYTICS



Video Search



Face Recognition



Fire Detection



Wrong Direction



Social Health



Weapon Detection



Loitering



Map Tracking



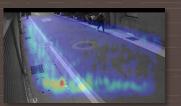
Face Search



PPE Detection



Person Fall



<u>H</u>eatmap



ID Verification





Illegal Parking



Liveview



License Plate Recognition



Intrusion Detection



People Counting



Object Left Behind



Vehicle Counting



Real-time Alert







PORTS AND TERMINALS



VIDEO SEARCH

ENFORCEMENT

Identify persons & vehicles Multiple camera search Color search Quantity search



-

FACE RECOGNITION

ACCESS CONTROL

Face search Blacklists / whitelists Detect multiple persons Detect face similarities



INTRUSION DETECTION ENFORCEMENT

No false alarms Multiple ROI's Perimeter detection Restricted area protection



LICENSE PLATE RECOGNITION

CCESS CONTROL

Read license plates Track stolen vehicles Detect permit holders Improve site security



ILLEGAL PARKING

Parking access availability Find vacant parking spots Park in restricted zones Manage incidents

Statistical traffic reporting Reduce pollution Infrastructure planning

Optimize traffic flows



FRASTRUCTURE Control visitor flows

Occupancy rate Queue detection Detection of peak hours



Prevents crime

Detects suspicious behavior Unauthorized presence Analyze movements



Detect guns, rifles & knives Fast response to danger Active shooter detection Prevent violent crime

FIRE DETECTION AFETY

Fast smoke & fire detection Prevent property damage Guaranteed fire safety Quick response save lives

AICUDA SMART ANALYTICS FOR PORTS & TERMINALS



EMPLOYEE SAFETY



Uniform recognition



Glove usage



People Counting



Person Smoking



Helmet usage



Fall Detection



PERIMETER SECURITY



DRAW REGIONS OF INTEREST (ROI) WITHIN THE COVERED PORT AREA PERIMETER TO CREATE A VIRTUAL FENCE AND RECEIVE ALERTS WHEN HUMANS ENTER THE CAMERA FIELD OF VIEW

DETECT ABANDONED OBJECTS WITHIN THE COVERED PORT AREA PERIMETER AND TRIGGER AN ALERT

DETECT LOITERING AND SUSPICIOUS BEHAVIOR WITHIN THE COVERED PORT AREA PERIMETER AND TRIGGER AN ALERT

DETECT PARKED VEHICLES WITHIN THE COVERED PORT AREA PERIMETER AND TRIGGER AN ALERT

PORTS AND TERMINALS



CONTAINER STORAGE



PORTS AND TERMINALS

USE FACE RECOGNITION IN COMBINATION WITH ACCESS CONTROL AND WHITE LIST TO UNLOCK CONTAINER STORAGE AREAS FOR AUTHORIZED STAFF

DRAW A REGION OF INTEREST AROUND A CONTAINER STORAGE AREA AND TRIGGER REAL-TIME ALERTS TO GROUND OFFICERS ON MOBILE DEVICES IN CASE OF INTRUSION DETECTION

MONITOR AND DETECT FIRE & SMOKE IN REAL-TIME AND TRIGGER AN ALERT WHEN FIRE OR SMOKE ENTERS THE CAMERA FIELD OF VIEW

MONITOR AND DETECT WEAPONS IN REAL TIME AND TRIGGER AN ALERT WHEN A WEAPON ENTERS THE CAMERA FIELD OF VIEW

MONITOR PEOPLE THAT REMAIN AROUND THE CONTAINER STORAGE AREA FOR A PROTRACTED TIME WITHOUT AN APPARENT PURPOSE (LOITERING)



PARKINGS



PORTS AND TERMINALS

REGISTER VEHICLE LICENSE PLATES FOR AUTOMATIC ENTRANCE CONTROL

APPLY LICENSE PLATE RECOGNITION AND ENTRANCE CONTROL WITH WHITE LIST FOR RESTRICTED PARKING AREAS

MONITOR PEOPLE THAT REMAIN AT A PARKING FOR A PROTRACTED TIME WITHOUT AN APPARENT PURPOSE (LOITERING)

TRIGGER ALERTS FOR VEHICLES PARKED IN AREAS WHERE PARKING IS PROHIBITED

TRIGGER ALERTS WHEN VEHICLES REACH A CERTAIN (ABNORMAL) PARKING TIME THRESHOLD

MONITOR AND DETECT WEAPONS IN REAL TIME AND TRIGGER AN ALERT WHEN A WEAPON APPEARS IN THE CAMERA FIELD OF VIEW

MONITOR AND DETECT FIRE & SMOKE IN REAL-TIME AND TRIGGER AN ALERT WHEN FIRE OR SMOKE APPEARS IN THE CAMERA FIELD OF VIEW



SUPERVISOR CENTER

PROVIDE REAL-TIME ALERTS TO RESPONDING OFFICERS ON MOBILE DEVICES IN CASE OF CONTRABAND, CRIME, FIGHTS AND TERRORISM

TRACK TARGET OBJECTS BY EVENT TIME STAMP AND CAMERA LOCATION (MAP TRACKING)

RECEIVE ALERTS AND TAKE ACTION WHEN A CAMERA IS REPOSITIONED, BLURRED OR BLOCKED

UPLOAD IMAGES AND OBTAIN A FULL LIST OF CAMERA FEEDS THAT SHOW INTRUDERS INCLUDING CAMERA POSITION AND TIME STAMP

SEARCH CARS BY MAKE AND MODEL

SEARCH THROUGH TERABYTES OF VIDEO IN SECONDS WHEN INVESTIGATING PORT INCIDENTS AND PROVIDE VISUAL EVIDENCE

FORENSIC VIDEO SEARCH TO COLLECT EVIDENCE FOR ABUSIVE BEHAVIOR FROM TRAVELLERS TO BORDER STAFF OR VICE VERSA





PORTS AND TERMINALS



VAIDIO - DIY DOIT YOURSELF

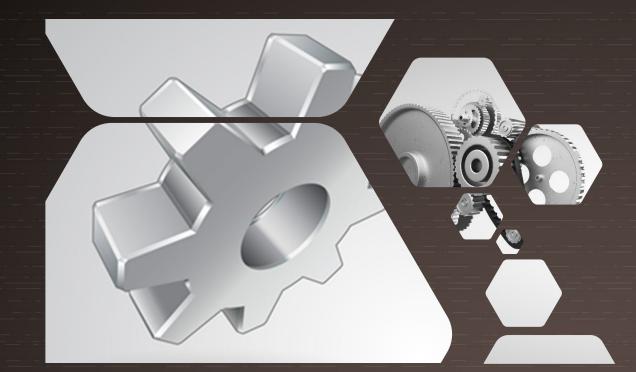
ARTIFICIAL INTELLIGENCE ENGINE BUILDER TRAIN YOUR OWN OBJECT DETECTION MODEL

INPUT: USER SELECTED FOOTAGE

OUTPUT: READY-TO-USE AI MODEL



VAIDIO TOOL KIT



EASE-OF-USE NO KNOWLEDGE REQUIRED AROUND NEURAL NETWORKS, AI LIBRARIES, ALGORITHMS AND DATASETS

VERSATILITY TRAIN A MODEL FOR ANY OBJECT

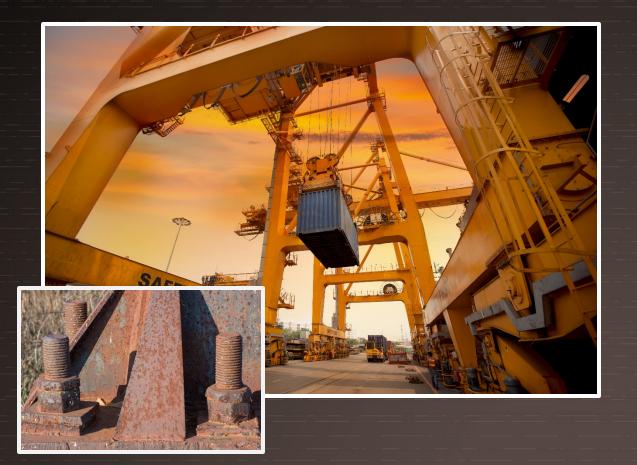
INTERFACE INTUITIVE GRAPHICAL USER INTERFACE

SECURITY NO DATA SHARING TO 3rd-PARTY LABELLING SERVICES

CUSTOMIZATION NO CUSTOMIZATION FEE FOR CUSTOMER SPECIFIC REQUESTS







CHALLENGE DETECT CORROSION IN PORT EQUIPMENT

SOLUTION

TRAIN YOUR OWN CORROSION DETECTION MODEL WITH VAIDIO-DIY

BENEFITS

- PROTECT CRITICAL INFRASTRUCTURE EQUIPMENT
- ✤ GUARANTEE SAFETY OF PORT WORKERS

CORROSION DETECTION





CHALLENGE

DETECT DRONE SIGHTINGS OVER CRITICAL PORT INFRASTRUCTURE FACILITIES

SOLUTION TRAIN YOUR OWN DRONE DETECTION MODEL WITH VAIDIO-DIY

BENEFITS

- PROTECT CRITICAL INFRASTRUCTURE
 FACILITIES
- ✤ PREVENT TERRORIST ATTACKS

DRONE DETECTION





CHALLENGE DETECT SURFACE DEFECTS ON VESSELS WITH AI-ENABLED DRONES

SOLUTION

TRAIN YOUR OWN SURFACE INSPECTION MODEL FOR VESSELS WITH VAIDIO-DIY

BENEFITS

 PREVENT SEVERE ACCIDENTS
 GUARANTEE THE SAFETY OF CREW AND PASSENGERS

SURFACE INSPECTION VESSELS



INTEGRATION CAPABILITIES







CAMERA INTEGRATION

CLOUD PLATFORM INTEGRATION

ERP INTEGRATION







IO DEVICE INTEGRATION

VMS INTEGRATION



PORTS & TERMINALS



VAIDIO BENEFITS & SAVINGS

VAIDIO AI-ENABLED VIDEO ANALYTICS HELP MAINTAIN THE SAFETY IN PORTS AND GIVE EMPLOYEES PIECE OF MIND

VAIDIO AI-ENABLED VIDEO ANALYTICS PROVIDES ACTIONABLE DATA TO ANALYZE & OPTIMIZE DECISION MAKING AROUND THE PORT INFRASTRUCTURE

REVIEW HOURS OF VIDEO IN SECONDS – INCREASE IN PRODUCTIVITY OF THE MONITORING SECURITY STAFF

REAL-TIME ALERTS AND PRO-ACTIVE FOLLOW UP CAN PREVENT EVENTS FROM HAPPENING – REDUCE DAMAGE

VAIDIO AI-ENABLED VIDEO ANALYTICS WILL REDUCE THE NUMBER OF FALSE POSITIVES TO A MINIMUM – SAVE TIME AND RESOURCES FROM INVESTIGATING FALSE ALERTS

MONITOR MULTIPLE PORTS SITES FROM A CENTRAL LOCATION. PROVIDE REAL-TIME ALERTS TO ON-SITE SECURITY STAFF VIA MOBILE DEVICES

AWARDS

The Challenge

Improve pedestrian safety in container ports and terminals.

The Winner

IronYun and their 'Vaidio' Video Intelligence Platform delivers video analytics solutions for Security, Safety, Access Control and Social Health Screening. Vaidio's 4th generation AI makes video monitoring, security alerts, health screening and forensic investigation more accurate, more automated and more affordable, making businesses safer and more secure. IronYun will now have the exciting opportunity to trial their solution with DP World for up to three months, at one of their ports.



Improving pedestrian safety in container ports and terminals

DP WORLD CHALLENGE





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Safetytech Accelerator announces collaboration to explore AI as a way to reduce risk in ports

Safetytech Accelerator is delighted to announce a collaboration with DP World Europe and IronYun to reduce risk in ports through AI video analytics.

Ports are extremely busy places – with cranes, lorries and people in constant motion, the risk of accidents is high. At Safetytech Accelerator, we believe that modern artificial intelligence and machine learning platforms can help reduce this risk, and we're working with two leaders in their respective fields to show how this can be done.

	Features	Available Now
1	Pedestrians entering unauthorized areas	Yes
2	Detect unsafe behavior of workers – e.g. (Trip and fall) and loitering	Yes
3	Pedestrians walking outside of designated area	Yes
4	Pedestrians being present in forbidden area	Yes
5	Pedestrian not wearing protective equipment/right uniform (hard hat, safety vest, mask)	Yes
6	Pedestrians walking behind or outside vehicles	Yes
7	Overcrowded area or group activity	Yes
8	Pedestrians being distracted (e.g. using cell phones)	Yes
9	Monitor in real time for predefined workforce actions and generate alarms for anomaly alerts	Yes
10	Deployable as a pilot within the project	Yes
11	Technology needs to operate with legacy CCTV infrastructure	Yes
12	Technology needs to operate 24 x 7 in all conditions	Yes
13	Technology needs to be scalable	Yes
14	Support live, real-time video data streaming	Yes
15	Support 3rd party cameras and vendors	Yes

