WORLD'S LEADING AI ENGINE BUILDERS

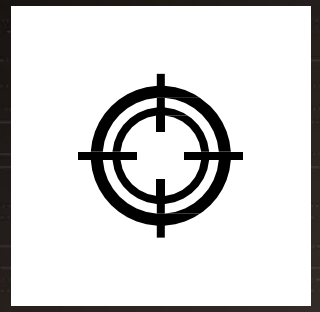
VAIDIO

AICUDA TECHNOLOGY & IRONYUN

ANALYTICS FOR HOSPITALS & HEALTHCARE FACILITIES

AICUDA TECHNOLOGY

IRONYUN™



ACCURATE
ALERTS

MAXIMIZED
EFFICIENCY

FAST
VIDEO SEARCH

AI-ENABLED
ANALYTICS

COMPREHENSIVE
FUNCTIONALITY

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

HOSPITALS & HEALTHCARE FACILITIES

HOSPITAL & HEALTHCARE LAYOUT

Ambulances / Unloading Area

- Access Control with License Plate Recognition
- Illegal Parking
- Intrusion Detection
- Abandoned Object Detection Emergency Entrance / Exit

Pharmacies

- Access Control with Face Recognition
- Smoke and Fire Detection
- Weapon Detection
- Loitering

Security Center

- Camera Health Management
- Track Target Objects
- Real Time Alerts
- Video Search

Doctor's Office

- Aggression Detection
- Person Fall and Crouch

Patient Area

- QR and Barcode Recognition
- Smoke and Fire Detection
- Person Fall and Crouch

Entrance Area

- Face Recognition with Blacklist
- Loitering
- People Counting
- Weapon Detection

Corridor Area

- Abandoned Object Detection
- QR and Barcode Recognition
- Smoke and Fire Detection
- Person Fall and Crouch

Parking Lots

- License Plate Recognition
- Vehicle Make and Model
- Vehicle Counting
- Illegal Parking
- Loitering

Lobby / Waiting Room

- Age, Gender and Emotion Detection
- Abandoned Object Detection
- Social Health Analytics
- Person Fall and Crouch
- Queue Detection

CHALLENGES HOSPITALS & HEALTHCARE FACILITIES

HOSPITALS & HEALTHCARE FACILITIES FACILITATE A HIGH VOLUME OF PATIENTS, VISITORS AND EMPLOYEES

HOSPITALS & HEALTHCARE FACILITIES ARE OPEN AND INVITING ENVIRONMENTS

HOSPITALS & HEALTHCARE FACILITIES NEVER CLOSE AND SERVING THEIR COMMUNITIES 24/7

INCREASING WORKPLACE VIOLENCE FROM DRUGS-RELATED CRIMES, GANG INCIDENTS AND PATIENT OUTBURSTS

ONGOING RISK OF INFANT ABDUCTION CASES

FALSE CLAIMS AGAINST NURSES, PHYSICIANS AND OTHER MEDICAL STAFF

VAIDIO™

INDOOR AREAS

INDOOR AREAS

- ENTRANCE
- LOBBY / WAITING ROOM
- CORRIDOR
- PATIENT AREA
- DOCTOR’S OFFICE
- PHARMACIES
- SECURITY CENTER

VAIDIO™

ENTRANCE

USE FACE RECOGNITION IN COMBINATION WITH A WATCHLIST TO NOTIFY SECURITY STAFF WHEN KNOWN AGGRESSIVE PATIENTS ENTER THE HOSPITAL

MONITOR PERSONS THAT REMAIN IN AND AROUND THE PHARMACY FOR A PROTRACTED TIME WITHOUT AN APPARENT PURPOSE (LOITERING)

DRAW A LINE AND COUNT THE INCOMING AND OUTGOING PATIENTS AT THE ENTRANCE TO ANALYZE AND OPTIMIZE THE HOSPITAL INFRASTRUCTURE

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

VAIDIO™

LOBBY / WAITING ROOM

RECOGNIZE EMOTIONS SUCH AS ANGER, SADNESS, FEAR AND JOY

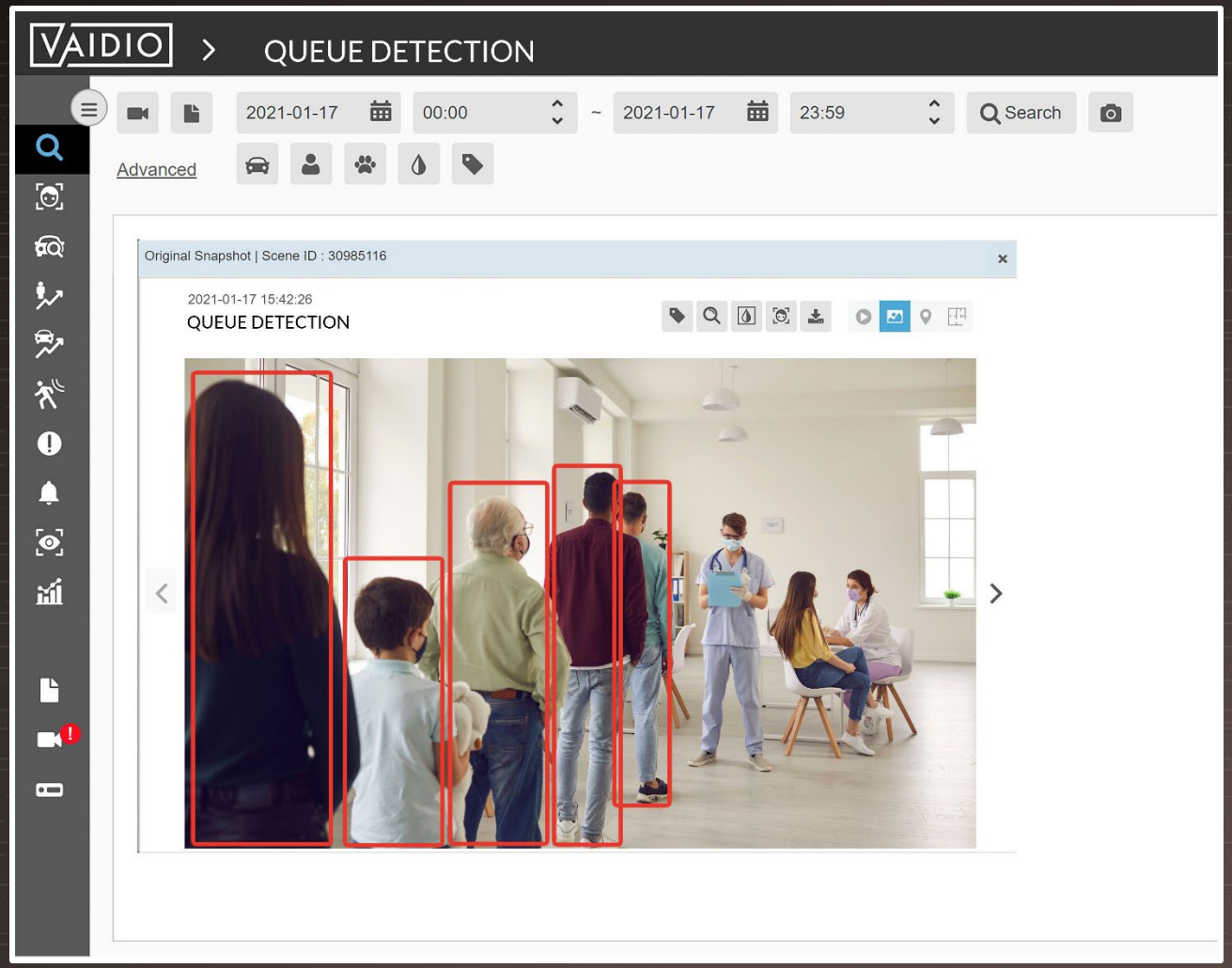
USE EMOTION TRACKING TO GIVE THE HOSPITAL THE ABILITY OF WHAT IS PLEASING, INTERESTING OR ANNOYING HOSPITAL PATIENTS BASED ON THEIR EMOTIONAL REACTION

DETECT AGE AND GENDER FOR PATIENT SEGMENTATION IN AGE AND GENDER GROUPS

TRIGGER ALERTS IF ABANDONED OBJECTS REACH A CERTAIN (ABNORMAL) TIME THRESHOLD IN THE LOBBY / WAITING ROOM AREA

VAIDIO™

LOBBY / WAITING ROOM



USE SOCIAL HEALTH ANALYTICS IN COMBINATION WITH TEMPERATURE SCREENING WHEN PATIENTS ENTER THE LOBBY / WAITING ROOM

TRIGGER ALERTS WHEN PATIENTS FALL OR CROUCH IN THE LOBBY / WAITING ROOM

MONITOR AND DETECT QUEUES AND TRIGGER ALERTS TO PREVENT WAITING TIMES AND IMPROVE PATIENT SATISFACTION TO OPTIMIZE THE PATIENT EXPERIENCE IN THE HOSPITAL

ALIGN MEDICAL STAFF RESOURCES WITH THE PATIENT FLOW

VAIDIO™

CORRIDOR

DETECT ABANDONED OBJECTS IN REAL-TIME AND TRIGGER ALERTS

IDENTIFY PERSONS WHO LEFT OBJECTS INSIDE THE CORRIDOR AND TRY TO LOCATE THIS PERSONS

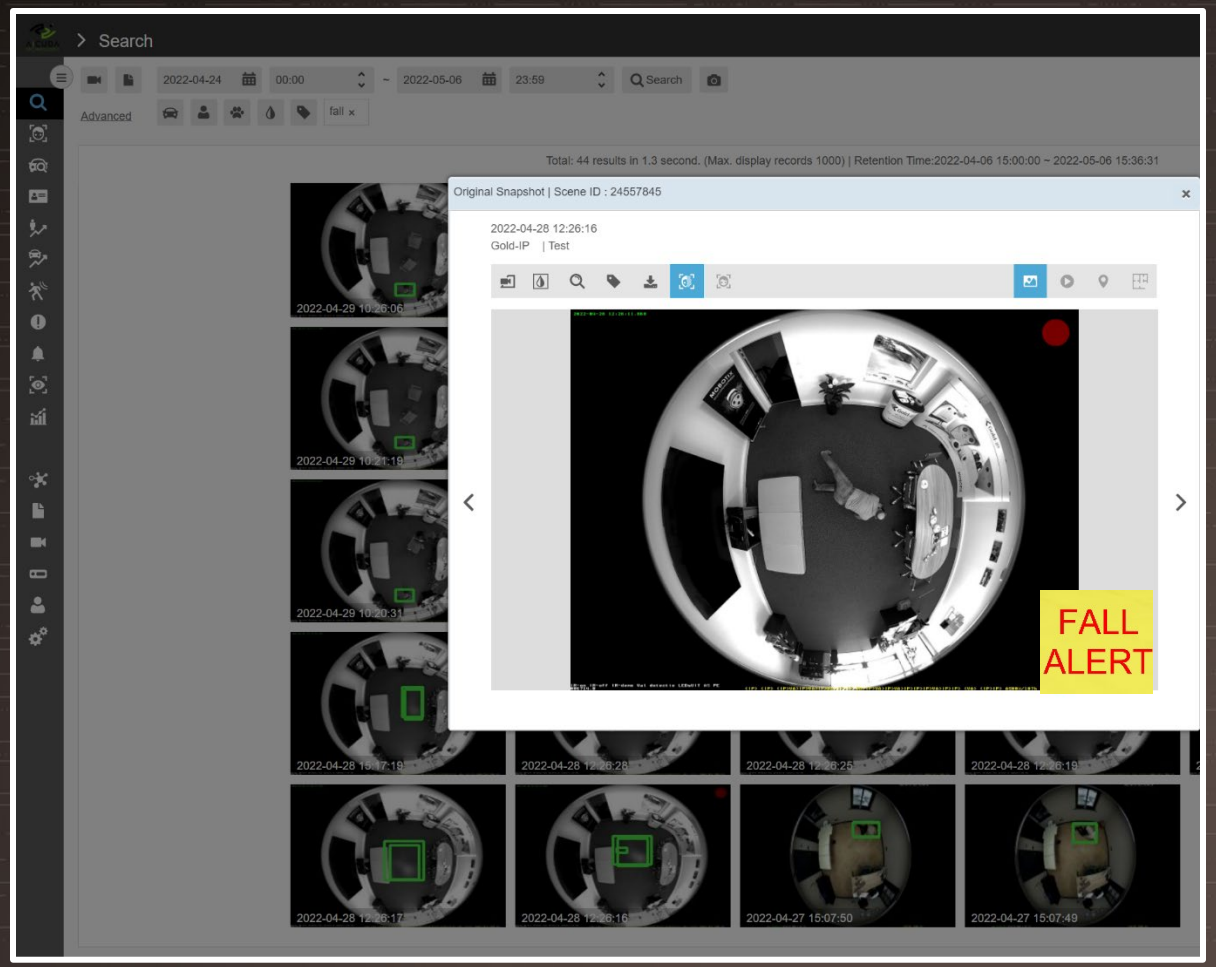
TRACK AND LOCATE MEDICAL EQUIPMENT WITH QR CODE AND/OR BARCODE RECOGNITION

TRIGGER AN ALERT WHEN SMOKE OR FIRE APPEARS IN THE CAMERA FIELD OF VIEW

TRIGGER ALERTS WHEN PATIENTS FALL OR CROUCH IN THE CORRIDOR AND WARN MEDICAL STAFF ON THEIR MOBILE DEVICES

VAIDIO™

PATIENT AREA



NOTIFY MEDICAL STAFF WHEN A PATIENT FALLS OR CROUCHES IN THE FIELD OF VIEW OF THE CAMERA

FALL DETECTION SOLUTION ON A FISHEYE CAMERA TO COVER AN ENTIRE PATIENT ROOM

AI ANALYTICS DETECTION TO REDUCE FALSE ALARMS TO A MINIMUM

ALERT NOTIFICATION AFTER 20 SECONDS

OPERATES 24/7 IN ALL PATIENT ROOMS

ACTIONABLE DATA INSIGHTS INTO DAY / NIGHT RHYTHM OF PATIENTS

VAIDIO™

PATIENT AREA

TAG WHEELCHAIRS, BEDS, MONITORS, MOBILE WORKSTATIONS AND OTHER HOSPITAL ASSETS WITH QR CODES AND/OR BARCODES TO TRACK AND LOCATE THIS MEDICAL EQUIPMENT

TRIGGER AN ALERT WHEN SMOKE OR FIRE APPEARS IN THE CAMERA FIELD OF VIEW

VAIDIO™

DOCTOR'S OFFICE

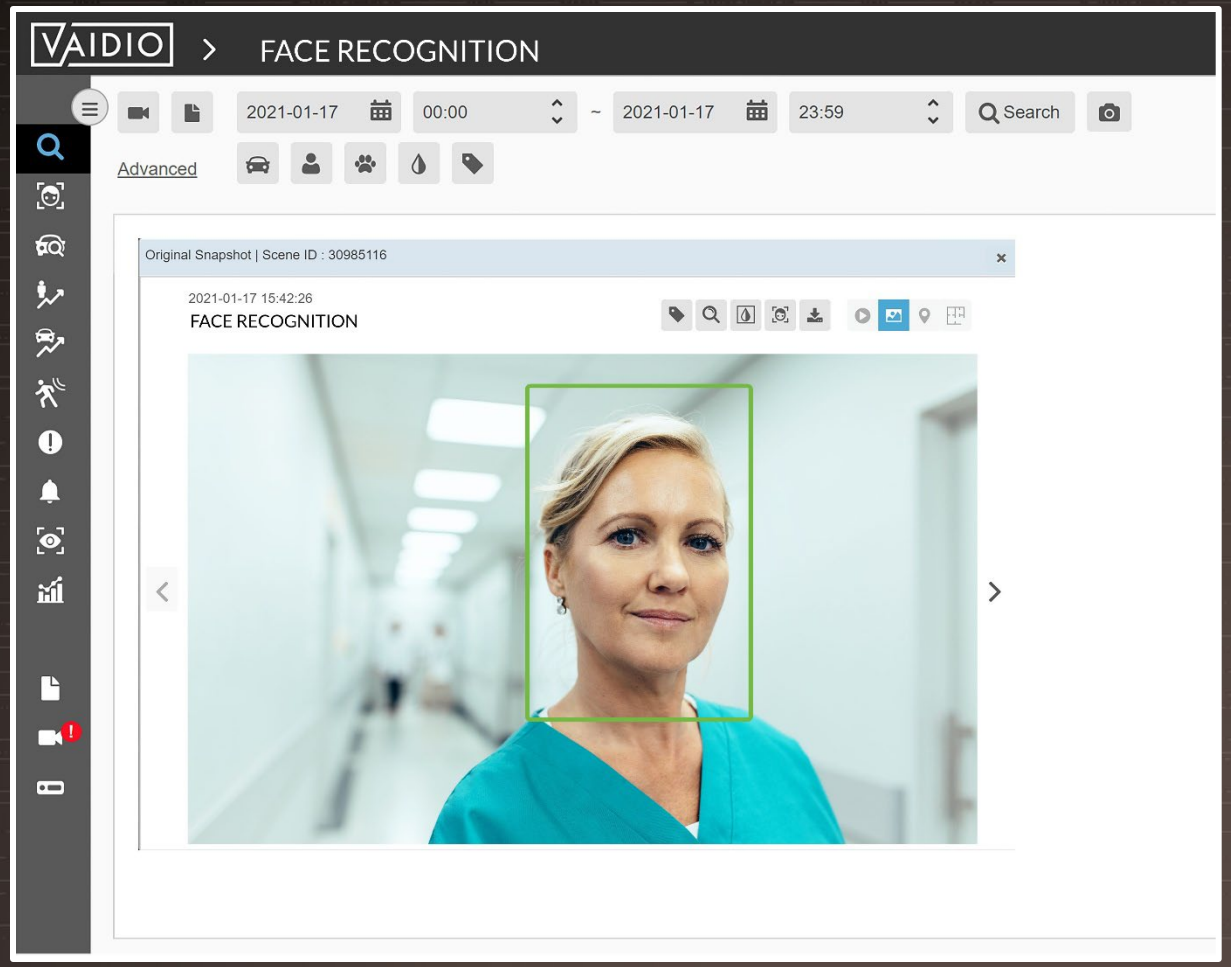
DETECT OUTBURSTS AND AGGRESSIVE BEHAVIOR FROM HOSPITAL PATIENTS AND TRIGGER REAL-TIME ALERTS TO PROTECT DOCTORS AND OTHER MEDICAL STAFF

TRIGGER ALERTS WHEN PATIENTS FALL OR CROUCH IN THE DOCTOR'S OFFICE TO NOTIFY OTHER MEDICAL STAFF TO SUPPORT THE DOCTOR

USE VAIDIO FACE SEARCH TO LOCATE DOCTORS QUICKLY IN CASE OF AN EMERGENCY

VAIDIO™

PHARMACIES



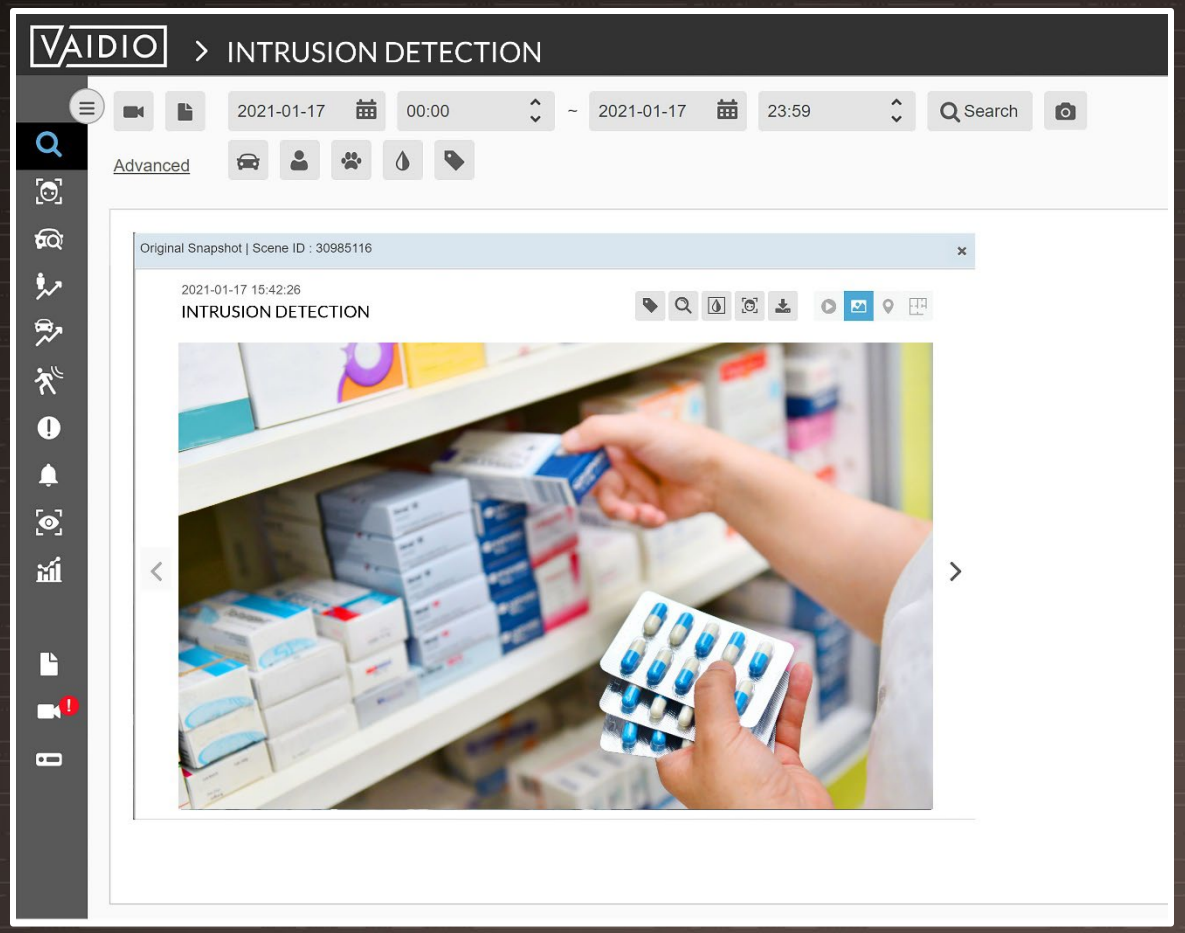
INTEGRATION OF VAIDIO AI-BASED FACE RECOGNITION IN ACCESS CONTROL AND HRM SYSTEMS TO UNLOCK THE HOSPITAL PHARMACY IN REAL-TIME FOR AUTHORIZED MEDICAL STAFF ONLY TO PREVENT FRAUD AND THEFT

NO CONCERNS ABOUT BADGES THAT ARE LOST OR STOLEN AS BADGES ARE NO LONGER REQUIRED

TRACK TARGET PERSONS ON A MAP AND PERFORM TRACING IN CASE OF ACCIDENTS OR INCIDENTS IN AND AROUND THE PHARMACY AREA

VAIDIO™

PHARMACIES



TRIGGER AN ALERT WHEN SMOKE OR FIRE APPEARS IN THE CAMERA FIELD OF VIEW AND PREVENT DAMAGES TO PHARMACY ASSETS TO A MINIMUM

MONITOR PERSONS THAT REMAIN IN AND AROUND THE PHARMACY FOR A PROTRACTED TIME WITHOUT AN APPARENT PURPOSE (LOITERING)

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

VAIDIO™

SECURITY CENTER

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

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

PROVIDE REAL-TIME ALERTS TO HOSPITAL SECURITY STAFF ON MOBILE DEVICES IN CASE OF INCIDENTS

SEARCH THROUGH TERABYTES OF VIDEO IN SECONDS WHEN INVESTIGATING INCIDENTS AND PROVIDE VISUAL EVIDENCE FOR INSURANCE CLAIMS

UPLOAD A PICTURE OF A PATIENT, DOCTOR OR HOSPITAL STAFF MEMBER AND OBTAIN A FULL LIST OF CAMERA FEEDS INCLUDING CAMERA POSITION AND TIME STAMP

VAIDIO™

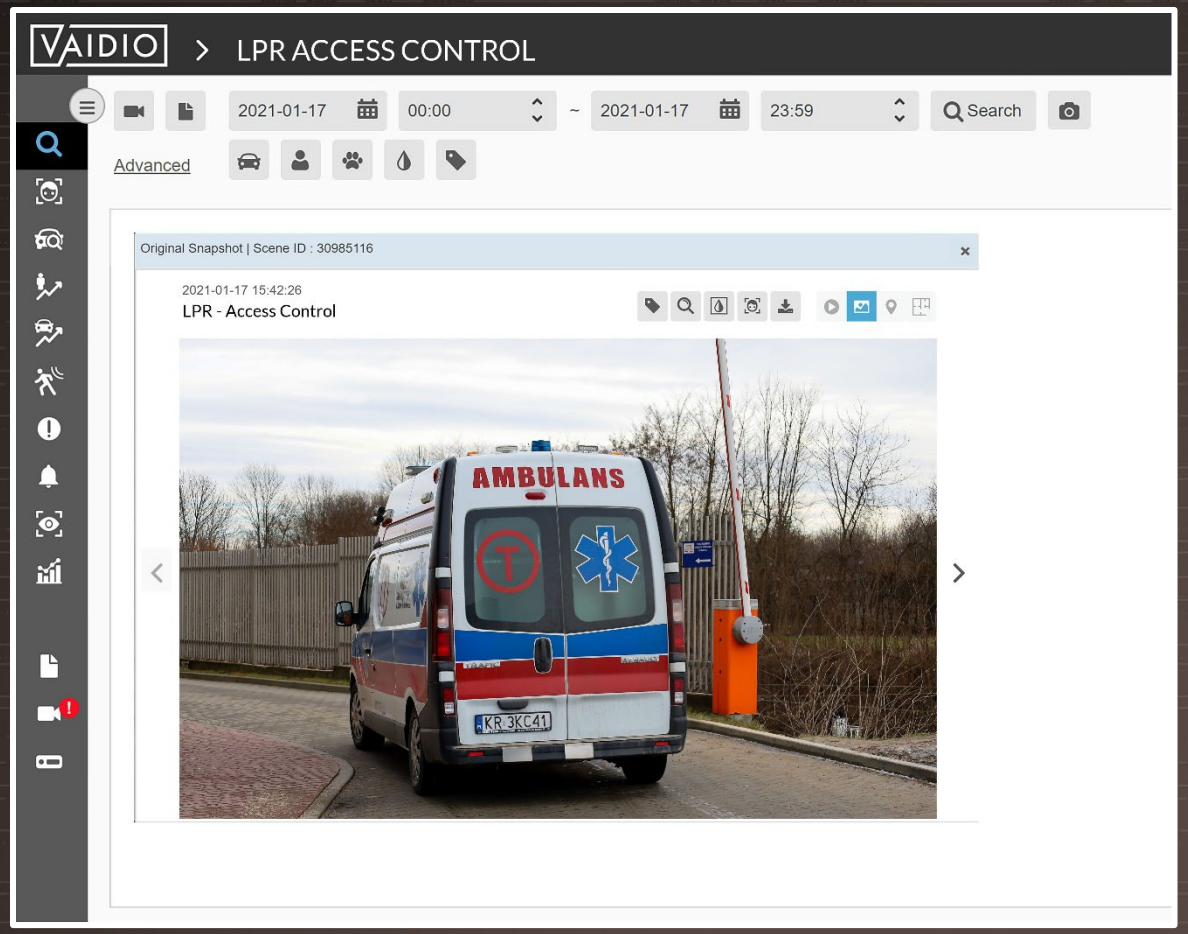
OUTDOOR AREAS

OUTDOOR AREAS

- AMBULANCES / UNLOADING AREA
- PARKING LOTS

VAIDIO™

AMBULANCES / UNLOADING AREA



REGISTER AMBULANCE LICENSE PLATES FOR AUTOMATIC ENTRANCE CONTROL

APPLY LICENSE PLATE RECOGNITION WITH WHITELIST TO PREVENT ACCESS TO AND ILLEGAL PARKING IN AMBULANCE AND UNLOADING ZONES

DETECT ABANDONED OBJECTS THAT ARE BLOCKING EMERGENCY ENTRANCES AND EXITS FOR AMBULANCES

DRAW A ROI IN AMBULANCE AND UNLOADING ZONES AND TRIGGER ALERTS WHEN PEOPLE ENTER IN THE FIELD OF VIEW OF THE CAMERA

VAIDIO™

AMBULANCES / UNLOADING AREA

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

MONITOR PEOPLE THAT REMAIN AT THE AMBULANCE AND UNLOADING ZONES FOR A PROTRACTED TIME WITHOUT AN APPARENT PURPOSE (LOITERING)

VAIDIO™

AMBULANCES / UNLOADING AREA

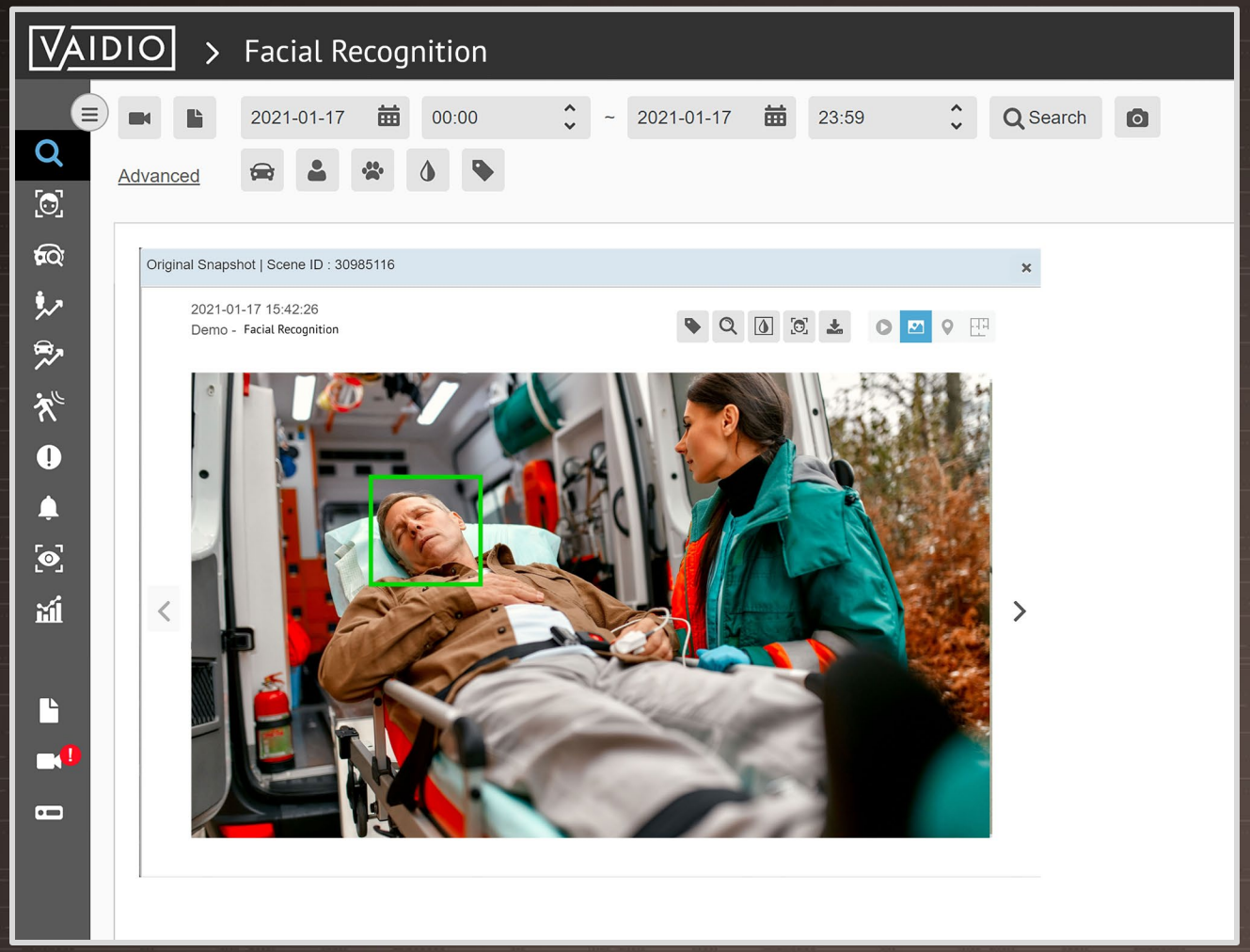
MOBILE DEVICES

MOBILE CAM APP

MEDICAL TEAM

VAIDIO™

AMBULANCES / UNLOADING AREA



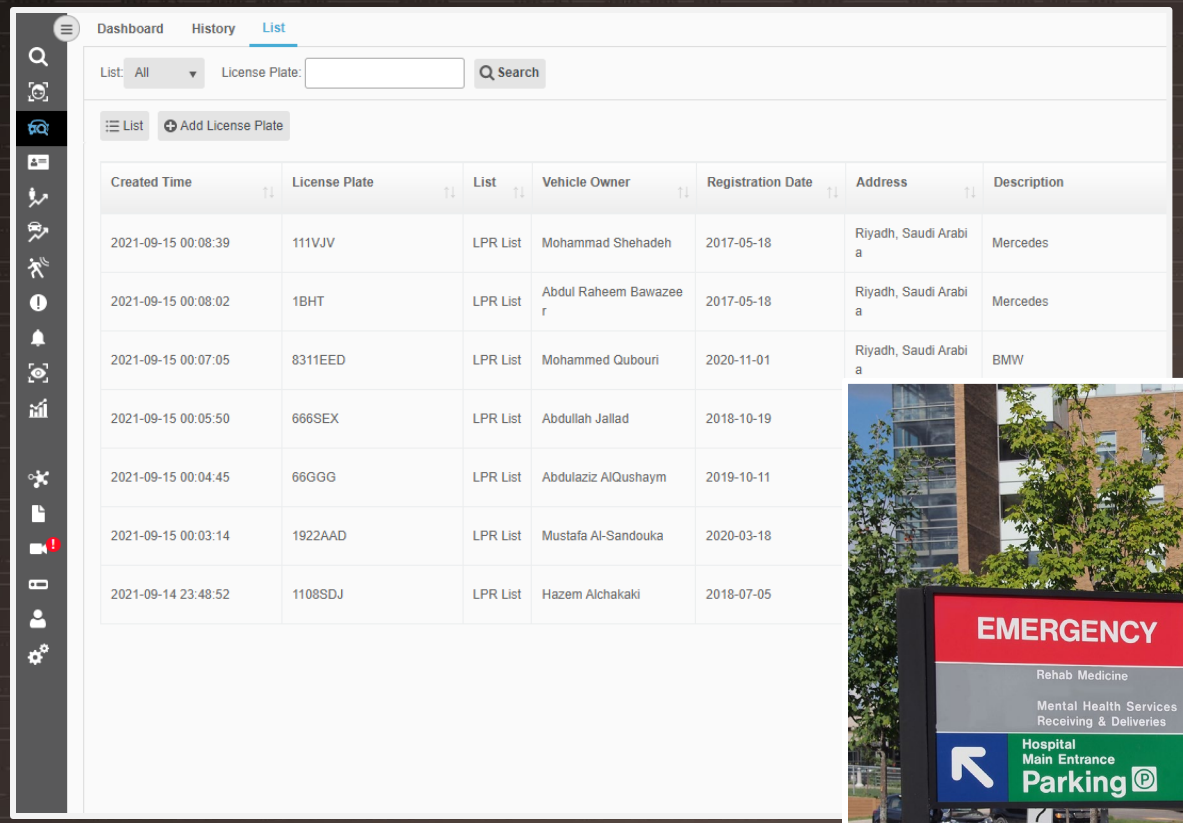
FACIAL RECOGNITION

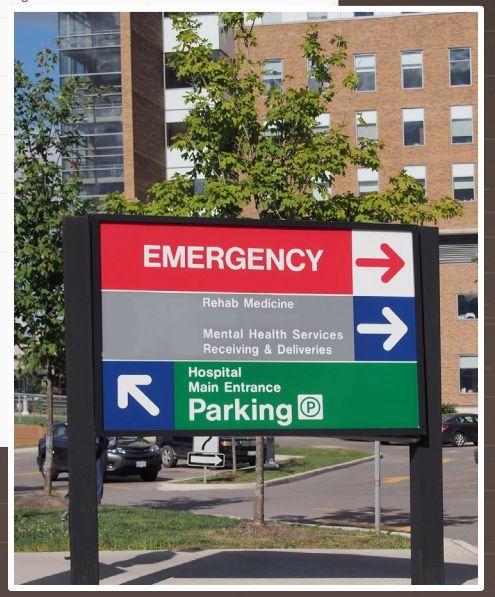
SCAN THE FACE OF THE PATIENT IN THE AMBULANCE WITH VAIDIO MOBILE CAM APP ON A MOBILE DEVICE

ENABLE THE HOSPITAL OR HEALTHCARE FACILITY TO STUDY THE MEDICAL FILE AND PREPARE THE OPERATING ROOM BEFORE THE PATIENT ARRIVES

VAIDIO™

PARKING LOTS





REGISTER VEHICLE LICENSE PLATES WITH VEHICLE OWNERS TO CREATE BLACK- AND WHITELISTS

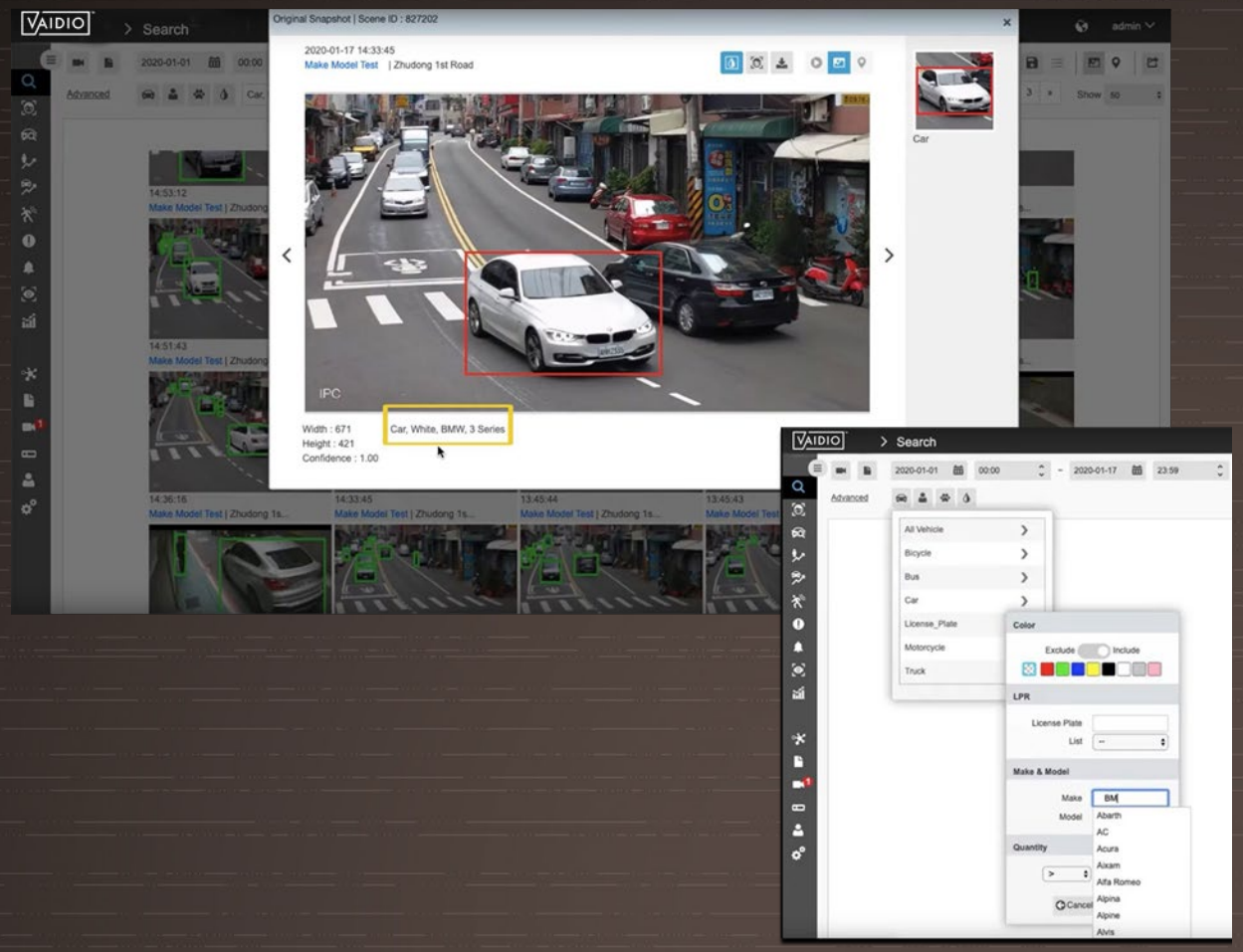
APPLY LICENSE PLATE RECOGNITION WITH WHITELIST FOR HOSPITAL STAFF FOR RESTRICTED PARKING AREAS

APPLY LICENSE PLATE RECOGNITION WITH BLACKLIST FOR LEAVE WITHOUT PAYING OR FOR AGGRESSIVE PATIENTS

TRIGGER ALERTS FOR CARS THAT ARE ILLEGALLY PARKED AND NOTIFY THE SECURITY CENTER IN REAL-TIME

VAIDIO™

PARKING LOTS



SEARCH FOR A SPECIFIC VEHICLE MAKE AND MODEL THROUGH MULTIPLE CAMERAS AND UPLOADED VIDEO FOOTAGE

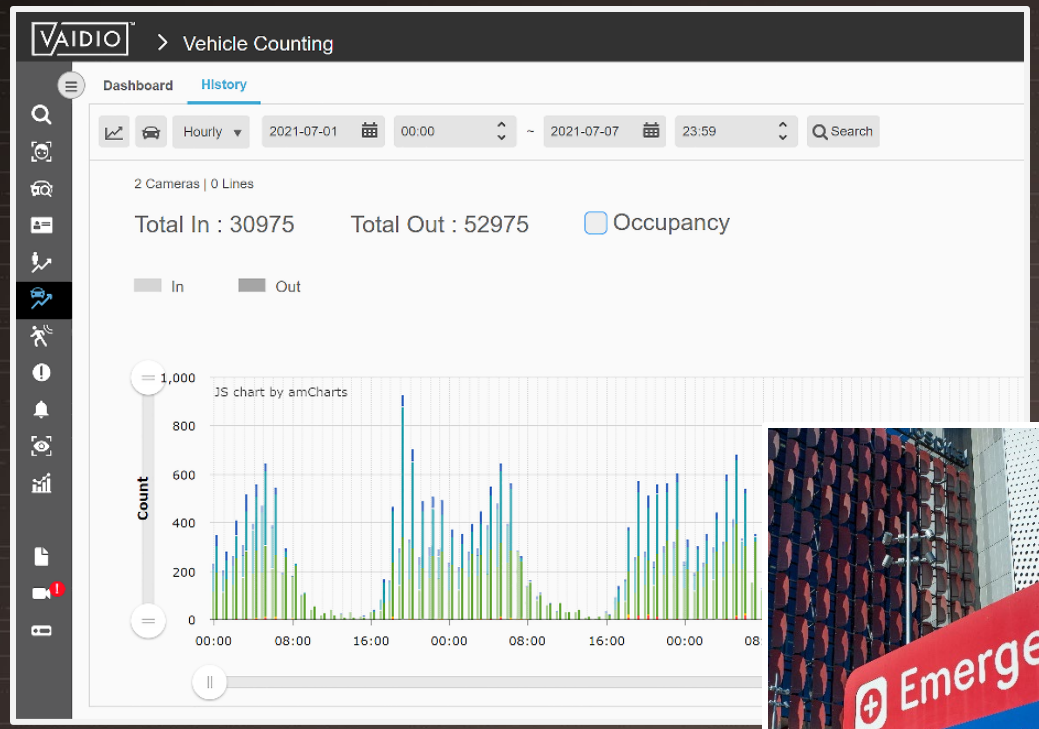
NARROW DOWN SEARCH RESULTS WHEN SEARCHING FOR A TARGET VEHICLE

TRACK VEHICLES IN REAL-TIME BASED ON COLOR, QUANTITY AND PARTIAL LICENSE PLATE NUMBER

IDENTIFY OVER 200 MAKES AND 2000 MODELS

VAIDIO™

PARKING LOTS



VAIDIO VEHICLE COUNTING PROVIDES ACTIONABLE DATA TO ANALYZE TRAFFIC FLOWS AND OPTIMIZE DECISION MAKING AROUND HOSPITAL INFRASTRUCTURE

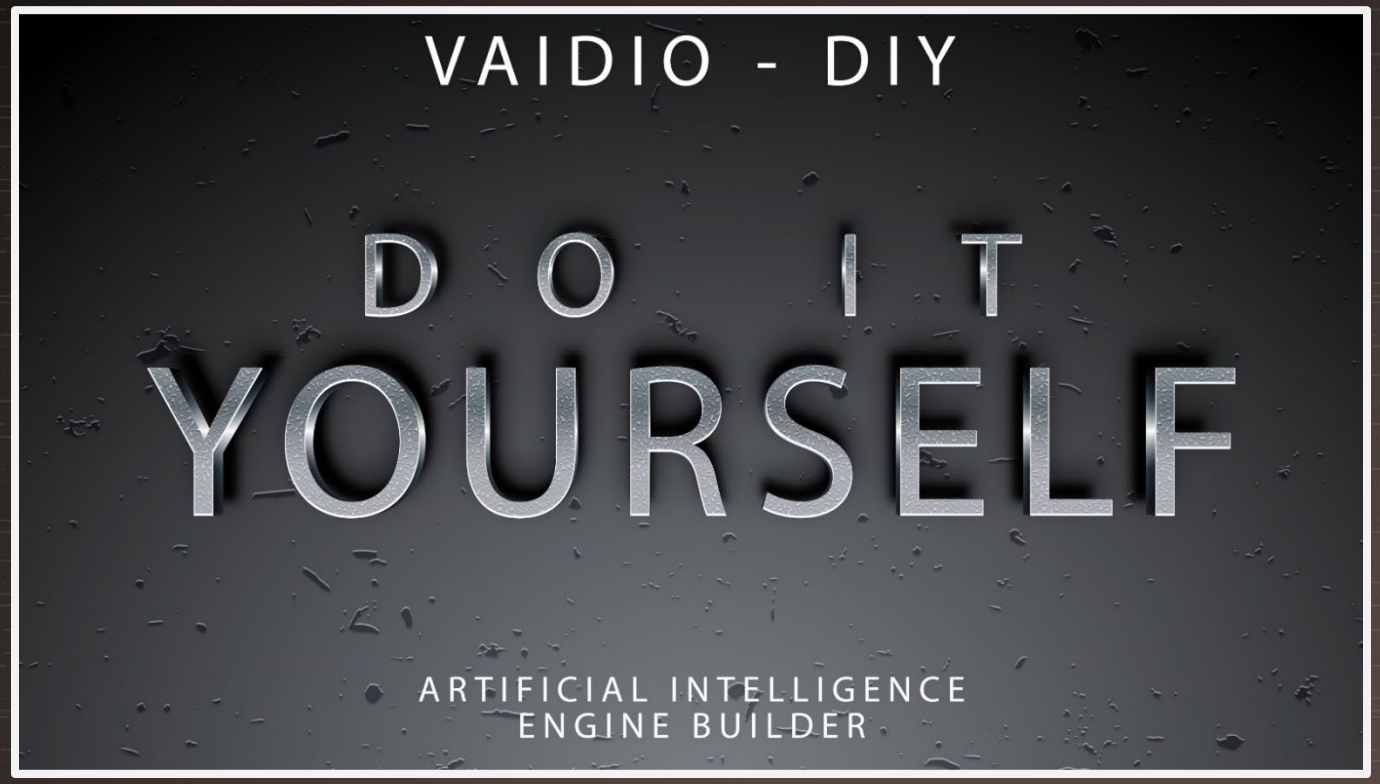
DETERMINE HOSPITAL PEAK HOURS

CATEGORIZATION OF VEHICLES IN BICYCLE, BUS, CAR, MOTORCYCLE AND TRUCK

GENERATE REPORTS BASED ON TRAFFIC FLOWS AND CATEGORIZATION

VAIDIO

VAIDIO TOOL KIT



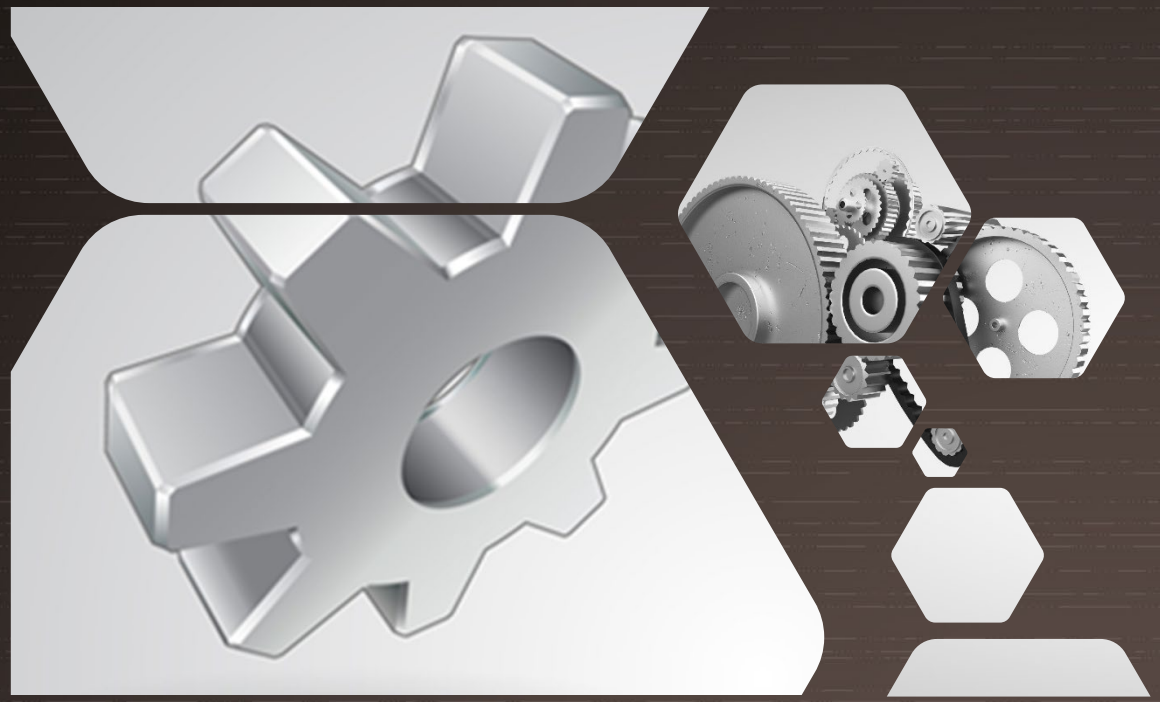
TRAIN YOUR OWN OBJECT DETECTION MODEL

INPUT: USER SELECTED FOOTAGE

OUTPUT: READY-TO-USE AI MODEL

VAIDIO™

VAIDIO TOOL KIT



ADVANTAGES

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

VAIDIO™

USE CASE

CHALLENGE

DETECT UNIFORMS IN HOSPITALS AND HEALTHCARE FACILITIES

SOLUTION

TRAIN YOUR OWN UNIFORM DETECTION MODEL WITH VAIDIO-DIY

BENEFITS

- MAKE SURE THAT MEDICAL STAFF IS WEARING THE PROPER UNIFORMS
- PATIENT IS ABLE TO RECOGNIZE MEDICAL STAFF

HOSPITALS & HEALTHCARE FACILITIES

VAIDIO™

INTEGRATION CAPABILITIES

CAMERA INTEGRATION

CLOUD PLATFORM INTEGRATION

ERP INTEGRATION

IO DEVICE INTEGRATION

SOFTWARE SERVICES

VMS INTEGRATION

VAIDIO™

HOSPITALS & HEALTHCARE FACILITIES

VAIDIO BENEFITS & SAVINGS

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

VAIDIO AI-ENABLED VIDEO ANALYTICS PROVIDES ACTIONABLE DATA TO ANALYZE & OPTIMIZE DECISION MAKING AROUND THE HOSPITALS AND HEALTHCARE FACILITIES 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 HOSPITALS AND HEALTHCARE FACILITIES FROM A CENTRAL LOCATION. PROVIDE REAL-TIME ALERTS TO ON-SITE SECURITY STAFF VIA MOBILE DEVICES

VAIDIO™ AI VISION PLATFORM