엠제이비전테크

Technology for People ! SMART LIFE !

www.mjvisiontech.com

AIBIS

AI Business to Integrated Surveillance

[Head Office] B, 6th Floor, Jonggak Building, 673 Gukchaebosangro, Jung-gu, Daegu
[Factory] 511, Nongong-ro, Nongong-eup, Dalseong-gu, Daegu Metropolitan City
T. +82-70-8721-3412 F. +82-70-4850-8332

CONTENTS

MJ VISIONTECH

CHAPTER I

Company Profile

VISIONTECH

1 Company Profile

MJ VISIONTECH

평화홀딩스(주)
PYUNG HWA HOLDINGS CO., LTD.

Foundation 04/05/2016

Turnover $4.6 M

Employees 30

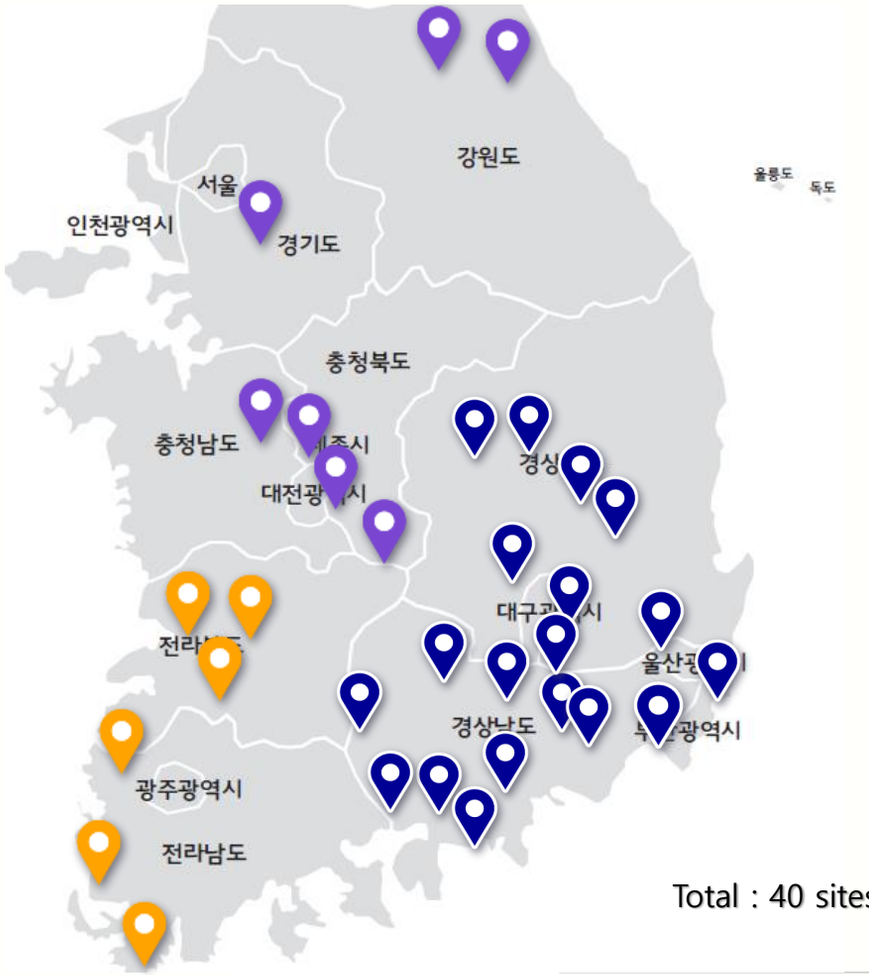
Business
- Intelligent Video Analysis Technology
- LPR(License Plate Recognition)
- Machine Vision

Products
- Intelliegent Smart Control Solution
- Intelligent CCTV System
- Smart School Zone System
- Smart Traffic System
- Smart parking System
- Machine Vision

Core Technology

- Retaining image analysis technology and application technology based on deep learning
- Object, event detection/classification/ tracking, vehicle number recognition, etc.

Key Performance



Total : 40 sites in Korea

Ceo's Message

With interest in artificial intelligence and rapid technological development, It has become an era in which AI coexists.

With interest in artificial intelligence and rapid technological development, AI has become an era where AI coexists.
In the future, AI-based platforms will be closely linked to our daily lives in various fields such as safety, security, and transportation.

MJVT wants to move forward together with you so that we can provide more accurate and clear judgment and information in an era where AI makes judgments in our thinking and actions.

MJVT is developing and applying core image analysis algorithms such as life safety, school safety, autonomous driving, industrial safety, transportation, and smart factory fields by grafting artificial intelligence-based image analysis technology.

Ultimately, AI-based technology aims to improve the quality of human life by focusing on developing core technologies such as life, disaster/safety, and transportation with the goal of “technology for people.”

Thank you.

MJ VISIONTECH

CEO Jooyoung Kim

Company Profile

MJ VISIONTECH

2022

2022. JAN

2022 CES

2022. FEB

Acquisition of Good Software

With Missing and Finding Solution

2022.MAR

5G-based autonomous driving convergence technology

monitoring environment

and promotion of roadside device construction

2022.APR

Donation of Daegu Education Student Art Creation Center Safety Monitoring System (business agreement)

2022. JUN

Acquisition of Good Software

EDGE CCTV 1.0

2022.JULY

Acquisition of monitoring device procurement bidding qualification

2022.SEP

ITS unexpected situation detection system performance evaluation

Acquisition of 'top class'

2022.NOV

Barcelona

Smart City Expo

2022.DEC

Established

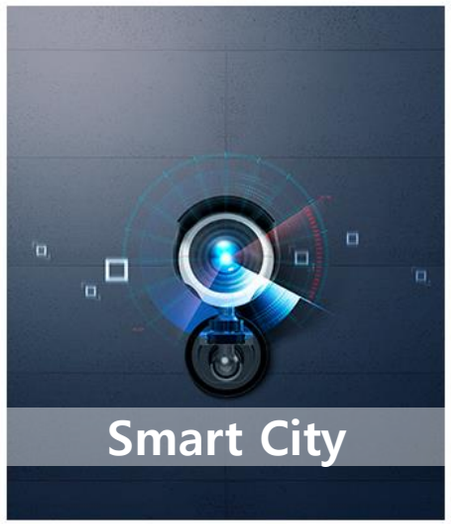
Apartment Smart

surveillence system

Company Profile

Main Business

City Safety



Smart City

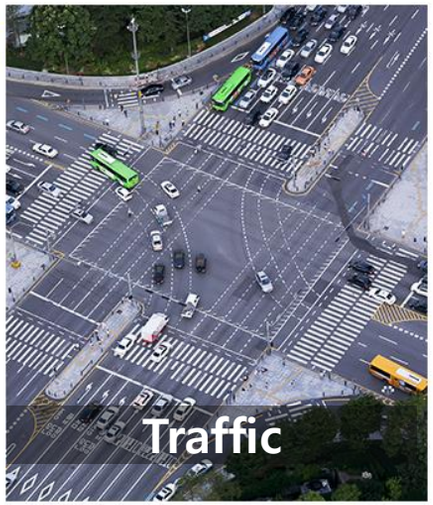
Find Missing Children

Missing Person Tracking

School

School

Traffic



Traffic

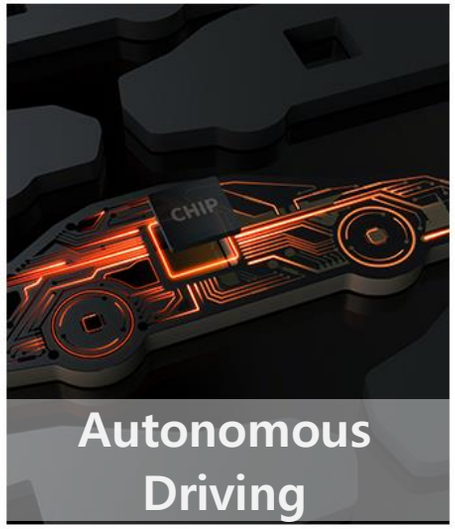
Construction

Construction

Edge/Edge AI CCTV

Edge/Edge CCTV

Autonomous Driving



Autonomous Driving

Machine Vision

Machine Vision

Company Profile

MJ VISIONTECH

Korean Government Procurement Certification

제 2023-0508-00123 호

직접생산확인증명서

1. 경 쟁 제 품 명 : [대분류] 공학연구및기술기반서비스
   [소분류] 소프트웨어 유지및지원
   [세부품명] 소프트웨어유지및지원서비스
2. 생 산 업 체 명 : 주식회사 엠제이비전테크
3. 사 업 자 번 호 : 870-81-00261
4. 대 표 자 성 명 : 김주영
5. 소 재 지 :
   (본사) 대구광역시 중구 국채보상로 673 , 6층 비호(동인동2가, 종각빌딩)
   (공장1) [870-81-00261] 대구광역시 북구 호암로 51 213호 (대구삼성창조경제단지내 벤처오피스동)

※ 뒤쪽 「생산공장 목록」에 계속

6. 유 효 기 간 : **세부품명별 유효기간은 뒤쪽 참조**

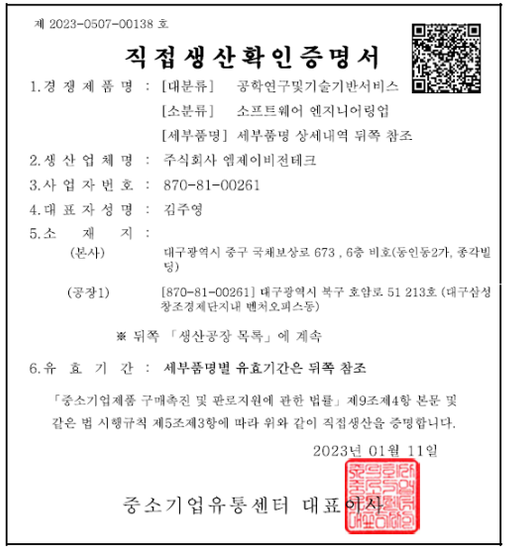
「중소기업제품 구매촉진 및 판로지원에 관한 법률」 제9조제4항 본문 및 같은 법 시행규칙 제5조제3항에 따라 위와 같이 직접생산을 증명합니다.

2023년 01월 11일

중소기업유통센터 대표이사

* 유의사항(행정조치) : 직접생산 확인기준 미충족 및 직접생산 미이행 등 「중소기업제품 구매촉진 및 판로지원에 관한 법률」 제11조(직접생산 확인 취소 등) 등에 해당하는 경우, 직접생산 확인 취소(신청제한) 및 형사처벌, 과징금 부과 등의 대상이 될 수 있습니다.
* 이 증명서는 중소기업확인용으로 사용할 수 없습니다.
* 이 증명서는 중소기업제품 공공구매종합정보망(www.smpp.go.kr)을 통해 출력(2023-01-11 09:02)한 증명서로서 동 정보망에서 진위여부를 확인하실 수 있습니다.

Software



제 2023-0507-00138 호

직접생산확인증명서

1. 경 쟁 제 품 명 : [대분류] 공학연구및기술기반서비스
   [소분류] 소프트웨어 엔지니어링업
   [세부품명] 세부품명 상세내역 뒤쪽 참조
2. 생 산 업 체 명 : 주식회사 엠제이비전테크
3. 사 업 자 번 호 : 870-81-00261
4. 대 표 자 성 명 : 김주영
5. 소 재 지 :
   (본사) 대구광역시 중구 국채보상로 673 , 6층 비호(동인동2가, 종각빌딩)
   (공장1) [870-81-00261] 대구광역시 북구 호암로 51 213호 (대구삼성창조경제단지내 벤처오피스동)

※ 뒤쪽 「생산공장 목록」에 계속

6. 유 효 기 간 : **세부품명별 유효기간은 뒤쪽 참조**

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2023년 01월 11일

중소기업유통센터 대표이사

* 유의사항(행정조치) : 직접생산 확인기준 미충족 및 직접생산 미이행 등 「중소기업제품 구매촉진 및 판로지원에 관한 법률」 제11조(직접생산 확인 취소 등) 등에 해당하는 경우, 직접생산 확인 취소(신청제한) 및 형사처벌, 과징금 부과 등의 대상이 될 수 있습니다.
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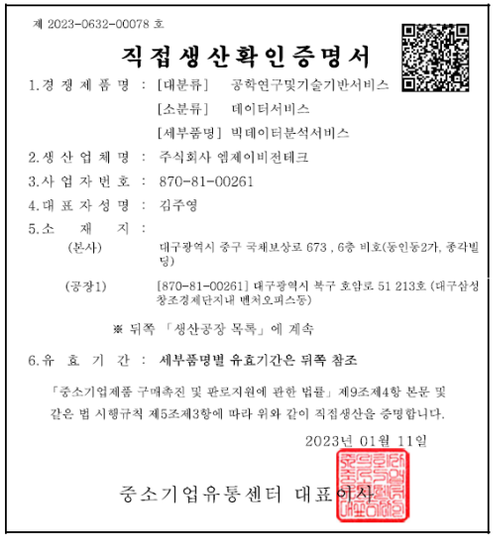
Software Engineering



제 2023-0632-00078 호

직접생산확인증명서

1. 경 쟁 제 품 명 : [대분류] 공학연구및기술기반서비스
   [소분류] 데이터서비스
   [세부품명] 빅데이터분석서비스
2. 생 산 업 체 명 : 주식회사 엠제이비전테크
3. 사 업 자 번 호 : 870-81-00261
4. 대 표 자 성 명 : 김주영
5. 소 재 지 :
   (본사) 대구광역시 중구 국채보상로 673 , 6층 비호(동인동2가, 종각빌딩)
   (공장1) [870-81-00261] 대구광역시 북구 호암로 51 213호 (대구삼성창조경제단지내 벤처오피스동)

※ 뒤쪽 「생산공장 목록」에 계속

6. 유 효 기 간 : **세부품명별 유효기간은 뒤쪽 참조**

「중소기업제품 구매촉진 및 판로지원에 관한 법률」 제9조제4항 본문 및 같은 법 시행규칙 제5조제3항에 따라 위와 같이 직접생산을 증명합니다.

2023년 01월 11일

중소기업유통센터 대표이사

* 유의사항(행정조치) : 직접생산 확인기준 미충족 및 직접생산 미이행 등 「중소기업제품 구매촉진 및 판로지원에 관한 법률」 제11조(직접생산 확인 취소 등) 등에 해당하는 경우, 직접생산 확인 취소(신청제한) 및 형사처벌, 과징금 부과 등의 대상이 될 수 있습니다.
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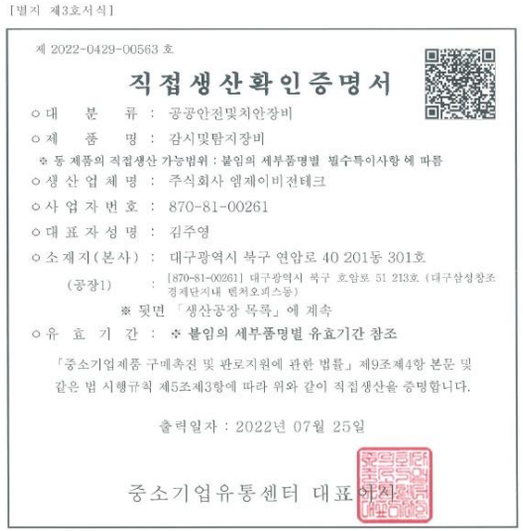
* 이 증명서는 중소기업제품 공공구매종합정보망(www.smpp.go.kr)을 통해 출력(2023-01-11 09:35)한 증명서로서 동 정보망에서 진위여부를 확인하실 수 있습니다.

Data service



[별지 제3호서식]

제 2022-0429-00563 호

직접생산확인증명서

○ 대 분 류 : 공공안전및치안장비
○ 제 품 명 : 감시및탐지장비
※ 동 제품의 직접생산 가능범위 : 붙임의 세부품명별 별수특이사항 에 따름
○ 생 산 업 체 명 : 주식회사 엠제이비전테크
○ 사 업 자 번 호 : 870-81-00261
○ 대 표 자 성 명 : 김주영
○ 소 재 지 (본 사) : 대구광역시 북구 연암로 40 201동 301호
(공장1) : [870-81-00261] 대구광역시 북구 호암로 51 213호 (대구삼성창조경제단지내 벤처오피스동)
※ 뒷면 「생산공장 목록」에 계속
○ 유 효 기 간 : ※ 붙임의 세부품명별 유효기간 참조

「중소기업제품 구매촉진 및 판로지원에 관한 법률」 제9조제4항 본문 및 같은 법 시행규칙 제5조제3항에 따라 위와 같이 직접생산을 증명합니다.

출력일자 : 2022년 07월 25일

중소기업유통센터 대표이사

★ 유의사항(행정조치)
① 하청생산 제품 또는 다른 회사 완제품 등 직접생산하지 아니한 제품, 직접생산한 완제품에 다른 회사 상표 부착제품 납품금지
(위반시, 모든 중소기업자간경쟁제품 직접생산확인 취소 및 6개월간 제신청 금지, 형사처벌)
② 생산설비의 임대, 폐각 등 직접생산확인기준 미충족 시 30일 이내에 증명서 반납
(미 반납시, 해당제품 직접생산확인 취소 및 6개월간 제신청 금지)
③ 직접생산확인받은 공장의 이전 시 30일이내 증명서 미반납 시 직접생산확인 취소
★ 이 증명서는 중소기업확인용으로 사용할 수 없습니다.
★ 이 증명서는 중소기업제품 공공구매종합정보망(www.smpp.go.kr)을 통해 출력(2022-07-25 17:59)한 증명서로서 동 정보망에서 진위여부를 확인하실 수 있습니다.

Surveillance and Detection

Company Profile

Good Software Certification

EDGE CCTV v1.0

Missing Person Tracking v1.0

AIBIS v2.0

AIBIS v1.0

Certification

제 2018111696 호

기업부설연구소 인정서

1. 연 구 소 명: (주)엠제이비전테크 기업부설연구소
[소속기업명: (주)엠제이비전테크]
2. 소 재 지: 대구광역시 중구 국채보상로 673 종각빌딩 6층 비 (동인동2가)
3. 신고 연월일: 2023년 01월 05일
(최초인정일 : 2018년 3월 30일)

※ 변경내역: 소재지 변경

과학기술정보통신부

「기초연구진흥 및 기술개발지원에 관한 법률」 제14조의 2제1항 및 같은 법 시행령 제27조제1항에 따라 위와 같이 기업부설연구소로 인정합니다.

2023년 1월 13일

한국산업기술진흥협회장

Research Institute Certification

Quality Management System
Certificate of Registration

(주)엠제이비전테크

대구광역시 중구 국채보상로 673, 6층 비호(동인동2가, 종각빌딩)

ISO 9001:2015 / KS Q ISO 9001:2015

지능형 영상분석 시스템 및 적외선 조명장치의 개발 및 제조

KCA는 위 조직의 품질경영시스템이 상기 표준과 인증범위에 적합함을 인증합니다.

유효기간: 2021.08.29.~2024.08.28.
발행일자: 2023.01.12.(주소 변경)
최초등록: 2018.08.29.
인증번호: QC-0302

Moo Sik Kim
President, KCA

KCA KAB KAB-QC-57 IAF

IAF 마크는 IAF MLA에 가입한 한국인정지원센터(KAB)로부터 KCA가 인정받았음을 나타내는 마크입니다.
KAB 마크는 한국인정지원센터(KAB)로부터 품질경영계획 인증기관으로 인정(인정번호: KAB-QC-57) 되었음을 나타내는 마크입니다.
주소: 서울특별시 강남구 광평로 280 로즈데일 1913호 Tel. 02)445-9081 fax. 02)445-9082
www.kcar.or.kr

ISO 9001

CERTIFICATE OF VERIFICATION

(주)엠제이비전테크

대구광역시 중구 국채보상로 673 종각빌딩 6층 B호

적용표준
ISO 37001:2016

인증번호 : ENCC-ABMS-003

인증범위
자능형 영상분석 시스템 개발

위와 같이 부패방지경영시스템 표준에 적합함이
윤리준법경영인증원에 의해 인증되었음을 증명합니다.

최초등록일 2023-06-02
최종계정일 2023-06-02
인증유효일 2023-06-02
인증만료일 2026-06-01

윤리준법경영인증원 원장 김재일

ISO 37001:2016 KAB-AC-15

ISO 37001

CERTIFICATE OF VERIFICATION

(주)엠제이비전테크

대구광역시 중구 국채보상로 673 종각빌딩 6층 B호

적용표준
ISO 37301:2021

인증번호 : ENCC-CMS-005

인증범위
자능형 영상분석 시스템 개발

위와 같이 규범준수경영시스템 표준에 적합함이
윤리준법경영인증원에 의해 인증되었음을 증명합니다.

최초등록일 2023-06-02
최종계정일 2023-06-02
인증유효일 2023-06-02
인증만료일 2026-06-01

윤리준법경영인증원 원장 김재일

ISO 37301:2021 KAB-CC-09

ISO 37301

CHAPTER II

AIBIS

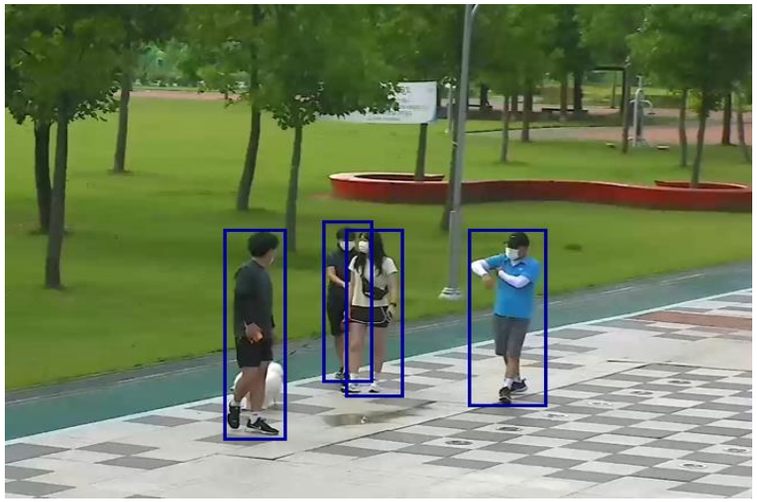
Artificial intelligence-based smart surveillance solution for crime prevention and the establishment of social safety network

VISIONTECH

Real-Time Object Detection and Classification

- Detection of more than 95% objects using deep learning artificial intelligence technology

Pedestrian

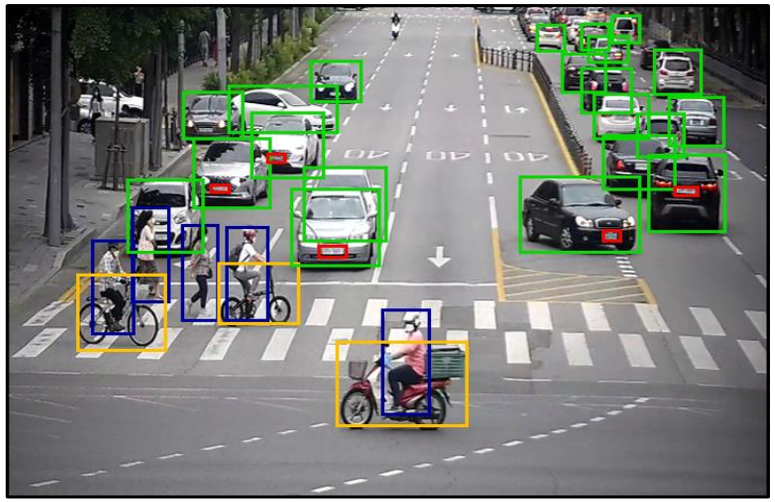


Pedestrian Information

Search hair, color, shape, type of top, color

CAR

motorcycle



Over 95% Object Detection

- Car and motorcycle obect detection
- Type of Vehicle (car, van, bus, truck, taxi)
- Color of Vehicle (7 colors)

LPR (License Plate Recognition)

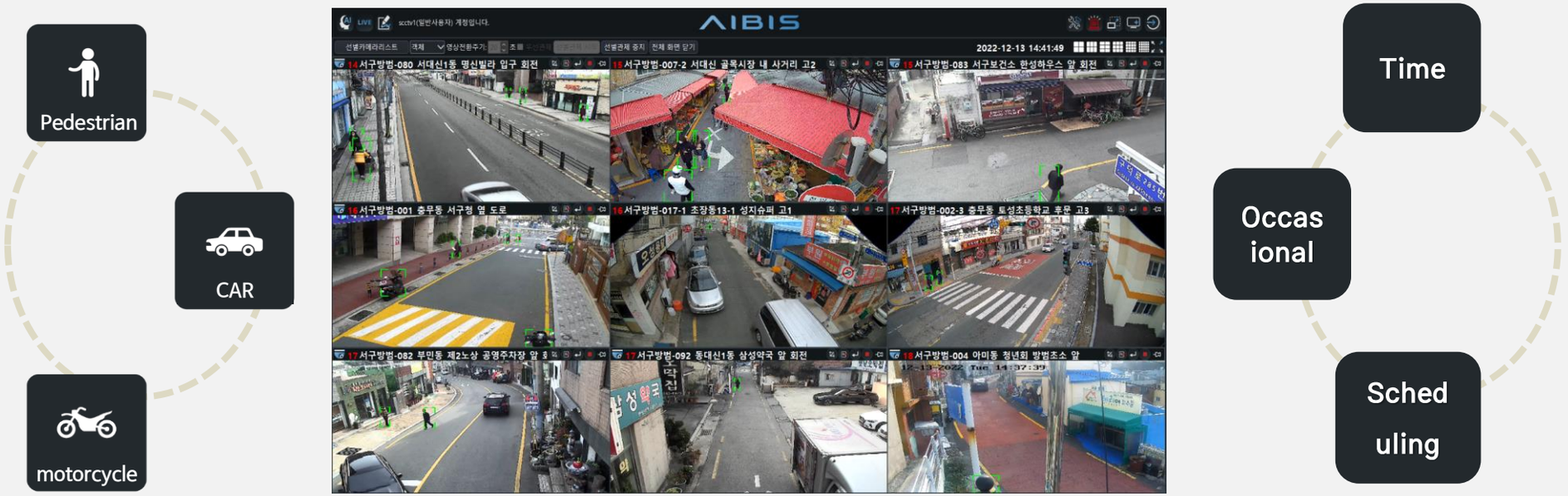
LPR(License Plate Recognition) And Object Detection

- Recognizes small-sized license plate letters from a single camera's long-distance image and supports a high number recognition rate of 99% or more even in degraded image quality by image compression

- Minimum 15pixel Recognition

AI Smart Control [Event Detection and Real-Time Alerts]

- Detect objects based on artificial intelligence and transmit them to the control screen in real time
- Detect multiple events and operate priority control mode in real time

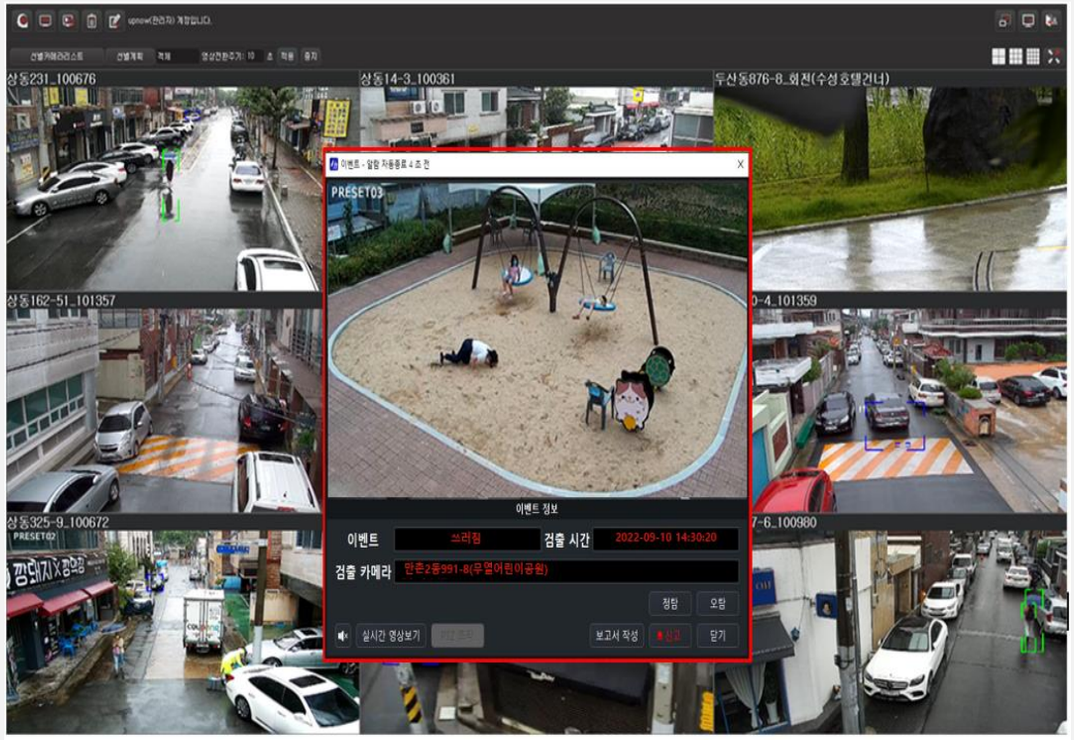


Concentrated control that requires judgment

Automated Priority Control

Smart Surveillance System

- Automatically Analyze Events and controls
- Detecting Multiple events



Alarm with Lihgts and Sound

POPUP

Analayze True Detection

Call Report

Event Detection

Intruder

Loitering

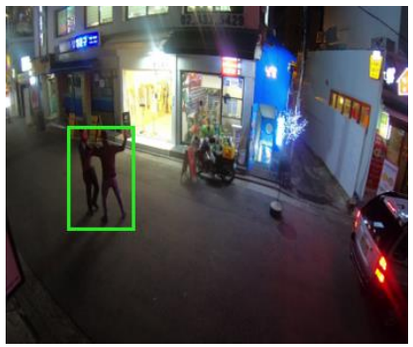
Unusual Event detection through behavior analysis

Fire

Detect Flame and Fire

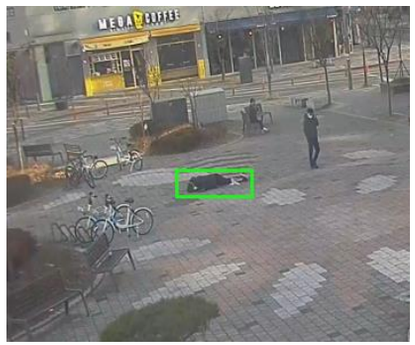
Fight

Crowding



Detection of unexpected situations through behavior analysis

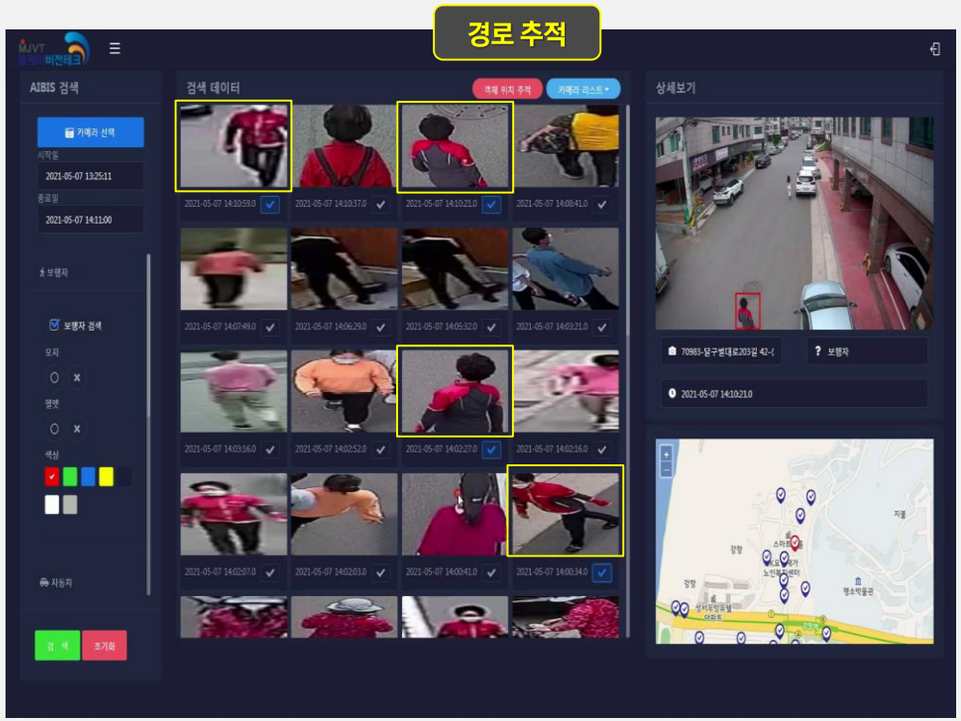
Falling



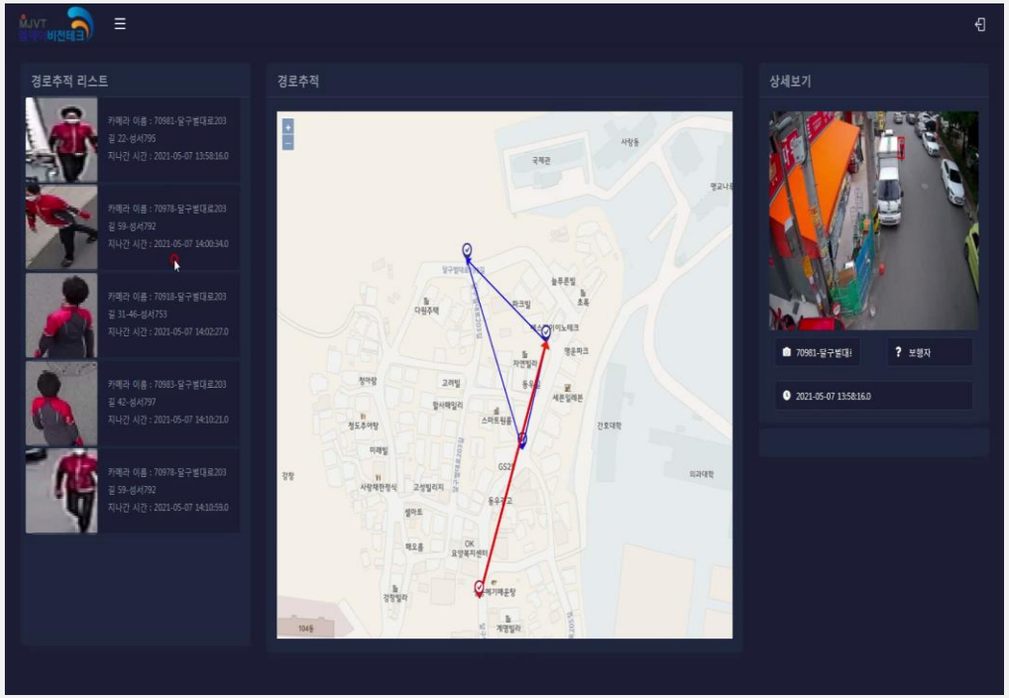
Unexpected situation detection through deep learning

Smart Search Solution System

- Searching multiple keywords-based objects and events
- Search for recognizable objects and event information to track tracks
- Path Tracking is possible when GIS in Linked



〈 Smart Search〉



〈Path Tracking〉

CHAPTER III

MAIN PRODUCTS

VISIONTECH

Main Product

Smart City

Background

AI-based smart control solution for crime prevention and social safety net construction

Features

Rapid Response/Improvement Of Crime Prevention
Reduction Of Construction/Operation Costs
Differentiated Technology
Maximization Of Control Efficiency
Proven Excellence

Function

1. Public Safety

Detect objects based on artificial intelligence and transmit them to the control screen in real time

Detect multiple events and operate priority control mode in real time

2. Residential Area

Residential area where you can live in peace: surveillance of illegal dumping of garbage, etc.

3. Park Area

Creating a safe and clean park

Advantages

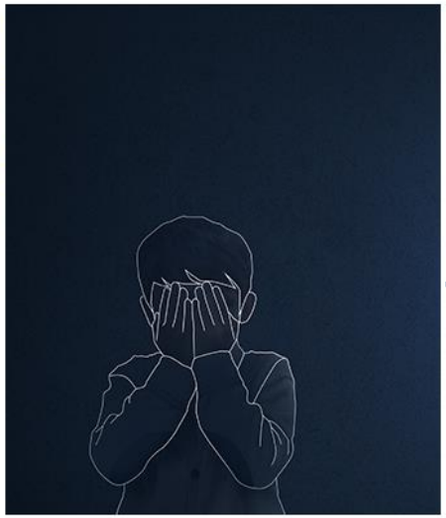
200 Channels of Video by constructing one video server
Real-time detection and notification of multiple events

Certification

Good Software EDGE CCTV 1.0

Main Product

Missing Person Tracking



Background

Developed for faster processing with real-time analysis through AI to prevent the phenomenon of missing the golden time due to consuming a lot of manpower and time to check CCTV when searching for missing children/seniors with dementia/missing people, etc.

Features

Building quality AI datasets Real-time search within the expected range by searching for the clothes of the missing person at the time of disappearance

Function

high accuracy solution

Search hair, color · shape · type of top, color · shape of bottom, type of shoes, bag, etc., and analyze people within 500m~1km based on the missing location to detect similar passers-by

01. Enter Missing Person Information

Image, attire (top/bottom/color), equipment, weather/time

02. Video Connection

Uploading collected videos or linking real-time video (local government CCTV)

03. Movement Visualization

Missing automatic line detection / real-time location search

Main Product

School

Background

Safety monitoring that minimizes blind spots to prepare for various safety accidents in schools

Features

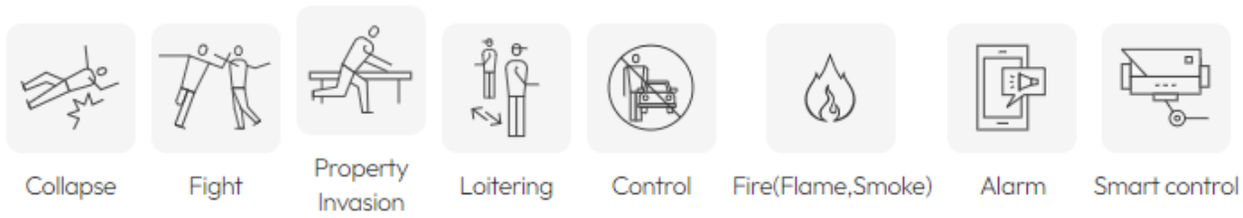
AI-based school-customized safety monitoring system

- Establish areas where school safety accidents can occur,such as hallways, playgrounds, and stairs

- Protection of school property and facilities and control of external personnel during late night and early morning hours when security personnel are absent

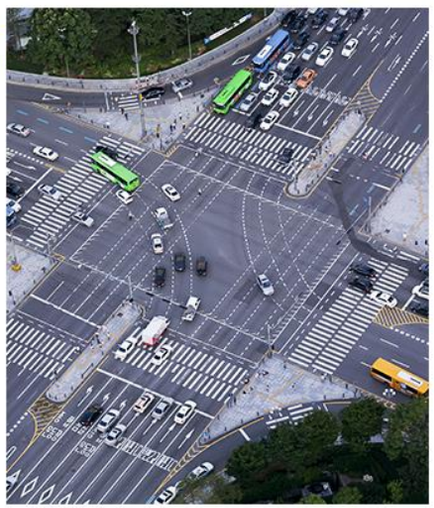
Function

1. Improving Rapid Response And Safety Accident Prevention
2. Reducing Construction Cost And Maximizing Efficiency
3. Reduction Of False Detection Rate
4. Function Customization Support



Main Product

Transportation Field



Background

Real-time traffic flow detection through analysis of traffic big data (traffic volume, accidents, construction, etc.) and deep learning, and system operation optimized for signal control through data collection and accuracy and reliability verification

Features

Smart Transportation Safety System

Utilize accumulated traffic information to reflect it in the establishment of basic urban transportation plans such as traffic flow, and prepare a foundation for social problems and transportation system improvement

Function

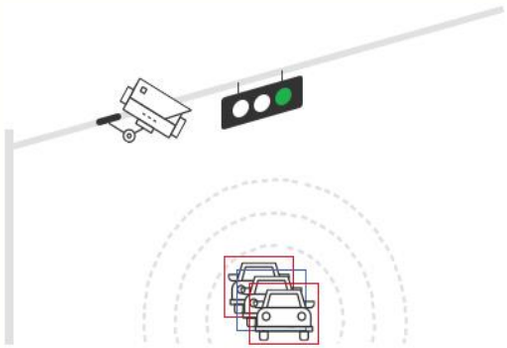
Providing smart road services

Real-time video analysis and monitoring using deep learning algorithm

-LPR(License Plate Recognition) And Object Detection

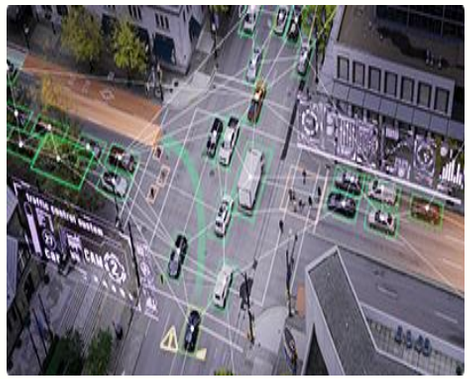
-Notification Of Registered Objects And Event Information (Search For Wanted Vehicles And Stolen Vehicles)

-Notification Of Reverse Drive On The Highway



Traffic in Collecting

Deep Learning-based formation



Serving Smart road Service

Main Product

Construction

Background

Safety accident prevention and prompt response at construction and industrial sites

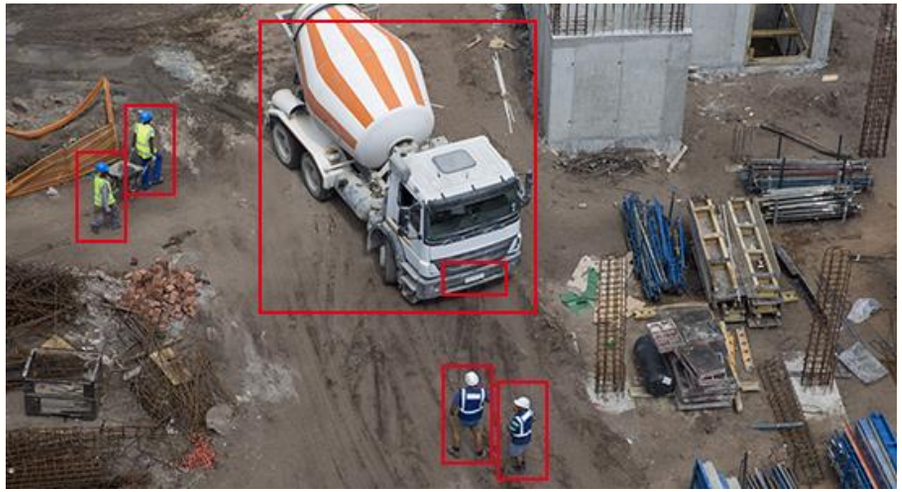
Features

Safety management and budget reduction at construction and industrial sites by introducing edge AI devices

01. Construction Site Selective Control
02. Workplace And Worker Management
03. Access Control
04. Preparation For Safety Accidents Of Heavy Equipment

Function

Field data collection/refining/processing → AI learning → convergence analysis → visualization / control / field demonstration



- Worker And Vehicle Access Management
- Worker Movement Tracking, Management Risk Behavior Recognition
- Dangerous (Violation) Behavior Alerts, Records
- Management Of Vehicles Entering Production Or Construction Sites, Prevention Of Accidents In Hazardous Areas
- Configure Edge AI With NPU And CCTV Camera Together
- Ultra-Light Real-Time Video Analysis Solution
- Integrated Monitoring Of Construction Safety, Process, Security, Etc. Based On The Acquired Data

Main Product

EDGE/EDGE AI CCTV

Features

A system that processes the image analysis algorithm, which was previously analyzed centered on the server, in a local control system

Features

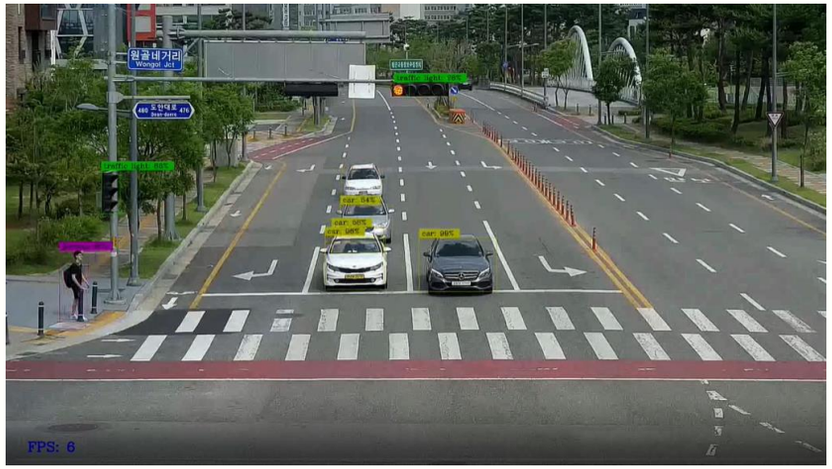
01. Independent Video Analysis CCTV Based On Edge AI Device

02. Used For Purposes Such As Parking Violation And Illegal Trash Dumping, Local Security, Etc. Through Specialized Object Recognition Functions

03. Securing Existing CCTV Compatibility And Scalability In The Form Of Camera Integration Or Edge Board Module Addition

04. Applicable To Small-Scale Local Governments Or Privately Owned Tourist Destinations

Function



-Possession Of Deep Learning-Based Object Recognition Technology

Possession of deep learning-based object recognition technology capable of real-time processing

-Edge AI Device Development Completed

-Edge AI Device-Based Smart Home Cam/Development Of Smart Traffic Information Analysis Device

Main Product

ITS

Background

Technology for recognizing objects in an autonomous driving environment, technology for vehicle control, driving situation judgment, and driving strategy decision technology are core technologies for autonomous driving, requiring high precision.

Features

Artificial intelligence-based situational awareness technology

Technology that learns and analyzes situational awareness of recognition, judgment, and control, which are core technologies of autonomous driving, by computer (image analysis technology) deep learning big data acquired through cameras

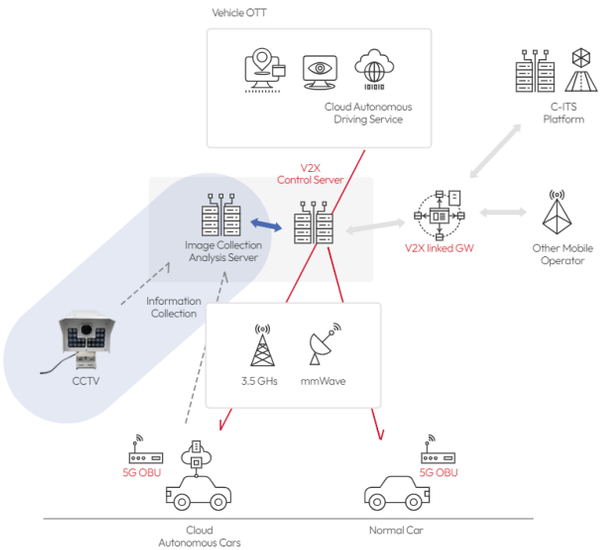
Certification

Acquired 'Top Grade' In All Performance Evaluations Of The Unexpected Situation Detection System

True Detection Rate (TDR) 100%

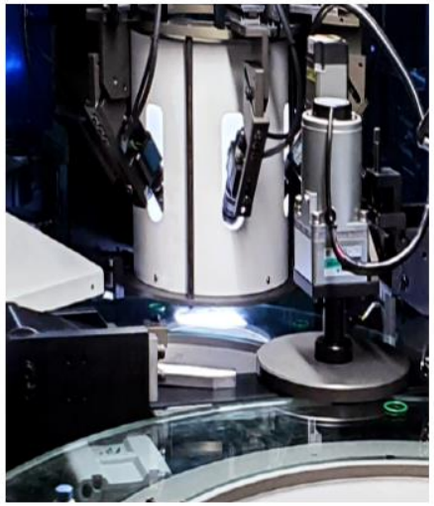
Different Type Detection Rate(DTDR) 0%

0 False Alarms (FA)



Main Product

Machine Vision



Background

As one of the processes of the smart factory, the defect rate of delivered products is minimized by determining whether the product is good or defective through a deep learning-based vision inspection machine.

Features

Assembly Automation

Reliably and repeatably inspect hundreds or thousands of parts per minute

01. Optimized Optical Setting For Inspection Target And Detection Size

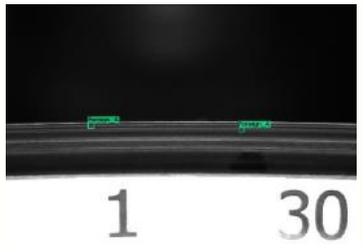
02. Excellent Defect Detection Ability By Combination Of Deep Learning And Rule Base

03. Provide Inquiry And Statistics System For Improved Quality Control

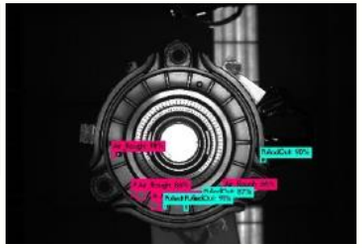
Function

Machine vision system configuration

Deep learning-based machine vision inspection system

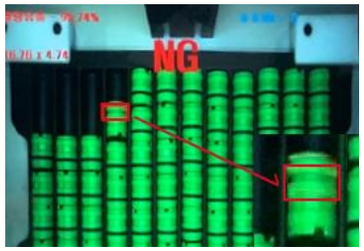


Detection of small defects

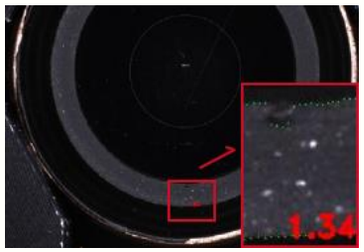


Defect detection in process

Process monitoring at each stage of assembly



Product shipment inspection



Incorporation of image processing technology

Control product supply

VISIONTECH

Thank you