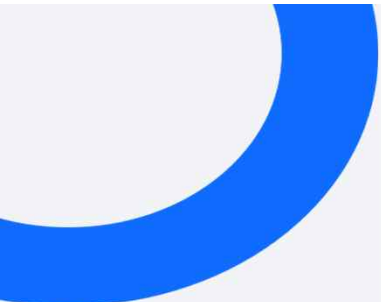




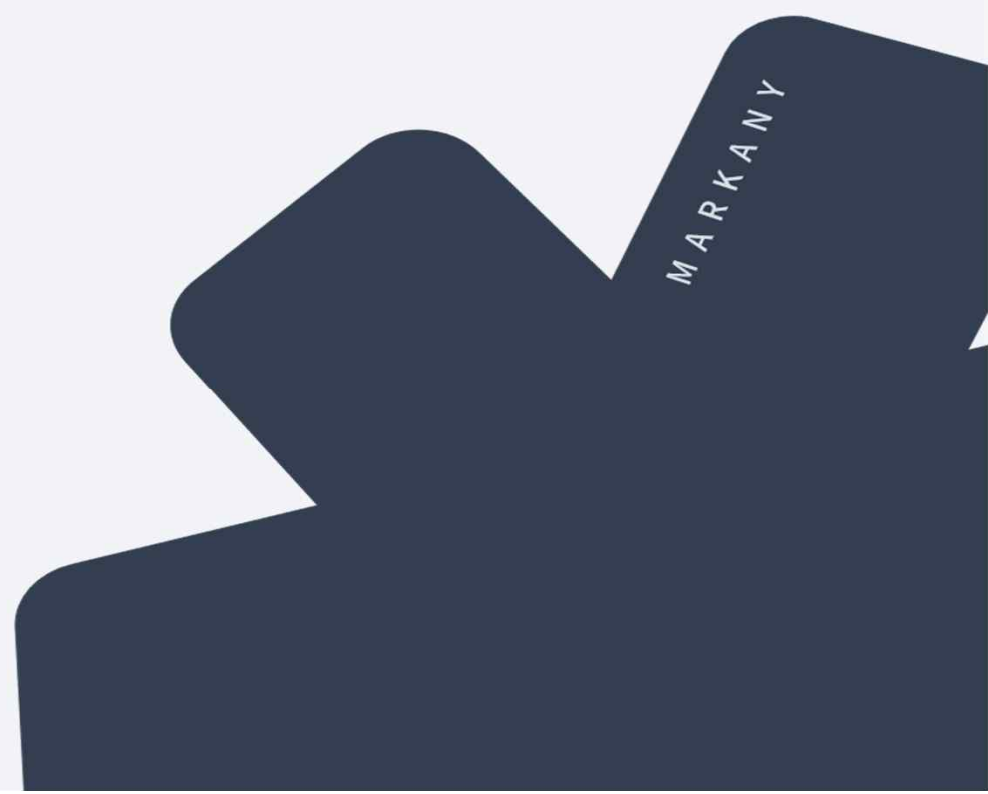
www.markany.com

AI Video Surveillance System

MarkAny Smart EYE

Build a Safer World, Protect What Matters.

MarkAny*

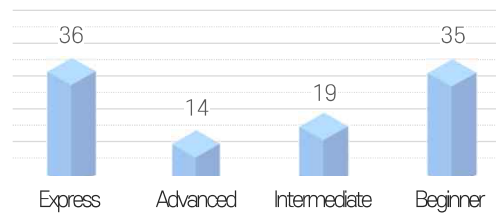


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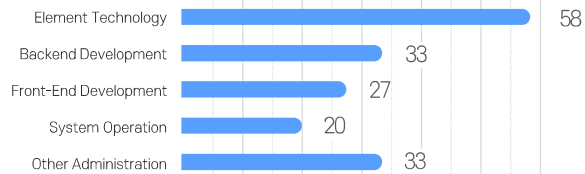
Leverage our experience with **video surveillance and control support** solutions for CCTV Integrated control centers

Status by Technician Grade/Discipline

By skill level (104 people)



Organize by discipline (171 people)



Multiple awards in artificial intelligence

- 2018, Winner of Ministry of the Interior and Safety for Video Surveillance System
- 2019, Winner of Ministry of Science and ICT at World Smart City Expo 2019
- 2020, Winner of Ministry of Science and ICT for the New SW Grand Prize
- 2023, Winner of Ministry of Science and ICT for contributions to the development of the AI industry

Leaders of AI

- Developed Korea's first image analysis AI model
- Developed Korea's first deep learning algorithm

Control Center S/W Full lineup available

- AI Video Surveillance
- CCTV Footage Export Security
- CCTV Asset Management
- CCTV Password Management
- CCTV Misuse Internal Control

Intelligent CCTV Surveillance Certification

- KISA Intelligence CCTV Solution Certification
- TTA GS Certification
- Control staffs' picks for best surveillance system

Developed Korea's first video export system

- First deployment of video export system in 2013
- 70% occupancy of 250 control centers nationwide

Our Customers



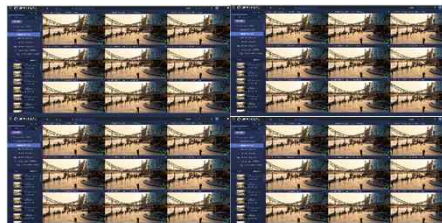
(and many others)

Integrated control S/W with full-time control(VMS), focused control, and selective control(event)



AS IS

[CCTV Surveillance]



- Scenarios set up by controllers by region and purpose
- Split screens (2*2, 3*3), switch screens sequentially according to time settings
- Meaningless CCTV video screens and monitors listed sequentially

TO BE

[Full-time + Focused]



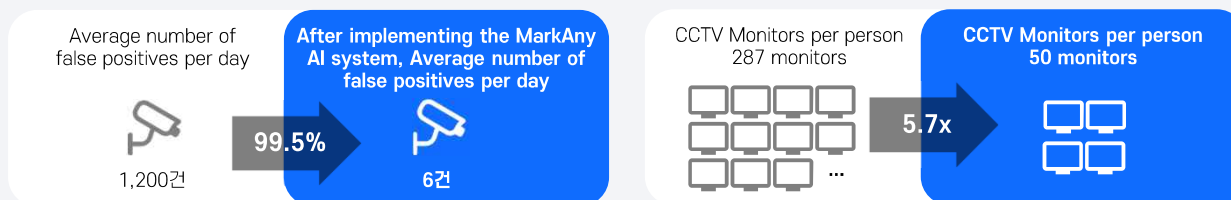
- Scenarios set by controllers by region, use, and time of day
- Display only "meaningful" footage with object identification on a split screen or map (GIS)

[Selective (event)]



- Displaying events on a map (GIS) when they happen

Dramatically improve control efficiency with free control settings



II. Introducing AI Video Surveillance System – Features



Features 01

Equipped with differentiated AI analytics models

- Optimized AI models in the control center
- Customizable analysis model with original AI technology



Features 02

Apply active deep learning techniques

- Active deep learning training module in the video analytics server
- Automatically classify and learn from false positives and undetected objects



Features 03

Optimized object/behavior analysis

- Recognize over 200 types of objects, analyze their attributes, and behavior
- Can analyze compound acts like Object + Act, Act + Act, etc.



Features 04

Unified event processing platform

- Unified management of events from various systems (services)
- Intelligent platform that analyzes event attributes, types, and duplicates



Features 05

Location-based event object tracking

- GIS-based event display and object tracking in video
- Display and track multiple events simultaneously



Features 06

Open API-based integration solution connections

- Provide a unified UI for the control center management solution (Integrated S/W)
- Integrated management of third-party solutions through API connection



Features 07

VMS-independent triage system

- Completed the integration of VMS built in Korea(15 local governments in operation)
- Provides a powerful unified control SW to replace VMS control SWs



Features 08

Provide system operations support tools

- Provide tools to monitor and manage servers in the control centers' system
- Provide container management function within the video analysis server



Self-aware and real-time detection of events, accidents, and natural disasters

Identify objects



Identify 200+ objects and compound (multiple) objects in a video

Identify object properties

[For Person]



- People: Man, Woman, Child
- Outfit : Hat, Bag , Short Sleeve /Shorts
- Colors: red, yellow , green, blue, black, gray, white, black, gray, white, etc.

[For Vehicles and Rides]



- Vehicle Type: Sedan, Bus, Truck, Excavator, Motorcycle
- Other: two-wheelers, motorized wheelchairs, scooters, strollers
- Colors: red, yellow , green, blue, black, gray, white, black, gray, white, etc.



Customizable to your needs

Behavioral analytics

[KISA Intelligence CCTV Certification]

Separation	Prowling	Intrusion	Fire Protection
Definition	Staying in an area for more than 10 seconds	Breaching fences, prohibited areas etc.	Throw away trash, bags
Points earned	90 points (96.7 points)	90 points (96.3 points)	90 points (91.8 points)
Required/Optional	Required	Required	Optional

(Certified in 2021)



[Events]



Water level



Fires



Floods



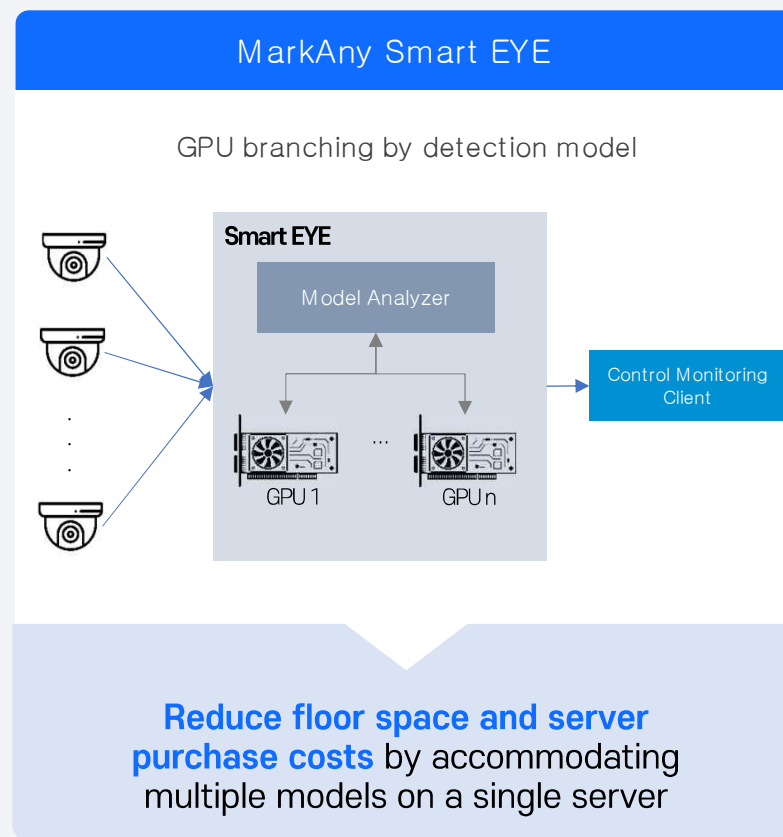
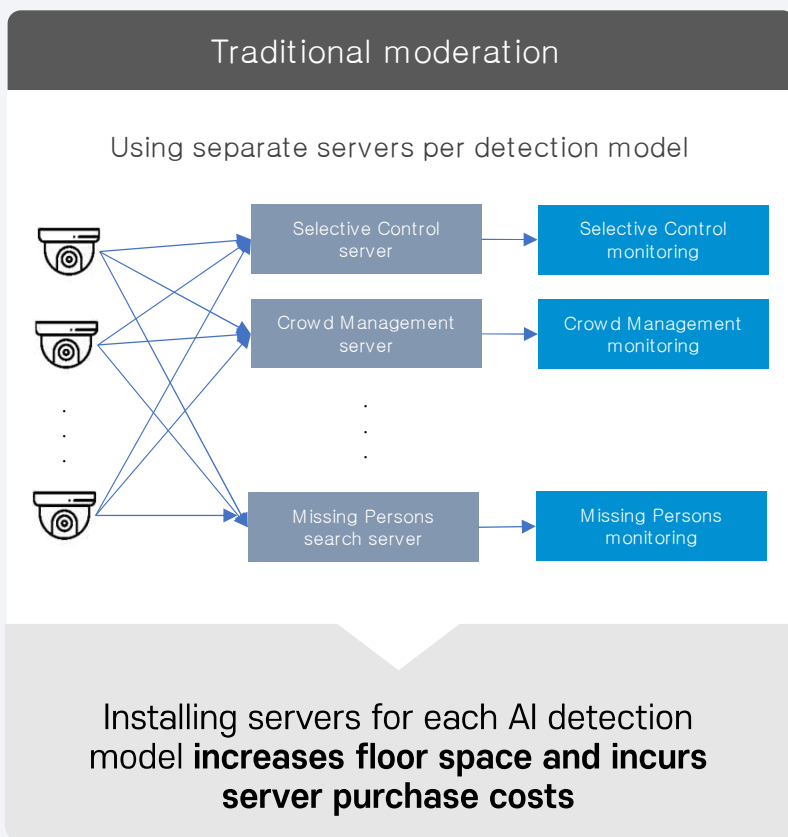
Fallen



Fighting

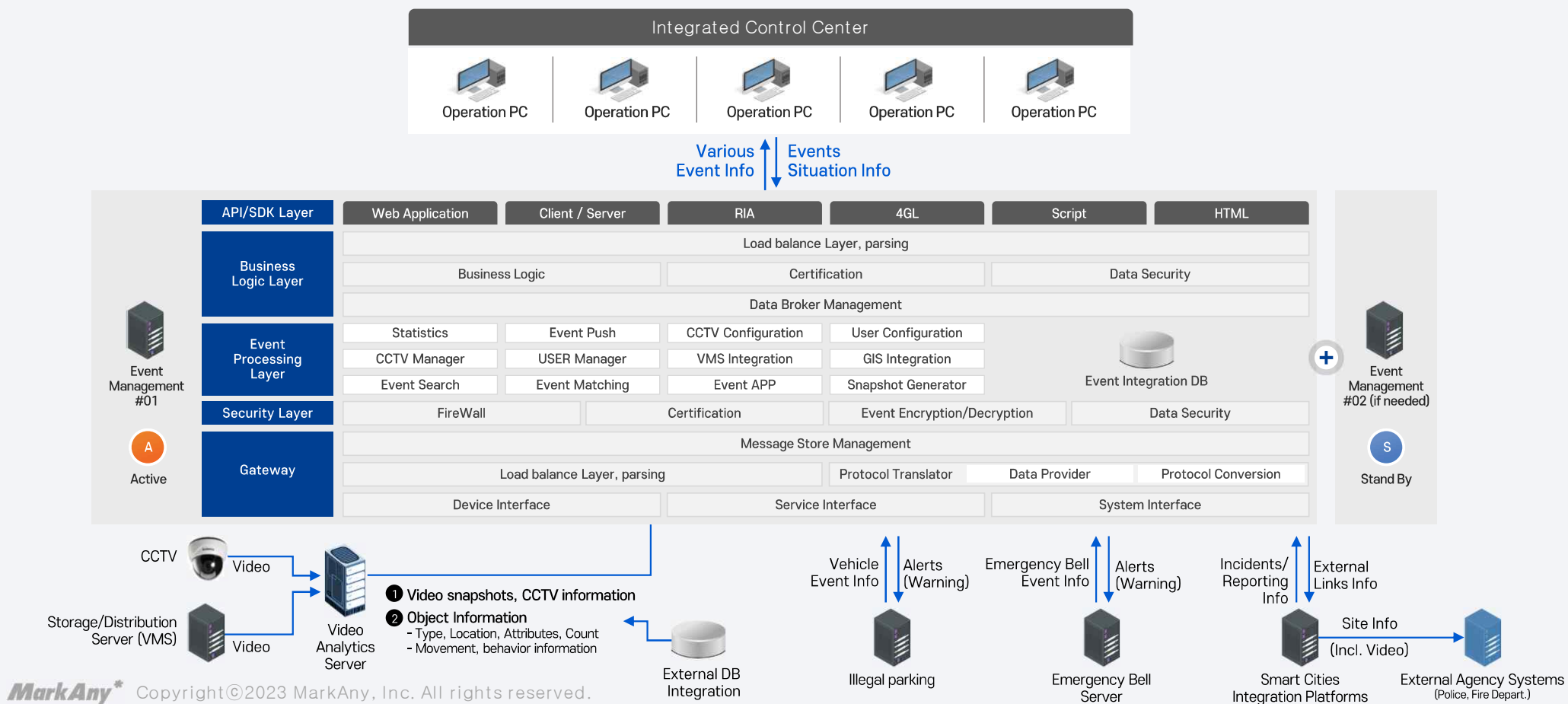
Ability to set the occurrence of compound (object+action, action+action) recognition events in videos

Apply various AI models on GPU to apply various controls **on a single server**



II . Introducing AI Video Surveillance System – Configuration diagram

Event integration platform based on standardized linkage modules for integrating various control systems



II. Introducing AI Video Surveillance System – Analysis and Detection

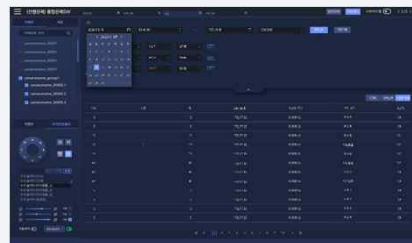
AI video analytics-based event detection with active learning



- 01 Analyze human behavior and detect anomalies (prowl, intrusion, falling down, fighting)
- 02 Analyze and detect vehicles (color, model, license plate number)
- 03 Set up pop-up and sound notifications when certain events happen
- 04 Event search function (top, bottom color, car type, car color, two-wheeler, specialized vehicles, strollers, etc.)
- 05 Fire and smoke detection for early fire prevention



View past videos



Get event status



Display event video on map



Analyze events and enter results

II. Introducing AI Video Surveillance System – Multi-crowd Surveillance

