

CCTV Asset Management System for Operating an Efficient Control Center



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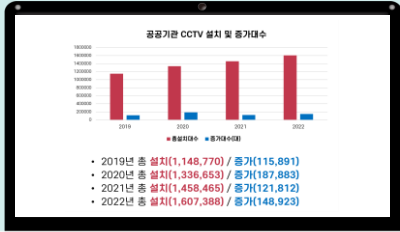
CCTV asset management solution for
control center operation

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01. Introduction

Introduction

CCTV assets growing every year



- ✓ CCTV installation in 2022: **1,607,388 pcs**
- ✓ Average annual **increase of more than 140,000 pcs**
- ✓ CCTV and Control-based assets are **increasing rapidly**

Excessive number of asset management devices per person



- ✓ **Increased AI-based CCTVs with smart, selective control function**
- ✓ **Excessive number of management devices per person** due to increasing infrastructure

Growing interest in asset management solution



- ✓ **Sprawling CCTVs and lack of management**
- ✓ There is an emerging need for efficient asset management



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02. Necessity

Necessity

① Issues

Growing CCTV and underlying assets year by year
(Average annual increase of around 100,000 pcs)

Increased cost due to growing CCTV and
underlying assets

Lack of efficient management solution

② Solution

Central agencies or local governments need to
establish a CCTV asset management solution that
offers a specific asset management process for
CCTVs and supports integrated asset management

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Asset management enables the systematic
and efficient management of assets and
failure of CCTVs and the control center



Provide optimized control asset management
function



Identify the progress of introduction/
construction of key assets in the control center,
in consideration of change of manager



Provide scalability of asset management system
of the control center





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03. Overview

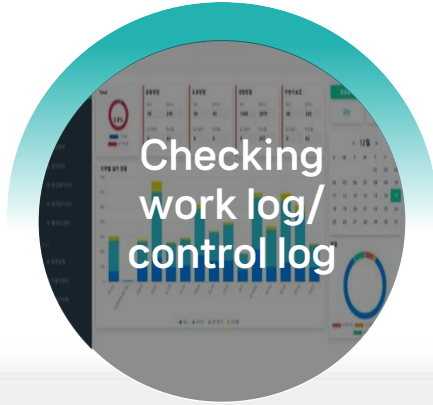
Overview

A solution that provides integrated asset management, including a CCTV-specific asset management process and management of attendance of control officers, equipment inspection logs and equipment failure

A circular graphic with a teal border containing a map with blue location markers and the text "CCTV Asset registration and management".

CCTV Asset registration and management

- ✔ Equipment registration (by location)
- ✔ Communication check by dash map location
- ✔ Inspection log/ failure log registration management

A circular graphic with a teal border containing a dashboard with various charts and the text "Checking work log/control log".

Checking work log/control log

- ✔ Check CCTV installation status by type and location
- ✔ Check daily inspection/failure log
- ✔ Check Operation/non-operation rate **using a network reply**

A circular graphic with a teal border containing a dashboard with a table and the text "Real-time equipment failure management".

Real-time equipment failure management

- ✔ Check real-time failure of the dashboard
- ✔ Prompt instructions for inspection by location



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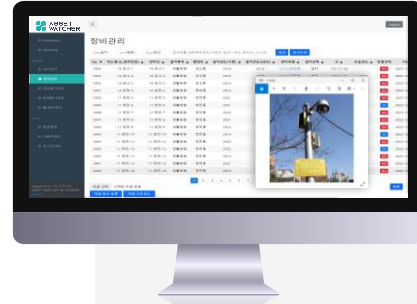
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04. Main Functions

Main Functions



Control officer
management
function



CCTV equipment
registration
function



CCTV equipment
management
function



Equipment failure
management
function



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05. Detailed Functions

Detailed Functions

01 – Control officer management function

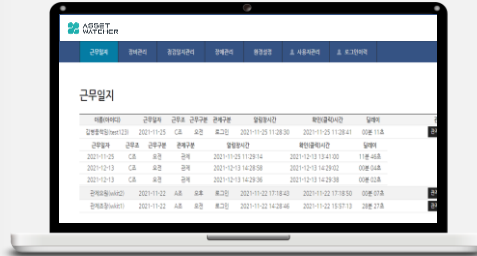
Detailed Functions

- ✓ Register the control officer's work log
- ✓ Check the work log by the manager
- ✓ Allow the manager to send instructions via the notification window and identify when the control officer checked the notification
- ✓ Allow to use the Work on Hold and Work Termination function in the management of work

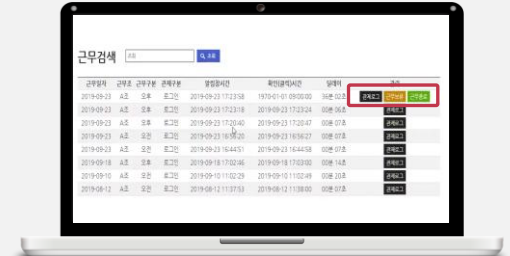


Expected Effects

- ▶ Efficient attendance management with the systematic management of the control officer's work



Work log



Work management

Detailed Functions

02 – CCTV equipment registration function

Detailed Functions

- ✓ Register CCTV specification, photo and location
- ✓ Register **the name, purpose of use, IP address and location of equipment** in the registration of equipment specification
- ✓ **Allows** to register equipment photo **chosen by the user**
- ✓ Allow to register GIS-based equipment location(including latitude/longitude information)

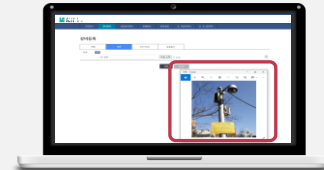


Expected Effects

- ▶ Enable a systematic management of the information, appearance and location of equipment by registering specifications, photos and location of equipment



Registering equipment specification



Registering the photos of equipment



Registering equipment location

Detailed Functions

03 – CCTV management functions

Detailed Functions

- ✓ Check the specifications, photos and location of equipment registered in the system
- ✓ Allow to check the registered equipment based on GIS, and represent densely placed equipment in an narrow area using numerical values
- ✓ Register equipment inspection log



Expected Effects

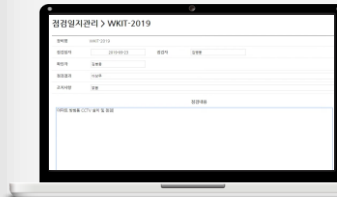
- ▶ Enable to keep the equipment in the best condition with the systematic equipment inspection and management



Checking the registered equipment (Bulletin board type)



Checking the registered equipment (Map type)



Registering equipment inspection log



Checking equipment inspection log

Detailed Functions

04 – Equipment failure management function

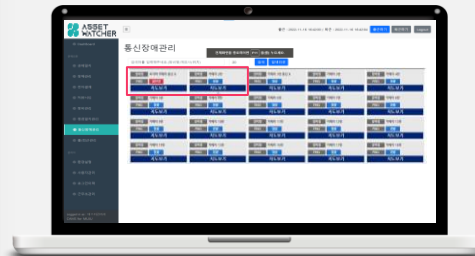
Detailed Functions

- ✔ Check the failure information of all equipment managed within the dashboard
- ✔ Check the failure information of the chosen equipment on the map based on GIS
- ✔ In case of failure, "Unstable" message pops up



Expected Effects

- ▶ Provide real-time equipment failure information for the manager's Immediate response
- ▶ Save cost with fast response to failures



Equipment failure management
(Dashboard type)



GIS-based equipment failure management
(Map type)



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06. Operational Specification & System Overview

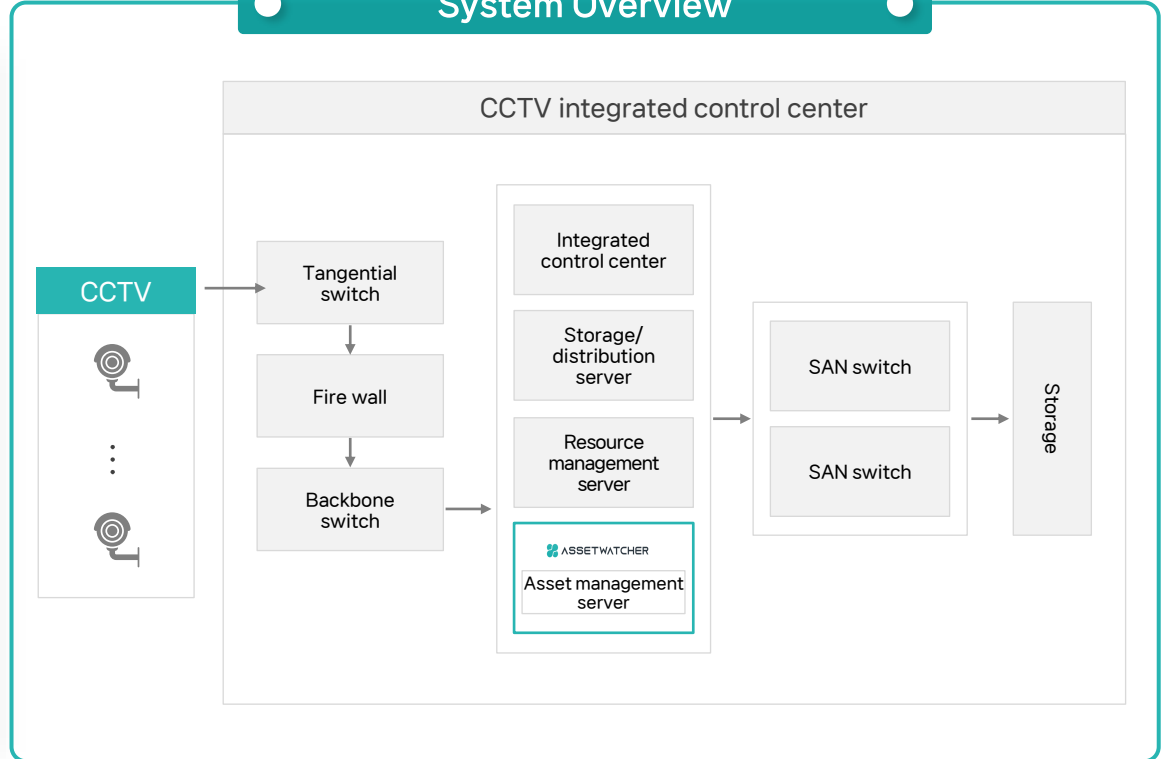
Operational Specification & System Overview

Operational Specification

✓ Server environment

- OS: Cent OS 7
- CPU: CPU Intel(R) 2234G
(4Core, 8Thread, 3.6GHz)
- RAM: 8 G or higher
- Webservice: Apache 2.x
- Installation capacity: At least 2 TB
- DB: MariaDB

System Overview





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07. Expected Effects

Expected Effects

Ensure efficient management of assets

- ✓ Provide an optimized management system and functions
- ✓ Effective management of assets operated in the control center by location
- ✓ Intuitive and integrated system operation function



Ensure efficient operation of the control center

- ✓ Ensure efficient management of control officers with attendance management
- ✓ Save cost by optimizing personnel and materials for CCTV asset management





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