

# AINavi-CMS

## AI Smart City Solution Central Management System



### Features

- User-friendly UI design
- 8 channel real-time video AI inference
- Pre-installed pedestrian and vehicle AI models
- 9 x AI event detection
- Supports 1 ~ 4 x digital zoom
- Support 4-bit DI/4-bit DO control settings

### Introduction

Advantech's AINavi-CMS is an AI smart city solution power by Yuan that enables users to monitor up to 8 x 1080P IP cameras. It leverages powerful NVIDIA Jetson AGX Xavier processors that empower AI inference and support custom layouts such as 1x1, 2x2, 1+3, and 3x3. In addition, this solution's powerful digital zoom enables the detailed surveillance of designated areas — including store and warehouse interiors, and streets. Users can use preinstalled pedestrian and vehicle AI models, AI object recognition, and line and area detection to monitor up to 9 x events. This solution also features a user-friendly UI and provides utilities like system health check, recycle recording, record, and event detection scheduling.

### Specification

System Mgmt.	User group	Default manager (setting) user
	System status	Check CPU, GPU, and RAM usages
Setting	Camera	Search, group, and naming
	DIDO	4-in/4-out 8bit DIDO
Record	Channel number	8 channels (max.)
	IP streaming protocol	RTSP, OnVIF
	Record file format	H.264, raw data
	Special record mode	Event trigger record Schedule record
Live view	Custom layout	1x1, 2x2, 1+3, and 3x3
	Focus view	1+3 channel swappable
	Digital zoom	Zoom-in (100 ~ 400%)
Playback	Playback by time	Set playback by hour, minute, or second
	Playback by event	Playback by event
	Synchronized playback	8 channel synchronized playback
	Speed	1x,2x
	Export file format	H.264
Search	Event Search	Event type, time, and area
AI	Pre-built AI models	Pedestrian Vehicle types <ul style="list-style-type: none"> <li>▪ bicycle/scooter</li> <li>▪ car</li> <li>▪ truck/bus</li> </ul> object tracking
	Event management	Add, save, cancel, and delete scheduling
	Event	AI events <ul style="list-style-type: none"> <li>▪ Objects Crossing Line</li> <li>▪ Objects in Area</li> <li>▪ Objects Enter Area</li> <li>▪ Objects Leave Area</li> </ul> <ul style="list-style-type: none"> <li>▪ Object Absent in Area</li> <li>▪ Object Loitering in Area</li> <li>▪ Object Stop In Area</li> <li>▪ Object Direction Violated</li> </ul>
	Detection	Polygon settings Line settings Direction settings
	Notification	OSD popup Event log: icon, color, number, and name

### Ordering Information

#### SW License

Part Number	Description
Y5A710I000	A1100N8 USB CMS

#### Inferencing Platforms

Part Number	Description
MIC-730IVA	MIC-730IVA is an edge AI NVR with powerful NVIDIA Jetson AGX Xavier SoM for 8-ch IP cameras AI inference