

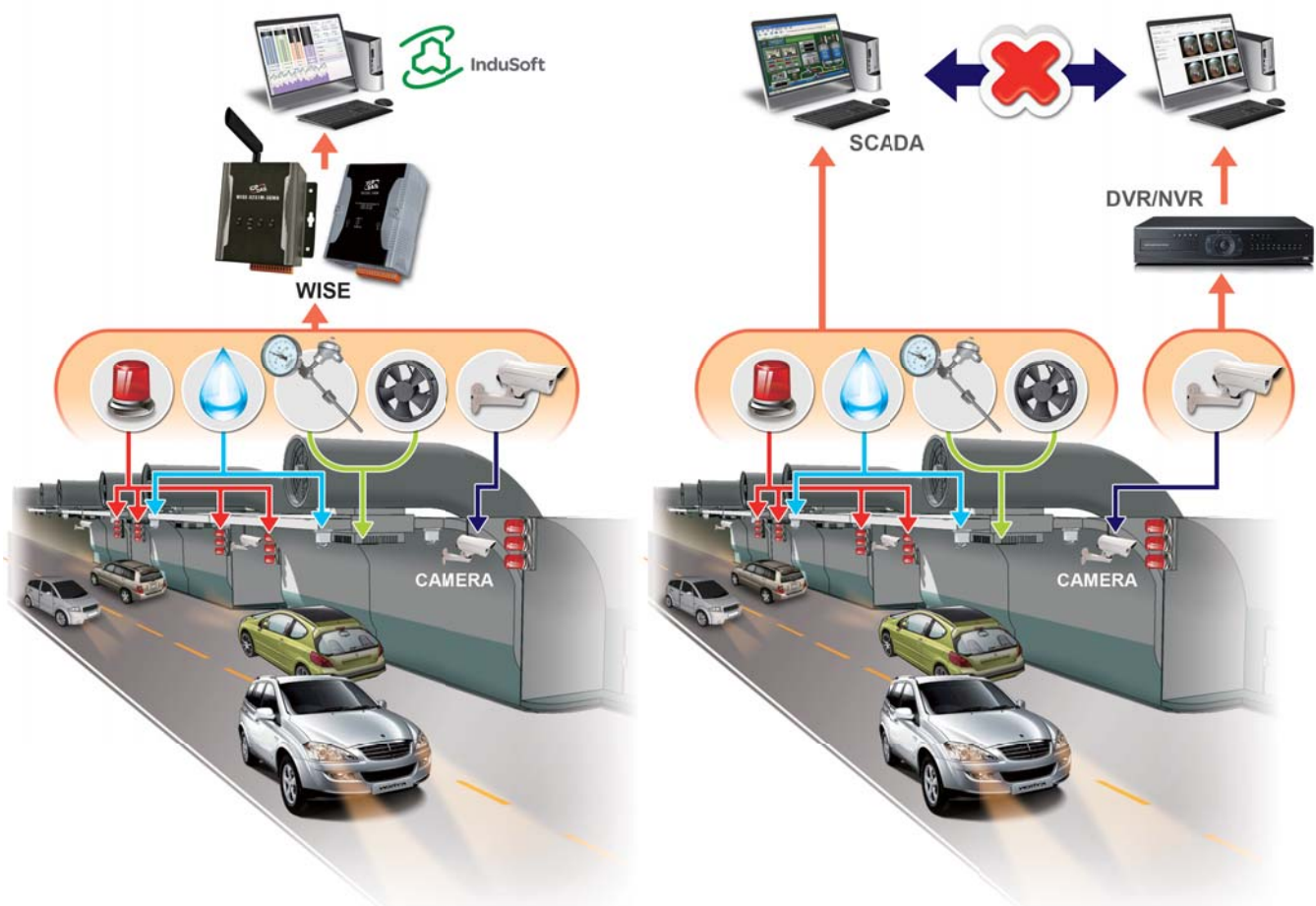
WISE Surveillance Solution With iCAM Camera

A general surveillance system on current market usually features separated systems: the camera DVR/NVR as a system, and the I/O monitoring as another system; each system operates independently. For now the DVR/NVR system of the camera usually records video for 24H/7Day without interruption, it requires huge storage space and sufficient network bandwidth; therefore the system implementation fee is usually high. In addition, when playback a certain video, it does not allow to search the suspicious activities of related I/O (temperature, doors and windows switch, water level, etc.) at the same time.

ICP DAS WISE surveillance solution integrates logic control, I/O, camera and data log in one single WISE controller. WISE allows two-way interactions between the I/O and the camera; it enables to record a piece of video or to take images when there is an event triggered by either I/O condition or ROI (Region of Interest) by camera. In this way, the storage size can be reduced significantly and the connection between I/O event and Video/Image can be built for easy query.



ICP DAS WISE Surveillance Solution	Regular Surveillance Solution
1. One WISE controller to integrate camera and I/O	1. Two independent systems: SCADA & DVR/NVR
2. Records key video and image, only needs a few storage memory.	2. Record video 24H/7Days, needs huge storage memory.
3. Two-way interaction between I/O and Video/Image	3. I/O and Video/Image are independent
4. Can work stand along or be integrated into a SCADA system	4. Needs a host PC to run the SCADA
5. One stop shopping/service for <ul style="list-style-type: none"> ● Controller: WISE Series ● I/O Modules: Various options for RS-485, Ethernet interfaces ● Camera: Bullet, Fisheye, Dual Lens ● SCADA: InduSoft 	5. Buy from different vendors for SCADA, I/O Modules, DVR/NVR



WISE Introduction

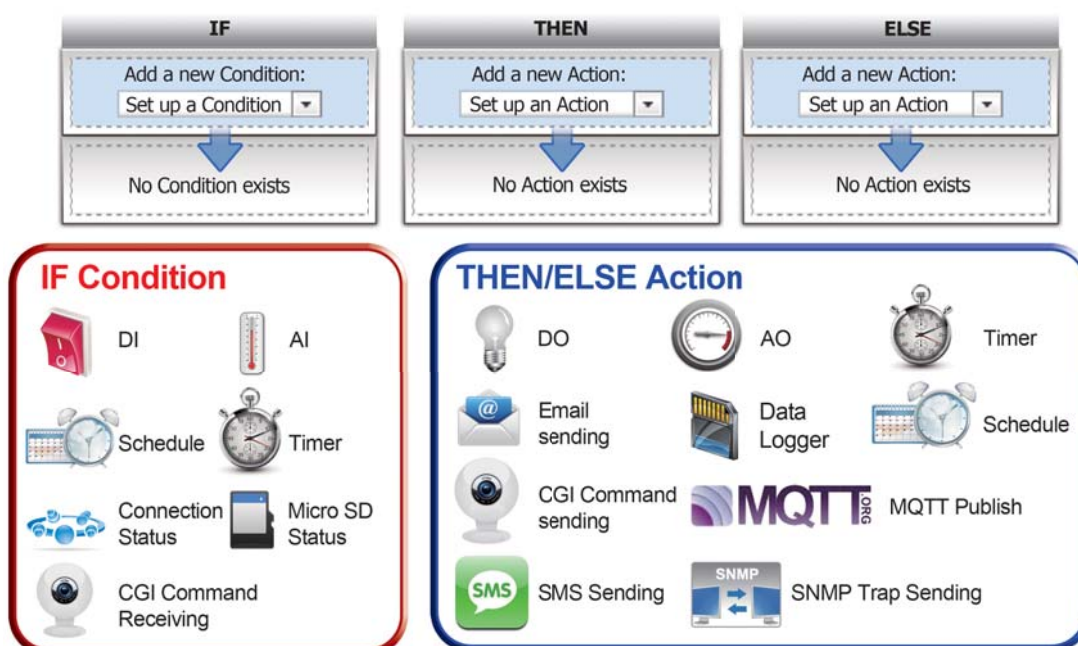
WISE (Web Inside, Smart Engine) is a product series developed by ICP DAS that functions as control units for use in remote logic control and monitoring in various industrial applications. WISE offers a user-friendly and intuitive web site interface that allows users to implement IF-THEN-ELSE control logic on controllers just a few clicks away; no programming is required. With its powerful and easy-to-use features, it will minimize the learning curve, shorten time to market and dramatically reduce the labor and cost spent on system development.

WISE System Architecture



IF-THEN-ELSE logic rules execution ability

WISE controller features an IF-THEN-ELSE logic rule engine; it offers IF-THEN-ELSE rules for users to set up the logic content. After completing rule edition and downloading rules to the WISE, the rule engine will loop execute the rules in accordance with the execution order under specific conditions.



Offer various options for I/O channel settings

WISE offers various options for I/O channel settings; for example: noise filter for DI signals, Deadband setting for AI signals, linear scale setting, temperature degree in Celsius or Fahrenheit setting, power on value setting for DO channel, pulse output setting and DI/DO counter setting, etc.

Modbus RTU Module List

No.	Address	*Module Name / Nickname	Polling Timeout(ms)	Retry Interval(secs)
1	1	M-7024	1000	5
2	2	M-7018	1000	5
3	3	M-7060	1000	5
4	4	DL-302	1000	5
5	5	IR-712A	1000	5

Buttons: Setting, Move Up, Move Down, Copy, Remove

AI Attribute | DO Attribute | **AI Attribute** | AO Attribute

Channel Name	Type	Scale
Ch.0	-150 mV ~ 150 mV	Minimum: 0 Maximum: 0 Unit:
Ch.1	-150 mV ~ 150 mV	Minimum: 0 Maximum: 0 Unit:

▲ AI Channel Setting Page

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System Setting | **Module Setting** | Logger Setting | IoT Platform Setting | Advanced Setting | Rule Setting | Channel Status

Module Setting | XV-Board Setting | **Module XV310 Setting**

XV-Board Setting | Remote I/O Module Setting

Nickname:
Description:

DI Attribute | **DO Attribute** | AI Attribute | AO Attribute

Channel Name	Power On Value	Advanced Function
Ch.0	OFF	Disable
Ch.1	OFF	Pulse Output
Ch.2	OFF	Auto OFF
Ch.3	OFF	DI Status Mapping

Buttons: OK, Cancel

▲ DO Channel Setting Page

Provide Timer and Schedule operation

WISE features Timer and Schedule functions: It allows user to schedule specific date or time for control logic execution, or perform specific tasks such as time delay. With calendar user interface provided, Schedule setting can be more efficient and flexible.

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Web Anywhere, Automation Anywhere!

202.1MB(Approx.366 Days) | Instant Message

Advanced Setting | **Schedule Setting** | Schedule Schedule 1 Setting

Internal Register Setting | Timer Setting | **Schedule Setting** | Email Setting | SNMP Trap Setting | CGI Command Setting | Active I/O Setting | Channel Status Setting

Schedule Schedule 1 Setting

*Nickname: Schedule 1
Description:

Schedule Content Setting

Mode: ☒ Calendar ☐ Repeat

Date: Starting Month: 2017 February
Duration: 1 Month(s)

*Time Range(s): 08:30:00 ~ 17:30:00
Buttons: Add, Remove

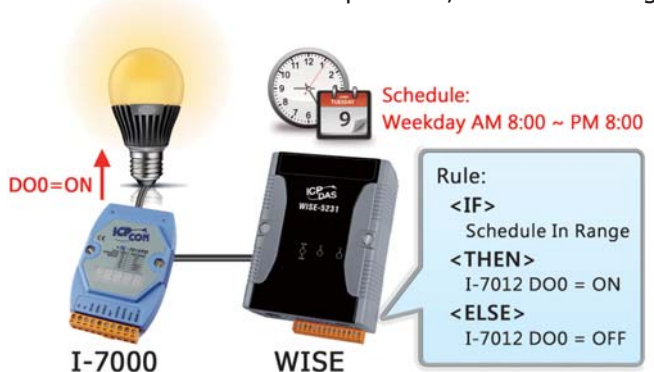
Select All | Unselect All | Select Weekday | Select Weekend

2017 / 2

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

Buttons: In Range, Out of Range, OK, Cancel

▲ Schedule Function



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System Setting | Module Setting | Logger Setting | IoT Platform Setting | **Advanced Setting** | Rule Setting | Channel Status

Advanced Setting | **Timer Setting**

Internal Register Setting | **Timer Setting** | Schedule Setting | Email Setting | SNMP Trap Setting | CGI Command Setting | Active I/O Setting | Channel Status Setting

Timer Setting Page

Nickname: Initial Status: Stop Period: Assign Period 1 second(s)

Buttons: Setting, Copy, Remove

Buttons: Save

Well-thought-out CGI command operation with IP Camera

WISE supports full CGI command operations - CGI command sending and CGI command receiving. The CGI command sending action can be added to the logic edition as part of logic control in response to specific events. The CGI command receiving function enables WISE to receive the CGI commands from others network devices. The content of CGI command received can be used in IF condition statements to trigger the THEN/ ELSE actions.



IR Bullet Network Camera



iCAM-721F



Introduction

iCAM-721F is a professional bullet camera offering 1080p Full HD resolution with super image quality up to 30 fps. Featuring 3-Megapixel resolution and high-performance H.264/MPEG-4/MJPEG compression technology, the iCAM-721F offers extra-smooth video and wide coverage.

iCAM-721F employs many advanced features to allow users to fully utilize the high definition video. Focus on a region of interest (ROI) in the camera view to enhance image quality. It also saves the cost of network and backend storage without network bandwidth of video streaming.

Aimed at outdoor surveillance, iCAM-721F is furnished with a fixed lens, a removable IR-cut filter, 15-meter IR illuminators, Wide Dynamic Range (WDR), and multi-functional environment profile image settings for superior image quality around the clock. Moreover, the IP67-rated housing protects against rain and dust and ensures functional operation in all types of weather conditions.

With other advanced features such as motion detection, 802.3af compliant PoE, ONVIF Compliant for interoperability, built-in microSD/microSDHC/microSDXC card slot for storage, two-way audio, and digital input / output for alarm, the iCAM-721F is an all-in-one bullet network camera for detailed surveillance in outdoor environments.



IR Fisheye Network Camera



iCAM-771



360° Panoramic View



180° Panoramic View

Introduction

iCAM-771 is the Fish-eye IR Network Camera, featuring a detailed 5-Megapixel resolution sensor with clear image quality. Equipped with a fish-eye lens for 360°/180° panoramic view without blind spots, certified ImmerVision Enables 2.0, the cameras are able to provide coverage of wide, open areas, such as airports, shopping malls, factories, parking lots, retail stores, offices and more.



Dual Lens Panoramic Dome Network Camera

iCAM-760D



iCAM-760D
with outdoor
6" dome housing

Features

- 2 x 5 Megapixel Progressive CMOS Sensor
- Smooth 15 fps@High 7.3 Megapixels Resolution (3840 x 1920)
- H.264/MJPEG Dual Codec
- 1.05 mm non-linear Fisheye Lens + 6/8/12/16 mm Fixed-focal Lens
- Removable IR Cut, Day & Night Function for Both Sensors
- eWDR Image Enhancement for Extreme Lighting Condition (too Bright/Dark)
- Various Display Modes Selectable for Different Applications
- ePTZ, Auto Pan, Auto Patrol Function on Fisheye Lens
- Two-way Audio
- Built-in microSD/microSDHC/microSDXC Card Slot for On Board Storage
- Weather-proof IP66-rated Outdoor Housing
- Built-in 802.3af Compliant PoE
- ONVIF 2.2 Compliant for interoperability

Introduction

Panorama and detail, iCAM-760D dual lens camera provides a professional single camera solution. Integrated with Dual 5-Megapixel sensors, one equipped with f 1.05mm non-linear fisheye lens offers 180/360 degree de-warped image (single or multiple), for the other sensor, lens is 6, 8, 12, 16mm optional. Dual sensors gimbals work independently and can be configured to almost any direction, and de-warping algorithms are 180/360 degree selectable depends on fisheye lens configuration. Wide Dynamic Range and IR cut removable are available for both sensors. iCAM-760D offers a professional and efficient solution for commercial, industrial, and public areas.



360° Panoramic View + Fixed-focal View



180° Panoramic View + Fixed-focal View



180° Triple View + Fixed-focal View



Quad View + Fixed-focal View

