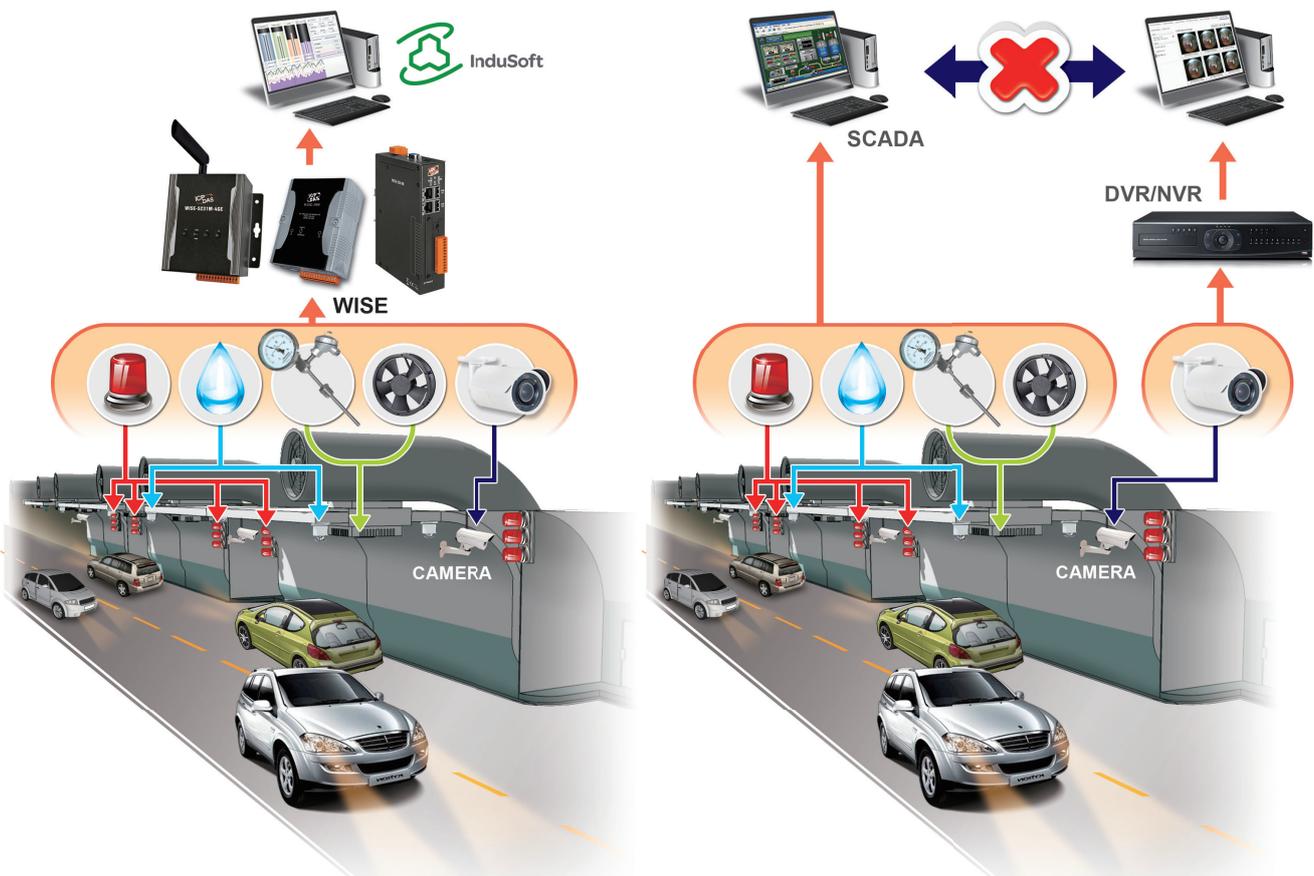


Intelligent Surveillance Solution: WISE + iCAM IP Camera

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.

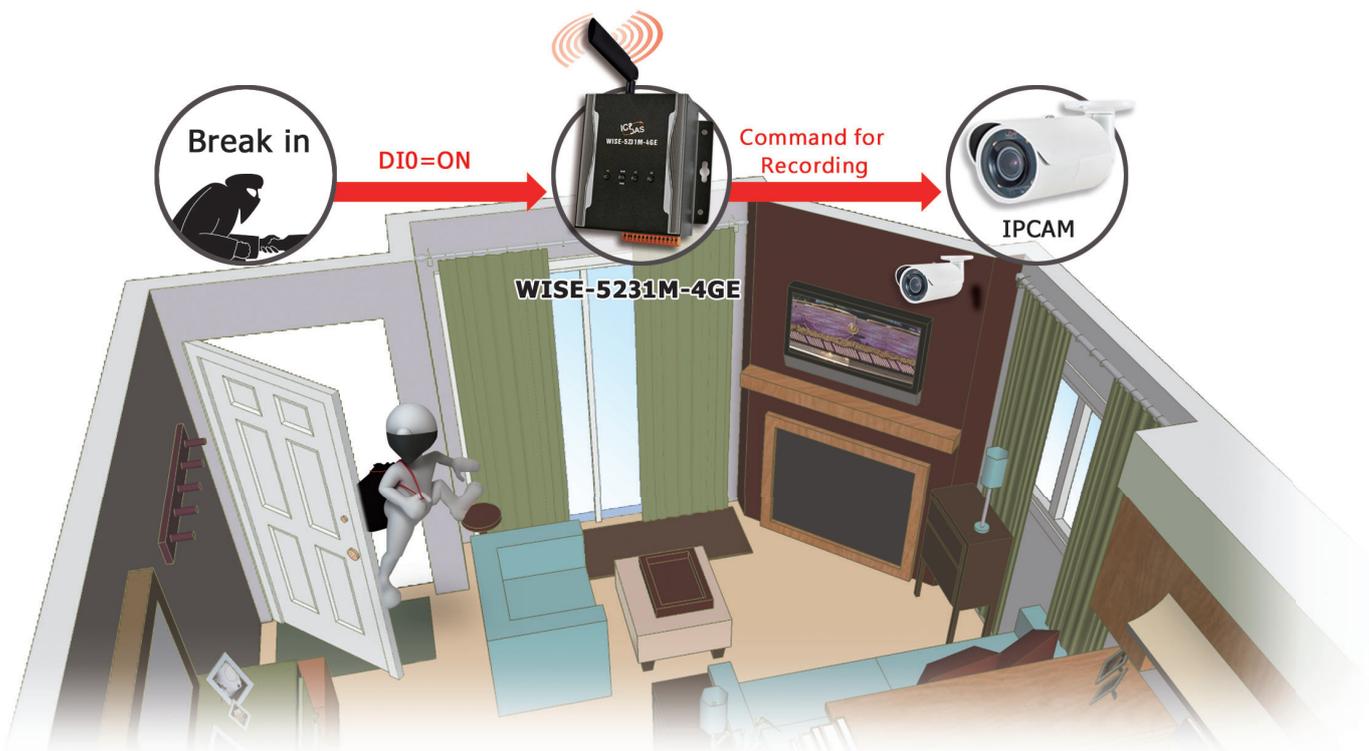
ICP DAS WISE surveillance solution integrates logic control, I/O, camera and data log in one single WISE controller. WISE allows two-way interactions between the I/O and the camera; it enables to record a piece of video or to take images when there is an event triggered by either I/O condition or ROI (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: iCAM Series IP Camera ● SCADA: InduSoft 	5. Buy from different venders for SCADA, I/O Modules, DVR/NVR



Perform Interlocking Operations of I/O & Video Recording by IP Camera

WISE-523x/WISE-2x4xM supports ICP DAS iCAM IP Camera series. Users can trigger the connected IP camera to perform snapshot or video recording with IF-THEN-ELSE logic rules. WISE-523x/WISE-2x4xM provides the IP Camera Status webpage to display the event list ordered by time, and you can just click and play the images or videos on the browser. In addition, WISE-523x/WISE-2x4xM provides remote backup mechanism to upload images and videos to the remote FTP server automatically.



■ OSD (On Screen Display)

WISE-523x/2x4xM can connect with iCAM series IP cameras. There are two methods to get images and videos:

- (1) If-Then-Else rule sends commands to trigger camera to take snapshots and/or a video.
- (2) Camera takes snapshots and/or a video when senses motion event. And then sends the snapshots and/or video to the WISE controller.



Camera Name on OSD	Yes
Time Stamp on OSD	Yes
Text Message on OSD	Yes, user defined (Chinese and English fonts)
No. of LINE Notification	2

■ OSD with camera name, time stamp and user's defined text message.

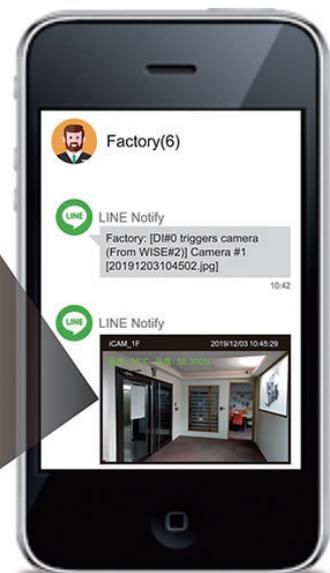
WISE controller has to send **2** LINE notifies to delivery completed information.

```

DI#0 triggers camera
From WISE#1
<IF>
XV-Board XV310 DI0=Status Change
<THEN>
iCAM-MR6322(192.168.255.2:80) Snapshot Capture(One Time)
<ELSE>
No action
    
```

◀ If-Then-Else rule

▼ LINE APP chat room



IP Camera : iCAM Series

Auto Focus IR IP Bullet Camera



iCAM-ZMR8422X

**Bullet Type/
Auto focus with zoom**



iCAM-ZMR8422X is a day & night 2MP auto-focused vandal resistant bullet IR IP camera. It features a full HD 2.0 megapixel CMOS image sensor. The camera has built-in IR-cut filter which allows clearer images at day and night operations even in the low lux condition.

The high efficiency IR LED radiant distance can extend up to 30 meters. Its auto-focus feature allows users to automatically focus the camera from a distant location. With motorized lens, all you need to do with zoom/focus adjustments is simply a click on browsers. Support with privacy mask, 3D noise reduction, 2D WDR function, and HDR function up to 100dB, it's easier implement iCAM-ZMR8422X into a range of environments such as retail, home, office, residential premises and hotel security.

Features

- Full HD 2.0 megapixel CMOS image sensor
- 1080P True H.264 AVC High Profile video compression
- H.264 and Motion JPEG multi-profile video streaming
- Auto focus with zoom / focus motorized lens
- 3D noise reduction (MCTF), 2D WDR function
- HDR function up to 100dB
- Digital PTZ and ROI (Region of Interest) supported
- Day and Night IR-cut removable LED, radiant distance up to 30m
- Built-in 4GB MicroSD Card
- ONVIF Profile S supported
- IP67-rated Housing

Vari-Focal IR IP Dome Camera



iCAM-MR6422X

Dome Type/Vari-Focal



iCAM-MR6322

Dome Type / Fixed



Features

- Full HD 2 megapixel CMOS image sensor
- 1080P High Profile video compression
- H.264/MJPEG multi-profile video streaming
- HDR function up to 100dB
- IR cut filter for day/night operations, radiant distance up to 30m
- Built-in 4GB MicroSD Memory Card
- ONVIF Profile S supported
- IP67-rated Housing
- Lens: iCAM-MR6322 4mm
iCAM-MR6422X 2.8 – 12mm
- Aperture: iCAM-MR6322 F1.4
iCAM-MR6422X F2.0
- IR Angle: iCAM-MR6322 60°
iCAM-MR6422X 60° /90°

iCAM-MR6422X/iCAM-MR6322 is an HD 30M-Rage IR Varifocal/Fixed Dome IP Camera in the M features 1080p at 30 frames per second, built-in Sense up+ technology to deliver stunning video in low-light conditions, and intelligent video surveillance (IVS) functions. Utilizing intelligent image signal processing, HDR, AGC control, and 3D Noise Reduction, the combination successfully delivers the ultimate low-light image without motion blur. The support of PoE, 4 privacy masking, white balance, as well as the minimum illumination 0.117 Lux at F1.4 for iCAM-MR6422X and the minimum illumination 0.13 Lux at F2.0 for iCAM-MR6322.

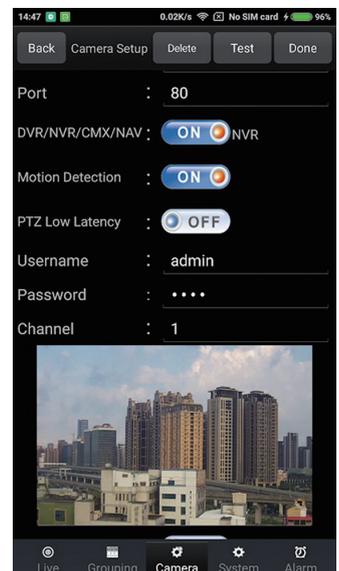


Model	iCAM-ZMR8422X	iCAM-MR6422X	iCAM-MR6322
Lens/Night vision (infrared LED)			
Focal Length	Vari-Focal: 2.8 to 8 mm	Vari-Focal: 2.8 – 8 mm	Fixed-Focal: 4 mm
Aperture	F1.6, Bullet	F1.4, Dome	F2.0, Dome
Angle of View	Horizontal: 102.3° W-51.6° T Vertical: 51.3° W-24.9° T Diagonal: 128.2° W-57.3° T	Horizontal: 102° W-34° T Vertical: 54° W-20° T Diagonal: 122° W-39° T	Horizontal: 90° Vertical: 45° Diagonal: 107°
Beam Spread	60°	60° , 90°	60°
Radiant Distance	30 M		
Infrared Cut Filter	Auto/Day(Color)/Night (Mono)/Schedule		
Image Sensor	1/2.7" CMOS image sensor		
Video Streaming			
Protocol/ Video Compression/ Number of streams	RTSP, RTCP, ONVIF Profile S, H2.64 & MJPEG, 4 configurable streams, configurable frame rate and bandwidth, multi-profile video streaming		
OSD (On Screen Display)	Text overlay for date, time, camera name and user defined text		
General			
IP Rating	IP67		
Certifications	CE, FCC(EMI CLASS B)		
Encryption	Base64 HTTP encryption, HTTPS encryption		
Dimension(mm)	68(W) × 69(H) × 214(D) mm	Ø 120 × 106(H) mm	Ø110 × 89(H) mm

Support Android & iOS Mobile APP: IPCAMPlus



iCAM-ZMR8422X/iCAM-MR6422X / iCAM-MR6322 provide smart phone APP for Android and iOS platform. Apps allow you to catch the firsthand notifications and to take over all event situations in real-time. Furthermore, using the App can also allow you to reward the recorded video remotely. While the alarm is triggered, App will send a notification message to the user immediately.



Smart Phone Integration Solution:

WISE + Sensor +



The **WISE-523x/WISE-2x4xM** series is the **IIoT Edge Controller** designed by ICP DAS for industrial IoT application. In addition to the simple, easy-to-use, flexible and full-featured features of the past, the new features of Instant Messaging (IM) technology with Mobile phone were also released. The I/O data and pictures taken by the WISE/Camera can be instantly pushed to the LINE/WeChat contacts and chat rooms on the smart phone. **Please note: WISE-284xM also supports Telegram.**



WISE message notification to smart phone

● SMS : Sends alert messages and receives commands

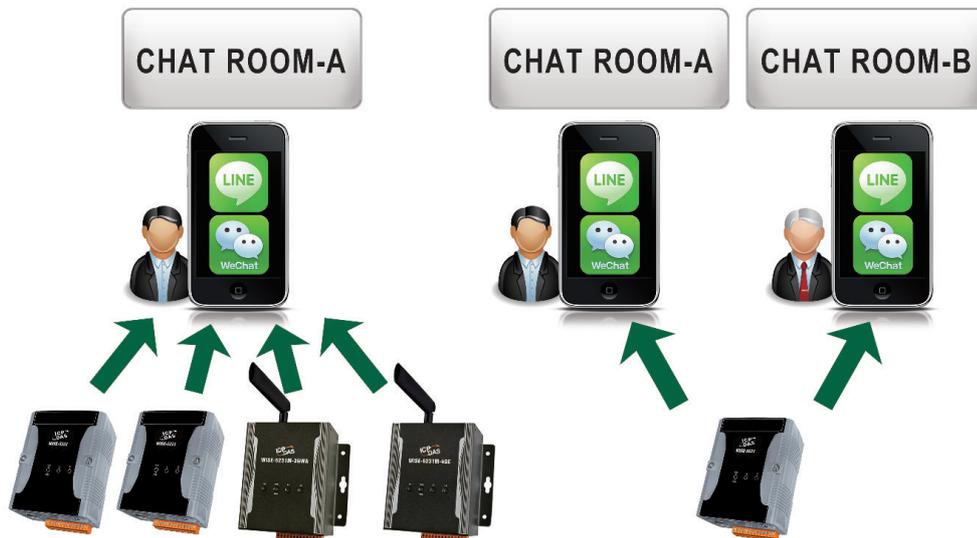
- ▶ The same SMS can be sent to multiple phone numbers
- ▶ The same SMS can include multiple variable values (SMS < 160 characters)
- ▶ Phone number must be authorized to send SMS commands



● LINE/WeChat: Sends alert messages and picture

- ▶ Object: Contact, Chat Room
- ▶ Content:

	LINE	WeChat
Text	1000 / hour	6000 / day, Expandable
Picture	50 / hour	
Video	N/A	



▶ When:

- ▶ Triggered by WISE If-Then-Else rules
- ▶ Triggered by camera motion detection

[Rule 1] Warehouse temperature (35.2°C) is over the high limitation, fan is turned on.

[Rule 3] Camera motion detection for the front door.

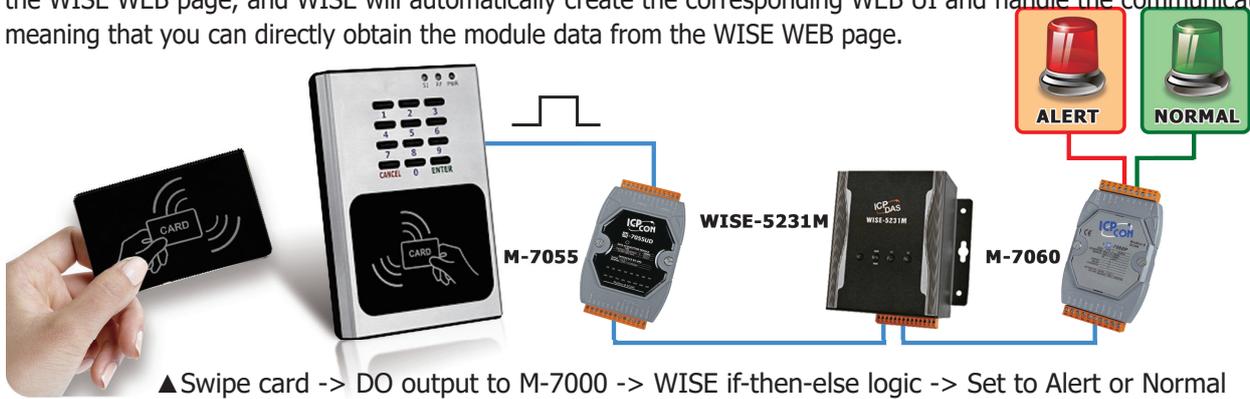
[Rule 2] The door is opened.

☑ WeChat Function Using Note

An Enterprise WeChat account in China is required for WISE to send the messages to the members under the enterprise WeChat account.

Using ACS series card reader to connect M-7000 I/O to achieve multi-group alarm loops

1. Multi-condition door access: Supports 3 conditions for door opening card only, password only, or card + password. It can be configured using an access control application or attendance application.
2. Provides the PC software for authorization and password management, and supports updating card recorder information to a remote database via an Ethernet connection.
3. Supports electric door lock control and allows you to connect this via an M-7000 I/O module to detect trigger conditions for the WISE if-then-else logic control.
4. WISE supports most M-7000 I/O modules, so you can select a module from the supported list that can be found on the WISE WEB page, and WISE will automatically create the corresponding WEB UI and handle the communication, meaning that you can directly obtain the module data from the WISE WEB page.



WISE provides logic control to achieve the access control, camera capture and the alert notify of the mobile phone

1. The WISE logic control function can set the status of I/O module as a logical control condition: Using the WISE logic control function can implement the access control function easily by clicking on the webpage without any additional programming.
2. WISE uses CGI commands to let iCAM capture images with the simple and fast setting.

Rule Information Setting

*Nickname	Alarm 6 - Snapshot
Description	The office of Chief financial officer - Door
Status	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

WISE-5231M

Rule Content Setting

IF	THEN	ELSE
<p>AND ▼</p> <p>Add a new Condition: Set up a Condition ▼</p> <ul style="list-style-type: none"> Local Internal Register 2 (Internal Register 2) = 1 COM4 I-7055(3) DI2 = ON 	<p>Add a new Action: Set up an Action ▼</p> <ul style="list-style-type: none"> CGI Command(Alarm Snapshot:CGI Command 1) Send COM4 I-7055(3) DO5 = ON 	<p>Add a new Action: Set up an Action ▼</p> <p style="text-align: center;">No Action exists</p>
<p>Save Cancel</p>		