

# RESTAURANT SECURITY SOLUTION

-Safe  
-Convenient  
-Comfortable  
-Smart



#### Remote Surveillance

- HD Camera
- Smart APP



#### Cashier Safety

- POS Integration
- POS Event Record



#### Robbery/Theft

- Alarm System



#### Management

- Attendance



#### Turnover Growth

- Smart Camera
- People Counting



#### Food Safety

- Semi-open Kitchen

## THE CHALLENGES OF THE RESTAURANT OWNER



To run a restaurant business safely and efficiently is not an easy job. There are quite a few challenges usually faced in the modern world.

**Cashier Safety:** Internal theft? Balance of payments is incorrect? How to handle once identified?

**Robbery/Theft:** : When the Robbery occurs, how to protect the safety of customers and employees, and to get help immediately?

**Turnover Growth:** How to better understand customers, and grow the business?

**Remote Surveillance:** Holiday/business trip, how to be informed about the restaurant situation at anytime and anywhere?

**Food Safety:** How to ensure the food safety in each production process?

**Management:** How to manage employees efficiently?

## What we can provide?



Smart APP



CCTV Surveillance



POS Integration



Alarm



Attendance

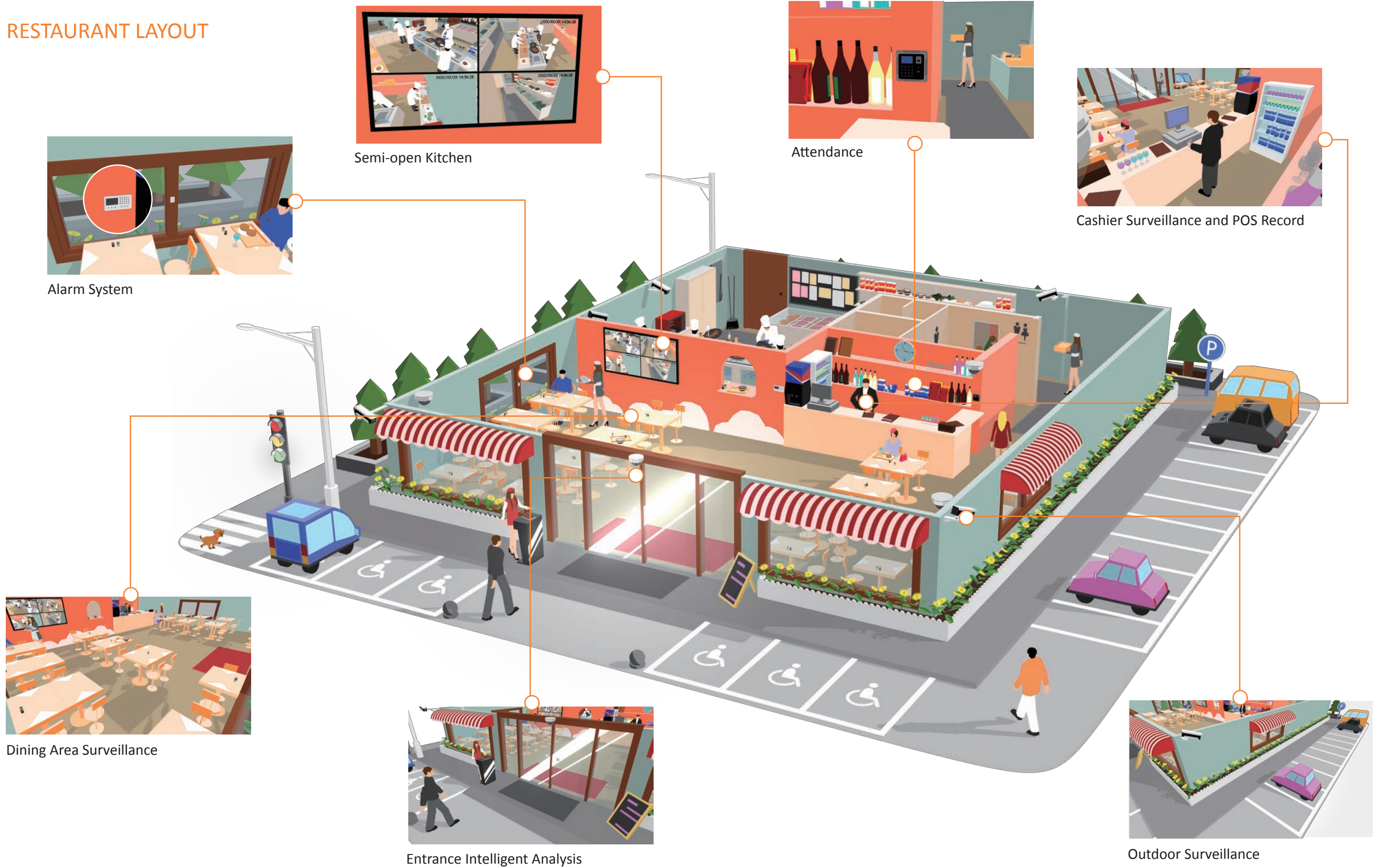


Intelligent Analysis



Semi-open Kitchen

# RESTAURANT LAYOUT



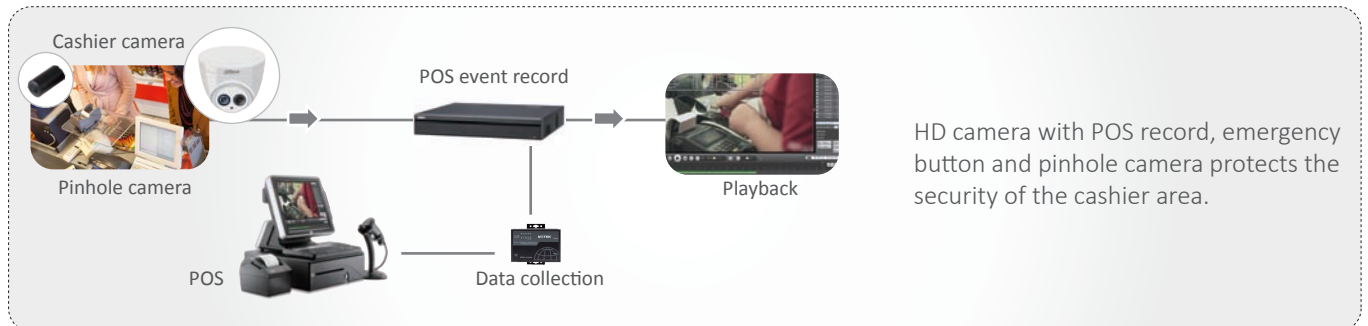
# SOLUTION DETAILS

## Remote Surveillance

Whether on holiday or business trip, real restaurant situation can be monitored through APP remotely at anytime and anywhere.

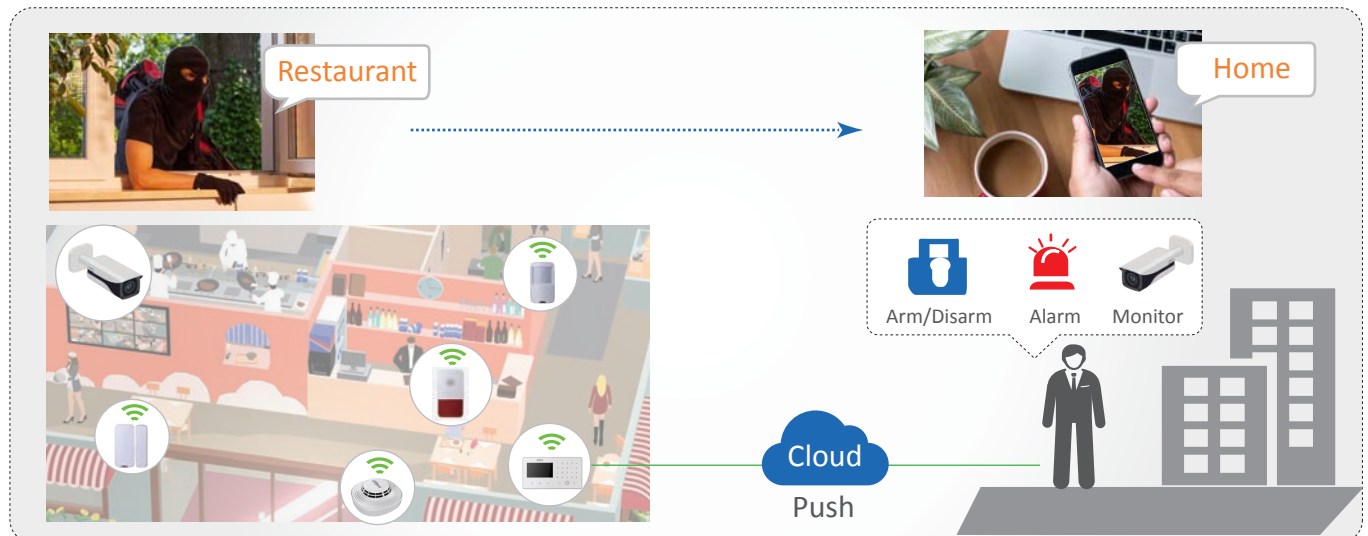


## Cashier Safety



## Alarm System

All-round protection for restaurant assets at closing time, notification via APP triggered for remote viewing once alarm occurs.



## Management

Professional attendance equipment, effectively manage the employee working time and shift schedule.



### Normal attendance mode

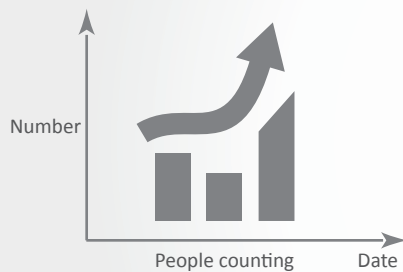


### Statistical Report of Attendance

ID	Name	Department	Late Times	Leave Early Times	Absence Times	Workday	Holiday	Att. Days (Nor./Real)	Real Pay	Note
10001	Jimmy	Marketing	0	0	0	22	0	22/22	xxx	
10002	Jackie	Marketing	0	0	0	22	0	22/22	xxx	

## Turnover Growth

People counting, better understanding of the restaurant traffic flow and better assistance of the restaurant operation to grow the business.



### Entrance smart people analysis

- Help the owner to know the main customer group
- Launch specific and tailored products accordingly
- Grow the business

## Food Safety



### Food safety

Display the kitchen food processing in the dining area to assure customers with food safety, semi-open kitchen to attract more customers.



Let customer not only to enjoy the food production process, but also to assure the food safety in whole preparation and production phase.

## Special Designed Camera Suitable For Kitchen Environment

IPC-HFW4231M-AS-SFC-12

Vapor proof

Prevent lampblack and easy to clean



Defog

2Megapixel

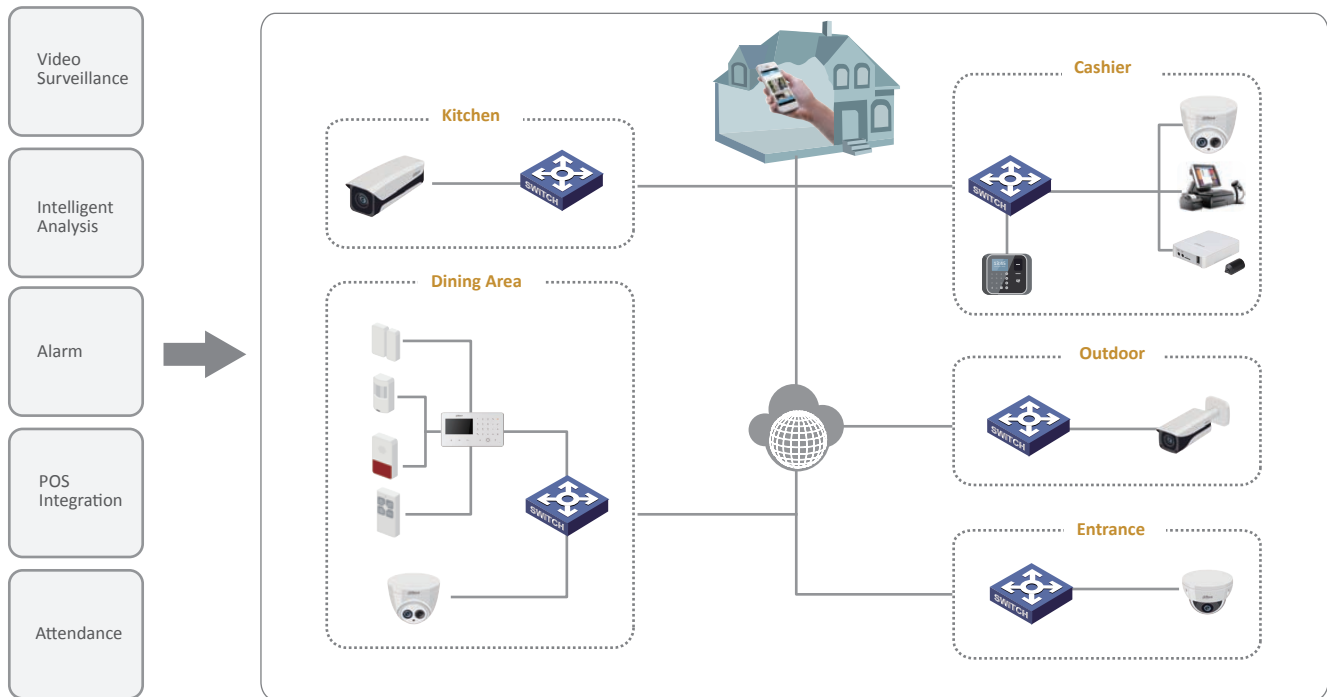
IP67

## SYSTEM STRUCTURE

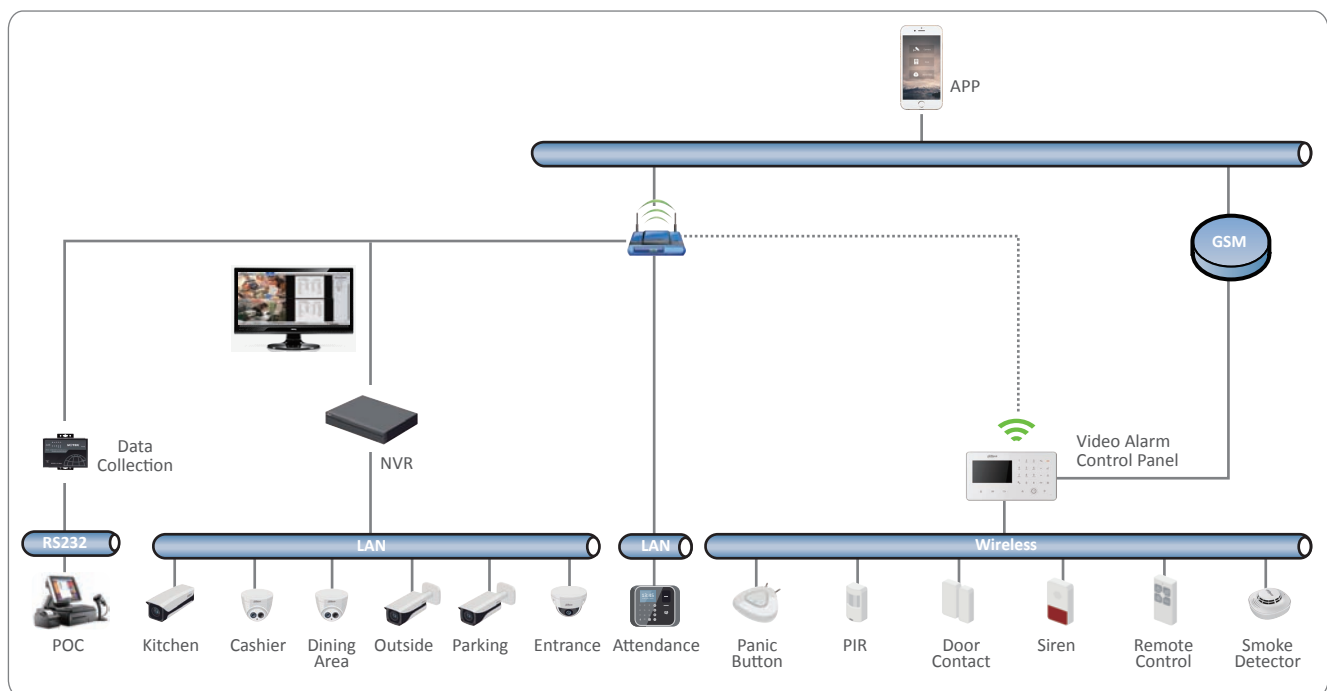
### Highlights:

Easy to install / Remote surveillance / Stable and reliable

### System Monitoring Area



### System Structure



# KEY TECHNOLOGY

## Smart Application



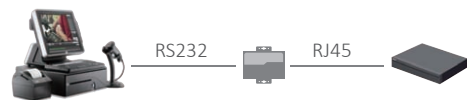
Whether you are at home, at work or on the go, you are always in control of your restaurant security situation with our free mobile APP (both IOS and Android). Anytime, anywhere.

## POS Integration

POS integration in NVR, clear transaction bill overlay with surveillance.



OR



## Airfly



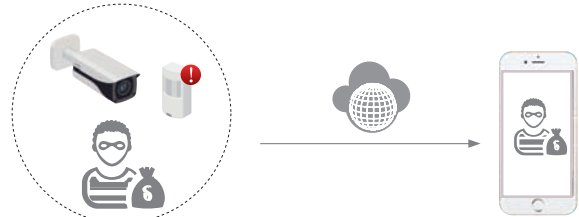
Use Dahua Airfly protocol and the sub-g(<1GHz) band wireless sensor, featuring perfect wall penetration, low power consumption and low rate of false alarm, suits majority of the applications in complex environments. Cost of wiring and maintenance can be greatly reduced.

## Intelligent Analysis



Camera embedded people counting function to count the traffic flow and better assistant the restaurant operation to grow business.

## Video Linkage



When the alarm event occurs with the video linkage function, it will push video message to your smart phone and have alarm recorded in the NVR.

## PoE

Availability of PoE in NVR and IPC reduces the installation and maintenance cost of power wiring.



## PRODUCT SHOWCASE

### IPC-HDW4231EM-AS



- 1/2.8" 2Megapixel progressive scan Exmor CMOS
- H.265&H.264 triple-stream encoding
- 50/60fps@1080P(1920×1080)
- Smart detection supported
- WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 3.6mm fixed lens (2.8mm,6mm optional)
- Built-in Mic
- Max. IR LEDs Length 50m
- Micro SD memory, IP67, PoE

### IPC-HDBW8231E-Z



- 1/2.8" 2Megapixel progressive scan CMOS
- H.265&H.264 triple-stream encoding
- 50/60fps@1080P(1920×1080)
- WDR(140dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.7mm ~12mm motorized lens
- Max. IR LEDs Length 50m
- Micro SD memory,IP67,IK10,PoE

### IPC-HFW4231B-AS



- 1/2.8" 2Megapixel progressive scan Exmor CMOS
- H.265&H.264 triple-stream encoding
- 50/60fps@1080P(1920×1080)
- Smart Detection supported
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 3.6mm fixed lens (6mm optional)
- 1/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 50m
- Micro SD memory ,IP67, PoE

### IPC-HFW4231M-AS-SFC-I2



- 1/2.7" 2Megapixel progressive scan CMOS
- H.265&H.264 triple-stream encoding
- 25/30fps@1080P(1920×1080)
- WDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 3.6mm, 6mm, 8mm fixed lens optional
- Max. IR LEDs Length 80m
- IP67, PoE

### IPC-HUM8230-E1



- 1/2.8" 2Megapixel progressive scan Exmor R CMOS
- H.265&H.264 triple-stream encoding
- 25/30fps@1080P(1920×1080)
- Day/Night(Electronic), 3DNR,AWB,AGC,BLC
- Smart detection
- 2.8mm Pinhole Lens
- Micro SD memory, PoE

### NVR5416-16P-4KS2



- H.265/H.264/MJPEG/MPEG4 codec decoding
- Max 320Mbps incoming bandwidth
- Up to 12Mp resolution preview&playback
- 2HDMI/VGA simultaneous video output
- 3D intelligent positioning with Dahua PTZ camera

## PRODUCT SHOWCASE

### UT-6602C



- Support dynamic IP (DHCP) and static IP
- Support gateway and proxy server, transfer data through internet
- English menu of configuration interface, Rich operating mode, Meet the application of different industries
- Support bidirectional and transparent data transmission
- Realize the function that port to TCP/IP
- Users needn't do any changes on original system
- Interior integrates ARP/IP/TCP/HTTP/ICMP/SOCK/ET/UPP etc. Protocol

### ASA2212A



- Local standalone manage attendance individual
- Touch keyboard and LCD display
- Support 10,000 card users & 10,000 unlock records & 30,000 attendance records
- Support mifare card
- Support card, password, fingerprint and combination
- Watch dog function ensure device free from halting

### ARC5402A-GW



- 2 wired zones
- 32 wireless zones, up to 700m transmission distance (open space/no interference)
- 16 wireless key fobs (remote control)
- 4 wireless sirens
- 4CH@720P IPC
- 10s voice message
- Wi-Fi (IEEE 802.11)
- PSTN, GSM and TCP/IP
- RFID reader (arm/disarm)
- Micro SD card that records in a loop

### ARD1231-W



- 12m/90° detecting range/angle
- Pet immunity 18kg
- Bi-directional communication
- Transmission range up to 700m open space
- Built-in tamper switch
- Wall mount, 2.2~2.5m installation height
- Two level (sensitivity)
- 3 years battery life
- ABS plastic

### ARD311-W



- Door/Window sensor, 25-40mm motion distance
- Bi-directional communication
- Up to 700m transmission distance (open space/no interference)
- 3 years battery life
- Tamper switch equipped
- Screw or glue to mount
- ABS plastic

### ARA10-W



- Bi-directional communication
- Up to 700m transmission distance (open space/no interference)
- Sound intensity is 85dB (1m)
- 1.5 years battery life
- Tamper switch equipped
- Wall mount
- ABS plastic

## PRODUCT SHOWCASE

### FAD122A



- Two-way communication with hub allows for periodic testing and customization
- Effectively respond to a wide spectrum of fires including slow smoldering fires
- Battery life up to 3 years
- 85dB @ 3 metres
- Detection range up to 60 m<sup>3</sup>

### ARA22-W



- Arm/Stay arm/Disarm/SOS
- LED indicator
- FSK, OOK modulation modes
- Frequency band is 434MHz by default
- Max transmit power +10 dBm
- Low consumption, current under sleep < 10nA
- Under +10dBm output power, TX current is 19.8mA (FSK transmit mode)
- Super-LOW current power down mode (30nA OFF current, 50nA standby current)
- Data transmission rate: max 100Kbps
- Battery voltage detection
- 128 bit AES encryption algorithm

### ARD800-W



- Activation via the large button
- Integrated LED to indicate signal transmission
- Neck strap or wall mount (3M tape)
- Long battery life

### PFM350-900



- Capacity 600VA/360W
- Input voltage 81-145VAC/ 140-290VAC
- Frequency range 60/50Hz(auto sensing)
- Output voltage 110/120VAC or 220/230/240VAC

### DHL32-F600











- Industrial level DID LCD panel, suitable for extensive 7x24 continuous works
- Physical resolution of 1920x1080
- High fidelity digital processing, brilliant and vivid video
- 5ms fast response time, no image ghosting
- Built-in speaker

## PRODUCT SELECTION

Product	Description	Outdoor	Dining area	Cashier	Kitchen	Entrance
 IPC-HDW4231EM-AS	2MP IR Eyeball Network Camera		●	●		
 IPC-HDBW8231E-Z	2MP WDR IR Dome Network Camera					●
 IPC-HFW4231B-AS	2MP WDR LXIR Bullet Network Camera	●	●	●		
 IPC-HFW4231M-AS-SFC-I2	2MP WDR IR Bullet Network Camera				●	
 IPC-HUM8230-E1	2MP Covert Pinhole Network Camera			●		
 NVR5416-16P-4KS2	16 Channel 1.5U 16PoE 4K&H.265 Pro Network Video Recorder			●		
 UT-6602C	0/100M TCP/IP To 1 Port RS-232 1 Port RS-485/422 Serial Device Server			●		
 ASA2212A	Attendance Standalone		●	●	●	●
 ARC5402A-GW	Video Alarm Control Panel			●		

## PRODUCT SELECTION

Product	Description	Outdoor	Dining area	Cashier	Kitchen	Entrance
 ARD1231-W	Wireless PIR		•	•	•	•
 ARD311-W	Wireless Door/Window Contact		•		•	•
 ARA10-W	Wireless Siren		•	•	•	
 FAD122A	Wireless Smoke Detector		•	•	•	
 ARA22-W	Four-Key Remote Control			•		
 ARD812	Wireless Panic Button		•	•	•	
 PFM350-900	UPS			•		
 DHL32-F600	32" Full-HD LCD Monitor		•	•		



## QUALITY BY DESIGN

\* Design and specifications are subject to change without notice.

Safe and Comfortable Dining Experience - 01, Jan 2017



www.dahuasecurity.com

### DAHUA TECHNOLOGY CO., LTD.

No.1199 Bin'an Road, Binjiang District, Hangzhou, China. 310053

Tel: +86-571-87688883 Fax: +86-571-87688815

Email: [overseas@dahuatech.com](mailto:overseas@dahuatech.com)

[www.dahuasecurity.com](http://www.dahuasecurity.com)

