

Wireless Home Security System

More Secure, Stable and Flexible



Intrusion
Protection



Fire
Detection



Flood
Prevention



CCTV
Integration



Home
Automation

Professional Intrusion Alarm Solutions Provider

LHD8100 Alarm System

**Bidirectional Radio Communication**
Between alarm panel and sub-devices
(868Mhz/433Mhz/915Mhz)

**Within 0.01 Seconds**
Transmit alarms from detectors to alarm panel

**Frequency-Hopping Spread Spectrum**
Secure communication with 128-bit
AES encryption

**RF FSK Transmission**
Interactive communication distance up to
800M in open area

**AES Encryption Technology**
Data encryption

**Patented TDMA & TDME Technology**
Data queueing,without data collisions or lost,
lower power consumption

**Ethernet & WiFi & 4G**
Triple communication channels

**Communication Failure Detection**
Devices Offline or Lost Detection within 108 Seconds

**SIA DC-09&SIA-DCS&ADM-CID**
Compatible with seamless CMS integration

**Open API,Compatibility**
Provided for Seamless 3rd-party Integration(eg.CCTV)

**DIY, Easy Installation**
Access through web browser or mobile APP

**Amazon Cloud Server Located in Germany**
Safe,stable,fast

**EN18031-1/2(0370-RED-10606)**
Adopt BS EN18031 series 2024 standard

**Meet EN50131 Standard**
Security alarm grades and class explained

**Around-the-Clock Protection**
On guard24/7works with backup battery

**Low Power Consumption**
Extended battery life


Apartment


Factory


House


Office


Store


Cafe & Restaurant


Warehouse


Villa


Business
on Wheels

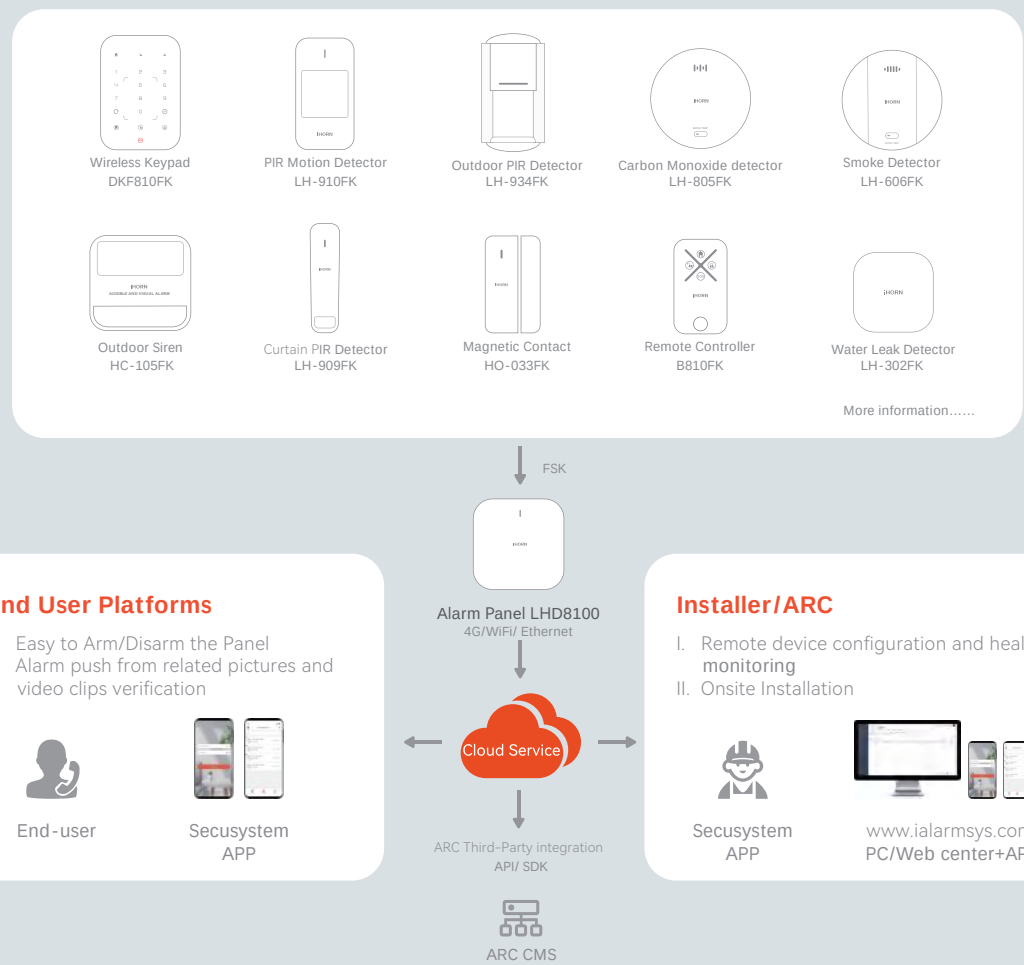

Yacht


Underground
Parking


Motor Home

Comprehensive Solution

The LHD8100 system is a wireless smart security system. With various detectors report data to the alarm panel and cloud platform through FSK communication, and notify the user through phone, text message, APP, and on-site alarms. At the same time, the alarm information is transmitted to the receiving center, it provides all-round protection for the user. It is suitable for security company/community/chain store and home networked alarms and etc. Secusystem could provide separate installer and user access with clear logic and separated functionality.



Range

Retail Market DIY End-User/Apartment/House/Villa

- WiFi+LTE(4G) Networks option
- Secusystem APP
- Wireless Input+Output Accessories
- Home Automation Expansion

Security Pro Market ARC/Apartment/House/Villa

- WiFi+LTE(4G)+Lan Networks Required
- Secusystem APP
- SIA DC-09 & SIA-DCS
- ADM-CID
- ialarmsys.com CMS Option
- Home Automation Expansion Option

Security Pro Market(Customized/Tailored) ARC/Apartment/House/Villa

- Functions/Firmware
- APP
- ARC Private Protocols
- CMS
- Cloud Server

Alarm Panel

LHD8100

The panel manages all devices within the security system.It notifies users about any threats instantly.The triple-path communication allows the panel to send alarm signals,configure devices remotely and constantly monitor the system's state.

- FSK Two-way wireless communication
- AES data encryption technology
- 24-Hour lithium backup battery
- Ethernet & WiFi & 4G triple path
- Support CMS connectivity



Network	Ethernet & WiFi & 4G	Firmware Upgrade	Web Portal / OTA via App
Cellular Bands	GSM (EGSM900MHz, DCS1800MHz) LTE-FDD (B1、B3、B5、B7、B8、B20)	Off-line Configuration	Support
Wireless Zones	100	CMS Protocol	Contact ID, SIA(DC-09)
Remote Controllers	32	Voice Prompt	Support
Partitions	32	dB Output	80dB
Wireless Protocol	FSK with Two-Way Communication	Tamper Alarm	Support
Radio Frequency	868MHz / 433MHz	Power Supply	DC12V, with power adapter
Wireless Security	Frequency Hopping 128 AES Encryption	Backup Battery	Up to 12 Hours
Transmission Range	Up to 800 meters outdoor	Battery Model	3.7V 3000mAh Lithium
Reset Button	Support	Operating Temperature	-10~55℃
Detector Ping Interval	36~128S	Operating Humidity	5~95%RH
Dimensions	164×164×35mm	Compliance Standards	EN50131 / CE / RoHS

Wireless Range Extender

LHF-R11

The LHF-R11 wireless range extender utilizes FSK wireless communication technology to efficiently transmit signals between detectors and the alarm panel,extending the alarm system's coverage range 600 meters.

- FSK Two-way wireless communication
- AES data encryption technology
- 12-Hour lithium backup battery
- Non-Cascade Architecture—More Stable Networks
- One panel supports 7 repeaters,each repeater supports 100 sub-devices



Model	LHF-R11	Tamper Alarm	Support
Number of Panel Accesses	7	Power Supply	DC5V, with power adapter
Number of Sub-Device Accesses	100	Backup Battery	Up to 12 Hours
Wireless Protocol	FSK with Two-Way Communication	Battery Model	3.7V 2000mAh Lithium
Radio Frequency	868MHz / 433MHz	Operating Temperature	-10~55℃
Transmission Range	600m / 400m(Open area)	Operating Humidity	≤95%RH, no condensation
LED	Yes, red, green and yellow LEDs show working status	Dimensions	114×92×14mm
Operating Current	≤60mA	Compliance Standards	CE / RoHS

PIR Motion Detector

LH-910FK

The PIR motion detector sends an immediate alarm to the panel when it detects an intruder moving inside the protected property. With integrated pet-immunity algorithm, the risk of false alarms triggered by pets is markedly reduced.

- FSK Two-way wireless communication
- AES data encryption technology
- Supports sensitivity adjustment via APP
- 5-Year battery life
- Up to 35kg pet immunity



Power Supply	DC3V, 1×CR123A Battery	Sensitivity	3 Level Adjustable Via APP
Wireless Protocol	FSK with Two-Way Communication	Detection Interval	30~180s Adjustable (60s Default)
Radio Frequency	868MHz / 433MHz	Tamper Alarm	Support
Transmission Range	Up to 800 meters outdoor	Battery Life	5 Years (10 Times Triggered Per Day)
Detection Angle	110°	Installation Method	Wall-mount with 3M glue or Screws
Detection Range	12m	Operating Temperature/ Humidity	-10~55°C / 5~95%RH
Pet Immunity	35Kg	Dimensions	114.6×61.1×43.5mm
Detectable Speed	0.3~2m/s	Compliance Standard	CE / RoHS

Remote Controller

B810FK

The remote controller allows quick arm and disarm of the security system, activates the night mode, and raises a silent alarm in case of emergency.

- FSK Two-way wireless communication
- AES data encryption technology
- Tampering alarm
- 2-Year battery life



Power Supply	DC3V, 1×CR123A Battery	Battery Life	2 Years (10 Times Triggered Per Day)
Wireless Protocol	FSK with Two-Way Communication	Operating Temperature	-10~55°C
Radio Frequency	868MHz / 433MHz	Operating Humidity	95%RH
Transmission Range	Up to 800 meters outdoor	Dimensions	72.5×40.5×9.9mm
Function	Arm / Arm Stay / Disarm / SOS	Compliance Standard	CE / RoHS

Magnetic Contact

HO-033FK

The magnetic contact can be mounted on the door, window and cabinet. It will send an alarm signal when the intruders open the door, window or cabinet illegally.

- FSK Two-way wireless communication
- AES data encryption technology
- Tampering alarm
- 5-Year battery life



Power Supply	DC3V, 1×CR123A Battery	Tamper Alarm	Support
Wireless Protocol	FSK with Two-Way Communication	Battery Life	5 Years (10 Times Triggered Per Day)
Radio Frequency	868MHz / 433MHz	Installation Method	Wall-mount with 3M glue or Screws
Transmission Range	Up to 800 meters outdoor	Operating Temperature/Humidity	-10~55°C / 95%RH
Detection Gap	20mm Max	Dimensions	89.8×30.1×20.5mm 89.8×17.7×20.5mm
LED Indicator	Support, Red & Green	Compliance Standard	CE / RoHS

Wireless Keypad

DKF810FK

The keypad allows to use numerical passcode to arm and disarm the security system, active the night mode, and raise a silent alarm in case of emergency. This device can be mounted by the entry door to provide quick system control.

- FSK Two-way wireless communication
- AES data encryption technology
- Support encrypted contactless key fobs
- Support light and sound indication
- 3-Year battery life



Power Supply	DC3V, 4×AA Battery	BackLight Keypad	Support
Wireless Protocol	FSK with Two-Way Communication	Sound Indication	Support, 3 Level Adjustable
Radio Frequency	868MHz / 433MHz	Tamper Alarm	Support
Transmission Range	Up to 800 meters outdoor	Battery Life	3 Years (10 Times Triggered Per Day)
Function	Arm / Arm Stay / Disarm / SOS	Installation Method	Wall-mount with 3M glue or Screws
Key Fobs	Support, 50 Fobs Maximum	Operating Temperature/Humidity	-10~55°C / 95%RH
Protection Against Code Guessing	Support	Dimensions	167×117×21.6mm
Duress Code	Support	Compliance Standard	CE / RoHS

Indoor Curtain PIR Detector

LH-909FK

The curtain PIR detector is equipped with a new generation of Fresnel lens, which can accurately capture the infrared light emitted by the human body. It can judge whether there is anyone moving in the defense area within the range of 15° and 12m. It supports anti-RF interference, automatic temperature compensation functions. It can detect intrusion and issue an alarm accurately and quickly.

- FSK Two-way wireless communication
- AES data encryption technology
- Wall-mounted / Ceiling-mounted
- Pet-immunity function
- Sensitivity adjustable in 3 levels
- 5-Year battery life
- Offline self-test



Operating Voltage	DC3V, 1×CR123A Battery	Detection Distance/Angle	12m (Wall-mounted), 8m (Ceiling mounted)/15°
Operating Current	50mA	Wireless Protocol	FSK 868MHz / 433MHz
Static Current	≤35μA	Wireless Distance	800m / 400m (Open area)
Operating Temperature	-10°C~55°C	Battery Life	5 Years
Operating Humidity	≤95%RH, no condensation	Dimension	132×34×43mm
Installation Method	Wall-mounted 2.4m / Ceiling-mounted 3.6m	Compliance Standards	CE / RoHS

Water Leak Detector

LH-302FK

With an innovative double-sided shape and a rotary lid-opening design,the water detector efficiently and constantly monitors water leakage in your home. IP66 ingress protection grade guarantees its normal use in humid and dusty environments.Besides the impeccable design on the outside,the ultra-low power consumption gives the detector an outstanding battery life of 5 years.

- FSK Two-way wireless communication
- AES data encryption technology
- Tampering alarm
- 5-Year battery life



Power Supply	DC3V, 1×CR123A Battery	Protection Class	IP66
Wireless Protocol	FSK with Two-Way Communication	Battery Life	5 Years (10 Times Triggered Per Day)
Radio Frequency	868MHz / 433MHz	Operating Temperature/Humidity	-10~55℃ / 95%RH
Transmission Range	Up to 800 meters outdoor	Dimensions	58×58×21mm
Detection Water Level	0.5mm	Compliance Standards	CE / RoHS

Glass Break Detector

LH-505FK

The detector monitors both low-frequency impact signals (<500Hz) and high-frequency glass-break acoustic waves (6k-20kHz).An alarm will only be triggered when the two signals occur sequentially in a specific time order.

- FSK Two-way wireless communication
- AES data encryption technology
- Support sensitivity adjustment via APP
- Mode I: Intelligent Dual-frequency detection to reduce false alarms
- Mode II: Monitoring Mode–upgrade conventional smoke detector to smart devices



Model	LH-505FK	Battery Life	2 Years (10 Times Triggered Per Day)
Power Supply	DC3V, 1×CR123A Battery	Sensitivity	3 Level Adjustable Via APP
Wireless Protocol	FSK with Two-Way Communication	Monitoring Detection Distance	Distance < 30cm, Loudness > 100dB
Radio Frequency	868MHz / 433MHz	Glass Break Detection Distance	< 6m
Transmission Range	800m / 400m (Open area)	Glass Break Detection Mode	Dual-frequency, Low-frequency < 500Hz High-frequency 6K-20KHz
Operating Voltage	2.7V~3V	Operating Temperature	-10~55℃
Quiescent Current	< 60μA	Operating Humidity	≤95%RH, no condensation
Tamper Alarm	Support	Dimensions	38×26.9×105mm
Monitoring Detection Frequency	1.2K-5KHz	Compliance Standards	CE / RoHS

Smoke Detector

LH-606FK

The LH-606FK is a photoelectric smoke detector with a wireless transmission function. It uses a dual-light source optical sensing principle to detect fire,which can reduce false alarm rates and achieve more accurate alerts.

- FSK Two-way wireless communication
- AES data encryption technology
- Dual light source fire detection
- Intelligent smoke and temperature detection
- Contamination self-test technology
- Low power consumption design
- Tampering alarm
- Offline self-test



Wireless Protocol	FSK with Two-Way Communication	Operating Humidity	≤95%RH, no condensation
Radio Frequency	868MHz / 433MHz	dB Output	80dB@3m
Transmitting Power	≤12dBm	Detection Range	50 Square Meters
Operating Voltage	DC3V (AA battery×2)	Transmission Distance	800m(outdoor open space)
Operating Current	<80mA	Battery Life	3-5 Years
Static Current	<60μA	Dimensions	φ105×40mm
Operating Temperature	-10℃~55℃	Compliance Standards	CE

Carbon Monoxide Detector

LH-805FK

LH-805FK Carbon Monoxide Detector is designed for safety monitoring in homes, offices,and other environments.When the CO levels in the environment exceeds the alarm threshold,the device will issue an audible and visual alarm prompt on site, and at the same time send an alarm message to the alarm panel through APP.

- CO monitoring
- Sensor lifespan of 10 years
- FSK Two-way wireless communication
- AES data encryption technology
- 24/7 safety monitoring
- Ultra-low power consumption design
- Tampering alarm
- Offline self-test



Operating Voltage	DC3.0V	Accuracy Error	±50ppm
Power Supply	CR123A	Alarm Mode	Sound and light alarm
Detection Gas	Carbon monoxide (CO)	dB Output	≥85dB@3m
Sampling Method	Natural diffusion	Operating Environment	-25℃~55℃, relative humidity<95% non-condensing
Detection Range	0-500ppm	Dimensions	φ86×32mm
Alarm Concentration	200ppm	Compliance Standards	CE

Outdoor Wide-Angle PIR Motion Detector

LH-934FK

The LH-934FK is a110°wide-angle detector that combines microwave and passive infrared technologies.

Paired with advanced signal analysis and processing techniques, it achieves precise detection of human movement in the defense area.

- Microwave+Passive infrared detection
- 110° Wide-angle / 16m detection
- FSK Two-way wireless communication
- AES data encryption technology
- Dual white light resistance technology
- Dual digital temperature compensation technology
- Adjustable sensitivity
- Ultra-low power consumption design



Operating Voltage	DC 3.0V	Sensitivity Adjustment	3 levels adjustable via APP
Power Supply	2×CR123A batteries	Optimal Installation Height	2.2m
Detection Angle	110°	Installation Method	Wall-mounted
Detection Range	16m	Operating Environment	-25°C~55°C, relative humidity<95% non-condensing
Radio Frequency	10.525 GHz	Protection Class	IP54
Pet Immunity	≤35 KG	Dimensions	153×80×58mm
Optional Bracket	Adjustable bracket, at 180° from left to right and 30° from top to bottom	Compliance Standards	CE / RoHS

Outdoor Siren

HC-105FK / HC-106FK

The Outdoor Siren is a key component of the security alarm system, with a beautiful appearance, quick response, and loud sound. When triggered, it will emit a high-decibel alarm sound and a intense flashing light, effectively deterring and scaring off intruders.

- Millisecond response with 105dB high-pitched alarm
- IP54 protection level
- FSK Two-way wireless communication
- AES data encryption technology
- Offline self-test



	HC-105FK	HC-106FK
Wireless Protocol	FSK with Two-Way Communication	FSK with Two-Way Communication
Radio Frequency	868MHz / 433MHz	868MHz / 433MHz
Transmission Power	≤13dBm	≤13dBm
Operating Voltage	DC12V, with power adapter	DC12V, with power adapter
Operating Temperature	-25°C~70°C	-25°C~70°C
Operating Humidity	5~95%RH	5~95%RH
dB Output	80/95/105dB@1m (open area)	80/95/105dB@1m (open area)
Battery Model	3.7V 1000mAh Lithium	CR123A×4
Standby Power	≤20mA	≤150uA
IP Class	IP54	IP54
Dimensions	164×164×57mm	164×164×57mm
Compliance Standards	CE	CE / RoHS

Wireless Transmitter

LH-Z1FK

Module for integrating one third-party wired detector into LHD8100 alarm system. The module supports all connection types,including 3EOL,provides numerous event types for the connected device,can be remotely configured,and regularly reports its state to the hub.

- FSK Two-way wireless communication
- AES data encryption technology
- Advanced anti-sabotage
- Block encryption featuring a dynamic key
- Instant notifications
- Remote configuration in the app



Operating Voltage	DC 3.3V	Wireless Protocol	FSK with Two-Way Communication
Power Supply	CR123A×3	Key	1pc button, network access and configuration
Operating Temperature	-10~50℃	Transmission Range	500M in open area
Operating Humidity	≤95%RH	Battery Standby	5 years (50 triggers per day)
Storage Temperature	-20~70℃	Dimensions	102×39×21.5mm
Storage Humidity	5~95%RH, no condensation	Color	Black
Installation Methods	3M glue is pasted+screws are installed to fix inside the device	LED	Red light, flashing when connected to the network and triggered

Wireless Relay

LH-R1FK

Connected to the 8100 alarm panel,relay can achieve remote appliance control or follow the system state change to achieve automatic control.

- FSK Two-way wireless communication
- Up to 800m Wireless Communication Range
- 3 Control Methods:Manual Control,Timing Control and Follow Control



Power Supply Voltage	DC 9~24V	Transmission Range	Up to 800 meters outdoor
Wireless Protocol	FSK AES encryption	Module Relay Interface	N.C. / N.O.
Radio Frequency	868MH / 433MHz / 915MHz	Voltage & Current	DC 24V / 12A or AC 50 / 60HZ 250V 12A AC 50 / 60HZ 10A 125V

Integration PCBA Module DW-FK03

This wireless PCBA module integrates a 32-bit MCU and the FSK wireless communication protocol.Third-party gateways,alarm control panels,and other main control devices can easily and quickly connect to iHORN RF FSK sub-devices,such as,smoke detectors,gas detectors,water detectors,PIR detectors,magnetic contact sensors,keypad,etc.,by integrating this wireless module.



Power Supply Voltage Range	1.8V~3.6V	Storage Environment	-40℃~125℃, <90%RH
Power Supply Current	>50mA		
Customizable Frequency	315MHz / 433MHz / 868MHz / 915MHz	Operating Temperature	-20℃~70℃
Antenna Type	Onboard PCB antenna or I-PEX connector (Generation 1) with external spring antenna	Communication Interface	UART
Transmit Power	13dBm	Dimensions	30×33×3.2(±0.2)mm

Integration PCBA Module DW-FK01(II)

This wireless PCBA module integrates a 32-bit MCU and the FSK wireless communication protocol.Third-party gateways,alarm control panels,and other main control devices can easily and quickly connect to iHORN RF FSK sub-devices,such as,smoke detectors,gas detectors,water detectors,PIR detectors,magnetic contact sensors,keypad,etc.,by integrating this wireless module.



Power Supply Voltage Range	45 ± 0.3V	Storage Environment	-40℃~125℃, <90%RH
Power Supply Current	≤50mA		
Customizable Frequency	315MHz / 433MHz / 868MHz / 915MHz	Operating Temperature	-20℃~70℃
Antenna Type	Onboard spring antenna	Communication Interface	Serial port (TTL level)
Transmit Power	13dBm	Dimensions	30×60×15mm (including spring antenna)

More products are coming soon



Wireless LCD
Screen Keypad



Wireless Indoor Siren



Wireless Vibration
Detector



Wireless Panic Button



Wireless Indoor
Dual-Tech PIR Detector



Wireless PIRCam
Detector



Wireless Outdoor
Curtain PIR Detector



New Bracket

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ODM/OEM Sourced Manufacturer

30+ Years

Founded in 1995

17500 m²

Laboratory | Plastic Molding
SMT | Assembly | Warehouse

300+

Invention Patent
Design Patent
Utility Model Patent

One-stop

Tailored Service
OEM | ODM

30+

Offices in China



Office Building



R&D Center



Laboratory Center



Testing Center



SMT Center



Moulding Center



Warehouse



Assembly Center



iOS APP



Android APP

zigbee RF  NB-IoT  Bluetooth 
EN FCC  CE RED

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