Buyer's Guide

Home security systems

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Buyer's Guide to sourcing home security systems

An exclusive report on the key trends and developments in home security systems, including 12 profiles of export-ready suppliers, and 6 smart products.

China releases growing smarter, more connected

Access control and intruder alarm systems "talk" to mobile gadgets, control home appliances.

China home security products are growing increasingly intelligent, features- and smartphone-integrated, and remotely controlled, staying on top of the latest global industry trends.

Product development efforts in coming months will continue along the same vein as suppliers follow through on 2014 initiatives led by major homegrown consumer electronics brand such as Changhong, Haier, Hisense, TCL, Konka and Skyworth. 2014 saw these major players launch smart home solutions, spurred in part by Google's $3.2 billion acquisition of smart home equipment manufacturer Nest Labs.

Not to be outdone by their consumer electronics counterparts, China security products specialists are incorporating home automation capability in their varied selections.

The combination of features enables home owners to control lighting, curtains, appliances, and heating via the security system. Certain modules have a door or IR sensor that not only disarms the surveillance module, but also switches on the hallway lights and even play a prerecorded welcome greeting.

Such security systems are Wi-Fi-based and are an integral part of the "connected home," which BI Intelligence expects to grow increasingly prevalent in the next two years. In a recent report, the research body estimated at 67 percent the CAGR of connected-home device shipments over the next five years, reaching 1.8 billion units by 2019.

Typical smart home security system	
Alarm host box (alarm center)	The core of the security system; receives coded signals from sensors; sends alarms by SMS or phone call
Cameras and app-based monitoring	Cameras transmit images or videos of various areas in the house that smartphones or tablet PCs receive via an app
Door/window sensors	Sensors detect intrusion, triggering the alarm and alert notifications that can be received on a smartphone or tablet
Gas detector/alarm	Normally installed in the kitchen; opens automatically kitchen windows, shuts off gas valves and makes a beeping sound when a leak is detected; sends alert notifications via SMS or phone call
Smoke detector/alarm	Installed in various rooms of the house; comes in wired and wireless designs; makes a beeping sound when dangerous smoke level is detected; sends alert notifications via SMS or phone call
IR/PIR detector	Usually installed at door entrances or stairs; sounds an alarm and sends alert notifications via SMS or phone call when the door is forcibly opened; also works as wandering alarm/detector for children or the elderly
Window shutter controller	Automatically closes windows during stormy weather; opens windows remotely to improve ventilation

Shenzhen Eray Electronic Co. Ltd's GS-NC model is a 1.3MP Wi-Fi security camera that delivers HD videos and images. It supports as many as 64 wireless sensors, and works with iOS and Android devices.

The mobile gadget controls the camera's PTZ function. Pan and tilt angles are 355 and 120 degrees, respectively.

Meanwhile, other releases take the smartphone/ tablet PC pairing a step further by allowing users to "prep" homes remotely for their arrival by switching on the air-conditioning or heating system.

The Android 4.2-based BC-SN10HD model from Shenzhen Hi-Champ Technology Co. Ltd (Bochuang Hi-Tech) controls the lights, curtains, air conditioner and other appliances through a mobile device. Its video doorphone feature transmits images of visitors at the door to a smartphone or tablet.

Such units are often bundled with smart wireless terminals that receive real-time information, including videos and images, from the various cameras and monitoring systems installed in the house. This allows users to play an active role in home protection even while they are away.

Demand for heightened user control over home security products has also given rise to cloud-based surveillance systems such as Shenzhen Patrol Hawk Technology Co. Ltd's WG1 model. The unit sends alarm notifications to a cloud server, which are then pushed to the user's mobile device through an app. The Wi-Fi/GSM-based model also connects to an IP camera or a remote intercom system via the cloud.

Product basics

Generally, home security systems refer to various alarm detectors, hosts and centers, card readers, access controls and other surveillance equipment providing an integrated service to prevent residential

The Wi-Fi-based WG1 model is from Shenzhen Patrol Hawk Technology Co. Ltd.

intrusions. They can be categorized under three subsytems, which are CCTV camera monitoring, access control and intrusion or burglar alarm systems.

CCTV camera monitoring systems are designed to cover the entire home. Analog cameras are usually bundled into the system although IP cameras are an option if remote monitoring is needed.

Access control products, meanwhile, control the entry and exit of people in certain restricted areas. Passage is gained by card, password, biometrics, photo ID or a combination of these methods.

Intrusion alarm systems secure various entry points and have three key parts, namely the detector, transmission channel and alarm controller.

Installed in various areas of the house, detectors use a sensor to catch and observe force, movement, speed, sound and light, and trigger the alarm when unauthorized entry is detected.

The transmission channel is the media for signal transfer, including the cables between the detector and alarm controller, and conversion equipment.

Alarm controllers activate light or sound alerts after receiving the "intruder" signal.

Supplier comparison table

Name	Year established	Number of employees	Total annual revenue for all products (US$ million)	Total annual exports for all products (US$ million)	2014 home security products exports (US$ million)
Competition	1982	500	25	15	10.5
Nimo	2008	80	6	5	2
Shenzhen Chitongda	1998	500	13.33	8.67	8.67
Shenzhen Eray	2013	39	1.5	1	0.35
Shenzhen Hi-Champ	2003	200	20	6	4
Shenzhen Jianing Star	2000	135	1.5	1.5	N/A
Shenzhen Kaipule	2006	480	50	10	8
Shenzhen Patrol Hawk	2008	120	9	6	0.5
Shenzhen Sunwave	2001	200	16	8	0.15
Shenzhen YOAA	2006	50	1.1	0.4	0.1
Shenzhen ZAFD	2003	64	53	31.8	9.54
Xiamen Leelen	1992	1,500	60	5	N/A

Main markets	Number of assembly lines	R&D expenditure (US$ million)	OEM	ODM	OBM	Minimum order quantity	
Europe (40%), North America (30%)	20	1.5	40%	50%	10%	50 units	CONTACT SUPPLIER
Asia (30%)	3	0.8	80%	15%	5%	2,000 units	CONTACT SUPPLIER
Europe (50%), US (30%), Asia (20%)	5	0.36	52%	28%	20%	50 units	CONTACT SUPPLIER
Europe (65.6%), US (19.3%), Africa (5.6%)	2	0.05	50%	35%	15%	10 sets	CONTACT SUPPLIER
Asia (40%), EU (35%), US (20%)	2	N/A	20%	5%	75%	1 set	CONTACT SUPPLIER
Asia (50%), Middle East (30%), Europe (20%)	3	N/A	20%	30%	50%	2,000 units	CONTACT SUPPLIER
Canada (30%), UK (20%), Australia (20%)	10	0.3	25%	25%	50%	No MOQ	CONTACT SUPPLIER
EU (50%), US (30%), Asia (20%)	4	0.3				5,000 units	CONTACT SUPPLIER
Europe (30%), Asia (25%), Russia (20%)	7	0.118	50%	20%	30%	500 units	CONTACT SUPPLIER
Europe (30%), Asia (30%), South Africa (20%)	3	0.005	30%	50%	20%	1 piece	CONTACT SUPPLIER
Asia (50%), South America 40%), US (10%)	3	7.95	65%	35%	0%	5,000 units	CONTACT SUPPLIER
Europe (38%), US (31%), Asia (31%)	15	0.4	80%	10%	10%	5,000 units	CONTACT SUPPLIER

Home security systems span smart, integration trends

Handpicked by our Market Analysts, these home security systems from China boast intelligent, wireless and apps-controlled features.

China's selection of home security systems with convenient user-device connectivity options is growing in line with the global trend for remote monitoring and integration.

The line consists mostly of access control and security camera systems, and intruder alarms that are capable of transmitting images, videos and reports, and receive instructions via Wi-Fi, GSM, Bluetooth and smartphone apps. Many of the latest releases alert users through SMS and calls.

Systems capable of home automation are on the rise as well. Models that can operate doors, lighting and household appliances, and pair with other security devices are abundant.

The products in this gallery represent current trends in home security systems.

HD Wi-Fi camera alarm system

Shenzhen Eray Electronic Co. Ltd's model GS-NC Wi-Fi-capable camera alarm system allows users to check their homes from a smartphone or a laptop. The unit works with iOS and Android devices, and up to 64 wireless sensors. It has a 1.3MP camera that delivers HD videos and images, and supports P2P technology. A 100dB siren is built-in. The system's SD card stores 64 or 128G files.

CONTACT SUPPLIER

Multipurpose home automation system

The BC-SN10HD model from Shenzhen Hi-Champ Technology Co. Ltd (Bochuang Hi-Tech) is capable of controlling lighting, curtains, air conditioners and other home appliances. It has timed, scene and linkage controls. The system doubles as a video doorphone that saves call records and calls elevators, and a security alarm and camera. The 280x195x20.5mm device runs on Android 4.2.

CONTACT SUPPLIER

Wireless intruder alarm with full voice guide

The AD810 model from Shenzhen Kaipule Technology Co. Ltd sets eight programmable wireless zones, three wireless remote controls, three alarm phone number groups and four timing arm/disarm groups. Arming, disarming, alarm box operation and status check, including host box low-battery, -voltage and alarm zones, AC power failure and recovery alerts can be done via SMS. The portable unit works as a doorbell, and offers full voice guide and records 15-second voice messages.

CONTACT SUPPLIER

Wi-Fi, GSM transmission to cloud server

Shenzhen Patrol Hawk Technology Co. Ltd's WG1 model sends alerts to cloud servers through Wi-Fi and GSM. Notifications are transferred to apps installed on users' mobile phones. The dual-network device's wireless sensors come with a QR code. It connects with IP cameras and remote intercom systems.

CONTACT SUPPLIER

Water-resistant touchscreen access control system

The model YA-M1 access control system from Shenzhen YOAA Technology Co. Ltd is housed in metal and rated IP65 for water resistance. Touch panel backlight mode options include on, off and automatic. The tamper-resistant model supports card, card+PIN and PIN modes. It has door button, doorbell and WG26 ports, and relay and push/low output.
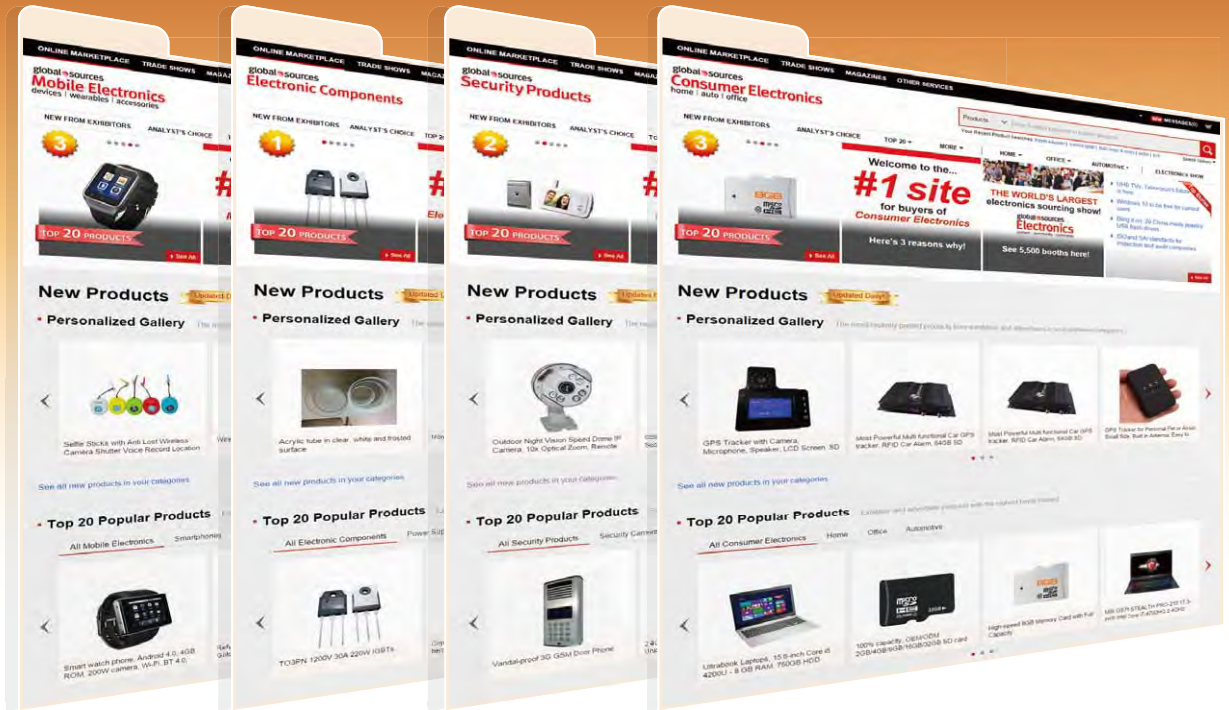
CONTACT SUPPLIER

Access control system meets CE, FCC, RoHS standards

Xiamen Leelen Technology Co. Ltd's Door Station No.18A And Indoor Monitor N75B model is an access control system with CE, RoHS and FCC approval. The four-wire DIY system supports plug-and-play connection, making it easy to operate. It accommodates up to four door stations and four indoor monitors.

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