# WISUALARM
## by dahua

# PRODUCT
# CATALOG

## 2022 V1.0

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# ABOUT Dahua TECHNOLOGY

Zhejiang Dahua Technology Co., Ltd. (Dahua Technology) is a world-leading video-centric smart IoT solution and service provider. The company has more than 18,000 employees, of which over 50% are engaged in R&D. The product distribution covers 180 countries and regions. Dahua Technology has been continuously focusing on customer service to build an open and fully linked technology system. It comprehensively expands the application and depth of IoT data in both city-level and corporate-level markets, providing one-stop smart IoT services and solutions for the digital transformation of cities, enterprises and homes. Utilizing its in-depth insight and layout of smart IoT, the company continues to explore new domains by expanding into machine vision, robotics, video collaboration, smart drone, smart fire safety, automotive technology, smart storage, smart security check, smart display and control, smart control and other fields.

**58**
Overseas Subsidiaries and Representative Offices

**18,000 +**
Employees

**200 +**
China Offices
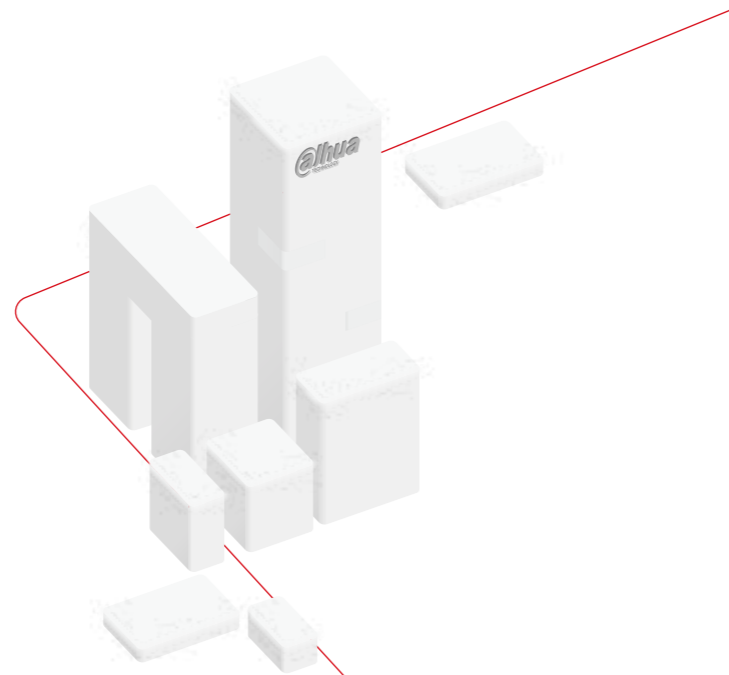
**No.2 ***
Global Market Share

**180**
Distribution Coverage (Number of Countries and Regions)

**4,500 +**
Patent Applications

* Source: Omdia 2021 Video Surveillance Analytics Market Share Database

# HISTORY

**2001**
Founding of Dahua Technology, entering the field of video surveillance

**2002**
Dahua Technology releases the world's first 8-channel real-time embedded DVR

**2003**
Dahua Technology begins expansion to the overseas market

**2007**
Dahua Technology releases embedded intelligent All-in-One Toll Gate Traffic Camera, which is adopted as the e-policing standard in China

**2008**
IPO on the Shenzhen Stock Exchange on May 20th, 2008

**2010**
• Dahua Technology adopts CMOS technology and releases HD high zoom ratio camera module
• Establishes the first national post-doctoral research station in China security industry
• Establishes CMS security service company

**2012**
Dahua Technology launches its in-house HDCVI technology, which is adopted by the HDcctv Alliance and becomes the first international standard in the domestic industry

**2013**
Dahua Technology develops hardware-software integrated embedded surveillance management platform, considerably simplifying the deployment and maintenance of surveillance systems

**2014**
• Dahua Technology adopts cloud technology
• Enters the consumer security market by establishing the Imou brand
• Founding of its first overseas subsidiary in the USA

**2016**
Dahua Technology obtains CMMI Level 5 certification, solidifying a world-leading position in software development capabilities

**2017**
Dahua Smart (IoT) Industrial Park begins production

**2018**
• Dahua Technology releases new smart city framework
• Europe supply center begins operations

**2019**
• Dahua Technology releases AIOT and SDTV strategies
• Dahua Technology launches GAIA Big Data Platform

**2020**
Set up 8 domestic regional software development centers to accelerate its software development and implementation

**2021**
Dahua Think# strategy release

**Future**
Dahua Technology will continuously provide smart IoT solutions and services based on its core competency in video and AI technology

# ABOUT US

Wisualarm is advanced global manufacturer of fire safety products with features ready for home and professional for businesses, to protect people and property from fire and related hazards.

Wisualarm builds and grows upon the expertise of Dahua Technology, since its establishment in 2015, more than 60% of its employees engaged directly in the R&D, Wisualarm has been working hard to practice the concept of the combination of video and fire detection. Utilizing the cutting-edge split-spectrum smoke sensing technology and smart IoT technology, Wisualarm is committed to making the world a safer and smarter place to live.

# Performance Research and Test

Wisualarm and Dahua Technology are equipped with an advanced engineering experiment center that covers an area of 5,000m². As a Zhejiang Key Laboratory, it consists of more than 30 laboratories – including EMC anechoic chamber, Highly Accelerated Life Testing (HALT) laboratory and device analysis laboratory – that focus on various fundamental researches and testing of materials, components, single boards and the entire machine itself. Its reliability test has also obtained a capability accreditation from the China National Accreditation Service (CNAS). Also, Wisualarm has the capability to do the fire and smoke simulation, and complete the accurate testing of smoke and heat fire detectors in the professional and cutting edge test tunnels from Lorenz and AW technology.

① EMC Testing Capability

② Reliability Testing Capability

③ Safety Inspection Capability

④ Radio Frequency Research Capability

⑤ Fire and Smoke Simulation Capability

⑥ Antenna Research Capability

⑦ AW Technology Detector Test Tunnel

⑧ Lorenz EN-54 Smoke Test Tunnel

# Intelligent Manufacturing

As the subsidiary company of Dahua Technology, the products of Wisualarm are all produced in the Dahua Smart (IoT) Industrial Park, which covers an area of 510 acres, divided into the 4500m² mold factory, 46000m² intelligent stock preparation warehouse, 26000m² PCBA factory, 10000m² dust-free module factory, 130000m² full-process automated factory, 200000m² warehousing and logistics and ORT lab. With the deep integration of advanced producing software such as SCP, APS, MES, PDM, all the products are produced under digital, visualized, traceable product control. More than 50 cutting edge SMT dual-track production lines, 36 self-developed automated assembly platforms and 90 automated testing lines, which can improve the overall production efficiency and product quality.

| **51** | **36** | **90** | **16** | **260** |
|---|---|---|---|---|
| SMT dual-track production lines | Automated assembly platforms | Automated testing lines | Wave soldering machine lines | Automated/ semi-automated/ standard production lines |
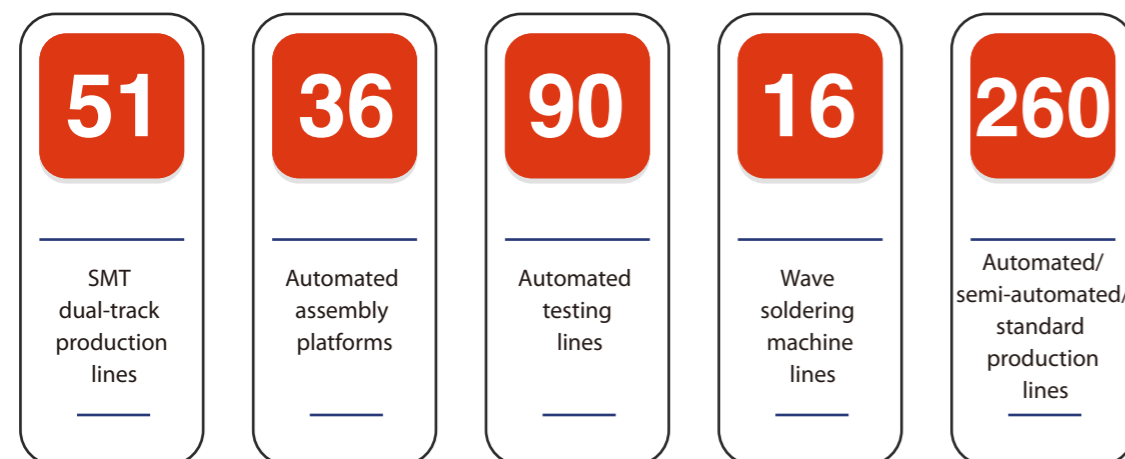


**4500 Square Meters Mold factory**

Integrating mold development and manufacturing to provide high-precision products and services



**46000 Square Meters Stock Preparation Warehouse**

Achieving accurate material distribution and efficient management by using intelligent warehousing systems



**26000 Square Meters PCBA factory**

Accommodating the production of samples, small batches products and high-end products by equipped with more than 50 advanced SMT production lines



**130000m² Full-process Automated Factory**

Realizing flexible production of assembly, testing and packaging by featuring the independently developed automated production lines and the combination of machine vision cameras



**200000m² Warehousing and Logistics Area**

Process utilize an end-to-end integrated system management to greatly shorten the delivery time of finished products and improve customer satisfaction

# Global Supply Capability

Based on Dahua information system and integrated planning system, product supply and service response capabilities of Wisualarm are improved by enabling efficient linkages between design, procurement, production, sales, and service. The firm has constructed regional supply centers in Hungary, Mexico, and other countries, as well as regional HUB warehouses in its key logistics distribution cities like the Netherlands and Dubai, providing a multilayer supply network.



Smart IoT
Manufacturing Park

Hungary Supply Center

Mexico Supply Center

# Global Service Network

Based on Dahua Technology, Wisualarm can use 35 RMA stations all over the world, the product service network will cover more than 80 countries, which offers a multi-dimensional service network of headquarters, branch offices, and authorized service stations to users all over the world, with the goal of improving service experience, user perception, and overall satisfaction.

Global Market



Canada

Lorex(CAN)
USA
Lorex(US)

Mexico

Panama
Colombia

Peru

Chile

Argentina

Denmark
Netherlands
UK & Ireland
Belgium
France
Iberia

Tunisia

Morocco

Poland
Czech Republic
Germany
Hungary Ukraine
Italy
Serbia Bulgaria
Romania Georgia
Turkey

Israel

Nigeria

Russia

Kazakhstan

Uzbekistan

Dubai
Pakistan
India
Sri Lanka
Kenya
Singapore

Korea

Dahua HQ
Hong Kong

Thailand
Vietnam
Malaysia
Indonesia

South Africa

Australia

New Zealand

**35**
RMA Stations

**80+**
Countries covered

# Certifications



## Certifications



## Communication

# Standalone Smoke Alarm

DHI-HY-SA20A
DHI-HY-SA20B

| | |
|---|---|
| **Power Source**: | 3V CR123A lithium battery |
| **Battery Life**: | 10 years: DHI-HY-SA20A / 5 years: DHI-HY-SA20B |
| **Sensor Type**: | Split-spectrum photoelectric sensor |
| **Safety Standard**: | EN 14604:2005+AC:2008, AS 3786:2014 |
| **Certification**: | TUV and CE Listed |
| **Standby Current**: | ≤15 µA |
| **Alarm Current**: | ≤35 mA |
| **Alarm Sound Level**: | ≥85 dB at 3 m (10 ft) |
| **Silence Duration**: | 12 minutes |
| **Operating Ambient Temperature**: | -10 °C to +55 °C (+14 °F to +131 °F) |
| **Operating Relative Humidity**: | ≤ 95% RH (non-condensing) |
| **Product Weight**: | 136 g (0.30 lb) |
| **Product Dimensions**: | φ98 mm × H43.1 mm (φ3.85" × H1.70") |
| **Package Contents**: | 1 × Smoke Alarm + 1 × Mounting Bracket + 2 × Screws + 2 × Anchor Plugs + 1 × Mounting Tape + 1 × User Manual |

# Wireless Smoke Alarm

DHI-HY-SA21A-W2
DHI-HY-SA21A-W2 (868)

| | |
|---|---|
| **Power Source** : | Replaceable 3V CR123A lithium battery |
| **Battery Life** : | 3 years |
| **Sensor Type** : | Split-spectrum photoelectric sensor |
| **Safety Standard** : | EN 14604:2005+AC:2008, AS 3786:2014 |
| **Certification** : | TUV and CE Listed |
| **Operating Frequency** : | 433 MHz : DHI-HY-SA21A-W2 / 868 MHz : DHI-HY-SA21A-W2 (868) |
| **Standby Current** : | ≤35 µA |
| **Alarm Current** : | ≤35 mA |
| **Alarm Sound Level** : | ≥85 dB at 3 m (10 ft) |
| **Silence Duration** : | 12 minutes |
| **Operating Ambient Temperature** : | -10 °C to +55 °C (+14 °F to +131 °F) |
| **Operating Relative Humidity** : | ≤ 95% RH (non-condensing) |
| **Product Weight** : | 140 g (0.30 lb) |
| **Product Dimensions** : | φ98 mm × H43.1 mm (φ3.85" × H1.70") |
| **Package Contents** : | 1 × Smoke Alarm + 1 × Mounting Bracket + 2 × Screws + 2 × Anchor Plugs + 1 × Mounting Tape + 1 × User Manual |

# Wi-Fi Smoke Alarm

DHI-HY-SA2FA

| | |
|---|---|
| **Power Source** : | Replaceable 3V CR123A lithium battery |
| **Sensor Type** : | Split-spectrum photoelectric sensor |
| **Safety Standard** : | EN 14604:2005+AC:2008, AS 3786:2014 |
| **Certification** : | TUV and CE Listed |
| **Alarm Sound Level** : | ≥85 dB at 3 m (10 ft) |
| **Silence Duration** : | 12 minutes |
| **Wireless Frequency** : | 2.4 GHz |
| **App** : | Dahua DMSS / Wisualarm (Android and iOS supported) |
| **Wireless Protocol** : | IEEE 802.11b/g/n |
| **Operating Ambient Temperature** : | -10 °C to +55 °C (+14 °F to +131 °F) |
| **Operating Relative Humidity** : | ≤ 95% RH (non-condensing) |
| **Product Weight** : | 140 g (0.30 lb) |
| **Product Dimensions** : | φ98 mm × H43.1 mm (φ3.85" × H1.70") |
| **Package Contents** : | 1 × Smoke Alarm + 1 × Mounting Bracket + 2 × Screws + 2 × Anchor Plugs + 1 × Mounting Tape + 1 × User Manual |

# 4-wire Non-addressable Smoke Detector

DHI-FAD201A

| | |
|---|---|
| **Power Source** : | DC 9V – DC 15V |
| **Sensor Type** : | Photoelectric sensor |
| **Alarm Output** : | NO relay output |
| **Standby Current** : | ≤2 mA |
| **Alarm Current** : | ≤30 mA |
| **Operating Ambient Temperature** : | -10 °C to +55 °C (+14 °F to +131 °F) |
| **Operating Relative Humidity** : | ≤ 95% RH (non-condensing) |
| **Product Weight** : | 120 g (0.26 lb) |
| **Product Dimensions** : | 103 mm × 104 mm × 46 mm (4.06" × 4.09" × 1.81") |
| **Safety Standard** : | CE |
| **Package Contents** : | 1 × Smoke Detector + 1 × Mounting Bracket + 2 × Screws + 2 × Anchor Plugs + 1 × User Manual |

# Standalone Carbon Monoxide Alarm

## DHI-HY-GC20B

| | |
|---|---|
| **Power Source** : | Replaceable 3V CR123A lithium battery |
| **Battery Life** : | 10 years |
| **Sensor Type** : | Electrochemical |
| **Alarm Sound Level** : | ≥85 dB at 3 m (10 ft) |
| **Standby Current** : | ≤20 µA |
| **Alarm Current** : | ≤10 mA |
| **Operating Ambient Temperature** : | -10 °C to +40 °C (+14 °F to +104 °F) |
| **Operating Relative Humidity** : | ≤ 95% RH (non-condensing) |
| **Indicator Light** : | LED (red/yellow/green) |
| **Safety Standard** : | EN 50291-1: 2018+AC:2021 |
| **Certification** : | TUV and CE Listed |
| **Product Weight** : | 136 g (0.30 lb) |
| **Product Dimensions** : | 116.4 mm × 71.7 mm × 28.3 mm(4.58" × 2.82" × 1.11") |
| **Package Contents** : | 1 × Carbon Monoxide Alarm + 1 × Mounting Bracket + 2 × Screws + 2 × Anchor Plugs + 1 × User Manual |

# Standalone Natural Gas Alarm
# Standalone LPG Alarm

DHI-HY-GA40A

DHI-HY-GB40A

| | |
|---|---|
| **Power Source** : | DC 12V (power adaptor included) |
| **Sensor Type** : | Catalytic |
| **Gas Type** : | Natural gas (methane) :   DHI-HY-GA40A<br>LPG (propane) :   DHI-HY-GB40A |
| **Power Consumption** : | ≤ 0.8 W |
| **Warm-up Period** : | 180 s |
| **Alarm Sound Level** : | ≥70 dB at 1 m (3 ft) |
| **Operating Ambient Temperature** : | -10 °C to + 55°C (+14°F to +131°F) |
| **Operating Relative Humidity** : | ≤ 95% RH (non-condensing) |
| **Safety Standard** : | CE |
| **Indicator Light** : | LED (red/yellow/green) |
| **Product Weight** : | 110 g (0.24 lb) |
| **Product Dimensions** : | 86.5 mm × 86.5 mm × 29.4 mm (3.41" × 3.41" × 1.16") |
| **Package Contents** : | 1 × Gas Alarm + 1 × Mounting Bracket + 2 × Screws +<br>2 × Anchor Plugs + 1 × User Manual |

# Wi-Fi Natural Gas Alarm

## WF1G

| | |
|---|---|
| **Power Source** : | DC 12V (power adaptor included) |
| **Sensor Type** : | Catalytic |
| **Gas Type** : | Natural gas (methane) |
| **Warm-up Period** : | 180 s |
| **Alarm Sound Level** : | ≥70 dB at 1 m (3 ft) |
| **Wireless Frequency** : | 2.4 GHz |
| **App** : | ImouLife / Wisualarm (Android and iOS supported) |
| **Wireless Protocol** : | IEEE 802.11b/g/n |
| **Operating Ambient Temperature** : | -10 °C to + 55°C (+14°F to +131°F) |
| **Operating Relative Humidity** : | ≤ 95% RH (non-condensing) |
| **Safety Standard** : | CE |
| **Product Weight** : | LED (red/yellow/green) |
| **Product Dimensions** : | 86.5 mm × 86.5 mm × 29.4 mm (3.41" × 3.41" × 1.16") |
| **Package Contents** : | 1 × Gas Alarm + 1 × Mounting Bracket + 2 × Screws + 2 × Anchor Plugs + 1 × User Manual |

# AI-Fire Smoke Sensing Network Camera

## DHI-HY-SAV849HAP-E
## DHI-HY-SAV849HAN-E

| | |
|---|---|
| **Product Function** : | Flame detection + smoke sensing + video linkage |
| **Power Source** : | DC 12V / PoE and 3V CR123A lithium back-up battery |
| **Smoke Sensor Type** : | Split-spectrum photoelectric sensor |
| **Smoke Alarm Sound Level** : | ≥85 dB at 3 m (10 ft) |
| **Camera Field of View** : | Horizontal: 144°; Vertical: 92°; Diagonal: 179.6° |
| **Camera Image Sensor** : | 1/2.7" CMOS, 2.0mm focal length, wide angle |
| **Camera Maximum Resolution** : | 2592 (H) x 1944 (V), 5MP |
| **Product Port** : | 1 audio input, 1 audio output, 2 alarm input, 2 alarm output, 1 RS 485 |
| **Safety Standard** : | CE, FCC, EN 14604 (in process) , AS 3786 (in process) |
| **Operating Ambient Temperature** : | -10 °C to +55 °C (+14 °F to +131 °F) |
| **Operating Relative Humidity** : | ≤ 95% RH (non-condensing) |
| **Product Weight** : | 442 g ( 0.98 lb) |
| **Product Dimensions** : | Φ120 mm × 79 mm (Φ4.72" × 3.11" ) |
| **Package Contents** : | 1 × Smoke Sensing Camera + 1 × Mounting Bracket + 2 × Screws + 2 × Anchor Plugs + 1 × User Manual |

# WISUALARM

「Smarter and Safer Life Expert」

**WISUALARM** **(Dahua Technology Subsidiary)**

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