

Huawei Intelligent Video Surveillance Product Portfolio



About Huawei Video Surveillance

Based on years of experience with video codec algorithms, network transmission, cloud storage, and BigData analytics, Huawei launches its series of video surveillance products and security solutions. Huawei has various state-of-the-art features in the security industry, including HD video capture, wired and wireless network transmission, integrated cloud storage, intelligent Big Data analytics, visualized video conferencing and scheduling. Huawei's open architecture is compatible with mainstream vendors, providing customers with smart and convenient business applications. Huawei video surveillance and Safe City solutions are used in 500+ cities across 100+ countries, and create a safer environment for more than 1 billion people.



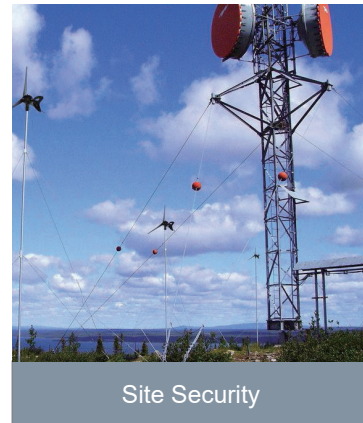
Safe City



Transportation



Campus Security



Site Security

Experience and Achievement

The only enterprise in the industry that has end-to-end core technologies: from chipsets, algorithms, hardware, networks, intelligence to cloud computing

Global Safe City Video Surveillance Market Leadership Award

10 years' experience in the video surveillance field and major contributor to H.265

19 years' experience in the chip field and 70% surveillance market share

21 years' experience in the algorithm field and 600+ patents

The World's First Smart Camera That Passed International CC EAL3+ Security Certification

8 years' experience in the cloud computing field (TOP 1 in China)

16 years' experience in the storage field and vendor who initiates the IETF standard

21 years' experience in the network field (TOP 1 in the globe)

CloudIVS

- Huawei CloudIVS video surveillance cloud platform builds a unified, open video surveillance cloud solution using the Fully cloudified architecture and core technologies such as cloud computing, cloud storage and Big Data, which is applicable to large- and medium-scale Safe City application scenarios. It provides users with large-capacity, high concurrent video access, storage, forwarding, analysis, and retrieval. It builds an algorithm and application ecosystem by decoupling software from hardware and algorithms from applications. It provides a unified API interface for the development of upper-layer applications.

CloudVCN

The system supports access of up to 500,000 cameras, eight-level networking, and 1,024 domains.

Cluster deployment: Services are not interrupted by load balancing among faulty nodes in a cluster.

Recording backup: provides double security assurance of video and image data.

Buffering technologies: ensuring video data integrity.

Video quality diagnosis: nine video diagnosis functions are implemented with no need to configure dedicated servers

- Comply with ONVIF, GB/T28181, SIP, and RTP/RTSP protocols. Supports the access of PUs from mainstream vendors.
- Provides a complete SDK/OCX secondary development package kit for interoperability with third-party platforms.



CloudIVS 3000

Huawei CloudIVS 3000 Enables Fast Complex Service Closures in Edge Scenarios.

Do MORE with LESS

Lightweight: Only Requires One Server to Start; Low Entry Costs

Elastic: Flexible Combination of Video Capabilities and On-Demand Resource Scheduling

Swift: One-Click System Deployment and Fast Algorithm Integration

Smart: Smart Algorithm Orchestrations Support Innovative Application Tactics

CloudIVS 3000C Computing Cloud Node	CloudIVS 3000R Search Cloud Node	CloudIVS 3000S Storage Cloud Node	CloudIVS 3000SC Storage and Computing Cloud Node	CloudIVS 3000SCR Storage, Computing, and Search Cloud Node
Behavior analysis, video synopsis, and video search	Facial, personal, license plate, and vehicle feature search	Video and image access, storage, and forwarding	Video and image access, storage, forwarding, and structuring	Video and image access, storage, and forwarding, video structuring, and feature search

Video Cloud Node

- Based on video surveillance service requirements in the industry, the VCN integrates Huawei's intelligent video surveillance platforms and professional storage products. It is widely applied in Safe Cities, traffic surveillance, campus security and etc. It provides intelligent video surveillance services such as real-time surveillance, video forwarding, live video backup, video playback, PTZ control and action with alarm.
- N+0 cluster: Enables surveillance service fault migration and load sharing, enhancing service reliability.
 - SafeVideo+ technology:** After a RAID group fails, data can still be written into and read from disks, enhancing data storage reliability.
 - PU access:** The VCN supports access of cameras of 300+ brands.
 - Surveillance platform interconnection:** The VCN supports interconnection with surveillance platforms of 50+ brands.
 - Capability openness:** The VCN allows other vendors to integrate VCN surveillance services through eSDKs.

VCN3010 Video Cloud Node (256 channels)		VCN3020 Video Cloud Node (512 channels)	
VCN510-8 Video Cloud Node (8 channels)		VCN510-8P Video Cloud Node (8 channels) with PoE Power Supply	
VCN510-16 Video Cloud Node (16 channels)		VCN510-16P/PD Video Cloud Node (16 channels) with PoE Power Supply	
VCN520-32 Video Cloud Node (32 channels)		VCN540-64 Video Cloud Node (64 channels)	

Video Content Management Platform

- Based on Huawei's industry-leading technologies of intelligent image processing and Big Data analytics, the VCM platform is a video Big Data analytics platform that provides diversified structured algorithms and high-performance hardware. It improves the efficiency of video investigation, enhances the capability of service collaboration, and helps the police to crack cases. Video Content Management Platform VCM.
 - 1- Vehicle/facial recognition, Video synopsis and search, and ten abnormal behavior analysis making video analysis more intelligent
 - 2- High performance, High access bandwidth, and High reliability hardware, enabling more efficient video analytics
 - 3- Open algorithm interfaces, integrating excellent algorithms.

VCM5020 Video Content Management Platform (14U height, with 20 service slots and 3 switch slots)	
VCM5010 Video Content Management Platform (3U height, with 4 service slots and 2 switch slots)	

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Software-defined Camera

• "Software-defined Camera" is a new artificial intelligent camera launched by HUAWEI in 2018, with a brand new architecture, a new AI chip and a new NPU neural network engine, giving the camera a brand new vitality.

• On-demand adaptation:

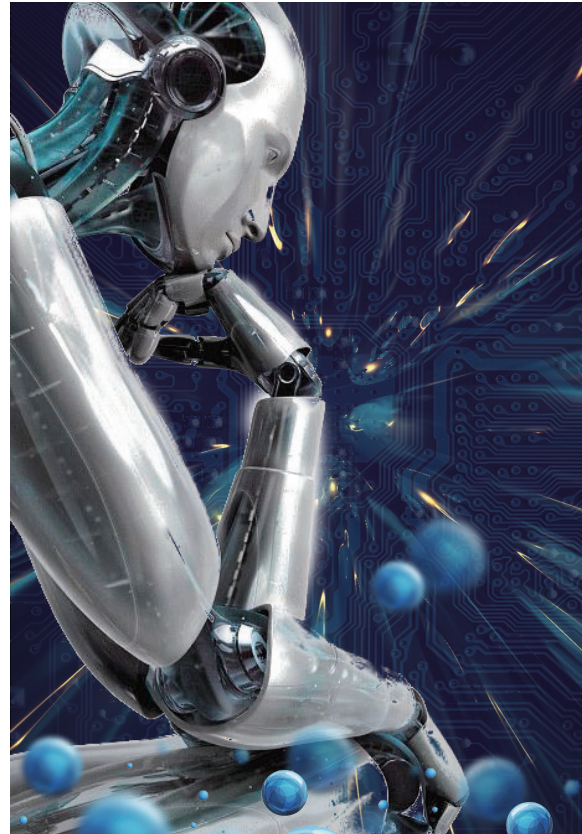
Huawei believes that cameras in the future must provide the on-demand adaptation capability. That is, they must be able to load different software and algorithms according to different scenarios to quickly adapt to the evolution through various combinations.

• Layered intelligence:

Huawei smart cameras adopt precise judgment (evolving from single-feature to full-feature) to improve accuracy and reduce misjudgment through all features and mass information. In addition, these cameras perform joint judgment through collaboration

• Continuous evolution:

Huawei believes that a camera with vitality should be self-aware and adapt to scenarios, just like the growth of a life. The camera should be able to iterate, evolve, and develop algorithms and applications. Also, the camera must always satisfy customers'



Person Data Structuring Camera

X1221-F 2MP Face Capture Box Camera	X1221-C 2MP Face Recognition Box Camera	X1281-F 4K 4K Face Capture Box Camera	X2221-FL 2MP Face Capture Softlight Bullet Camera
X2221-FLG 2MP Face Capture Softlight Bullet Camera	X2261-FL 6MP Face Capture Softlight Bullet Camera	X2221-CL 2MP Face Recognition Softlight Bullet Camera	X3221-C 2MP Face Recognition IR Fixed Dome Camera
M1221-F 2MP Face Capture Box Camera	M2221-FL(8-32mm) 2MP Face Capture Softlight Bullet Camera		

Vehicle Data Structuring Camera

X1221-V 2MP Vehicle Recognition Box Camera	X1281-V 4K 4K Vehicle Recognition Box Camera	X2221-VL 2MP Vehicle Recognition Softlight Bullet Camera	X2221-VI 2MP Vehicle Recognition IR Bullet Camera
X2331-CPI 3MP Checkpoint IR All-in-one Camera	X2381-VG 4K Vehicle Recognition Full spectrum All-in-one Camera		

Security Situation Awareness Camera

X1221-Fb 2MP Ultra-Low Light Box Camera	X2221-I 2MP Ultra-Low Light IR Bullet Camera	X3221-I 2MP Ultra-Low Light IR Fixed Dome Camera	X6621-Z30 2MP 30x Low Light PTZ Dome Camera
X6721-Z37 2MP 37x Ultra-Low Light IR PTZ Dome Camera	X6721-GZ37 2MP 37x Ultra-Low Light IR PTZ Dome Camera	X6781-Z37 4K 4K 37x Low Light IR PTZ Dome Camera	X6921-Z48 2MP 48x Low Light Laser PTZ Dome Camera
X6981-Z20 4K 20x Ultra-Low Light IR PTZ Dome Camera	M1220 2MP Ultra-Low Light Box Camera	M2220-I 2MP Ultra-Low Light IR Bullet Camera	M2220-In 2MP Ultra-Low Light Invisible IR Bullet Camera
M2220-I(8-32mm) 2MP Ultra-Low Light IR Bullet Camera	M2260-I 6MP Low Light IR Bullet Camera	M2280-I 4K 4K Low Light IR Bullet Camera	M6721-Z31 2MP 31x Ultra-Low Light IR PTZ Dome Camera
M6721-InFbZ23 2MP 23x Ultra-Low Light Invisible IR PTZ Dome Camera	IPC6125-WDL-P 2MP Low-Light WDR Network Box Camera	IPC6125-WDL-D 2MP Low-Light WDR Network Box Camera	IPC6125-WDL-FA 2MP Low-Light WDR Network Box Camera
IPC6125-WDL-Fb 2MP Low-Light Box Camera	IPC6126-WDL-E 2MP Ultra-Low Light Box Camera	IPC6126-WDL-F 2MP Ultra WDR Intelligent Facial Capturing Network Box Camera	IPC6126-WDL 2MP Ultra-Low Light Network Box Camera
IPC6224-VRZ-B 2MP Ultra-Low Light IR Bullet Camera	IPC6224-VRZ 2MP Network IR Bullet Camera	IPC6224-IR 2MP Network IR Bullet Camera	IPC6225-VRZ-SP 2MP Network IR Bullet Camera
IPC6225-VRZ 2MP Network IR Bullet Camera	IPC6225-VRZ(7-22mm)-ES 2MP Network IR Bullet Camera	IPC6256-VRZ 5MP Network IR Bullet Camera	IPC6284-VRZ 4K 4K Network IR Bullet Camera
IPC6285-VRZ 4K 4K Low Light Network IR Bullet Camera	IPC6324-MIF 2MP Fixed-focus Network Dome Camera	IPC6324-MIR 2MP Fixed-focus Network Dome Camera	IPC6325-WD-VRZ-B 2MP Ultra-Low Light IR Fixed Dome Camera
IPC6325-WD-VFZ 2MP WDR Network Dome Camera	IPC6325-WD-VRZ 2MP WDR Network Dome Camera	IPC6325-WD-VF 2MP WDR Network Dome Camera	IPC6325-WD-VR 2MP WDR Network Dome Camera
IPC6355-VRZ 5MP Network IR Dome Camera	IPC6385-VRZ 4K 4K Network IR Bullet Camera	IPC6525-Z30-S 2MP 30x Intelligent Network Speed Dome	IPC6525-Z30 2MP 30x Intelligent Network Speed Dome
IPC6625-Z30-P 2MP 30x Intelligent Network IR Speed Dome	IPC6625-Z30-S 2MP 30x Intelligent Network IR Speed Dome	IPC6625-Z30 2MP 30x Intelligent Network IR Speed Dome	IPC6681-Z20 4K 4K UHD STARSHOT 20x Intelligent Network IR PTZ Dome Camera