

Huawei Video Cloud Node



Combining Huawei’s intelligent video surveillance software with proprietary storage technology, Huawei VCN3020 is a customized all-in-one video surveillance product based on the video surveillance service requirements in the industry. Huawei VCN3020 uses the high-performance hardware platform to converge the video surveillance software, integrating video access, forwarding, storage, and service management, and providing video surveillance solutions with large capacity and high reliability.

Features

Excellent performance

- High-density designs with a 4U height and 40 hard disks support 4/6 TB data disks, saving space in equipment rooms.
- A single device supports a maximum of 512 (1024 Mbit/s)video storage channels, 512 (1024 Mbit/s) live video forwarding channels, and 1024 Mbit/s VoD channels.
- Supports stacking in self-management mode and 200,000 PUs expansion; a single domain supports 60,000 front-end access.

High reliability

- The bad sector recovery technology, optimizing input or output of service data, reducing the duty cycle, and extending the service cycle.
- The permanent logical unit number (LUN) storage technology ensures that the data is still readable even if multiple data disks in a RAID group are damaged while maintaining data availability.
- Load balancing among RAID groups provides intelligent service scheduling to other RAID groups if a RAID group fails, ensuring service continuity.
- N + 0 cloud-based cluster implements load balancing and service switchover from faulty devices, ensuring service continuity.
- The data safe technology ensures that system configuration and data can be quickly restored.
- Embedded video quality diagnosis, implementing 9 kinds of video diagnosis functions with no needs to configure a stand-alone server.
- Video buffering technologies ensure service data integrity.
- Supports video backup and dual backup of key data.
- The embedded Linux operating system is employed to ensure the system 7 * 24 stable running, protecting the system from virus, malware and hijacking attacks.

Specifications

Model		VCN3020
Device performance	Video input	512 channels of video input at 2 Mbit/s
	Video forwarding	512 channels of video forwarding at 2 Mbit/s
	Video playback	1024 Mbit/s VoD channels.
Controller	Processor	2 hexa-core processors (64-bit)
	Cache	16 GB (expansion supported)
Storage capacity	Disk quantity	40 (include 2 independent system disks)
	Disk interface	SATA/SAS, 4/6 TB, hot swap supported
	RAID level	System disk: RAID1, data disk: RAID 5, SafeVideo, hot spare supported
Others	Power supply	Two hot-swappable PSUs working in 1+1 redundancy mode
	Power consumption (include disks)	Maximum power consumption: ≤700W
	Dimensions (W x H x D)	447mm*175mm*748mm
	Weight	≤57Kg(fully configured with HDD)
	Cabinet	19 inch standard 4U cabinet

Openness and compatibility

- Complies with protocols and standards, including ONVIF, GB/T28181, SIP, and RTP/RTSP.
- Ensures the compatibility of PUs from mainstream vendors.
- Offers complete SDK/OCX interfaces for system interconnection with third-party platforms

