VCN510-8P

Video Cloud Node

Technical Specifications

Product Model	VCN510-8P
Device performance	
Maximum video access channels	8 channels
Video input bandwidth	128 Mbit/s
Video forwarding	32 channels
Video playback&download	8 channels
Video output bandwidth	256 Mbit/s
Video decoding	
Video format	H.264, H265
Decoding performance	1-channel 3840 x 2160 (4K) or 8-channel 1080p or 16-channel 720p or a lower resolution
Preview modes	1/4/8/9/16 panes
Platform performance	
Stacking function	2 to 16 VCN510-8Ps can be deployed in stacking modes
Client	Single-node system and stacked scenarios: 32 concurrent login users Single-node system: The LDU supports only one user at a time.
Storage capacity	
Disk quantity	2
Disk interface	SATA3.0
Disk type	Monitoring-level hard disk: 3 TB Enterprise-level hard disk: 4 TB or 6 TB or 8 TB
RAID level	RAID 0, RAID 1
Recording management	
Recording mode	Support for manual recording, scheduled recording, and alarm-triggered recording
Recording protection	Supports SafeVideo+ to protect data by channels or time
Query mode	Query by time or events
Download mode	Batch download, download by time segment
Security	
Media security	Supports multiple encryption algorithms such as AES256.
Watermark	Allows users to add digital watermarks on PU recordings and generates alarms when the watermarks are tampered with.
Reliability	
Dual-system	Supported
Media transmission	Supports self-adaptive bandwidth, FEC, SEC, and multicast
Data safe	Backs up key data and automatically restore service data.
Compatibility	
Device access	Supports access of devices that comply with the Huawei SDK, GB/T 28181, ONVIF 2.4, or ONVIF Profile S protocol, DHSDK.
Management and maintenance	
Management mode	Supports B/S, C/S management modes.
Log download	Allows users to download operation and run logs.
External interface	
HDMI	1 x HDMI 2.0
VGA	1 x VGA
Network ports	1 x 10/100/1000 Mbit/s Ethernet port, 8 x 10/100 Mbit/s Ethernet ports, PoE supported
USB	1 x USB3.0 and 1 x USB2.0
Audio input	1 x BNC
Audio output	1 x BNC
Alarm input	2 channels
Alarm output	1 channel
Others	
Operating temperature	0°C to 45°C
Operating humidity	5% to 95% (without condensation)
Power consumption (including disks)	< 60 W
Power supply	100 V AC to 240 V AC (50/60 Hz)
Dimensions (H x W x D)	Dimensions (excluding mounting ears): 43.6 mm x 442.0 mm × 310.0 mm Dimensions (with mounting ears): 43.6 mm × 482.6 mm × 310.0 mm
Cabinet	Standard 19-inch 1 U cabinet
Weight(including disks)	≤4.7 kg (including 2 disks)
Certification	
China	Type inspection report issued by the Ministry of Public Security and T28181
Outside China	CE, RoHS, REACH, WEEE, FCC, IC, NRTL, CCC, CQC, and certification by nine countries (Saudi Arabia, Kuwait, Nigeria, Botswana, Tanzania, Algeria, Uganda, Egypt, and Qatar)

| Safevideo+ | Video buffering | PoE++ | Alarm linkage | Voice intercom | GUI |

Product Features

High Performance and Flexible Applications
- Supports 8-channel network video access and 128 Mbit/s video input bandwidth.
- Supports deployment in a single node or stacking mode, and cascading with VCN3000 series.

High Reliability
- Supports disk shockproof design, decreasing the failure rate.
- Supports dual-system design to reduce risk of service interruption and video loss.
- Supports SafeVideo+ to store the redundant data on demand.
- Supports video buffering technologies, ensuring video data integrity.
- Uses the embedded Linux operating system that can run stably for 24/7 hours and is not vulnerable to attacks from hackers and viruses.

Multiple Intelligent Analysis
- Supports multiple intelligent analysis functions of Huawei intelligent cameras, such as intrusion detection, cross line detection, loitering detection, abandoned object detection, and removed object detection.

Easy Deployment and Maintenance
- No system disks, and available upon device startup.
- Plug and play, automatic configuration
- Directly connected to PoE ports, saving deployment costs
- Provides a status indicator for each disk, offering an intuitive view of disk status.

Recommended Fittings

HUAWEI

3 TB monitoring-level hard disk
4 TB enterprise-level hard disk
6 TB enterprise-level hard disk
8 TB enterprise-level hard disk