VCN510-16

Video Cloud Node

Safevideo+ | Video buffering | Alarm linkage | PTZ control | Voice intercom | GUI

Product Features

High Performance and Flexible Applications
- Supports 16-channel network video access and 256 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
- Provides a status indicator for each disk, offering an intuitive view of disk status.

Recommended Fittings

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

Technical Specifications

Product Model	VCN510-16
Device performance	
Maximum video access channels	16 channels
Video input bandwidth	256 Mbit/s
Video forwarding	64 channels
Video playback&download	16 channels
Video output bandwidth	256 Mbit/s
Video decoding	
Video format	H.264, H265
Decoding performance	1-channel 3840 x 2160 (4K) or 4-channel 1080p or 8-channel 720p or 16-channel D1 or a lower resolution
Preview modes	1/4/8/9/16 panes
Platform performance	
Stacking function	2 to 16 VCN510-16s 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	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.
Platform access	Supports connection to other platforms that comply with various protocols such as GB/T 28181 to implement diverse functions such as live video viewing, video on demand, PTZ control, and alarm reporting (the VCN510-16 can function only as a lower-level domain).
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	2 x 10/100/1000 Mbit/s Ethernet ports
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 x 310.0 mm Dimensions (with mounting ears): 43.6 mm x 482.6 mm x 310.0 mm
Cabinet	Standard 19-inch 1 U cabinet
Weight(including disks)	≤5 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)