HWT-IVS1800-B08

64-Channel Intelligent Micro Edge

Safevideo+ | Video buffering | Alarm linkage | Voice intercom | PTZ control | Human-machine interface

Features

High performance and flexible applications

- 64-channel network video access and 320 Mbit/s video input bandwidth
- Hybrid storage of video and images
- Single-node system and multi-node networks, high reliability
- SafeVideo+ technology, ensuring that data is still readable and writable in remaining normal disks even upon a RAID 5 failure
- Video buffering, ensuring video data integrity
- Recording lock, preventing important recordings from being overwritten within a specified period
- Data Safe, enabling dual backup of key system data
- Embedded Linux operating system, ensuring 24/7 stable running and protecting the system from hackers and viruses

Multiple intelligent analysis functions

- Works with HOLOWITS cameras to implement intelligent analysis and alarming, including crowd density detection, queue length detection, head counting, heat map, intrusion detection, loitering detection, tripwire crossing detection, and intelligent data storage.

Easy deployment and maintenance

- Free of system disks and available upon device startup
- Plug-and-play and automatic discovery and configuration
- Status indicators, facilitating device and disk maintenance

Technical Specifications

Product Model	HWT-IVS1800-B08
Controller	
CPU	32-bit multi-core high-performance processor
Memory	3 GB DDR3
Intelligent search	
Number of target alert reference lists	32
Total target library capacity	300,000 records
Target hot data search	< 3s
Target feature storage	5 million records
Personal feature cold data search	< 10s
Number of vehicle alert reference lists	5
Total vehicle library capacity	50,000 records
Structured data storage	Up to 1.2 million person records and 2 million vehicle records
Performance	
Video input	64-channel access at 320 Mbit/s
Video forwarding	64-channel access at 320 Mbit/s
Playback and download	32-channel playback at 160 Mbit/s
Platform performance	
Camera access	64 cameras connected to one server
Client	iClient (installed on PCs), managing up to 16 servers
Local system login	The LDU supports only one user at a time.
iClient login	Supports 32 users.
Video output	
HDMI	Two HDMI ports for outputs from different sources: one HDMI 2.0 port with 4K output resolution and one HDMI 1.4 port with 1080p output resolution
VGA	1 x VGA port
Preview	Primary screen: 1/4/8/9/16/32 panes; secondary screen: 1/4/8/9/16 panes
Storage capacity	
Number of disks	8
Disk port	SATA 3.0
Disk type	Enterprise-level disks: 4 TB, 6 TB, 8TB or 10 TB System storage: 8 GB eMMC
RAID level	RAID 0, RAID 1, and RAID 5
Recording	
Recording mode	Manual recording, scheduled recording, and alarm-triggered recording
Recording playback	LDU: multi-channel playback and segment-based playback iClient: one- or more-channel recording playback on the video wall
Recording protection	SafeVideo+, recording lock, and resumable transfer
Search mode	By time or event
Download mode	High-speed download, batch download, download by time segment, and onboard recording download
Security	
Media security	Multiple encryption algorithms such as AES256
Watermark	Digital watermarks can be added to the video from cameras and alarms are generated when the video is tampered with.
Reliability	
Media transmission	Bandwidth adaptation, forward error correction (FEC) 1.0, super error concealment (SEC) 2.0, and multicast
Data Safe	Two copies of key system data are stored. If a fault occurs, service data can be automatically restored.
Compatibility	
Video format	H.264, H.265, and MJPEG
Device access	HOLOWITS SDK, GB/T 28181, and ONVIF standards
Network protocols	TCP (reliable transmission), UDP (transmission protocol), RTP (data protocol), RTSP (real-time transmission protocol), RTCP (real-time transport control protocol), HTTP (hypertext transmission), SNMP (simple network management), NTP (network time calibration), SMTP (email service), DHCP (automatic IP address obtaining), SSH (Secure Shell), SFTP (secure file transfer), and FTP (file transfer)
Platform access	Connected to the platform through GB/T 28181 or ONVIF for services such as live video viewing, recording playback, PTZ controls, and alarm reporting (only for NVRs)
Management and maintenance	
Management mode	C/S client and LDU client
Log download	Operation and run logs
External ports	
Network port	2 x 10/100/1000 Mbit/s Ethernet ports; support for the load balancing and multi-address modes
USB port	3 x USB ports (1 front USB 2.0 port, 1 rear USB 3.0 port, and 1 rear USB 2.0 port)
Audio input	1 RCA port
Audio output	1 RCA port
Alarm port	16 alarm-in ports and 4 alarm-out ports
Others	
Environment requirements	Operating temperature: –5°C to +55°C Operating humidity: 20% to 90%
Power supply	100–240 V AC, 200 W
Power consumption (including hard disks)	98 W
Fan	Intelligent rate control
Dimensions (H x W x D)	89 mm x 440 mm x 460 mm
Chassis	2 U
Weight (without hard disks)	6.7 kg
Certification	
Certification	CE, RoHS, REACH, WEEE, CE, CB, CCC, CQC, GB/T 28181 commercial inspection by multiple countries, and HDMI

Standard Accessories

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

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