

# HWT-IVS1800-D16-4T

# HOLOWITS

## Technical Specifications

### 128-Channel Sensing Edge



### Features

- ▶ **High performance and flexibility**
  - 128-channel network video access and 512 Mbit/s video input bandwidth
  - Hybrid storage of video and images
  - Algorithm plug-in integration and management
  - Supports single-node and multi-node networks, featuring high reliability
  - SafeVideo, ensuring that data is still readable and writable in remaining normal disks upon a RAID5 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 to ensure 24/7 stable running, protecting the system from hacker attacks and viruses
- ▶ **Multiple intelligent analysis functions**
  - Works with HOLOWITS AI cameras to provide multiple intelligent analysis functions, including target analysis, person analysis, vehicle analysis, smart tracking, and behavior analysis.
- ▶ **Easy to deploy and maintain**
  - Free of system disks and available upon device startup
  - Plug-and-play and automatic discovery and configuration
  - Status indicators, facilitating device and disk maintenance

### Standard Accessories



- 4 TB enterprise disk
- 6 TB enterprise disk
- 8 TB enterprise disk
- 10 TB enterprise disk
- 16 TB enterprise disk
  
- 6 TB surveillance disk

Product Model	HWT-IVS1800-D16-4T
<b>Controller</b>	
Computing power	4 TOPS
CPU	64-bit high-performance 8-core processor
Memory	8 GB (DDR4 2400)
<b>Intelligent analysis</b>	
Image-based target analysis	24 channels (1080p, 0.5 partial image/second/camera); 12 channels (4K, one partial image/second/camera)
Video-based target analysis	4 channels (1080p, 60 images/minute/channel); 1 channel (4K, 60 images/minute/channel)
Video-based vehicle analysis	4 channels (1080p, 60 vehicles/minute/channel); 1 channel (4K, 60 vehicles/minute/channel)
Video-based person analysis	4 channels (1080p, 60 persons/minute/channel); 1 channel (4K, 60 persons/minute/channel)
Behavior analysis	Perimeter detection: 4 channels (tripwire crossing detection, intrusion detection, area entry/exit detection, loitering detection, and fast movement detection)
<b>Intelligent search</b>	
Maximum number of target alert reference lists	32
Total capacity of target lists	300,000
Target hot data search	< 3s
Target feature storage capacity	5,000,000
Personal feature cold data search	< 10s
Maximum number of vehicle alert reference lists	5
Total capacity of vehicle lists	50,000
Structured data storage capacity	Up to 1.2 million target records and 2 million vehicle records
<b>Device performance</b>	
Video access	128 channels, 512 Mbit/s
Video forwarding	128 channels, 512 Mbit/s (64 channels and 320 Mbit/s if intelligent analysis is enabled)
Playback/Download	32 channels, 160 Mbit/s
<b>Platform performance</b>	
Camera access	A single device supports access of up to 128 cameras.
Client	iClient (installed on a computer); A device supports access from up to two clients at the same time.
LDU login	The LDU supports two screens.
Maximum number of registered users on the iClient	32
<b>Video output</b>	
HDMI	Two HDMI 2.0 ports
VGA	External conversion cables can be used to extend VGA ports.
Preview	Primary screen: 1/4/8/9/16/32/64 panes; secondary screen: 1/4/8/9/16 panes
<b>Storage capacity</b>	
Disk quantity	16
Disk port	SATA 3.0
	Enterprise disks: 4 TB, 6 TB, 8 TB, 10 TB or 16 TB
Disk type	surveillance disks: 6 TB
	System storage: 32 GB eMMC
RAID level	RAID 0, RAID 1, and RAID 5
<b>Recording</b>	
Recording mode	Manual recording, scheduled recording, and alarm-triggered recording
Recording playback	LDU: multi-channel simultaneous playback and segment-based playback iClient: single-channel playback and multi-channel simultaneous playback on the video wall
Recording protection	SafeVideo, recording lock, and resumable upload
Recording query method	By time or event
Recording download method	High-speed download, batch download, download by time segment, and onboard recording download
<b>Security</b>	
Media security	Multiple encryption algorithms such as AES256 are supported for data transmission.
Watermark	Digital watermarks can be added to video from cameras. Alarms are generated when video is tampered with.
<b>Reliability</b>	
Media transmission	Adaptive bandwidth, 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.
<b>Compatibility</b>	
Video format	H.264, H.265, and MJPEG
Audio format	G.711
Device access	HOLOWITS SDK, GB/T 28181, and ONVIF standards
Network protocol	TCP, UDP, RTP, RTSP, RTCP, HTTP, SNMP, NTP, SMTP, DHCP, SSH, SFTP, FTP, and RTSP
Platform access	Connected to the platform through GB/T 28181, ONVIF, or GA/T 1400 for services such as live video viewing, recording playback, PTZ control, and alarm reporting (Functions only as an NVR)
<b>Management/Maintenance</b>	
Management mode	Local display unit (LDU) or client/server (C/S) (iClient S100/iClient S200)
Log download	Operation and run logs
<b>External ports</b>	
Network port	2 x GE electrical ports, support for the load balancing and multi-address modes
USB port	3 x USB ports (2 x USB 2.0 ports on the front panel and 1 x USB 3.0 port on the rear panel)
Audio input	One RCA port
Audio output	One RCA port
Alarm port	16 alarm-in ports and 4 alarm-out ports
<b>Others</b>	
Environment requirements	Operating temperature: -5°C to +55°C Operating humidity: 20% to 90%
Power supply	100-240 V AC, 900 W
Power consumption (including disks)	171.2 W
Fan	Intelligent speed control
Product dimensions (H x W x D)	133 mm x 440 mm x 445 mm
Chassis	3 U
Weight (without disks)	10.8 kg
<b>Certification</b>	
Outside the Chinese mainland	CE and HDMI