



VIDEO STORAGE PRODUCTS

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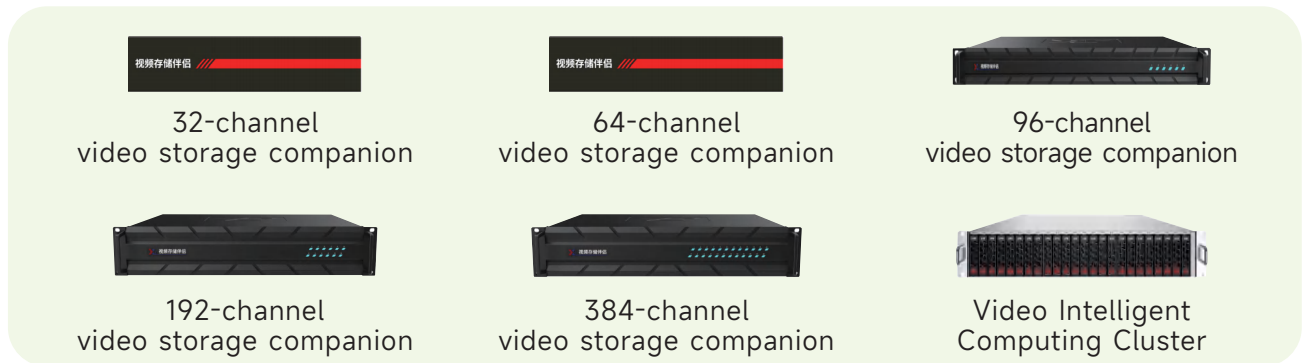
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PRODUCT INTRODUCTION

Video storage products are used in conjunction with storage devices to address challenges arising from explosive growth in video data volume and sharp increases in storage costs, including insufficient capacity and excessive energy consumption.

Target users include customers in hotels/motels, banking/finance, express logistics, community parks, industrial factories, and shopping malls.



PRODUCT ADVANTAGES



4-10x video compression

90% storage capacity reduction while maintaining original video quality, resolution, frame rate, features, and duration.



Massive video input

Supports up to 384 channels of 1080P, 192 channels of 2K, or 96 channels of 4K HD camera feeds.



Real-time video transcoding

Supports H.264 and H.265 video encoding standards.



Simple Distributed Deployment

The product portfolio is rich and can cover the network aggregation layer and core layer. It adopts single - end deployment and bypass access, eliminating the need to change the existing network topology.



Low Power Consumption (Video Intelligent Computing Cluster)

Based on intelligent chips with high computing power and low power consumption, the energy - efficiency ratio of the product is more than twice that of traditional X86 servers when performing the same computing tasks.



Low Cost (Video Intelligent Computing Cluster)

Compared with X86 and ordinary ARM servers at the same price, it provides 1.5 times more computing power. Meanwhile, it uses container virtualization technology to achieve system - level multi - instance operation, improving the utilization rate of hardware resources, reducing operating costs, and enhancing the investment benefits for users.

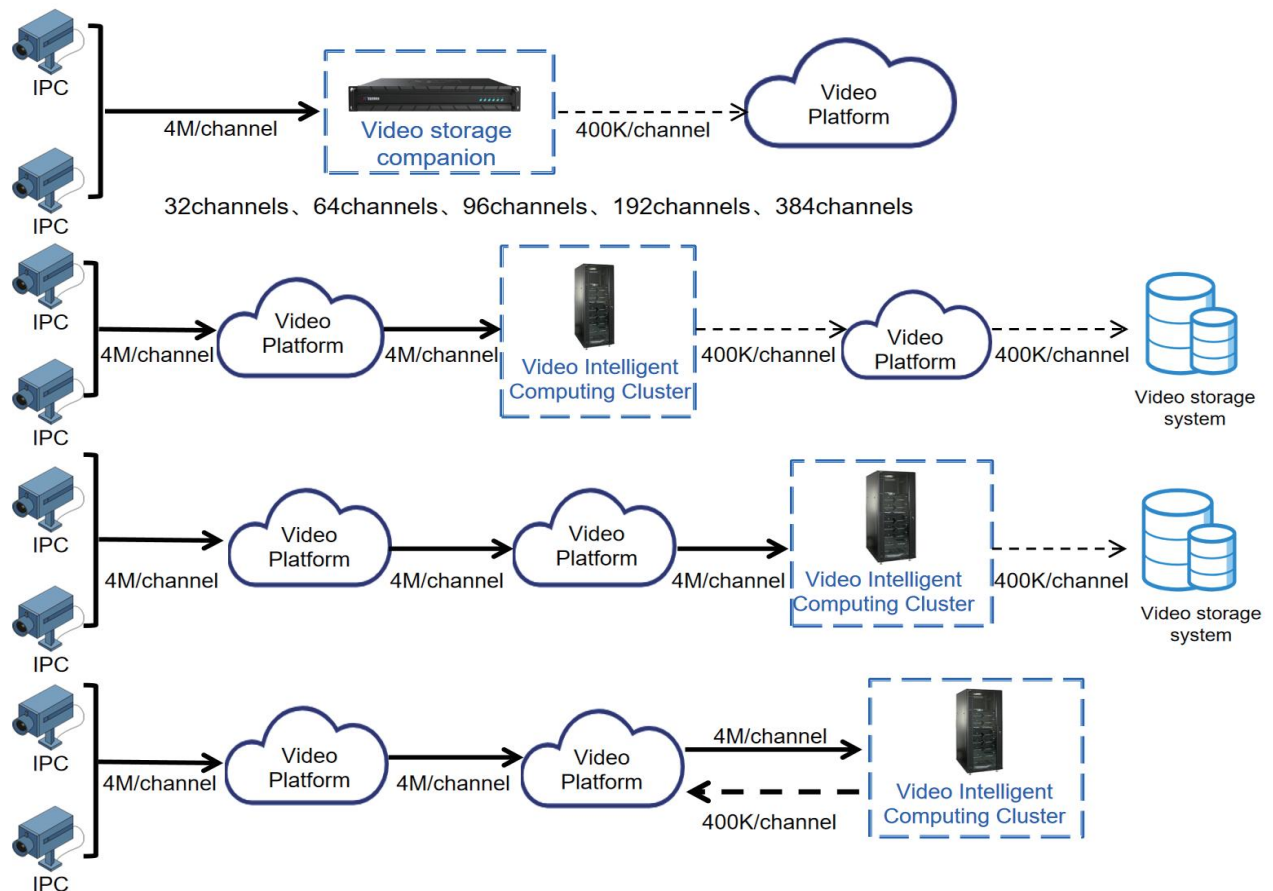
APPLICATION SCENARIO: Lightweight Video Storage

Pain Points

- Insufficient video storage space
- Limited video storage duration
- Restricted number of storable video channels

Outcomes







- 4-10x storage efficiency improvement with the same storage capacity
- Storage duration extended from 1 month to 6 months with the same storage capacity
- 4-10x increase in storable video channels with the same storage capacity



Expand storage without adding hard drives

Extend storage duration from 1 month to 6 months

PRODUCT PARAMETERS

Product Model	XTQ032FH	XTQ064FH	XTQ096FH	XTQ192FH	XTQ384FH	XTQ1500FH-Z
Product Name	32-channel video storage companion	64-channel video storage companion	96-channel video storage companion	192-channel video storage companion	384-channel video storage companion	Video Intelligence Computing Cluster
Product Appearance						
Number of Connected Cameras	32 channels	64 channels	96 channels	192 channels	384 channels	1500 channels
Concurrent Video Channels	32×1080p 16×2k 8×4k	64×1080p 32×2k 16×4k	96×1080p 48×2k 24×4k	192×1080p 96×2k 48×4k	384×1080p 192×2k 96×4k	1500×1080p 750×2k 375×4k
Encoding Format	H.264、H.265					
Encoding Consistency	Compressed video image encoding format remains consistent with the original (supports H.264, H.265); Compressed video image resolution unchanged (supports 1280×720, 1920×1080, 2560×1440, 3840×2160); Compressed video image output frame rate unchanged; Compressed video image quality supports continuous AI analysis.					
Output Bitrate	Under 1920×1080 dynamic bitrate, video stream output bitrate ≤1M					
Output Bitrate Video Compression Ratio	4~10× additional compression on H.264/H.265 (original size / compressed size)					
PSNR	PSNR≥36dB					
SSIM	SSIM≥0.9					
Device Latency	≤120ms					
System Failure Recovery Time	≤30s					
Fault Migration	Compressed video failure automatic migration management					
Video Resolution	Supports 4K, 2K, 1080P, 720P video resolution input					
Access Protocol	Supports RTSP, ONVIF standard protocol input					
Output Protocol	Supports RTSP, ONVIF protocol output					
Power Supply Interface	DC12V	DC12V	AC220V	AC220V	AC220V	AC220V
Device Power Supply	/					Dual Redundant Power Supplies
Typical Power Consumption	≤18W	≤36W	≤48W	≤96W	≤210W	≤800W/device
Network Interface	2×Ethernet	4×Ethernet	1×Ethernet	2×Ethernet	5×Ethernet	2×10G SFP+ Optical Ports
Device Form Factor	Desktop	Desktop	1U Rack-Mount	2U Rack-Mount	2U Rack-Mount	2U Rack-Mount
Device Dimensions	196×136×46mm (±2mm)	196×136×46mm (±2mm)	484×345×44mm (±2mm)	484×345×88mm (±2mm)	484×345×88mm (±2mm)	87×446×690mm (±2mm)
Operating Temperature	10°C~35°C					
Storage Temperature	-40°C~70°C					
Operating Humidity	20%~80%(non-condensing)					
Storage Humidity	5%~95%(non-condensing)					