



TC-S36424 Spec: T/4U

K2000 All-in-one Video Management Server

VMS Series



OVERVIEW

The K2000 is an all-in-one server that combines Tiandy's powerful video central management system, Easy7 CMS, with stream service and storage service. The K2000 can manage network cameras for recording, live view, playback, E-map, video wall etc.,. With the power of VMS, sophisticated alarm management is possible, as well as central management. The K2000's unique design provides both powerful storage and advanced centralized video management capabilities.



KEY FEATURES

- 4U front panel HDD slots design, support up to 24 HDDs
- Support centralized storage, decoding, forwarding and management of IP cameras, stream servers, NVRs and decoders, up to 2000 channels
- Support 2 HDMI & 1VGA output interfaces and 18 1080P decoding
- Linux OS embedded operating system
- Support web management UI
- Video input bandwidth 512M, output bandwidth 400M; Video recording channel 256/ forwarding channel 200 (Disable face recognition)
- Support local video storage
- Support NTP function
- Support RAID 0/1/5/6/10/50/60
- Able to operate the configuration and monitor the status of disk and RAID group by adopting visible management UI
- Able to conduct human, vehicle, attendance, device and access control
- Able to conduct face search
- Able to conduct early warning linkage

MAIN FUNCTIONS

Main Functions	
Device management	Support management of IP cameras, NVRs and network video encoder/decoders
	Support configuration of device information and account authority
	Support detection of device status
Live view	Support auto switch of main and sub stream, live windows can be drag to form a large single window. Live windows can be divided into 4/6/8/10 mode or 1-5/1-7 consist of main/sub stream. The number of screens per row/column can be customized up to 64. Supports electronic zoom, image capture. Supports switch by single channel, group or all channels, users can customize switch plan
PTZ control	Support pan tilt and zoom control including 8 directions control, zoom/aperture/focus settings, preset settings, wiper control and 3D positioning
Video management	Support recording template that users can easily arrange start time, end time, week time and recording duration
Video playback	Support device storage/centralized storage/local storage and multiple method for searching video
	Support timing video recording, playback, video download, image capture, multi-speed playback in server
Video wall	Support video wall template configuration and video switch
Event management	Support multiple alarm types and linkage of alarm input and output interfaces. Events can be prioritized by importance
Intelligent analysis	Support linkage of VCA functions
Alarm linkage	Support linkage of alarm output, video recording, sound, pop on video wall, e-map, image capture and preset of PTZ
User management	Support user account management like setting authority and expiration time
Log management	Support recording log like adding, deleting and modifying for each module independently
	Support searching and exporting log information for each module

E-map	Support using super high-resolution picture as e-map background
	Support google GIS map and different surveillance icons overlay on maps
Two-way audio	Support two-way audio to devices and volume is adjustable
Decoding	Support 2 HDMI& 1VGA output interfaces and 18 1080P decoding
	Support 3 optional decoding cards and up to 18 screens output
Compatible devices	Support access of IP cameras, NVRs, centralized storage and servers.
	Support 400 channels access via ONVIF and 1100 channels via Tiandy private protocol. Support 2000 channels via Tiandy private protocol only.
Group management	Support adding, modifying, searching and deleting the organization structure and official authority
Face management	Support up to 50 face recognition cameras connection
	Support up to 5000 face pictures each library
	Support analysis and statistics of face alarm
	Support to search picture by picture and search face picture by time or name

SPECIFICATIONS

Specifications	
CPU	64-bit multicore processor
Memory	24GB (3×8GB, 4 memory slots), maximum 64G
OS HDD	32G SSD
Network interface	4xRJ45 self-adaptive 10/100/1000 Mbps network interfaces
Data HDD	Up to 24 disks
HDD type	2.5" or 3.5" SATA
HDD capacity	4/6/8TB enterprise HDD 4/6/8/10TB surveillance HDD
Interfaces	2 USB 2.0 ports in front panel, 2 USB 3.0 ports in rare panel 2 HDMI, 1 VGA 2 RS485, 1 RS232 8 alarm input, 4 alarm output
RAID	RAID 0/1/5/6/10/50/60
General	
Power supply	AC100V~AC240V, 50Hz/60Hz
Power consumption	Rated power: 800W Peak power: 500W
Working temperature	0°C ~40°C
Working humidity	10% ~ 90%(RH)
Dimensions	542mm(L)×446.6mm(W)×173.8mm(H)

Software	
Management platform	WEB GUI
Management software	IPC access management, Recording file management, Alarm linkage
IPC channels	2000
User account	100
Middleware adapter	1
Middleware number	1
Icon overlay on map	1000
Person information	10000
Face recognition camera access	Maximum 50
ANPR camera access	Maximum 25
Access control PAD (ID card)	Maximum 70
Face turnstile	Maximum 24
Log record	500,000 per 90 days
Alarm record	5,000,000 per 90 days
Face Pad record	3,000,000 per 90 days
Face capture record	2,000,000 per 90 days
Attendace record(1000 people)	365,000 per year

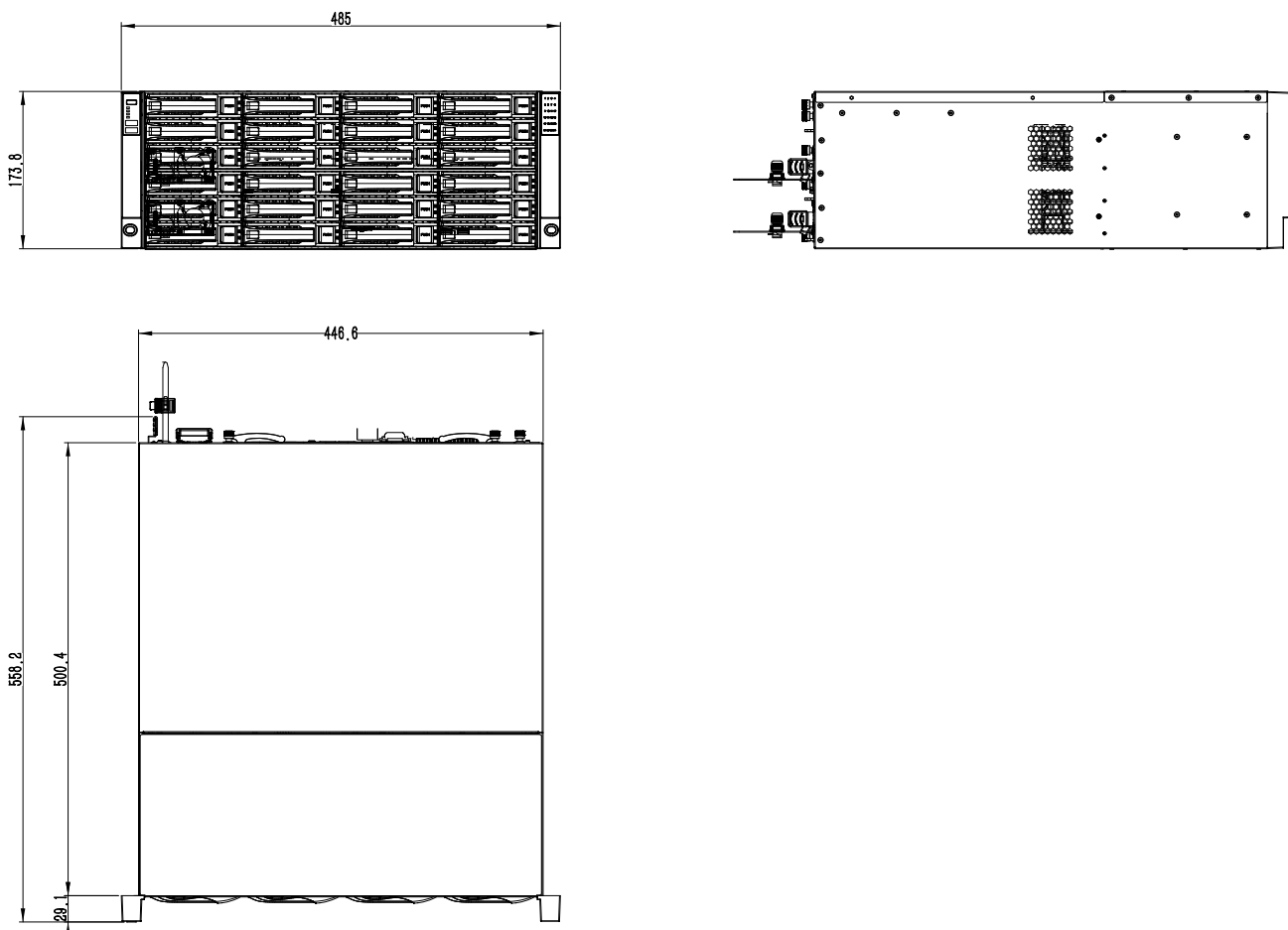
Dynamic Statistics	
* The following listed numbers are peak performance, they may not be supported at the same time	
GPS location reported	10/S
Access users	50
Online users	100
Access APP	100
Alarm go off per second	8
Picture performance	Send/Receive 25 pictures/S Less than 550K each picture, up to 18,000 pictures every day
Video performance (Picture and video storage in same time)	
Video storage capability	Up to 180 channels (2Mbs, H.265)
Video forwarding capability	Up to 180 channels forwarding and decoding combined (2Mbs, H.265)
Decoding capability	Up to 80 channels in main stream (1080P, 2Mbs, H.265), 100 channels in substream
Video switching	Up to 80 channels in main stream (1080P, 2Mbs, H.265), 55 channels in substream

Video performance (Video storage only)	
Video storage capability	Up to 256 channels (2Mbps, H.265)
Video forwarding capability	Up to 200 channels forwarding and decoding combined (2Mbps, H.265)
Decoding capability	Up to 144 channels in main stream, 384 channels in substream (1080P 2Mbps H265)
Video switching	Up to 40 channels in main stream, 384 channels in substream (1080P 2Mbps H265)

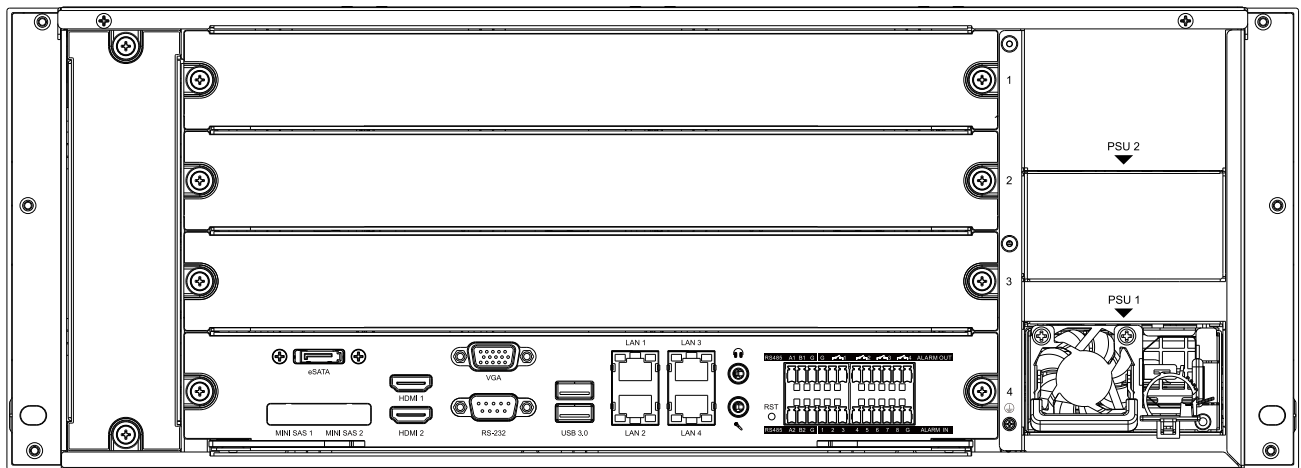
CLIENT REQUIREMENT

Client Requirement	
CPU	Intel Core i5 or above
Memory	8G or above
OS	Win 10 (64bit)
Web browser	Chrome for Web GUI, IE 11 for middleware
Network interface	Self-adaptive 10/100/1000 Mbps network interface

DIMENSIONS (Unit: mm)



Physical Interfaces



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