AI WatchNET®

VMS-1000-V2

VMS Media Gateway (Industrial Grade with AI Support)

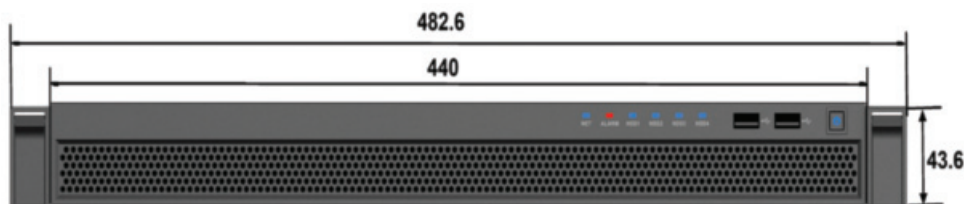| Counting	HDMI	USB	Video Wall	Hot Swap	POS	Linux	VGA	Heat Map	AI

Introduction:

VMS-1000-V2 is a powerful VMS media gateway server preloaded with linux-optimized eVMS-PRO, which improves reliability of the whole system. It supports up to 512 network cameras and integrates video, access control, video intercom and AI functions, which provides a cost-effective all-in-one solution.

Features:

- **Cost-effective**
  - Preloaded with linux-optimized easy-to-use eVMS-PRO, which makes the deployment simplified
  - Pre-activated 512 video channels can save the enormous costs of projects
- **High Reliability**
  - Hot standby of two servers will keep the system 7*24h stable operation
  - Long-term stability test makes the hardware, OS and software more compatible

VMS-PRO
Enterprise Class VMS Solution

390
398.6
420

482.6
440
43.6

 iPhone   [android]

General Feature

Organization Management
• Achieve device group management through organization

Device Management
• Device initialization: Initialize Watch*NET*'s device
• Add devices via auto search, IP
• Manage Watch*NET*'s devices such as network camera, network speed dome, thermal camera, NVR, DVR, access control, etc.

Users & Authorities
• Add, edit and delete the users
• Assign different users with different permissions
• User can be restricted by the MAC and expiry data
• Set user PTZ permissions

Storage
• Central storage: local disk storage and extend storage via ISCSI
• Add, edit, delete, enable and disable the record plan
• Supports edge storage and central storage

Bind Resource
• Bind access control channels with the corresponding cameras

Playback
• Play back the record from the edge devices or central storage
• Video filter: normal, motion, alarm, video loss, tampering video
• Sync play
• Reverse playback
• Playback frame-by-frame
• Support 1X, 2X,4X,8X,16X,32X,64X, 1/2X, 1/4X, 1/8X, 1/16X, 1/32X, 1/64X playback
• Lock or mark the important record for central storage
• Support smart search
• Support searching record of POS data

eMap
• Raster map, main map and submaps
• Up to 8 levels of submap
• Add, edit and delete the hot spots (camera, alarm input) on the map
• View the live video and playback on the map
• Zoom in and zoom out the map
• Support visible range and initial angle
• Icon flashes on map when alarm occurs

Video Wall
• Add and manage the video wall
• Support screen ID on/off
• Support combining screens to one screen
• Bind decoding channel to screen
• Decode the real-time video to wall
• Decode the playback video to the video wall
• Manually/automatically decode to wall
• Control the video wall split
• Change the stream type of video channel
• Add box, screen on/off, and local display on client
• Tour the video channels in a single window
• Schedule plan: Set the running task on timeline
• Tour plan: loop display of different tasks, setting loop time
• Support KBD950NET to control video wall to control video wall

Live View
• Common layout and customized layout
• PTZ control
• Manual recording
• Snapshot
• Fisheye de-warping
• Audio talk
• Set alarm window
• Turn on/off the audio in live view
• Region of interest: Divide one window into 4 or 6 parts, one for whole image, others for the details
• Save the current split as a view
• Support adding channel to favorite
• Video tour according to device, org
• View map via live view window

Event Management
• Detect the device exception, video events, alarm input, access control events, etc.
• Alarm scheme: All day template, weekday template, weekend template and custom template
• Alarm priority: low, medium, high
• Linkage: snapshot, record, pop-up live video, alarm output, PTZ, access control, video wall display
• Add, edit, delete, enable and disable alarm scheme
• Display event info including alarm time, alarm name, alarm status, etc.
• View the live video or pictures from related camera
• Acknowledge the events
• Arming control for events
• Forward the alarm to relevant user
• Send email of events
• Handle the events
• Search events

Download Center
• Download record from central storage or device
• Download record by timeline, files or tags
• Supports multi-task download
• Supports dav, MP4, flv, asf, and avi format

Intelligent Building Functions

Personnel Management
• Add, edit and delete person and department
• Issue the card, fingerprint via USB reader or devices
• Authorize by door or door group
• Private password and face authentications
• Guest, VIP and normal person management

Access Control
• Door status and door events monitoring
• Door group and access level
• Access permission management
• One-key to lock/unlock the doors
• Fire alarm linkage
• Advanced door rules, such as anti-passback, first card unlock, inter-door lock, multiple card unlock, remote verification
• Extract record from device

Attendance
- Set access control devices as attendance stations
- Attendance time period management, including fixed attendance and free attendance
- Attendance shift management and arrangement, including department shift, person shift, temporary shift
- Attendance report management, including attendance record report, abnormality report, card-swiping report, overtime report, away report

Alarm Controller
- Display all alarm controller devices and subsystems under device
- Arm/Disarm alarm controller
- Arm, disarm, cancel alarm, normal, bypass, isolate in zone or subsystems

Artificial Intelligence

Face Recognition
- Live face
- Similar face search
- Feature search
- Recognition records
- Structured report of gender and age
- Face library management
- Face trace
- Face alarm and event linkage

ANPR
- Real-time license plate recognition
- Search history license plate recognition result
- Search arming record Flow Analysis
- Search and export people counting report
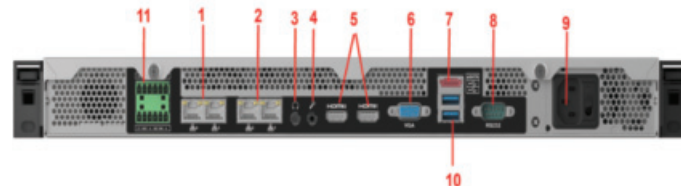- Search and export heat-map report

System Maintenance

Log
- Operator log in control client
- Door log
- Search and export log Backup and Restore
- Back up system data automatically (daily, weekly, monthly)
- Back up system data manually
- Restore system data from server or local file

Other Functions
- FTP for alarm pictures
- Device time calibration, server time calibration

Front Panel:

1. Power Button
2. USB 3.0
3. USB 3.0
4. HDD Status
5. Alarm Indicator
6. Network Indicator

Back Panel:

1. Giga Lan port 3~4
2. Giga Lan port 1~2
3. Audio output
4. Audio input
5. HDMI Port1/Port2
6. VGA
7. ESAS
8. RS23
9. Port Interface
10. USB3.0 Port
11. Alarm In&Out

Model	VMS-1000-V2	
System	Main Processor	64 bit 4 core CPU (CORE-I3-6100)
	Operating System	LINUX
	Power	Support hot swap (Optional)
	Memory	8GB (1×8GB)
	Chassis	1.0mm SGCC steel plate
Interface	Network Port	4 Ethernet Ports (10/100/1000Mbps)
	RS232	Reserved
	RS485	Reserved
	USB Port	Front panel: 2 × USB 3.0, Rear panel: 2 × USB 3.0 Onboard panel: 1 × USB 2.0
	HDMI	2 HDMI, one as network config, another as spare
	VGA	1 VGA, as network config
	HDD Installation	Built-in 1× 1T HDD disk (2.5") for system Support 3HDD disks (2.5") for Video & Picture storage

Video Management	Client	PC Client	100
		WatchNET Mobile 2	100
		WatchNET Mobile for VDP	5000
	Org. and User	Organization	10 hierarchies, 999 organizations per hierarchy
		User Group	3 Levels
		User	100 online users and unlimited users
	Devices (Single Point Performance)	Video	512 Channels
		ONVIF	64 IP, 64 Channels
		Access Control	100 IP, 512 Doors
		VDP Devices	1100 Devices (Unit VTO no more than 100)
		Facial Recognition Channels	32
		ANPR Camera	32
		Alarm Host	64
		POS Channels	32
		Time Attendance	64
	Media Transmission Server	Video Input per Server	350 Mbps
		Video Output per Server	350 Mbps

Video Management	Record	Playback Bandwidth per Server (With Recording)	150 Mbps
		Video Storage Bandwidth per Server	150 Mbps
		Maximum Capacity per Storage Server	200TB
		Download Task	Up to 5 per Client
	Event	Number of event reception without Pic	80 per Second
		Number of event reception with Pic	5 per Second
	Emap	Hierarchy of Raster Map	8 Hierarchies
		Photos of Raster Map	Up to 64 Photos
		Map size of Raster Map	Up to 14.7MB
		Channel Number	Up to 200
	Personal Management	Persons	30,000
		Cards	30,000
		Fingerprints	90,000

Other	Power	100V ~ 240V, 47 ~ 63Hz
	Consumption	70W ~ 120W (with HDD)
	Working Environment Temperature	0°C ~ +45°C (32°F ~ +113°F)
	Working Environment Humidity	5% ~ 90% (non-condensation)
	Storage Environment Temperature	-20°C ~ +70°C (-4°F ~ +158°F)
	Storage Environment Humidity	5% ~ 90% (non-condensation)
	Working Altitude	-60m ~ 3000m
	Weight (Without Package)	6.0 Kg / 13.22lb
	Dimension	1U, 440mm×398.6mm×43.65 mm 17.32" × 15.69" × 1.72"
	Installation method	Standard 19-inch rack mount