

GVD VMS 4.0 Suites

Cloud AI Solution for Flexible Deployment

GVD **VMS 4.0** is designed to run Deep-Learning AI, with a cloud-based solution combining hybrid storage. The **4.0** is capable of managing up to 100,000 channels.

With a new architecture, GVD **VMS 4.0** is easy-to-grow to greatly lessen the complexity of large-system integration and communication.

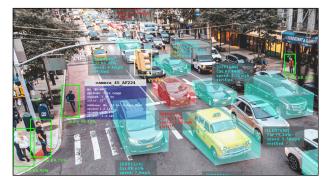
The 4.0 can easily stack up to a group of workstations, video walls, NVRs, data servers, storage, 3rd-party systems, and, as previously mentioned, a large number of 100,000 IP cameras.

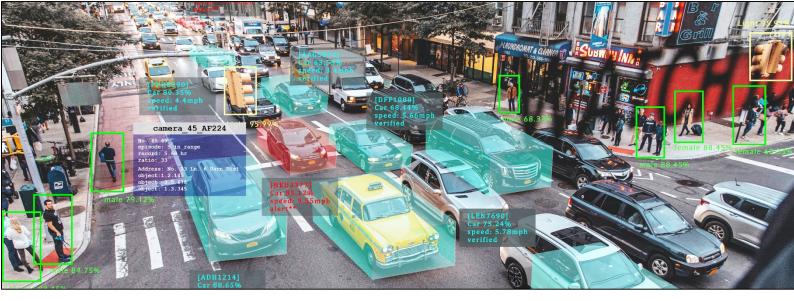
- Max: 100,000 IP cameras support
- Elasticsearch for system scalability, availability, data visualization.
- Hybrid storage in NVRs, IP-SAN, camera SD cards, and clouds.
- AI video computing in both central cloud and edge devices.
- iGlance Dashboard for a quick overview of system big data

The VMS 4.0 features iGlance Dashboard, which encapsulates system big data with simple graphs in a real-time way. All system health, device status, device recording status, device recording days, common system tasks, etc., can be quantified and visualized through pies and charts.

Migration & upgrades

GVD provides **VMS 3.8** users with seamless migration and upgrades to **VMS 4.0**. Whether plugging GVD new AI features or adapting 3rd-party AI is quick and easy.





Software Features

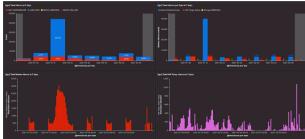
iGlance Dashboard



GVD **iGlance Dashboard** not only sketches overall system statuses with graphs, but also breaks down system details, including NVR status, channel

video connection status, video recording days, and video recording status.





eMaps



To ease the complexity of large-scale IP video surveillance, GVD features *eMaps*, which further feature two types: Geographic street maps and floor plans. With these maps, security

operators can easily oversee and manage a big group of devices deployed city-wide or nation-wide and quickly spot a device to respond to an alarm.

AI Deep-Learning



GVD has the most sophisticated AI engines for high-end video analytics up to date, including Facial Recognition, LPR, Vehicle Classification, and

Behavior Analysis. GVD **Deep Learning** uses NVIDIA's high-performance GPU to minimize image processing time and significantly shorten the time of running algorithms.





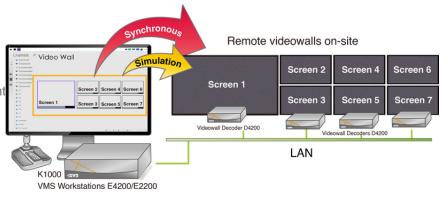


Synchronous Videowall Control



"*Synchronous Videowall Control*" means your operations at the system center will promptly apply

to a remote videowall. Supported content and operations on videowalls include: Alarm list, video live-view, video playback, PTZ, and Fish-eye Dewarp. Also, the UI makes you aware of a videowall's actual location on-site.



CaseBuilder



GVD **CaseBuilder** can systematically inquire into a case on your business floors. You can document

each of your investigation act with an "*Investigation Note*", attached with text, video clip, and screenshots for support. You can further store such *notes* in an "*Investigation Case*", which then forms organized documentation of your investigation.



Device Keeper



The Device Keeper is an automated maintenance system for software version overview, license dispatch, and automatic system

upgrade for a large group of GVD servers. All tasks are centralized and simplified in Device Keeper to avoid human mistakes and improve efficiency and productivity.



System Architecture

D4200 VMS Videowall



"Synchronous Videowall Control" from platform center to decoders. Each decoder supports max. 4 monitors and each monitor supports 64 synchronous live videos, and Intuitive GUI.



A5208 / N1100 AI AppPack Server Al Edge Node

Features dual CPUs and four GPUs for high Al performance and exclusive "Virtual Channels" to bust the high-price of Al., with Al modeling for LPR, vehicle classification. human behavior, and face recognition.



E4200 / E2200 VMS Workstation



Cloud-based with AI, with iGlance Dashboard to quantify system data with graphics. Powerful features include: eMaps, CaseBuilder, Device Manager, and Synchronous Videowall Control.





cluster & redundant design for zero down-time. Provides an iGlance Dashboard to guickly sketch system Big Data with

C5104-IGS

iGlance Server



Provides automated maintenance for a Device Keeper large group of GVD servers, including quick overview of software versions. license dispatch, and automated

Supports 100,000

high-availability, and

cameras, with

high-scalability,

system upgrade. Centralized, simplified, human mistake reducing, and productivity improving.

graphs.



Supports 8 channels and 4G / WiFi, with fanless design, PoE LAN ports, and certified with railway standards EN50155, EN50121-3-2, & EN61373,

H8000





Container-based cloud NVR for max, 1280 HD channels per server.

X8000/SH800 **Cloud Archive Server**



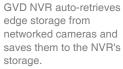
X8000 brings high-end and high-availability backup to max. 1280 HD channels per server. SH800 comes with iSCSI or fiber ports for massive data throughput. with expansion up to 512 HDDs per server.

M6000/4000/3000 M2000/1000/X5000 NVR & Failover Server



GVD NVRs are high-performance NVRs with Modbus support for massive system integration. GVD Failover Server is good for uninterrupted and seamless video live-view and playback.







Supports 20 live-videos. 128 channels, and 50

NVRs, with push alarm notice, push alarm emails, and alarm list.

Specifications

VMS 4.0 Suites Package	VMS Pro Package	VMS Max Package
Pro-NVR Software	\checkmark	\checkmark
VMS Database	\checkmark	\checkmark
VMS Manager	20 per Database	100 per Database
VMS Conductor	20 per Database	100 per Database
VMS Conductor Lite	\checkmark	\checkmark
VMS Video wall	\checkmark	\checkmark
VMS Apps: Chrome, IE, iOS, Android	\checkmark	\checkmark
POS, IO Support	\checkmark	\checkmark
Failover Server Software	Optional	\checkmark
Archive Server Software		Optional
iGlance		\checkmark
Ai AppPack Support	\checkmark	\checkmark
Ai Edge Device	\checkmark	\checkmark
Recipe Manager	Optional	Optional
Federal Domain Support		\checkmark
Cloud VM Support		Optional

Product	Model	Description	
VMS Manager VMS Conductor VMS Conductor Lite VMS Videowall	SW-E4200 SW-E2200 SW-E1100 SW-D4200	Camera tag management, video operations, camera/NVR/storage configuration & setup, alarm management, device management, eMaps, CaseBuilder, videowall syn & management, iGlance Dashboard	
VMS Database	SW-C5104-DBS	Camera tag management, video operations, AppPack integration, device management, user permission & management, storage & failover management, database management, alarm management, system auto-upgrade, LDAP, videowall, system logs, VHD backup & restore	
iGlance	SW-C5104-IGS	Quick visualization of system Big Data, including NVR recording days and device availability.	
Pro-NVR Software	SW-M6000	Video storage & management, camera/NVR/storage configuration & setup, user permission & management, eMaps, video streaming, Adaptive Video Stream, alarm management, VHD backup and restore	
Failover Server Software	SW-X5000	Video storage & management, video streaming, NVR relay & watchdog, video codec	
Archive Server Software	SW-X8000	128-ch support, recording by channel / schedule / event, uninterrupted and seamless playback	
VMS Apps	iOS-App, Android-App, IE-App, Chrome-App	Video playback & live-view, push alarm notice; alarm popup, multi-NVR operation, video PTZ control	
DevPack Update		New IP camera integration, ONVIF spec. update, SD card storage support	
Ai AppPack	A5208-LPR	GVD Ai LPR	
	A5208-TRC	GVD Ai vehicle classification	
	A5208-BHA	GVD Human behavior analysis	
	A5208-FGC/KNG	NEC Facial Recognition	
Ai Edge Node	N1100	Support 4x IP cameras	
		nVidia Ai Node on Windows IoT	
Recipe Manager	SW-C6101-VLC	Automated large-system maintenance, including software version overview, license dispatch, and automated system upgrade.	
GVD Consultant Service PASIA OnCloud GVD SDK	PASIA	GVD enhanced AI training to increase the accurate rate on Ai video analytics	
	OnCloud	GVD service to help customers to port system to dedicated clouds	
	GVD SDK	GVD APIs and programming tools for VMS 4.0 integration and access	