



# 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.

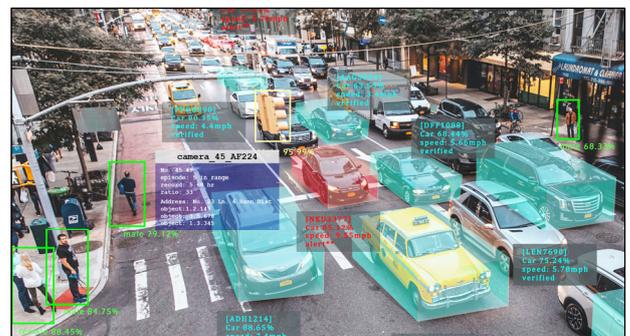
The 4.0 can easily stack up to a group of workstations, video walls, NVRs, data servers, storage, 3rd-party systems, and, as previously mentioned, a large number of 100,000 IP cameras.

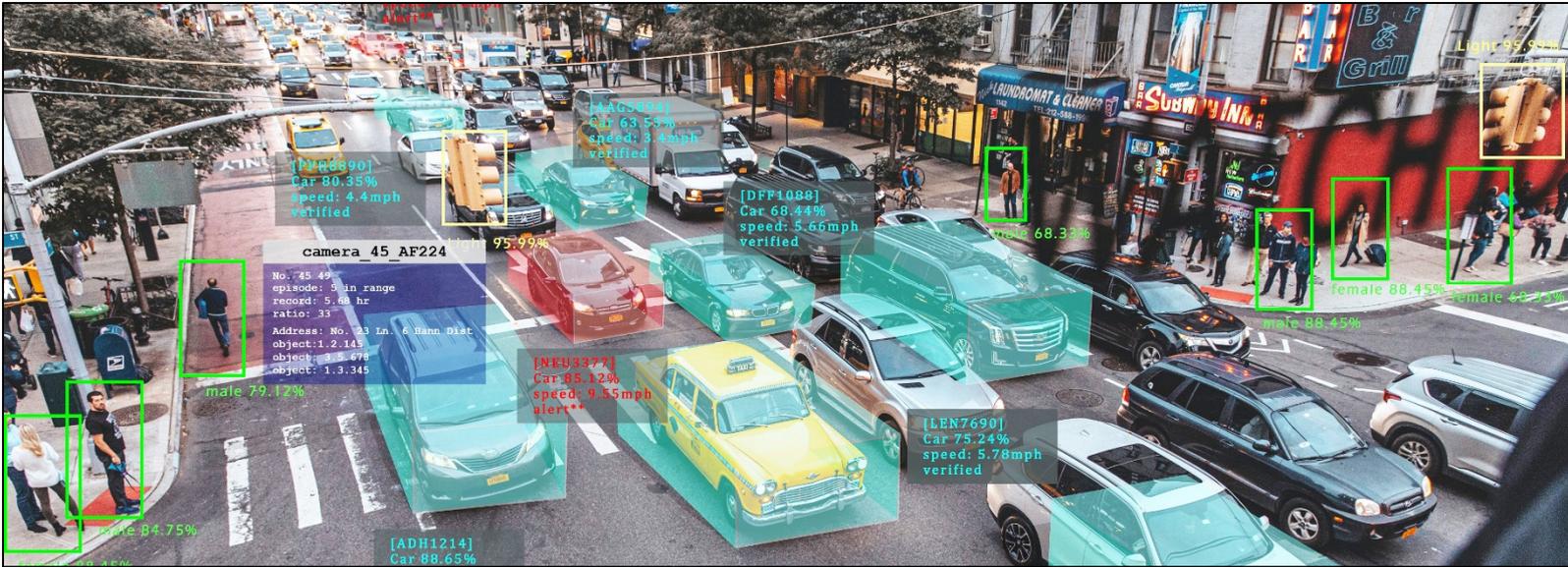
- Max: 100,000 IP cameras support
- Elasticsearch for system scalability, availability, data visualization.
- Hybrid storage in NVRs, IP-SAN, camera SD cards, and clouds.
- AI video computing in both central cloud and edge devices.
- iGance Dashboard for a quick overview of system big data

The **VMS 4.0** features **iGance 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

## iGance Dashboard



GVD iGance 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.



## AI Deep-Learning



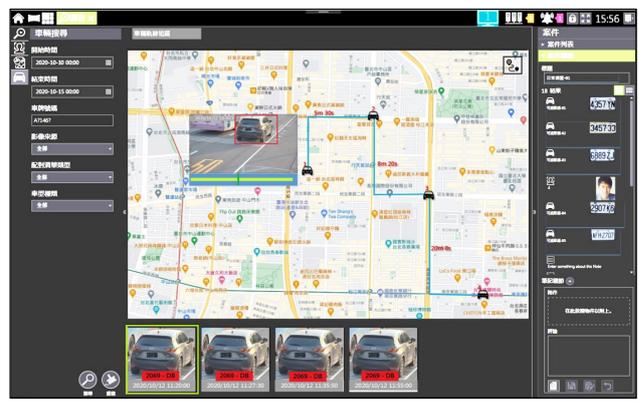
GVD has the most sophisticated AI engines for high-end video analytics up to date, including Facial Recognition, LPR, Vehicle Classification, and Behavior Analysis. GVD **Deep Learning** uses NVIDIA's high-performance GPU to minimize image processing time and significantly shorten the time of running algorithms.



## 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.

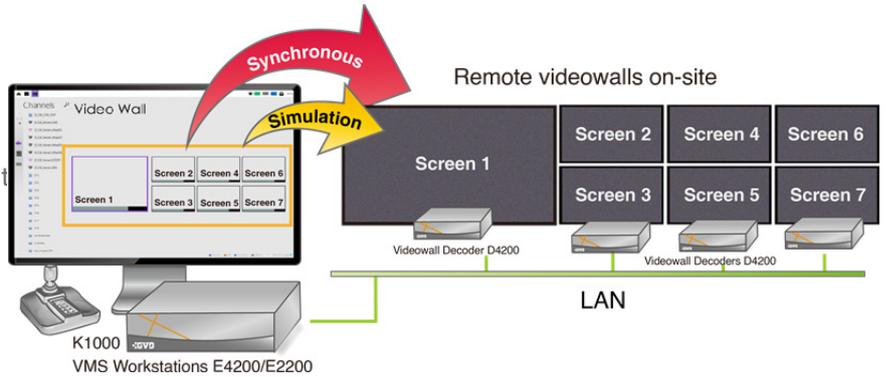




## Synchronous Videowall Control



"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



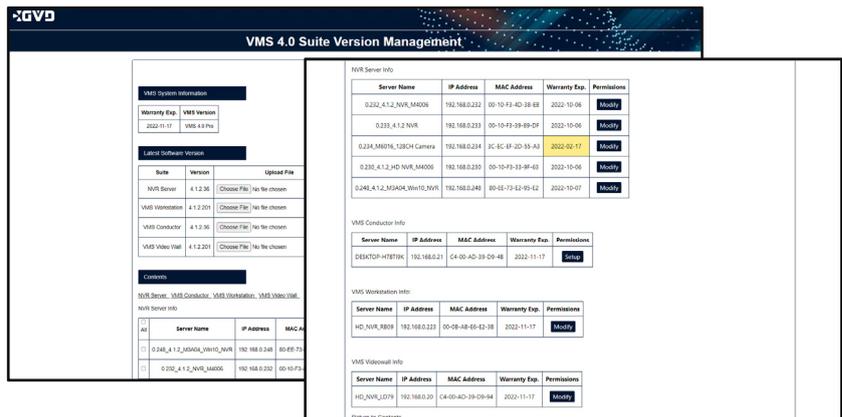
GVD **CaseBuilder** can systematically inquire into a case on your business floors. You can document each of your investigation act with an "Investigation Note", attached with text, video clip, and screenshots for support. You can further store such notes in an "Investigation Case", which then forms organized documentation of your investigation.



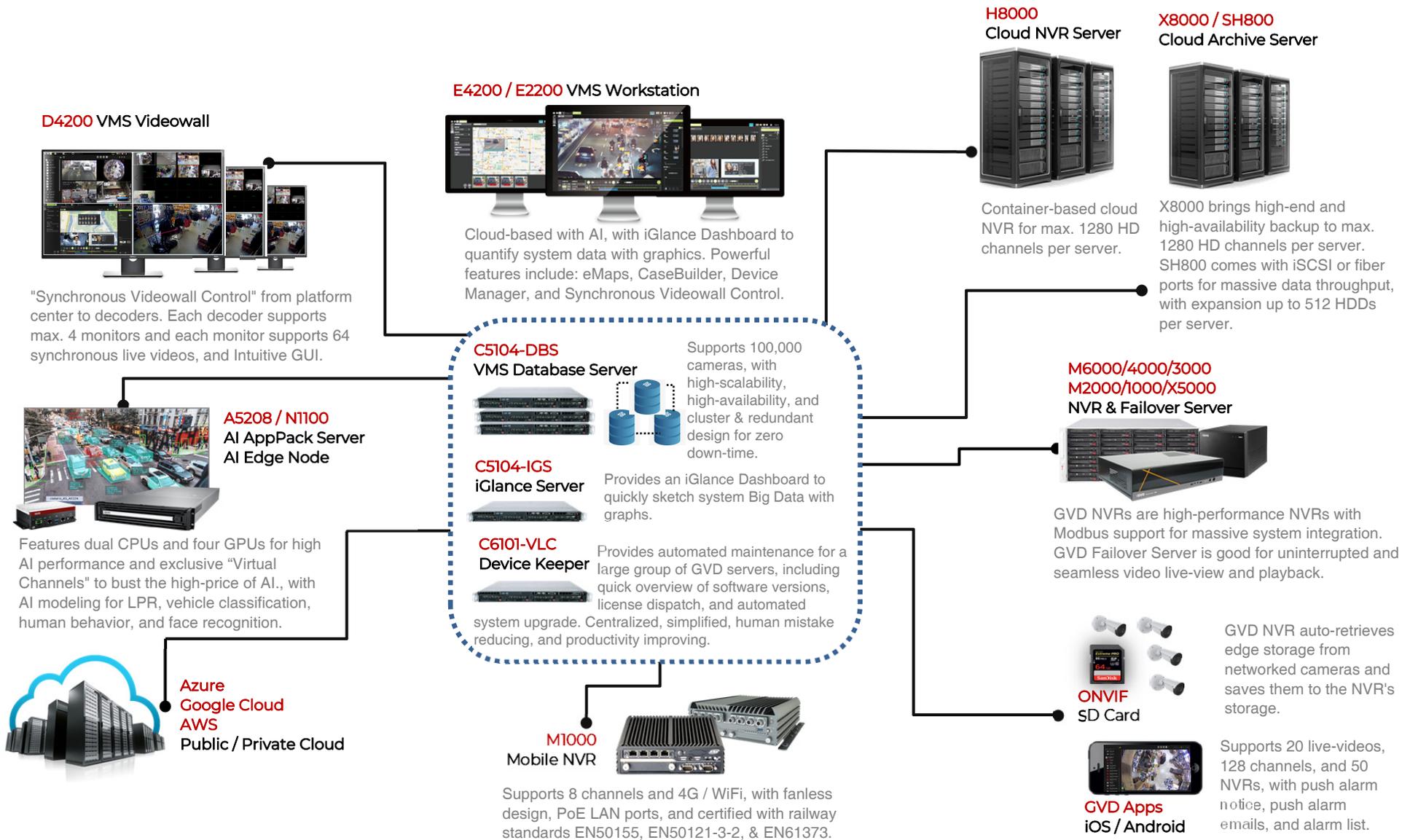
## Device Keeper



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



# Specifications

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