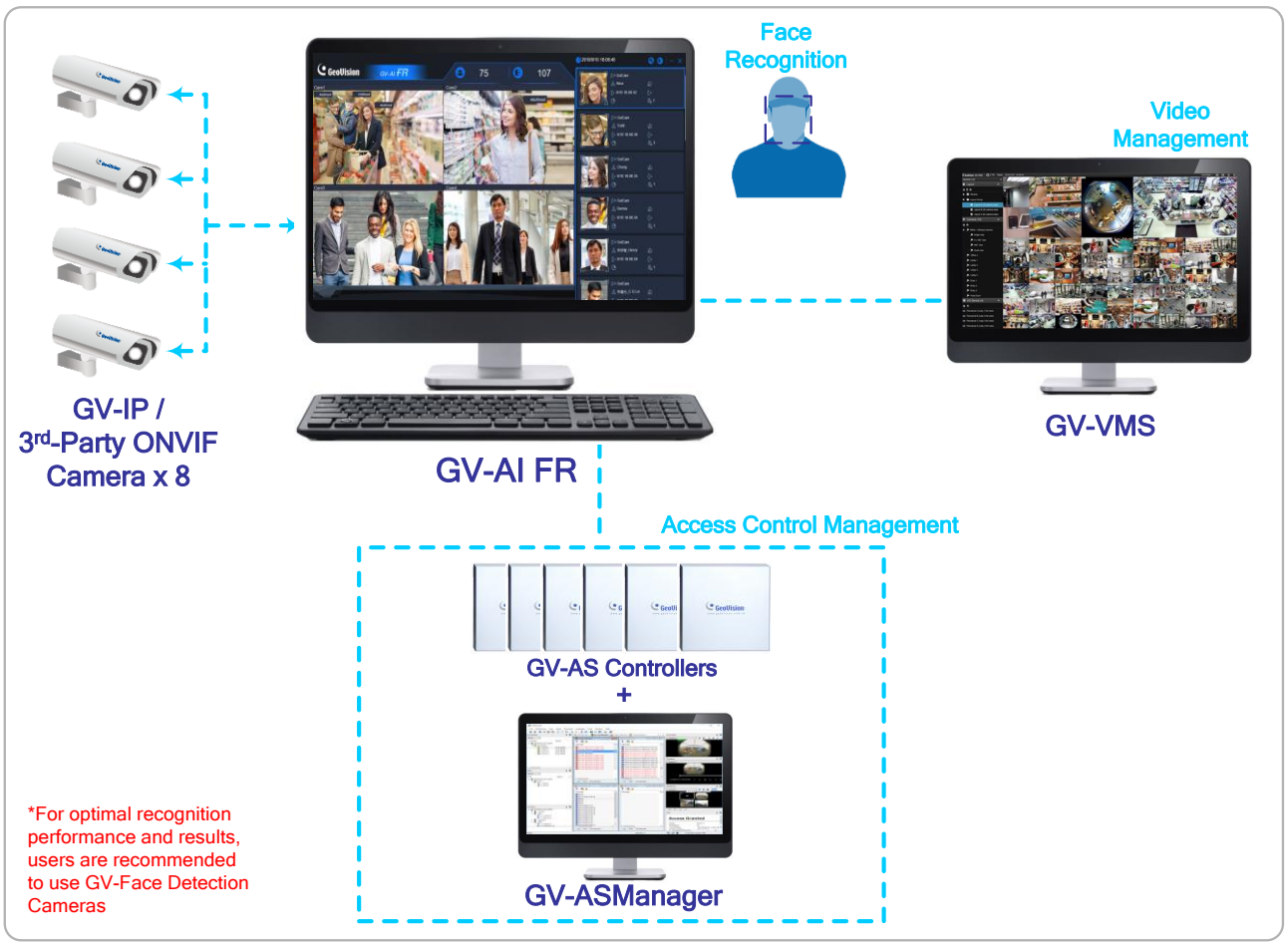
GV-AI FR



INTRODUCTION

GV-AI FR is video analytics software that can perform Face Recognition (FR) on up to 8 channels of IP cameras. It can be incorporated with the GV-VMS video management software and the GV-ASManager access control system for FR-triggered video recording and access management, respectively.



KEY FEATURES

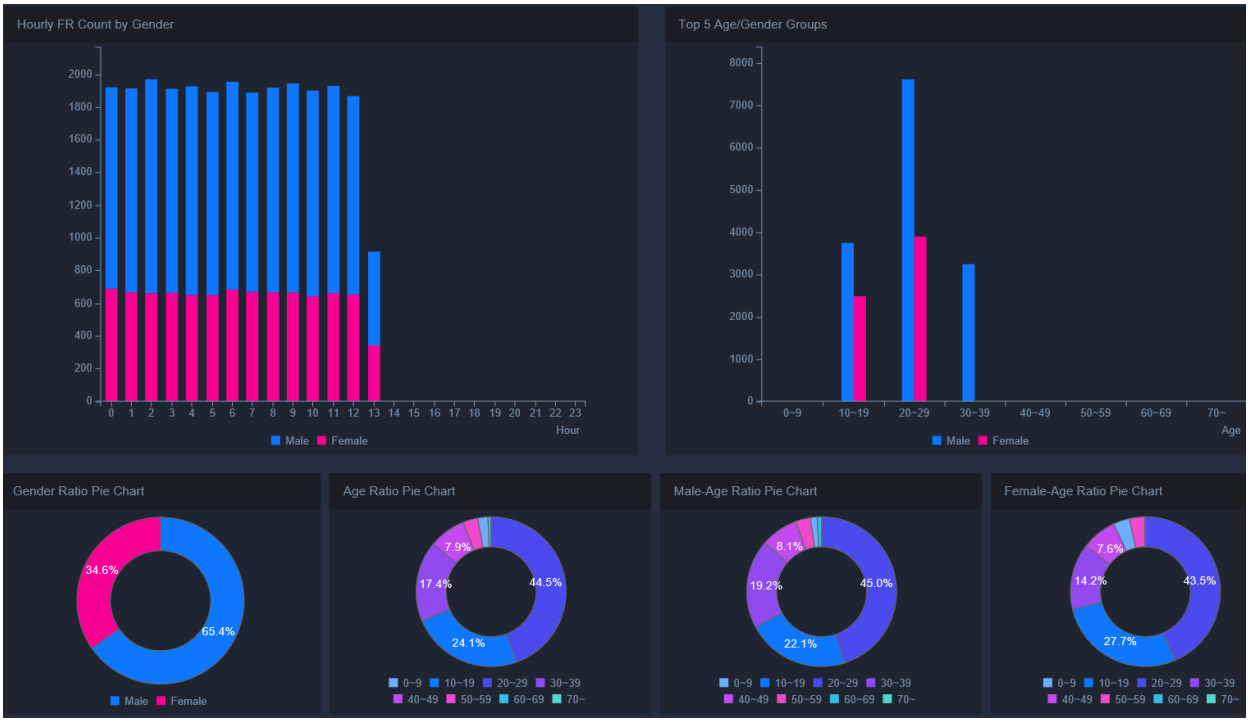
- Support for up to 8 channels of IP cameras
- Realtime face recognition and tracking
- Masked face recognition
- Average recognition speed of within 1 second per face when the recognition targets are moving toward the cameras
- Face Database managing up to 100,000 Face Profiles with 3 face images per profile
- Face profiling by age and gender
- Liveness detection for ensuring the persons recognized are not of inanimate objects, such as printed photos, during recognition
- Automatic compilation of statistical graphs for the number and distribution of ages and genders of the faces recognized entering and exiting the premises
- Exportable daily / weekly / monthly / yearly hourly face recognition count
- Query by face recognition events
- Integration of GV-VMS for video recording and playing back face recognition events
- Integration of GV-ASManager for access management by pairing access data to Face Profiles
- Master and Slave feature for interconnecting multiple GV-AI FRs with a centralized Face Database
- Support for connecting to 3rd-party controllers for access management via GV-FWC within the LAN or GV-COM V3 + GV-WTR by physical connection

Live Monitoring & Welcome

When a person enters the premises, a corresponding face recognition result, along with a predefined personalized image, can be displayed on the connected Welcome screen(s), playing an advertisement, for greeting and/or commercial purposes.

Dashboard & Average Hourly FR Count

The **Dashboard** and **Hourly FR Count** features of GV-AI FR respectively display the distribution of age and gender of FR events within a day and an average hourly FR count for a selected day, week, month or year.



License

GV-AI FR is a paid software that requires a GV-Dongle License, which is available in increments of 1 channel, from 1 – 8 channels.

Free License	N/A
Maximum License	8 Channels
Increment of License	1 Channel
Dongle Type	Internal / External

Note: GV-USB Dongle comes in internal and external dongles. Internal dongle is recommended for its Hardware Watchdog function, which automatically restarts the PC when Windows crashes or freezes.

Minimum System Requirements

Below are the minimum PC requirements for connecting and performing face recognition with up to 4 and 8 channels of IP cameras.

		1 – 4 Channels	5 – 8 Channels
OS	64-bit	Windows 10 / 11 / Server 2022 / Server 2025	
CPU		8th-Generation Intel® Core™ i7 / i9 or above	
Memory		8 GB (4 GB x 2) DDR4 RAM	16 GB (8 GB x 2) DDR4 RAM
Remote Access		Microsoft Internet Explorer 11 or later	

Note:

1. For face recognition, the utilization of the graphics processor of 8th-gen Intel Core i7 / i9 or above is required, which only works when a monitor is connected to its PC.
2. Only Intel Core processors are compatible with GV-AI FR; other brands of CPU do not work with GV-AI FR.
3. For remote access through a browser, Internet Explorer must be used, as some functions will be nonfunctional through non-IE browsers.
4. GV-AI FR does not support virtual machine installation.

SPECIFICATIONS

Video Input		Up to 8 channels
Video Codec		H.264, H.265
Video Resolution		Up to 12 Megapixels per channel
IP Camera Supported		GV-Face Detection Cameras (GV-BX2600-FD / 2700 / 2700-FD / 4700 / 4700-FD / 8700-FD, GV-MD8710-FD), IP cameras via ONVIF or RTSP, USB webcams
Networking		LAN, WAN, Internet
Video Analysis	Functions	Face Detection, Face Recognition, Age & Gender Detection, Liveness Detection
	Recognition Speed	Within 1 second per face when the recognition targets are moving toward the cameras
	No. of Face Profiles	100,000
	No. of Face Groups	Unlimited
	No. of GV-AI FR Interconnectable	11 (1 Master + 10 Slaves, sharing 1 Face Database managed by the Master)
Face Event Trigger		I/O Box Output, Serial Port Output, LINE Notify, Access Controller Trigger * Due to a policy change by LINE, LINE Notify in GV-AI-FR will be supported only until March 31, 2025. Starting from April 1, 2025, all LINE Notify features will become unavailable.
Software Integration		GV-VMS V18.1 or later (video surveillance), GV-ASManager V5.3.0 or later (access control)
Mobile App		GV-Face for Android/iOS mobile devices (face enrollment, viewing & searching events), GV-Welcome for Android TV boxes / mobile devices (for Welcome screen display)
Language		English

Note: All specifications are subject to change without notice.

OPTIONS

Optional Devices	Description
GV-COM V3	GV-COM V3 can add 1 RS-485 port to your computer through a USB connector.
GV-FWC	GV-FWC can integrate GV-Face Recognition Cameras and/or GV-AI FR into access control systems by sending access data paired with Face IDs to the connected controllers.
GV-IO Box (Ethernet) Series	GV-IO Box series (4E / 8E / 16E) provide 4 / 8 / 16 inputs and relay outputs and support Ethernet module, with 4E additionally supporting PoE, TCP/IP and RS-485 connection.
GV-WTR	GV-WTR is a converter designed for connecting to and converting Wiegand interface to RS-485 interface, and vice versa. It enables 3rd party readers to be connected to RS-485 GV-Controllers, as well as allow GV-FWC to be connected to 3rd-party controllers.