GV-VMS V17, V18, and V20 Comparison

	GV-VMS V17	GV-VMS V18	GV-VMS V20
Software Interface			
Max. Number of Channels	32 ch	64 ch	256 ch
Free License[1]	32 ch of GV-IP Devices	N/A (Fully paid software)	64 ch of GV-IP Devices
Live View UI	Fixed windows		Resizable windows
Live View and Playback on one UI	Not supported		O
Event List	Separate lists: event list + face list (face ID) shown separately		Integrated lists: AI event & face data combined in one list
Theme Color	Light (Default) / Black style		Light / Black (Default) style
Supported Language	22 languages		23 languages (Ukrainian added)
OS (64-bit)	Windows 8 / 8.1 / 10 / 11 / Server 2012 R2 / Server 2016 / Server 2019 / Server 2022	Windows 10 / 11 / Server 2016 / Server 2019 / Server 2022	
Supported Database (Event Log)	Microsoft Office Access, Microsoft SQL		
Webcam Server Support	O		
Supported Devices	• GV-IP devices • 3rd party IP cameras • ONVIF, PSIA, RTSP protocols		



Multi-Screen Support		O (through the Layout function)		
Layout		• 1 x 1 ~ 10 x 10 live view grids • Customizable layout • GV-IP Decoder Box for remote monitor display		• 1 x 1 ~ 16 x 16 live view grids • Customizable layout • GV-IP Decoder Box for remote monitor display
GPU Decoding	**Intel GPU**	O		
	External NVIDIA Graphics Card	O		
H.265 GPU Decoding		O		
H.265 Codec		O		
On-Demand (Dual Stream)		O		
Service Mode		O		
Supported Screen Resolution		1024 x 768 or above (4K supported)		
POS transaction display only (no live view) on any screen division		Not supported	O	
Motion Detection		O		
Smart Motion Search		Not supported	O	
Smart PVD Motion Search		Not supported		O
PVD Motion Detection		Not supported	O	O (requires AI License)
Video Analytics Events		Object Index, Privacy Mask, Defog, Stabilizer, Intruder, Counter, Crowd Detection, Advanced Unattended Object, Advanced Scene Change, Advanced Missing Object, Face Count, Text Overlay, GV-3D People Count (from GV-3D People Counter V2), Heat Map		Privacy Mask, Advanced Scene Change, Text Overlay, GV-3D People Count (from GV-3D People Counter V2)
AI Analytics Events with AI-Capable GV IP Cameras		Not supported	GV-3D People Count (from GV-3D People Counter V3), Intrusion, Cross Line, Leave Area, Enter Area, Object Count (from AI-capable GV-IP cameras), Loitering, Face Detection, Crowd Detection, Flame Detection, 3rd Party Events	GV-3D People Count (from GV-3D People Counter V3), Intrusion, Cross Line, Leave Area, Enter Area, Object Count (from AI-capable GV-IP cameras), Loitering, Face Detection, Crowd Detection, 3rd Party Events, Missing Object, Tampering Alarm, Abnormal Temperature Detection, Unattended Object, Abnormal Audio Detection, Video Metadata



Face Recognition		GV-VD8700 (camera)	GV-VD8700 (camera), GV-AI FR (SW)	GV-VD8700 (camera), GV-AI FR (SW), Built-in face recognition engine (requires AI License)
Face Search		Not supported	O	
Remote Motion Detection Setup		Not supported		O
Remote AI Event Setup		Not supported		O
E-Map		O (Camera View, I/O Alarm, Face Recognition)		
Log		Monitor, Login, System, Merge, Delete, Backup, I/O, Notification, Playback, CMS, POS, Counter	Monitor, Login, System, Merge, Delete, Backup, I/O, Notification, Playback, CMS, POS, Counter, AI Events	
AI Query		Not supported		O
Account Management		Up to 1,000 accounts		
I/O Device Control		O		
Notification	**E-Mail Alert**	O		
	I/O Alarm	O		
	Computer Alarm	O		
	SNMP Protocol	O		
PTZ Control		O (PTZ Control Panel, Keyboard, Joystick)		
Fisheye Support		O (Fisheye Dewarping, Auto Pan, Presets, Object Tracking)		
Smart Streaming		O		
Two-Way Audio		O		
SIP Server (Dial-Out only)		Not supported	O	
POS Solution		Max. 32 ch		
IP Speaker	**Input Trigger**	O		O
	Motion / PVD	Not supported		O
	AI Event	Not supported		O

Note:

1. For details on the licenses, see *License* in the *GV-VMS V17/V18 Datasheet* and *GV-VMS V20 Datasheet*.
2. All specifications are subject to change without notice.