



### Introduction: -

Glotec 128CH NVR as a rack server, comes with a powerful data storage capacity, 24 Hot-swap removable rack bays can store up to 288Terabytes recorded data and support Raid 5/6 and Hot spare capability. The operating system is stored on an SSD meaning system start-up is fast and can be safeguarded in the event of failure, the make data storage stability and management more convenient.

### Key Features: -

- Brilliant the newest H.265 High profile compression technology to save 50% the storage space and transmission bandwidth compare with H.264.
- S.M.A.R.T. function to predict HDD failure and to send the user a warning message.
- Glotec NVR integrate UPS system such as APC, Cyber Power, MGE, and YEC. etc. to provide continuous services 24/7 against unexpected power outages.
- Failed-over is a redundant NVR server. When one of NVR crashed, fail-over will automatically take over without warning.
- Glotec GL-NVR6232 provides dual Giga LAN ports to have a flexible network configuration as proxy function to connect different network segments.
- Multi-layers E-Map on live view monitoring as a quick navigation can indicate the physical location of NVR, DVR, Cameras, Alarm I/O, Access controller, Speaker.
- RAID offers Raid 0/1/5/6/10/50 modes with great performance for difference application, both in read and write operations. And it's also the idealist choice for redundancy and back-up.
- Support S/W & H/W Watchdog timer, it is an embedded timing device that automatically prompts corrective action upon system malfunction detection.
- Easily remove and change Hard disk without shutting down the NVR, also with rebuilt function.
- Embedded O.S. avoids system crash and virus problem.
- Simultaneous display and recording up to 128 nos. Megapixels IP cameras.
- Support 3 monitors synchronous Display, Playback and eMap Alarm notify
- 4/8/16/24 Hot-Swappable Hard Disks with Raid 0/1/5/6/10/50 support; maximum storage capacity up to 288 Terabytes.
- Work with Onvif and RTSP compliant IP video devices.
- Support ONVIF Profile S, ONVIF Profile T, ONVIF Profile G.
- Multi Intelligent Video Analysis lets your surveillance smarter and efficient.
- BIS, CE, FCC & RoHS.

### Reliability: -

- Embedded O.S. avoids system crash and virus problems.
- Built-in H/W and S/W Watchdog timer, the system auto recover when failed, also supports NVR health detection.
- Support S.M.A.R.T. function to predict HDD failure and send to the user a warning message via email or SMS.
- The system auto executes the last setting parameters when the power failed after it is restored.
- Support Fail-over auto backup solution by Mirror Server.

### Display: -

- Simultaneous display 128-Ch split video on a screen and 3 screens up to 4K resolution TV wall function.
- User define auto scan split display modes (1/4/8/9/10/12/13/16/25/32/36/64) and each mode rotation period.
- Assign the display on the specified Monitor, such as playback, eMap, live video, and duplicate video.
- Duplicate video for specified cameras and assign them to display on spot monitor.
- Display Text, time stamp, FPS/bps, resolution, hide video, event, video loss, eMap, ePTZ, HDD and record status message.
- Swap Live video display position by user define.

## Recording: -

- H.265+, H.265, H.264, MPEG 4 and M-JPEG video decoder, simultaneous 128-Ch video and 128-Ch audio recording.
- Pop up message when the SD card of IP camera is broken automatically.
- Auto downloads the SD card video files and merge it into the database.
- Alarm & IVA Trigger/ Motion Detection/ Smart/ Audio Detection/ Continuous/ Schedule/ one-touch recording modes.
- Pre (60sec)/post (999sec) motion recording and adjustable recording quality, bit rate and frame rate for each camera.
- 24 Hot-Swap HDDs; maximum storage capacity up to 240Terabytes and 8087 x 2 ports for extent 8 external HDDs storage.
- 2-Way audio function for audio recording/listing and brocading.
- Recording AVI file to playback Media Player directly.
- Hybrid recording mode can keep 24 hours recording besides save 75% HDD space.

## Playback & Backup: -

- Search playback by timeline, camera, event and schedule, as well as display the first image of the selected time.
- Simultaneous playback 16 video clips with forwarding/ backward, fast(1-60x)/ slow(1-1/32x)/ frame-by-frame playback, digital zoom, export bmp/jpeg/png/pdf format snapshot file.
- Export AVI files and play them with Windows Media Player directly without the converter process.
- Add bookmark for time merge from different video clips and allow editing an index on the beginning and end of video clips.
- Search the specific regions of clips that video is retrieved and show exactly when the object appeared/disappeared.
- Auto schedule/Manual back up onto storage devices (Such as JOBD, NAS, SAS, DVD+-RW, etc.)
- Provide Watermarks to prevent tampering when exporting the video files, and provide verification software for certification.

## Security: -

- Password Expiration Management.
- System Idle Protection.
- Multi privilege levels protection
- Record all operations on the view log files.
- Limited connection time period / user number / Bandwidth
- IP Address filter for remote access.

## Alarm Notifications: -

- Play warning sound, call out via voice modem, turn relay on, Send TV-out signals, Pop-up video, Flash e-Map icon, Send SMS/MMS/e-Mail, Upload clips to FTP server, Push alarm, enable 3rd party program, send event and live video to Central Management System and Broadcasting to camera site directly (Optional).
- The pop-up event message will disappear after the display time is exceeded setting value.
- Search event logs via by time, date, camera, location, and event types, click the logs to playback event video.
- Trigger alarms include video loss, HDD failed, alarm triggers, IVA\* trigger, Network failed, motion detection, face recognition\*, remote access, log in/out, UPS trigger, and access control
- Selectable Split /Full page video of the pop up video when cameras are triggered.
- Report Generator with txt and xls format.

## Intelligent Video Analytics\* (IVA): -

- IVA function including, Object/People Counting, Intrusion Alarm, Unattended and Missing Object Detection, Audio Detection Scene Change Detection, Loitering Detection, Video Enhance Quality, Panorama View\*

## eMap: -

- Hierarchy E-map structure supports JPG or BMP format up to 16 layers eMap.
- An e-map is a graphical overview of a site, indicating camera types, viewing direction and devices (such as sensors, replay, speaker, access control) locations.
- Indicate the device status, as well as display live video and remote playback video of the camera, remote control alarms I/O by click on the icon in eMap.

## Others: -

- Support iOS and Android App for Mobile phone remote access.
- Integrate multi-brands ONVIF and RTSP protocols IP cameras, as well as supports UPnP, IP broadcast, auto scan IP address and auto-configuration into the NVR system.
- Integrate 180° and 360° fisheye image correction function for live display and playback. 360° fisheye modes including: Panoramic modes including: 180° + 2 PTZ sprites, 180° + 3 PTZ sprites, Original image + 3PTZ sprites, 4 PTZ sprites. Integrated Face recognition camera with the Blacklist and Whitelist database. Auto record the location, time, snapshot on the view logs.
- Allow to build up the NVR as an NTP server for time synchronization with the IP cameras.
- Export/Import NVR configuration.

## Specifications: -

Model	GL-NVR6232	128Ch NVR   24 Bay HDD   Raid 0/1/5/6/10/50 Hot spare
<b>HARDWARE</b>		
Platform	Intel Core i7 Processor   16GB (2 x DDR4 8GB), Built in Embedded Windows O.S. on SSD.	
Storage	built-in 1 x 500GB 2.5SATA SSD(OS), 24 Hot-Swap Bays; up to 288TB; (24x12TB) capacity.	
RAID Level	Built in hardware Raid card, support RAID 0, 1, 5, 6, 10, 50 and Hot space modes	
Network	RJ-45, 10/100/1000Mbps x 2 auto negotiation	
Network Throughput	Upload: up to 500Mbps, Download: up to 500Mbps	
Video Output	2xDVI (1920 x 1080@60Hz), 2xHDMI, 2xDisplay port up to 4k (4096 x 2160) @ 60Hz resolution.	
Cooling Fan	8cm (3 1/8") fan x4; built in temperature controller to control fan speed	
I/O Port	USB x 4, Audio in/out (jack); 16 Alarm in & 7 Alarm out (Optional)	
Network NAS	Support NAS (SMB/CIFS), iSCSI	
Watchdog	Built in Hardware Watchdog and Software Watchdog timer	
Power Supply	1000W,100VAC-240VAC (47-63 Hz) input: Redundant power supply (Option)	
Dimensions	178(H) x483(W)x 660(L) mm	
Net Weight	32Kg (Without HDD)	
Chassis	4U Rackmount Chassis; Drawer Slides kit (Optional)	
Environment	Operation: Temperature 0°C ~ 50°C; Humidity 8% ~ 90% (N/An-condensing) Storage: Temperature -40°C ~ 70°C; Humidity 5% ~ 95% (N/An-condensing)	
ONVIF	ONVIF Profile S, ONVIF Profile T, ONVIF Profile G	
Certification	BIS, CE, FCC & RoHS	
<b>SYSTEM</b>		
O.S.	Embedded Windows O.S. Redundancy Raid1 O.S. (Option)	
Video Support	IP camera, IP camera over HTTPS, Fisheye camera, IP speed dome, DVR/NVR,DHD recorder, live streaming, P2P live streaming, ONVIF camera, manual RTSP, screen capture, USB video input, picture capture	
Health Monitoring	Online monitor the NVR system health, event alert, network connection, and device status.	
S.M.A.R.T	Predict HDD failure and send the user a warning message with 2 levels via email, SMS, phone call and execute the program.	
IP Camera*	Integrate AI camera function Pre-build 128Ch licenses	
Display	Dual streaming support, 128 Ch. display simultaneously	
Video Input	Up to 128 channels 1080P/ 3M/ 4M/ 5M/ 8M/ 12M	
Recording mode	Alarm, motion, schedule, and manual	
Recording Speed	More than 1024M Bits/sec.	
Recording, Playback resolution (Frame rate)	Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps,3MP@30fps, 1080p@120fps, and ROI recording supported	
Alarm management	Play audio file, send email notification, PTZ preset, digital output triggering, full screen, post alarm record, pre-alarm cord, advanced alarm digital output, send customizable. HTTP POST CGI URL to third party device, alarm ACK, alarm snapshot, text overlay, App cloud push notification, NCC TV wall ACK, NCC eMap Centre Alarm, NCC play sound, NCC global alarm setting, all these action can be automatic or scheduled	
Alarm recording	ALPR, IVS, Face detection, remote audio trigger from IPC and NVR integrate these function.	
Audio recording	Yes	
Failover	Supported	
Video archiving	Yes	
Resolution	Support CIF~20Megapixel video stream	
Decoder	Audio: H.265, H.264, MPEG4, M-JPEG Codec   Audio: Two-Way Audio, G.711, G.726, AAC	
eMap	Supported Each map can see 64 live video at the same time	
eMap Alarm Snapshot	Motion detection / external alarm / audio detection alarm / face detection From NVR	
Playback search	Date, time, Smart search, Alarm search, POS, ANPR search, Face search, Face trace search (in FR server only), Tagging Search	
Playback speed	Fast Rewind: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X   Fast Forward: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X	
Central Management	Centralized monitoring channels from multiple server	
Protocols	TCP/IP,UDP, HTTP, HTTPs, SMTP,SNMPv3, DNS, DHCP, NTP, ARP, ICMP, FTP, FTPs, DDNS, RTP (RTCP, RTSP), IGMPv3, UPnP, CIFS, NFS, IEC802.1x, RTSP.	
Streaming Type	Unicasting, Multicasting	
Update	NVR program upgradable	
Language	English, Spanish, French, Dutch, Italian, Japanese.	