GV-Storage System V2 - 4U, 24-Bay

Introduction

Large Storage Capacity

GV-Storage System V2, the IP SAN storage system, is a high-performance RAID storage system based on the latest iSCSI technology for users looking for a cost-effective and shared storage solution over the network. Compared to the desktop PC and consumer NAS system which only allow for 2 ~ 8 hard disks for data storage, GV-Storage System V2 is equipped with 24 hard disk drives, storage capacity up to 144 TB (with 6 TB HDD). GV-Storage System V2 can connect to 7 units of 24-bay GV-Expansion Systems, JBOD systems, increasing storage up to 192 hard disks with 1,152 TB.
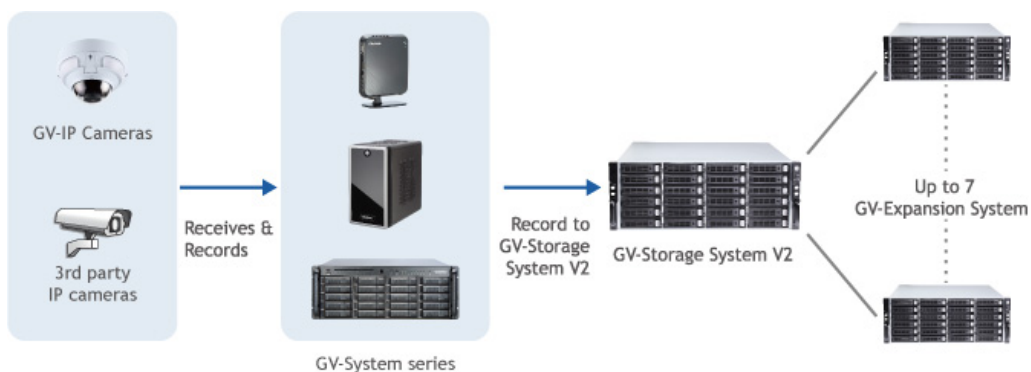
High Availability

GV-Storage System V2 has fully redundant components including power supplies, fan modules, and SAS JBOD expansion ports linked to GV-Expansion System. All of these components are hot-swappable to create a high availability platform and provide non-stop services.

Compatibility with GeoVision Surveillance Systems

GV-Storage System V2 is compatible with GeoVision Surveillance Systems and Software. With its large storage capacity and high availability, GV-Storage System V2 is an ideal choice for safe and long-term data storage.

Compatible GeoVision Products

- GV-Hot Swap System V5 Series
- GV-NVR System Lite V2 Series
- GV-Tower / DVR / NVR / VMS System
- GV-DVR / NVR / VMS / Recording Server / Backup Center / Redundant Server / Failover Server

Features

- 4U 24-bay hot-swap SATA II / III HDD for data storage
- Storage capacity up to 144 TB (with 6 TB HDD)
- Six 1 GbE iSCSI data ports
- RAID levels 0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60, JBOD, and N-way mirror
- Fully redundant & hot pluggable designs: power supplies and fans
- Hardware iSCSI offload engine
- Background logical drive rebuilding
- Automatic rebuilding onto hot spare (Local & Global Hot Spare)
- Web management interface enabled on a specific Ethernet interface
- Multi-path and load-balancing Features
- Storage expendable up to 1152 TB with 192 hard drives by connecting up to 7 GV-Expansion Systems (4U, 24-bay)

Specifications

System	
CPU	Intel Dual Core processor
RAM	4 GB DDR3 ECC
Management Port	RJ-45, 10 / 100 / 1000 Mbps
iSCSI Port	1 GbE iSCSI ports x 6
UPS Port	UPS port x 1 (phone jack to DB9 male)
SAS Port	6 Gbps SAS port x 1
No. of Hot Swap Drive Bays	24
HDD Type	SATA II / III
Power	Output: 550 W x 2 Input: 100 ~ 230V, 50 ~ 60 Hz
Fan	Hot pluggable and redundant fan x 3
Physical	
LED Indicator	Yes (Power, HDD, Status, Access)
Color	Black
Form Factor	4U 19 inch rackmount chassis
Dimensions (W x H x D)	481 x 176 x 550 mm / 19 x 7 x 22 in
Weight	34 kg / 75 lb (Diskless)
Regulatory	CE / FCC / BSMI / C-Tick / LVD
Environment	
Operating Temperature	0 ~ 40°C / 32 ~ 104 °F
Humidity	5 ~ 95% RH (non-condensing)
Management	
Management Method	Web UI
RAID Mode	RAID 0 / 1 / 3 / 5 / 6 / 0+1 / 10 / 30 / 50 / 60 and JBOD, and N-way mirror
Automatic RAID Creation	Yes
RAID Migration	Yes
RAID Expansion	Yes
Alert	Email, SNMP, Windows Messenger, System Buzzer
Security	CHAP authentication
HDD Health Detection	S.M.A.R.T. diagnostics
Language	English / French / German / Japanese / Russian / Simplified Chinese

Note: All specifications are subject to change without notice.

Maximum Recorded Channels:

The maximum number of channels supported by GV-Storage System V2 varies with the resolution, as listed below. It's highly suggested to keep the total bitrates under 2700 Mbps for better recording performance.

Video Streaming		Complex Scenes		Normal Scenes	
Resolution	Frame rate	Bitrate	Record Channels	Bitrate	Record Channels
1.3 MP	30 fps	5 Mbps	534 ch	1.73 Mbps	1560 ch
2 MP	30 fps	7 Mbps	385 ch	3.86 Mbps	699 ch
3 MP	20 fps	10.48 Mbps	257 ch	3.38 Mbps	798 ch
4 MP	15 fps	11.65 Mbps	231 ch	8.93 Mbps	302 ch
5 MP	10 fps	16.48 Mbps	163 ch	3.16 Mbps	854 ch

Overview

Front Panel

Back Panel

Packaging

- GV-Storage System V2
- HDD Tray x 24
- Power Cord x 2
- RS-232 Cable (For UPS, phone jack to DB9 male).
- Rail Kit
- Keys, Screws for Drives and Rail Kit (packet)
- Quick Start Guide
- Software Disk