

# Geoffrey

## Video Storage Devices

The Geoffrey Digital Video Storage Devices are state-of-the-art video storage systems with a minimum storage capability of high resolution color video from 4, 8 or 16 cameras at 1 frame per second (fps) for a minimum period of 31 days using video motion detection\*. These versatile units are scalable to provide either increased resolution, frame capture rates or archive durations.



### FEATURES:

- Eliminates the need for video multiplexers and video tape recorders
- Reduces the need for human intervention and, therefore, possible errors in maintaining stored video records (no video tape changes)
- Provides Searchable Indexed Storage for *Instant* Access to Stored Video Based on a Variety of Criteria (Day, Time, Camera, Alarm etc.)
- Eliminates start and stop searching (when using VHS recording) ; GVSD units record and playback simultaneously
- Integrated video motion detection (VMD) affords most efficient use of disk space by recording video only during periods of activity
- Fully integrates with Geoffrey Access Control Version 5 allowing 100% date/time synchronization - GVSD captures video associated with Geoffrey transactions and events
- Playback is jitter-free and stable unlike time lapse VHS
- Authorized personnel can easily distribute video clips via email

### SOFTWARE SPECIFICATIONS:

- Built-in motion detection
- Storage Capabilities: *Continuous VMD* (Video Motion Detection) - continuously records video; *Event Recording*- record 30 seconds pre-event, the event, and 30 seconds of post-event when used in conjunction with GVTR
- Individually variable recording frame rate per camera
- Individually variable video compression level per camera
- Multiple video selection save modes: single frame JPEG<sup>▲</sup>, multiple frame JPEG<sup>▲</sup>, AVI video<sup>▲</sup>, Encrypted VFR<sup>†</sup>
- Playback and search capability over network via TCP/IP
- Variable search methods including by camera, date and time, day of week, server and directories, and type of storage
- Multiple hard drive and directory storing
- Variable maximum hard drive usage per hard drive or directory
- During playback, scroll through selections forward or reverse to find the desired video more efficiently and quickly
- FIFO (first in, first out) capable

<sup>▲</sup> Playback on any standard windows media viewer  
<sup>†</sup> Requires proprietary decoder for playback

See reverse side for hardware specifications

## Geoffrey Video Storage Device Hardware Specifications

	CASE I		CASE II	
	GVSD-4	GVSD-8	GVSD-16 Standard	GVSD-16 Deluxe
<b>Case</b>	Stand Alone Enclosure	4U Rack Mounted Server Case; 400W Power Supply	4U Rack Mounted Server Case; 400W Power Supply	4U Rack Mounted Server Case; 400W Power Supply
<b>CPU</b>	Single 866 MHz Pentium III	Dual 1 GHz Pentium III	Dual 1 GHz Pentium III	Dual 1 GHz Pentium III
<b>Memory</b>	256MB SDRAM	256MB DDR	512MB DDR	512MB DDR
<b>Hard Drive</b>	One 120 GB	Two drives - 120 GB each	One 20 GB for O/S plus Four Individual 80GB drives	One 20GB drive for O/S; RAID Level 5 Disk Array comprised of six (6) individual, 160MB, <b>hot-swappable</b> hard disks using 6-channel ultra ata/100 RAID 5 Controller
<b>Floppy</b>	1.44 MB	1.44 MB	1.44 MB	1.44 MB
<b>CDR-W</b>	Internal IDE 24 x 10 x 40	Internal IDE 24 x 10 x 40	Internal IDE 24 x 10 x 40	Internal IDE 24 x 10 x 40
<b>CDR-W Software</b>	Included	Included	Included	Included
<b>Video Card</b>	16MB AGP4X	16MB AGP4X	16MB AGP4X	16MB AGP4X
<b>Video Input Options</b>	Four (4) BNC Video Inputs	Eight (8) BNC Video Inputs	Sixteen (16) BNC Video Inputs	Sixteen (16) BNC Video Inputs
<b>Network Card</b>	Integrated Ethernet	Integrated Ethernet	Integrated Ethernet	Integrated Ethernet
<b>Operating System</b>	Windows 2000 Pro	Windows 2000 Pro	Windows 2000 Pro	Windows 2000 Pro
<b>Storage Capabilities*</b>	4 cameras at 1 fps for 31 days	8 cameras at 1 fps for 31 days	16 cameras at 1 fps for 31 days	16 cameras at 1 fps for 2.5 months

\*Hard disk calculations based on average 7k frame size generated using standard NTSC color bar frame generator continuously recording 24 hours a day, 7 days a week (i.e. no use of Video Motion Detection).

\*Testing indicates a typical camera in high activity area records only 45% of the time when using Video Motion Detection. (This statistic excludes all pan/tilt & zoom cameras). By using VMD, the number of days of storage can be extended to 48 days.

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