

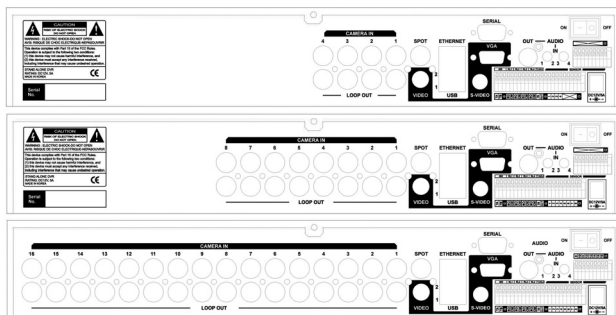
SAGA "ST" Series

4, 8 and 16 Channel Digital Video Recorders



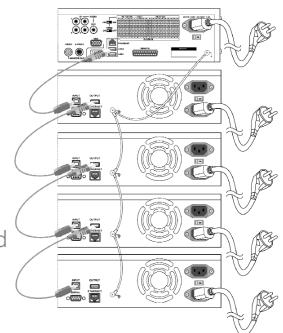
FEATURES

- The Industry's only MPEG4 Compression with Non-Conditional Refresh
- 120 IPS Recording and Real-Time 480 IPS Display
- MPEG-4 Compression
- Up to 42 HDD support: 2 Terabyte Internal Storage (2x - 1TB HDD) and Up to 40 Terabytes External Storage (4x - 10 HDD Expansion bay units)
- 4 Channel audio
- 2-Way communication over the internet via Remote Client Software
- Multi-site Monitoring for a maximum of 16 Independent DVRs and a maximum of 256 Cameras
- DMCC Multi-Site Software enables control of infinite IP addresses and viewing of up to 64 Separate IP Addresses from a Single Remote Site.
- Built-in DVD/RW drive
- Accepts 4 External (VT-XHD10) HDD Bays for an Additional 40 Hard Drives
- Block Search Function Retrieves Lost Files, Even from Damaged Hard Drives
- Embedded Linux OS
- Dynamic IP support (DDNS)
- Maximum File Size of 6K (CIF), 11K (Half D1), 20K (D1)
- Continuous, Motion, Alarm, V-Loss, Scheduled recording modes
- Numerous search modes: Calendar, Search & Copy, Time, Event, Block, File, Bookmark & Log
- Notification e-mail to up to 10 accounts on Motion, Alarm, V-Loss, HDD Fail
- Pentaplex Plus: Record, Playback, Network Transmission, Mirror, Backup and Live Viewing
- Backup to External HDD, CD-R, DVD-RW, DVD+RW, USB Memory Stick
- Control up to 16 DVRs via Keyboard or IR Remote control



VT-XHD10U SAGA Series USB 2.0 HDD Expansion Bay

- Capable of supporting up to 10 IDE hard drives
- Hard drives can be setup in a Mirrored Array for redundancy, Striped into a massive disk array up to a 30TB, or in any combination of each
- Up to 4 Bays can be connected via USB 2.0



SAGA "ST" Series

4, 8 and 16 Channel Digital Video Recorders

Detailed Specifications	VT-ST420	VT-ST820	VT-ST1620
Video Standard	NTSC & PAL Standards, automatic configuration		
Video Inputs	4	8	16
Input Level	1.0 Vp-p \pm 10% Composite, 75 Ohm Balanced.		
Loop Through Output	4 Ch. BNC w/ Automatic Signal Boost	8 Ch. BNC w/ Automatic Signal Boost	16 Ch. BNC w/ Automatic Signal Boost
Main Video Output	1.0 Vp-p Composite, 75 Ohm Balanced		
Spot Video Output	1.0 Vp-p Composite, 75 Ohm Balanced		
S-Video Output	4-pins mini DIN		
VGA Output	15 pins female DSUB		
Channel Title	8 Alphanumeric Characters / Bitmap Picture or Characters		
Live Playback Display	1 & 4 w/ Customizable 4 Channel View Mode	1, 4, 6, 7, 9 w/ Customizable 4, 6, 7 and 9 Channel View Modes	1, 4, 6, 7, 9, 10, 13, 16 w/ Customizable 4, 6, 7, 9, 10 and 13 Channel View Modes
Spot Display	1 Channel View		
Live Display Resolution	NTSC: D1 (720 X 480) / PAL: D1 (720 X 576)		
Automatic Sequence Interval	1 ~ 99 seconds		
Codec (Audio)	ADPCM		
Audio In	4 Channels		
Audio Out	1 Channel		
Input Level	0.5 ~ 1.4 Vp-p @ 20KOhm		
Communication	2-way Audio Communication via Remote Client Software		
Codec (Video)	MPEG4		
Recording Resolution	CIF (360 X 240), Half-D1 (720 X 240), D1 (720 X 480)		
Recording Speed	Max 120 pps @ CIF, Max 60 pps @ HD1, Max 30 pps @ D1		
Recording Quality	Low / Fine / Superfine		
Average Maximum File Size	CIF: 6K Half D1: 11K D1: 20K		
Recording Modes	Continuous, Motion, Alarm, V-Loss, Schedule		
Search Modes	Calendar, Search & Copy, Time, Event, Block, File, Bookmark & Log		
Playback Modes	Forward/Reverse, Pause, Picture by Picture, Normal, Slow up to 128th/sec. / Fast up to 128X		
Motion Recording	Selectable Grids & Multi-Level Detection per Channel		
Alarm Recording	4 Channel Terminal Blocks, Normally Open or Normally Closed Circuit		
Alarm Output	4 Programmable Relay Out, Terminal Block		
Pre / Post Event Buffer	5 Seconds Pre-Event / Up to 60 Seconds Post-Event Buffer		
Network	LAN, WAN, Internet		
DDNS/Dynamic IP support	Dynamic IP address and DDNS lookup		
Monitoring Environment	Dedicated Central Monitoring System		
Multisite Monitoring	Maximum of 16 Independent DVRs, Maximum of 256 Cameras		
Audio Transmission	2-Way Audio Communication		
Internal Storage	2 Hard Drives, 2.0 Terabyte Maximum		
External Storage	40 Hard Drives, 40 Terabytes Maximum		
HDD Speed	Supports both 5400 RPM and 7200 RPM		
Direct Memory Access	45Mhz DMA		
Hard Drive Type	SATA Compatible		
Seek Time	Supports Faster than 9.0ms		
Expansion Bay Interface	USB 2.0		
Data Redundancy	Event Backup / Individual Hard Drive Mirroring		
Security	2 Levels of Passwords monitor Menu Access, Record / Playback & Network		
Watchdog	2 Independent Watchdog System (Hardware & Software)		
System Log	Power Failure Check		
Recovery	Auto-Reboot by watchdog resumes previous operating mode & Database Recovery		
Event Notification	Notification e-mail to up to 10 accounts on Motion, Alarm, V-Loss, HDD Fail		
Log File List	20,000 Logs		
Operating System	Modified Embedded Linux		
Simultaneous Functions	Pentaplex Plus: Record, Playback, Network Transmission, Mirror, Backup, and View		
Control Devices	Front buttons, IR Remote Controller, Mouse, Remote Client Software		
Multiple DVR Support	Control up to 16 DVRs via Keyboard Controller or IR Remote Controller		
File Compatibility	Compatible with Windows based operating systems		
USB Interface	3 USB 2.0 slots, 1 in Front, 2 in Rear		
Backup	External HDD, CD-R, DVD-RW, DVD+RW, USB Memory Stick		
Serial Interface	RS-232C for External Control & Debugging		
Terminal Block	RS-422/485 Interface for PTZ control		
Ethernet	RJ45 @ 10/100Mbps		
Power Source	12VDC 5Amp		
Power Consumption	Approximately 50 Watts w/ 1 Hard Drive		
Operating Temperature	32° ~ 104° Fahrenheit		
Storage Temperature	12° ~ 140° Fahrenheit		
Humidity	30% ~ 90% Non-Condensing		
Dimensions (W x H x D)	16 5/8" x 2 11/16" x 16 3/16"		
Weight	11lbs. (No HDD)		