

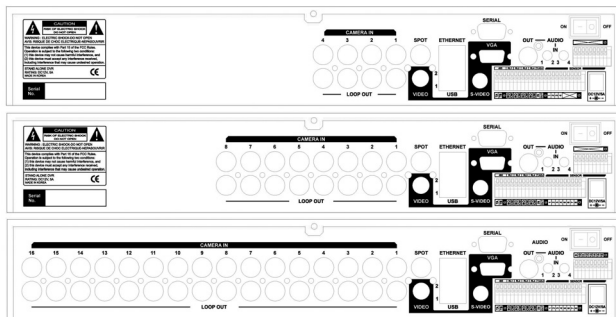
# SAGA "ST" Series

4, 8 and 16 Channel Digital Video Recorders



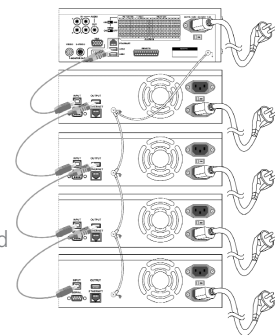
## FEATURES

- 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



(888) VITEK-70 | [WWW.VITEKCCTV.COM](http://WWW.VITEKCCTV.COM)  
28492 Constellation Road Valencia, CA 91355

# 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 ± 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)   |  |  |



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