

# MPEG-4 Pentaplex Standalone DVR ST-1600/800/400



*"Superb Image Quality"*  
*"Excellent Performance & Stability"*

## Special Functions

**CAMEO Live**

**Cameo Live / Playback Function**

Live Monitoring and Playback can be performed on same screen.

**e-map**

**e-Map Function**

Locating any cameras to any spots on a map in .bit map format by drag & drop / Convenient hot key menu supporting Event Pop-up, Digital Zoom, Video Save and Print.

**FRONT USB**

**Front USB Ports and Built-in CD-RW (DVD-RW - option)**

Connecting various External devices / Mouse, Memory Stick or External USB HDD.

**1500 GB**

**Mass Storage System up to 1.5TB (3 internal HDDs)**

Up to 1.5TB of Internal Storage while using CD-RW or DVD-RW as a backup device.

## Major Features

- Multi-tasking Operation (Pentaplex) - Simultaneous Live / Record / Playback / Network / Backup
- Enhanced MPEG-4 Compression (Average file size: 1~2.5kb)
- Embedded Linux Operating System • Built-in Multiplexer
- Up to 240 fps of recording Rate
- Multiple Simultaneous Video Outputs: 1 Main Monitor, 1 VGA Monitor, 3 Spot Monitors
- User Friendly Graphic menu and Pop-up menu
- Multiple Search Modes and Smart Search Function
- Hidden / Covert Camera Function
- RS-422/485 for Speed dome and Keyboard controller
- Support Various PTZ Protocols
- HDD Mirroring between Internal HDD and External HDD
- Remote Configuration / Software Upgrade
- Mini Player: Auto Installation into CD or DVD during backup
- Built-in Backup Device: CD-RW or DVD-RW
- External Backup Device Support(USB 2.0): Memory Stick, External HDD
- Various Interface: Mouse, IR remote Controller, Keyboard Controller •
- Multi-site/Enterprise Level Client Software with e-Map and 64ch Monitoring / Web Browser (Internet Explorer 6.0)
- Static and Dynamic IP support / Dynamic DNS Service for Easy Remote Connection
- Automatic E-mail Notification • Backup files into AVI & JPEG Formats



### GUI (Graphic User Interface)

- User Friendly Graphic Menu
- Convenient Pop-up Menu
- USB Mouse Control



### Live Viewer / Search Viewer

- 64ch simultaneous monitoring and recording
- Cameo Live or Playback per channel
- Timeline Based Search
- Remote Alarm In / Out control
- Remote PTZ control Favorites function



### SMS (Server Management Software)

- Remote Event Monitoring • Event Log Management
- Manages Unlimited number of DVRs
- E-Map based Monitoring • Remote Server Configuration Setup
- Remote Server Upgrade (Direct / Event / Schedule / CD Burning)
- Remote Backup and CD Burning
- Extensive Software Development Kit (SDK)



### Web Viewer

- Internet Explorer-based Viewer
- Remote Alarm In/Out Control
- Remote PTZ control
- Digital Zoom
- Live Image Print Saving & Printing

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## Specifications

| MODEL                        |            | ST-1600   | ST-800                     | ST-400  |
|------------------------------|------------|---|----------------------------|---|
| Video Signal                 |            | Support NTSC & PAL Standards (Auto Selection)   |                            |   |
| Operating System             |            | Embedded Linux  |                            |   |
| Pentaplex Function           |            | Simultaneous Live / Record / Playback / Network / Backup  |                            |   |
| Video                        | Input      | 16  | 8                          | 4   |
|                              | Output     | 1 Composite (BNC), 1 VGA  |                            |   |
|                              | Loop Out   | 3 BNC (Spot)  | 1 BNC (Spot)               |   |
| Display                      | Speed      | NTSC: 480fps / PAL: 400fps  | NTSC: 240fps / PAL: 200fps | NTSC: 120fps / PAL: 100fps  |
|                              | Screen     | 1/4/7/9/10/13/16  | 1/4/7/8                    | 1/4   |
| Video Compression            |            | Enhanced MPEG-4   |                            |   |
| Recording                    | Speed      | NTSC: CIF(240fps), HVGA(120fps), VGA(60fps)<br>PAL: CIF(200fps), HVGA(100fps), VGA(50fps)         |                            | NTSC: CIF(120fps), HVGA(60fps), VGA(30)<br>PAL: CIF(100fps), HVGA(50fps), VGA(25) |
|                              | Resolution | NTSC: CIF(360x240), HVGA(720x240), VGA(720x480)<br>PAL: CIF(360x288), HVGA(720x288), VGA(720x576) |                            |   |
| Serial Interface             |            | RS-485, RS-232C (PTZ, Keyboard, POS)  |                            |   |
| System Control               |            | PC Mouse, Key Buttons, IR Remote Controller, Keyboard Controller, Client PC                       |                            |   |
| Alarm                        | In / Out   | 16 / 4  | 8 / 1                      | 4 / 1   |
| Audio                        | In / Out   | 4 / 1   |                            |   |
| Display Settings             |            | Brightness, Contrast, Color Adjustments, Hidden/Covert Per Channel                                |                            |   |
| Camera Title                 |            | 13 Characters per Channel   |                            |   |
| Recording Modes              |            | Continuous, Schedule, Alarm, Motion, Overwrite  |                            |   |
| Recording Adjustments        |            | 4 Levels of Quality / Recording Frame Rate Adjustment Per Channel                                 |                            |   |
| Motion Detection Per Channel |            | 294 Selectable Grids / 5 Sensitivity Levels   |                            |   |
| Search Modes                 |            | Time & Date, Camera, Motion, Alarm, Video Loss  |                            |   |
| Playback Modes               |            | Forward & Reverse: Pause, Field by Field, Normal Speed, 2x, 4x, 8x, 16x, Panorama, Motion         |                            |   |
| Power Failure Recovery       |            | Auto Reboot while Maintaining Previous Status   |                            |   |
| Alarm Notification           |            | Automatic E-mail  |                            |   |
| System Utility               |            | 3-Level Password  |                            |   |
| Internal Backup Device       |            | CD-RW or DVD-RW   |                            |   |
| External Backup Device       |            | USB2.0: Memory Stick, External HDD  |                            |   |
| Mini-player for Backup       |            | Installing dedicated software into PC is not required to playback files from CD or DVD            |                            |   |
| Communication Port           |            | USB2.0, RS-232C, RS-42/485, Ethernet  |                            |   |
| Storage Capacity             |            | Up to 1.5TB: 3 Internal   |                            |   |
| Network                      |            | LAN, WAN, Internet, PSTN  |                            |   |
| External Modem Support       |            | RS232C  |                            |   |
| Remote Client Software       |            | Multi-site / Enterprise Level Client Software or Web Browser(IE 6.0)                              |                            |   |
| Dimensions                   |            | 17.3(W) x 17(D) x 3.1(H) : 2U Rack Mount Kit (inches)   |                            |   |
| Weight                       |            | 15.4Lb  |                            |   |
| Power                        |            | 60W, 90~264 VAC (47Hz~63Hz)   |                            |   |
| Operating Temperature        |            | 32 ~ 104°F  |                            |   |

\* Specifications are subject to change without any prior notice.

## System Configuration

