SVR-116+ Network Video Recorder -
Reliable Network Video Recorder with Extended Storage Capacity and Safety

- **Manage up to 16 Network Cameras**
- **Compatible with 30 Brands Cameras**
- **High Quality Live/Playback Video**
- **Export Playback Videos to AVI**
- **Web-based GoogleMap Event Alert**

256CH CMS FREE Bundled!!

- **Digital PTZ on Live and Playback Videos**
- **Built-in DI/DO for Event Management**
- **Support E-SATA External Storage**
- **RAID 0, RAID 1, JBOD support**
- **Max. Storage Capacity of 12TB**

- **Two-way Audio**
- **Support External UPS**
- **SEEnergy Smart Camera Search**
- **Mobile Devices Remote Monitoring**
- **Pure Web Based Administration**

The SEEnergy SVR-116+ is designed for use within a surveillance system, and performs recordings and playbacks pictures from network cameras in the system. It is designed for small-to-medium scale applications such as retail store and the system is expanable for multi-sites management with the bundled 256CH CMS software. Up to 16 cameras can be connected via a network and it is possible to record their camera pictures. It is possible to perform the settings or operate the NVR using a web browser installed on a PC connected to a network and live videos can be viewed on major mobile devices through its web browser. Recorded video can be played back from remote site by a PC. With the external E-SATA interface, the storage capacity can be extended to a whopping 12TB. The NVR is also capable of RAID 0 and RAID 1 which provides file redundancy. Up to 4 PCs (web browsers) can access this unit concurrently and it is possible to perform the settings and operate this unit. The NVR is compatible with most major brand cameras and its ability to automatically search and find the available cameras on the network can greatly reduce the user effort when expanding the system.

SEEnergy Corp.

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Taipei 110, Taiwan, R.O.C.
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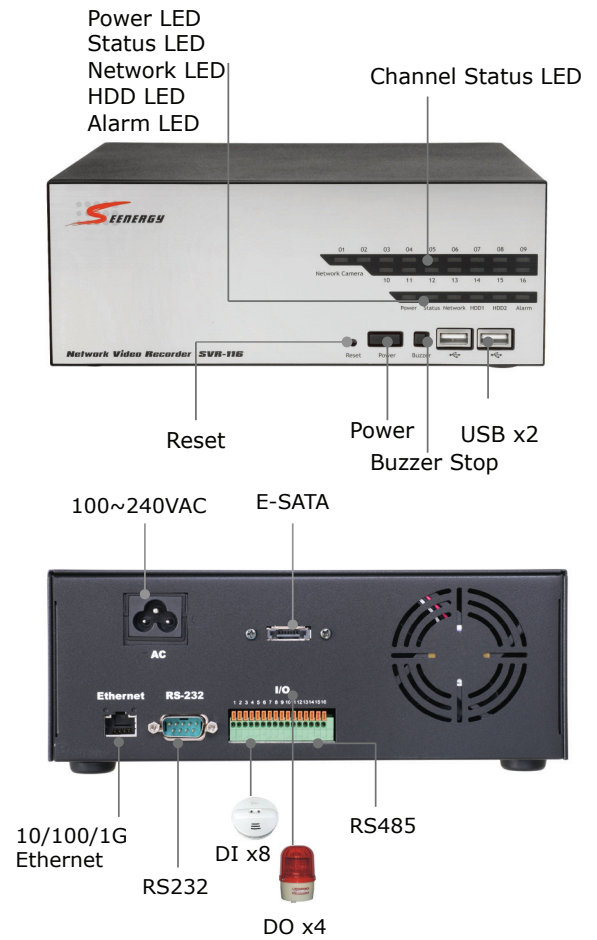E-mail: sales@seenergy.com.tw
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EN/D100/11172010/001

Preliminary

Hardware Specifications

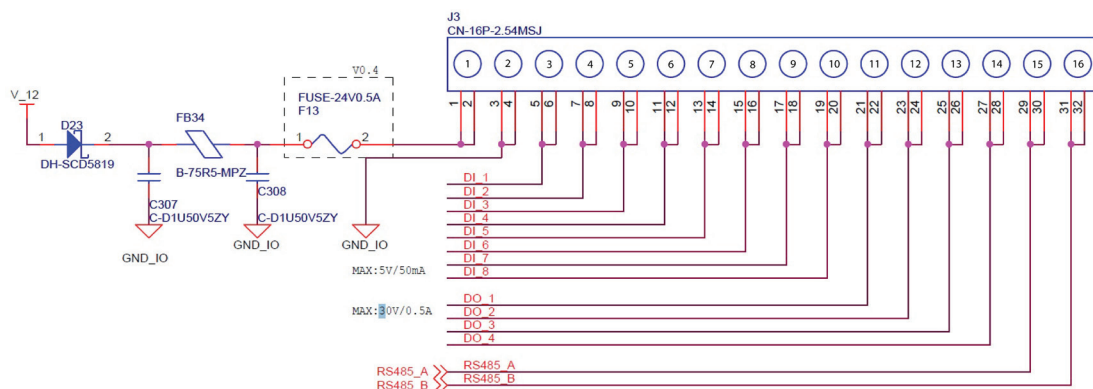|	
CPU & Memory	• ARM9 500Mhz/128MB DDR RAM
Ethernet	• 10BaseT / 100BaseT/1GBaseT and half duplex / full duplex auto-negotiation duplex auto-negotiation
HDD	• SATA Internal x 2 (Max. 4TB, 2TB/HDD) • SATA External x 1 (Max. 8TB, 2TB/HDD) • Total Capacity: 12TB
LED	• Cameras/Power/System/Network/HD/Alarm
Buttons	• Reset/Power/Buzzer
Connectors	• USB x 2 • RS-485 • DI/DO Connectors • RS-232 • E-SATA
Power	• 19V DC/90W
Dimensions	• 220 x 215 x 81 mm
Weight	• 10lbs
Temperature	• Operating: 5 °C ~ 45 °C/41 °F ~ 113 °F • Storage: -40 °C ~ 70 °C/-14 °F ~ 158 °F
Humidity	• 5% ~ 90% (non condensing)
Safety	• FCC Class A/CE/UL

Power LED
Status LED
Network LED
HDD LED
Alarm LED

Channel Status LED

Reset

Power
Buzzer Stop

USB x2

100~240VAC

E-SATA

10/100/1G Ethernet

RS232

DI x8

RS485

DO x4

Digital Input and Output

DI x 8   DO x 4
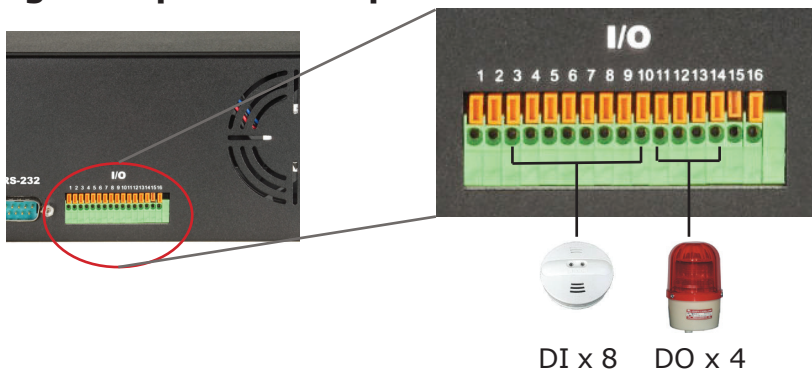
Pin	Signal
1	12V DC
2	GND
3~10	Alarm input
11	Out1
12	Out2
13	Out3
14	Out4
15	RS485+
16	RS485-

Software Specifications

Cameras

Add Camera	Manual/SEEnergy Smart Camera Search
Max. Channels	16
Supported Brands	Axis/Sony/Panasonic/AVTech/Canon/D-Link/ACTi/Zavio/ AMTK/Vivotek/Arecont Vision/Etrovision/Level 1/Mobotix/ Toshiba/Abus/Planet/Pixord/IQInvision/A-Linking/Brick-com/Hunt/Compro/AirLive/Nadatel/Sanyo/HIKVision

Video

Compression	MJPEG/MPEG-4 Part 2/H.264
Resolution	5 MP/HD/MegaPixel/FD1/CIF/QCIF
Max. Frame Rate	480 fps (D1, H.264)

Audio

Streaming	Two-way audio

Live View

Display Mode	Live View/Playback/Full Screen
Split Screen	1/4/16, 9/13 (use my favorite mode)
Full Screen	1/4/16, 9/13 (use my favorite mode)
PTZ Support	Virtual PTZ Panel/Auto Pan/Preset Point/Preset Sequence/ Digital PTZ
Sequence Mode	Sequence All/Manually Selected cameras in 1/4 split view with configurable timer
Snapshot	Video snapshot in JPEG format
E-Map	Motion Detected Event Display on E-Map/Google Map
Mobile Device	Live image view through mobile device's web browser Support iPhone/Blackberry/WinMo 6.5/Symbiam S60

Playback

Split Screen	1/4
Seach Method	Time/Date, Event
Playback Controls	Play/Pause/Stop/Forward/Reverse/Speed Adjust/Frame by Frame
Export AVI	Export Playback Videos to Local Computer in AVI Format

Recording

Capacity	Depends on hard disk
Recording Mode	Manual/Continuous/Scheduling/Event
Scheduling Types	Manual Select/Profile-based/Weekly Mode

Network

Protocols	HTTP/SMTP/DHCP/ARP/NTP/DNS/UPnP/FTP
Streaming Protocols	Depend on the supported cameras

User Management

Management	User/Group
Number of Groups	7 (Administrator/Guest/User Define * 5)
Privileges	Live View/Playback/System Configurations/Camera Configurations/Recording Configuration/Event Configuration/ Maintenance

Triggers & Events

Events	*System Events* -- System Start, System Settings modified, Camera Settings Modified, Start Recycle, Disk Full *Camera Events* -- Motion/Sensor Detection
Event Actions	Mail/FTP/Buzzer/Record
Event Recording	Pre/Post Event Settings

Central Management

Central Management	Support SEEnergy 256CH "π-Vu Central Basic" Central Management Software (CMS)

Power & Storage

UPS	Support External UPS System
Storage	Support SATA Int. x 2, Max. 4TB SATA Ext. x 1, max. 8TB

Log Types	Alert/Event/User Access

Systems

Mini. Hardware Requirements	CPU: Intel Core 2 Duo @ 2.4 Ghz or higher RAM: 1GB or above Network: 100 Megabit Network Interface or above
Mini. Software Requirements	IE Browser version 7 or above

General

Languages	English/Trad. Chinese/Simp. Chinese/Japanese/Spanish/Italian/German/Danish/Czech/Polish/French/Russian/Slovensky/Hungarian/Portuguese
Packaging	SVR-116+ (HD NOT included)/CD with Software tool/ Datasheet/Quick Guide/User's Manual/Warranty Card/ Power Adapter

Application Diagram

256 CH CMS Software π-Vu Central Basic

Smart Phone

PC

Hub

Router

Network camera

Network Video Recorder

Internet Explorer