

DIGITAL VIDEO RECORDER

VEILUX SVR MODELS

HIGH RESOLUTION REAL-TIME PRO NETWORK DIGITAL VIDEO RECORDER



PRODUCT OVERVIEW

Veilux network digital video recorder is an embedded hi performance DVR, capable of recording up to 16 cameras at combined images of 480 frames per second. The DVR comes with a choice of 4, 8, or 16 analog camera inputs and 4 audio inputs. Veilux DVR provides a scalable and expandable surveillance system with all the required important video surveillance features along with efficiency of configuration, intuitive operation and cutting edge storage optimization technologies.

Veilux network digital video recorder records at full real time motion along with 4 audio channels simultaneously. Veilux DVR's support loop through on all video channels. Analog cameras are connected on the back of the DVR through with BNC connections. DVR utilizes advanced h.264 MPEG4/Part 10 hardware video encoders providing a guarantee of very high quality images with low storage requirements. With the utilization of advanced h.264 video compression technology Veilux DVRs offers large amounts of storage savings and extremely low bandwidth requirements for online video streaming. Veilux digital video recorders supports loop through on all the video channels providing easy access to each individual camera for usage using simple BNC connections.

Veilux digital video recorders support affordable SATA internal hard disks of up to 4 drives supporting extremely large local capacity. Veilux network digital video recorder provides easy to use on screen display OSD menu allowing advanced programmable feature setup. Individual camera features can be configuring independently at different resolutions (CIF, 2CIF, D1) and frame rates. On Veilux DVR each camera can be individually setup to record on motion masking different regions on and off of the frame, with Veilux DVR masking technology large amount of additional storage space would be saved. The main video output supports simultaneous VGA (up to 1024 x 768) and composite (NTSC/PAL) signals. A second independent spot output and s-video providing additional versatile viewing options.

Veilux network video recorders provide remote access to the cameras through different options, connecting the back of the DVR with RJ45 connectors using the built in Ethernet adaptor. Veilux DVRs was designed to protect the system and sensitive video content from unauthorized access, which is tightly controlled to encrypted data stream and a built in VPN server. Veilux network DVRs have built in web servers offering online live video streaming and playback via an internet browser through the use of active x technology. Using internet browser to live view the camera eliminates the burden of downloading and installing client software at unwanted remote locations, providing easy and immediate access to live view cameras and playback events remotely. All Veilux DVRs also come with client software which can be used to remotely operate and control the DVR from a remote location, furthermore, central monitoring software is provided with all DVRs offering the capability to remotely log in to multiple locations and DVRs simultaneously.

With Veilux DVR back up is made easy with the built in DVD front burner or through the use of USB back up on an external hard drive or thumb drive. The combination of industrial enterprise recording performance, advanced storage optimization technologies, efficient and intuitive configuration and operation, makes the Veilux network video recorder the ideal solution for retail, finance, education, corporate, and commercial video surveillance applications.



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FEATURES

- Record
 - Realtime Recording Speed Up to 480/400fps @ CIF
 - Highly Effective H.264 Codec
 - Independent Resolution, FPS, Quality and Audio Setting Per Channel
 - Record by Duration (30 Days, 90 Days, ..., User Define), Write Mode (Overwrite, Suspend)
 - Support Daylight Saving
- Event
 - Support Event Record (Motion, Alarm, Panic)
 - Independent Realtime Event Schedule & Resolution Setting Per Channel
 - Event (Motion, Alarm, S.M.A.R.T.) Notification Via Beep, Email, CMS
- PTZ
 - Support Various PTZ, Keypad (80 Models at PTZ, 4 Models at Keypad)
 - Related Event with PTZ Preset
- Search
 - Various Search Mode (Calendar, Timeline, Event, POS)
 - Quick Playback by Right Click Mouse Button on Live
- Backup
 - Powerful Backup (AVI, Native DB) and Support Various Device (USB, CD, DVD, FTP)
 - Schedule FTP Backup
- Network
 - Easy Network Configuration (STATIC, DHCP, DDNS)
 - Live View & Search Via Web Viewer
 - Mobile Phone View Support
 - Support CMS (Central Monitoring System) Via 128 Channel
 - UPnP NAT Traverse
 - Support Time Sync Via NTP
- Interface
 - 2 x SATA HDDs + 1 x ODD
 - Support 4 Channel Audio
 - Support Loop Output
 - Support Various Input Device (Mouse, Remocon, Front Button)
- ETC
 - Support S.M.A.R.T. (Self Monitoring Analysis and Reporting Technology)
 - Easy Multilingual Interactive GUI
 - Multi Language (More Than 8 Languages)
 - Support Various Input Device (Mouse, Remocon, Front Button)

TECHNICAL SPECIFICATIONS

System

| | |
|------------------|---|
| Operating System | Linux |
| User Interface | Semi Transparent On Screen Display Icon Based Overlays |

Video Standards

| | |
|----------------|---|
| Input | NTSC / PAL Composite |
| Output | NTSC / PAL S-Video Composite VGA (1028 x 768) 60 Hz Capacities for NTSC 50 Hz Capacities for PAL |
| Video Encoding | H.264 MPEG4 / Part 10 |
| Video Inputs | 4 / 8 / 16 Analog Inputs |

Recording Resolution

| | |
|--|---|
| NTSC: | D1, 4 CIF (704 x 480) 2 CIF (704 x 240) CIF (352 x 240) |
| PAL: | D1, 4 CIF (704 x 576) 2 CIF (704 x 288) CIF (352 x 288) |
| Video Display Rate: | 30 Frames Per Second |
| Video Display Modes: (Main Monitor) | 1, 4, 6, 9, 13, 16 |
| Video Display Modes: (Spot Monitor) | 1 |
| Frame Rate | NTSC: 1/16 ~ 30 FPS PAL: 1/16 ~ 25 FPS |

Audio

| | |
|-----------------------------|------------|
| Audio Decoding | G.722 |
| Audio Input | 4 Channels |
| Audio Output | 1 Channel |
| Sampling Ratio | 8 KHz |
| Encoding Output Bit Rate | 16Kbps |

Interfaces

| | |
|-------------------|---|
| Video Connectors: | 4, 8, or 16 Female BNC 75 Ohms Inputs 4, 8, or 16 Female BNC 75 Ohms Output Loop Through |
| Network Port: | Ethernet Port 10M / 100M, RJ45 |
| Keyboard Port: | RS-485 Port, Terminal Block |
| Serial Port: | RS-232 Port |
| Alarm: | 16 Alarm Inputs, 4 Relay Outputs |
| Monitor Ports: | VGA, Main BNC 75 Ohm, Sport Monitor Output 75 Ohm, S-Video |
| Interface Ports: | USB 2.0 |
| Audio: | Input 4 x 3.5 MM Monaural Jacks Output 1 x 3.5 MM Monaural Jacks |



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TECHNICAL SPECIFICATIONS

Storage

Internal Storage

| | |
|------------------|--|
| Without DVD | 4 SATA Hard Disks |
| With DVD | 3 SATA Hard Disks |
| External Storage | 1 USB |
| Recording Modes | Manually, Scheduled, Alarm, Motion Detection |
| Image Encryption | Watermark Technology |

Network Capabilities

| | |
|------------|---|
| Protocols: | IP, TCP, UDP, PPoE, DHCP, PPP |
| Others | Supports Broadband Dialing and Narrow Band Transmission |

Panel Operation

| | |
|------------------|---|
| Operating System | Linux |
| Operation: | Front Panel, IR Remote Controller, Mouse |
| Indicators | |
| Power | Blue |
| HDD Activity | Red |
| Network Activity | Green |
| Alarm | Green |
| Buttons | Power, Record, Jog / Shuttle, Info, Display, PTZ, Backup, Search, Rewind, Play, Forward, Stop, Quick Menu |

PTZ Control

| | |
|---------------|----------------------------------|
| PTZ Interface | Front Panel, USB Mouse, Keyboard |
| PTZ Protocols | Pelco D, Pelco P |

Electrical

| | |
|---------------------|---------------------------------|
| Input Voltage: | External AC100 ~ 240V 50 / 60Hz |
| Power Consumption | 75W Not Including Hard Disk |
| Power of Protection | Power Onself - Recovery |

Cable Type

| | |
|-------------------|---|
| USA Standard | 117 VAC, 3 Prongs, 6 FT or 1.8 Meters |
| European Standard | 220 VAC, 3 Prongs, Modled Connector, 6 FT or 1.8 Meters |
| UK Standard | 250 VAC, 3 Prongs, Molded Connector, 6 FT or 1.8 Meters |

Physicals

| | |
|-------------|--|
| Dimensions | 430mm (W) x 75mm (W) x 360mm (D) |
| Weight | 7.5Kg (Without HDD) |
| Finish | |
| Front Panel | Black Glossy Finish |
| Chassis | Black Mate Finish |
| Mounting | Desktop Feet with Rackmount Kit Included |

Environmental

| | |
|-----------------------|---|
| Operating Temperature | 50 to 95 Degrees Fahrenheit 10 to 35 Degrees Celcius |
| Storage | -49 Degrees Fahrenheit |

Supplied Accessories

| | |
|-------------------|--|
| Power Cables | 1 USA Standard, 1 European Standard or 1 United Kingdoms Standard |
| Power Adaptor | 100 ~ 240V Convertor to 12VDC, 3Amp |
| Resource CD | User Manual in PDF Format, Remote Access Client Software, CMS Software |
| Rackmounting Kit | 1 |
| IR Remote Control | 1 |
| AAA Batteries | 2 For IR Remote Control |

Certifications



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SPECIFICATIONS

| ITEM | SVR-412DVD | SVR-824DVD | SVR-1648DVD |
|------------------------------|--|---------------------|---------------------|
| Multiplex Operation | Quadplex (Live / Recording / Network / Backup or Playback) | | |
| VIDEO | | | |
| Standard | NTSC / PAL | | |
| Video Input, Loop Output | 4CH BNC, 1Vp-p | 8CH BNC, 1Vp-p | 16CH BNC, 1Vp-p |
| VGA Output | 1 x Dsub 15 Pin (1024 x 768) | | |
| Main Output, Spot Output | 1 x BNC (Composite) | | |
| AUDIO | | | |
| Audio Input | 4CH RCA | | |
| Audio Output | 1CH RCA | | |
| Audio Codec | G.726 | | |
| LIVE VIEW | | | |
| Resolution | 704 x 480 (NTSC), 704 x 576 (PAL) | | |
| Live FPS | 120fps | 240fps | 480fps |
| Multi Screen | 1, 4 Screen | 1, 4, 9 Screen | 1, 4, 9, 16 Screen |
| Sequence Time | 1 ~ 60 Sec | | |
| RECORDING | | | |
| Compression | H.264 / G.726 | | |
| Rate (NTSC) | Max. 120fps for D1 | Max. 240fps for HD1 | Max. 480fps for CIF |
| Rate (PAL) | Max. 100fps for D1 | Max. 200fps for HD1 | Max. 400fps for CIF |
| Quality | 5 Levels | | |
| Schedule | Normal / Normal + Motion / Normal + Motion + Alarm | | |
| Pre-Alarm | 5 Sec. (Fixed) | | |
| Post-Alarm | 10 Sec. ~ 30 Min. | | |
| Holiday | Support Holiday Schedule | | |
| Storage | SATA HDD 2 HDD + 1 ODD | | |
| E-SATA | E-SATA Data Recording | | |
| SEARCH | | | |
| Mode | Calendar / Event / POS | | |
| Fwd. Playback, Rev. Playback | x1 / x4 / x8 / x16 / x32 / x64 | | |
| Quick Playback | Go To 10 Minutes Ago | | |
| Multi Screen | 1, 4 Screen | 1, 4, 9 Screen | 1, 4, 9, 16 Screen |
| ALARM | | | |
| Sensor Input | 4CH, NO / NC | | |
| Relay Output | 1CH, NO / NC | | |



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SPECIFICATIONS CONTINUES

| ITEM | SVR-412DVD | SVR-824DVD | SVR-1648DVD |
|----------------|--|------------|-------------|
| EVENT | | | |
| Source | Alarm In / Power Up / Motion / Video Loss / HDD Failure | | |
| Notification | Alarm Out / Buzzer / E-Mail | | |
| BACKUP | | | |
| Format | Native Database / AVI | | |
| Media | USB2.0 Flash Disk / USB-CD / USB-DVD / FTP | | |
| NETWORK | | | |
| Port | 1 x RJ45 10 / 100 Ethernet | | |
| Dynamic IP | DHCP / DDNS | | |
| NTP | Support | | |
| E-Mail | Event Notification | | |
| Web Viewer | Live / Search | | |
| Mobile View | iPhone, Blackberry, CE Viewer, etc. | | |
| CMS | Support | | |
| UPnP | UPnP NAT Traverse Support | | |
| CONTROL | | | |
| PTZ Port | 1 x RS-485 / Up to 19.2kbps | | |
| Function | PTZ, Focus, 128 Preset, Preset Tour | | |
| Keyboard | 1 x RS-485 / Up to 19.2kbps | | |
| KBD Protocol | Up to 4 Protocols | | |
| SYSTEM | | | |
| Language | Multi Language (English, Spanish, French, Japanese, Korean, Dutch, Portuguese, Russian, Chinese, Thai) | | |
| Recovery | Auto Database Recovery | | |
| HDD S.M.A.R.T. | Support | | |
| Watchdog | Dual (S/W & H/W) | | |
| Log Book | Up to 1,000 Records | | |
| F/W Upgrade | USB Flash Disk / CMS | | |
| Time Control | Network Time Server Supported | | |
| Dimension | 430(W) x 90(H) x 400(D) | | |
| Power | AC to DC Adaptor 12V, 5.0A Adaptor | | |



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Model Numbers

| Model | Analog Camera Inputs | Hard Drive Space (GB) | Optical Drive |
|--------------------|----------------------|-----------------------|---------------|
| SVR-412DVD | 4 | Without Hard Drive | DVD Burner |
| SVR-412DVD-500 GB | 4 | 500 | DVD Burner |
| SVR-412DVD-1TB | 4 | 1,000 | DVD Burner |
| SVR-412DVD-2TB | 4 | 2,000 | DVD Burner |
| SVR-824DVD | 8 | Without Hard Drive | DVD Burner |
| SVR-824DVD-500 GB | 8 | 500 | DVD Burner |
| SVR-824DVD-1TB | 8 | 1,000 | DVD Burner |
| SVR-824DVD-2TB | 8 | 2,000 | DVD Burner |
| SVR-1648DVD | 16 | Without Hard Drive | DVD Burner |
| SVR-1648DVD-500 GB | 16 | 500 | DVD Burner |
| SVR-1648DVD-1TB | 16 | 1,000 | DVD Burner |
| SVR-1648DVD-2TB | 16 | 2,000 | DVD Burner |

Each of the DVRs can be ordered with up to 8TB of Storage, Special Order is Available

Storage Estimates

| | Low Motion | High Motion | |
|--------------------------|------------|-------------|-------|
| Number of Cameras | 1 | 1 | |
| Number of Audio Channels | 0 | 0 | |
| Number of Days | 1 | 1 | |
| Resolution | CIF | CIF | |
| Frames per Second (FPS) | 30 | 30 | |
| Recording on Motion (%) | 100% | 100% | Total |
| Storage in GB | 2.47 | 4.94 | 7.42 |
| Storage in TB | 0.00 | 0.00 | 0.01 |

Estimated Storage Requirements For 16 Cameras

| FPS | Image | KB per | Number | Storage | |
|-----|------------|--------|----------|---------|------|
| | Resolution | Frame | of Days? | GB | TB |
| | QCIF | 0.8 | 30 | 9.89 | 0.01 |
| | CIF | 1.5 | 30 | 18.54 | 0.02 |
| | 2 CIF | 3 | 30 | 37.08 | 0.04 |
| 5 | 4 CIF | 7.5 | 30 | 92.70 | 0.09 |
| | QCIF | 0.74 | 30 | 18.29 | 0.02 |
| | CIF | 1.4 | 30 | 34.61 | 0.03 |
| 10 | 2 CIF | 2.8 | 30 | 69.21 | 0.07 |
| | 4 CIF | 7 | 30 | 173.03 | 0.17 |
| | QCIF | 0.68 | 30 | 25.21 | 0.02 |
| | CIF | 1.3 | 30 | 48.20 | 0.05 |
| | 2 CIF | 2.6 | 30 | 96.41 | 0.09 |
| | 4 CIF | 6.5 | 30 | 241.01 | 0.24 |
| 15 | QCIF | 0.56 | 30 | 34.61 | 0.03 |
| | CIF | 1.1 | 30 | 67.98 | 0.07 |
| | 2 CIF | 2.2 | 30 | 135.96 | 0.13 |
| | 4 CIF | 5.5 | 30 | 339.89 | 0.33 |
| | QCIF | 0.5 | 30 | 37.08 | 0.04 |
| | CIF | 1 | 30 | 74.16 | 0.07 |
| 30 | 2 CIF | 2 | 30 | 148.32 | 0.14 |
| | 4 CIF | 5 | 30 | 370.79 | 0.36 |

Recommended Accessories



SVK-64 - Keyboard, PTZ and DVR controller with 3-Axis Joystick

VLCD Series - Veilux high resolution LCD CCTV monitors with up to 800 TVL resolutions



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DIAGRAMS

