PRODUCT OVERVIEW

The Veilux PC based digital video recorder (DVR) is the next generation of an affordable professional level DVR. The unit is designed for the entry to professional level market that requires one to thirty two camera inputs, powerful video storage management with efficient H.264 compression, multi-event recording, quick and easy to use graphical user interface (GUI), internal storage capacity up to 16 TB, and remote client connectivity to as many as 50 Veilux DVR servers with the use of CMS (Central Monitoring Station) replaces matrix switchers by display up to 4 monitors. The Veilux PC based system not only replaces the traditional VCR and multiplexer combination, it provides a solution that scales from stand-alone to network video streaming.

Veilux VRMS MODELS

Veilux PC based digital video recorder support advanced video analytics that is capable of tracking up to 100 simultaneously moving objects. Systems settings allow the drawing of virtual barriers with intrusion detection which detects if object is within or crossing a virtually defined zone or line allowing alarm triggers through the DVR server with a few settings.

Veilux DVR’s are simple to playback with a graphical time/date interface, operations such as easy search, fast-forward, and backward, slow motion, and pause, frame by frame or even panoramic view. It offers zoom in functionality on playback to pick up extra detail, with the capability of adjusting contrast and clarity. Video files can be backed up in their native video format with its built-in player making it easy to give to authorities to playback.

Each camera is separately configured for frame rate, motion areas, resolutions, compression recording method and more. Now you can give that important camera additional frames, and leave the back room to record just when needed. Then, set cameras for remote notification-just in case. This DVR has multi level access for all the DVR users blocking and allowing certain features and DVR functions from being accessed remotely or locally.

All Veilux DVR server supports major Point of Sale cash registers in the market by embedding text overlay on the camera to view money transactions live over video. Video files can be search by and video transaction event by querying a certain product name, dollar amount, transaction type etc. This advanced feature provides flexibility and saves time on video playback and video search.

With Multi-Event recording and HD Storage Management customers can set recording schedules and allocate storage space to best match their retention requirements. Add the improvements of H.264 compression and the the available advanced video analytics with the cost offered Veilux DVR becomes an extremely cost-effective system for any small business to enterprise level surveillance solution.

Also available our D1 Hardware Compression Card for greater resolution and performance.
FEATURES

- H.264 compression MPEG4 selected per channel
- Up to 16,000 Gigabyte of storage
- Optional DVD video recorder
- Up to 704 x 480 / 704 x 576 NTSC / PAL resolution
- Multi-event recording mode
- Channel independent resolution, quality, and frame rate settings
- HDD Storage Manager for disk optimization
- Continuous, motion, alarm, instant, and scheduled recording
- Full-function remote agent with administration functions
- Realtime display and recording
- Remote desktop via IE browser or client software
- Supports up to 16 video inputs
- 16 audio inputs option available
- TCP/IP based network, LAN, PSTN, ISDN
- Remote desktop setting, display control, relay output, P/T/Z camera
- Remote screen 1, 4, 9, 16, 32 channel split screens

BENEFITS

- Easy to Use very intuitive
- Easy to Install
- Efficient Storage Management
- Easy to control and manage with multi level user management
- Fully backed and supported by veilux customer service
- Affordably Priced

OPTIONAL AVAILABLE

ADVANCED VIDEO ANALYTICS

- Full range of filter rules and counters
- Direction filter
- Enter exit filter
- Speed filter
- Appear and disappear filters
- Traffic stopping and loitering detection
- Auto tracking
- Abandoned object detection
- Removed object detection

ADVANCED VIDEO ANALYTICS

- Track up to 100 simultaneous targets
- Up to 40 user defined, polygonal detection zones
- Tracks fast and slow moving objects
- Continuous tracking even when
- Camera shake cancellation
- Virtual intruder parameter detection
- Camera attack detection
- Detects when an objects such as a person or vehicle is inside or is crossing a zone or a line
- Include non-detection zones

Supplied Accessories

Power Cord 1 USA Standard or 1 European Standard
USB Keyboard and Mouse 1 each for configuration and operation
Optional Rack Mount Kit 1 standard kit (brackets, rails, and hardware)

Recommended Accessories

VCMS - Central Monitoring Station Software License
VIO-16N (non-pro model) - 16 I/O Cable Kit
VA-16C (input card & cable) - 16 Channel Audio
VA-4C (input card & cable) - 4 Channel Audio
# TECHNICAL SPECIFICATIONS

## Video

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
<th>Spot Monitor</th>
<th>Video Encoding</th>
<th>Video Inputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTSC / PAL Composite</td>
<td>NTSC / PAL VGA (1024 x 768)</td>
<td>RCA Composite</td>
<td>H.264 MPEG4 / Part 10, MPEG4, MJPEG Per Channel</td>
<td>4 / 16 / 32 Analog Inputs</td>
</tr>
<tr>
<td>60 Hz Capacities for NTSC</td>
<td>50 Hz Capacities for PAL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Recording Resolution

<table>
<thead>
<tr>
<th>NTSC:</th>
<th>PAL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1 Hardware Compression: VRMS-H3296D1 / VRMS-H1484D1</td>
<td>D1, 4CIF (704 x 480)</td>
</tr>
<tr>
<td>2CIF (704 x 240)</td>
<td>CIF (352 x 240)</td>
</tr>
</tbody>
</table>

## Video Display Rate:

- 30 Frames Per Second

## Video Display Modes:

<table>
<thead>
<tr>
<th>(Main Monitor)</th>
<th>(Spot Monitor)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 4, 6, 9, 10, 13, 16, 25, 36</td>
<td>Channel Sequential</td>
</tr>
</tbody>
</table>

## Optional Audio Models

### Audio Decoding

- G.722

### Audio Input

- 16 Channels

### Audio Output

- 16 Channels

### Sampling Ratio

- 8 KHz

### Encoding Output Bit Rate

- 16 Kbps

## Interfaces

### Video Connectors

- 4, 16, 32 Female BNC 75 Ohms Inputs

### Optional Loop Through

- 4, 16 or 32 Female BNC 75 Ohms Output Loop Through

### Network Port

- Ethernet Port 10M / 100M, RJ45

### Serial Port

- RS-232 Port

### Optional Alarm

- 16 Alarm Inputs, 4 Relay Outputs

### Monitor Ports

- VGA, RCA Spot Monitor Output 75 Ohm

### Interface Ports

- USB 2.0

### Recording Optional Audio:

- Input 16 x 3.5mm Monaural Jacks
- Output 16 x 3.5mm Monaural Jacks

### System Audio

- Microphone in, and audio output

## Storage

- Internal Storage Recording Modes
- Image Encryption Image Authentication
- Watermark Technology Software Included

## Network Capabilities

### Protocols:

- IP, TCP, UDP, PnP, DHCP, PPP

### Operating System

- Microsoft Windows

### Hardware Compression:

- Front Panel, Keyboard, Mouse, CD / DVD + RW
- Power, Reboot, DVD Eject Button, Front USB 2.0 x 2 Connector

## Electrical

### Input Voltage:

- Selectable Switch AC 100-240V 50/60 Hz
- 400W

### Power Consumption:

- Power On Self Recovery

### Cable Type:

- 117 VAC, 3 Prongs, 6FT or 1.8 Meters
- 220 VAC, 3 Prongs, Molded Connector 6FT or 1.8 Meters
- 250 VAC, 3 Prongs, Molded Connector 6FT or 1.8 Meters

## Physical

### Dimensions

- 19 x 7 x 20.8 Inches
- 482.6 x 177.8 x 528.4mm

### Color of Chassis

- Black
- Blue

### Front Panel Material

- 1.2mm SECC Zinc-Coated Steel

### Rear Panel Material

- Aluminum

### Front Panel Material

- Removable and Washable

### Front Panel LEDs

- LEDs for On / Off, HDD, Fan & Alarm

### Approximate Weights

- 35 LBS (15.9 KGS) Without Hard Disks
- Every Additional Hard Disks Weighs Approximately 1.5 LBS (0.7 KGS)

## Client Applications

### Remote Client

- Remote Access Via Client Software, Live View,
- Full DVR Configuration, Remote Playback, E-Map

### Web Client

- Remote Access Via Browser, Screen Partitions,
- Remote Playback

### CMS Optional

- Manage, View, Playback, E-MAP, Alarm Monitoring,
- Up to 50 DVR

## Certifications

- CE and FCC   |   UL Listed

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H.264 NETWORK DIGITAL VIDEO RECORDER

802 Greenview Dr., Suite 200, Grand Prairie, TX, 75050
Website: www.veilux.net   E-mail: Sales@veilux.net
## Model Number

<table>
<thead>
<tr>
<th>Model</th>
<th>Hard Drive Space</th>
<th>Video Board</th>
<th>Camera Inputs</th>
<th>Frame Rate for Recording</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRMS-412</td>
<td>Empty Hard Disk for Recording</td>
<td>VCB-120-4</td>
<td>4 Channel</td>
<td>Max. 120 FPS (NTSC) / 100 FPS (PAL)</td>
</tr>
<tr>
<td>VRMS-1648</td>
<td>Empty Hard Disk for Recording</td>
<td>VCB-480-16EX</td>
<td>16 Channel</td>
<td>Max. 480 FPS (NTSC) / 400 FPS (PAL)</td>
</tr>
<tr>
<td>VRMS-1648-2TB</td>
<td>2 Terabyte Hard Disk for Recording</td>
<td>VCB-480-16EX</td>
<td>16 Channel</td>
<td>Max. 480 FPS (NTSC) / 400 FPS (PAL)</td>
</tr>
<tr>
<td>VRMS-1648-4TB</td>
<td>4 Terabyte Hard Disk for Recording</td>
<td>VCB-480-16EX</td>
<td>16 Channel</td>
<td>Max. 480 FPS (NTSC) / 400 FPS (PAL)</td>
</tr>
<tr>
<td>VRMS-1648-6TB</td>
<td>6 Terabyte Hard Disk for Recording</td>
<td>VCB-480-16EX</td>
<td>16 Channel</td>
<td>Max. 480 FPS (NTSC) / 400 FPS (PAL)</td>
</tr>
<tr>
<td>VRMS-1648-8TB</td>
<td>8 Terabyte Hard Disk for Recording</td>
<td>VCB-480-16EX</td>
<td>16 Channel</td>
<td>Max. 480 FPS (NTSC) / 400 FPS (PAL)</td>
</tr>
<tr>
<td>VRMS-3296</td>
<td>Empty Hard Disk for Recording</td>
<td>2x VCB-480-16EX</td>
<td>32 Channel</td>
<td>Max. 960 FPS (NTSC) / 400 FPS (PAL)</td>
</tr>
<tr>
<td>VRMS-3296-2TB</td>
<td>2 Terabyte Hard Disk for Recording</td>
<td>2x VCB-480-16EX</td>
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<tr>
<td>VRMS-3296-4TB</td>
<td>4 Terabyte Hard Disk for Recording</td>
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<tr>
<td>VRMS-H3296D1</td>
<td>Hardware Compression</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>VRMS-H1648D1</td>
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The DVR come with 500 GB Hard Disk for operating system and without monitor.