



**CRADLE**  
TECHNOLOGIES  
[www.cradle.com](http://www.cradle.com)

A Leader in Networked Video Surveillance Systems (NVSS)



enVigil

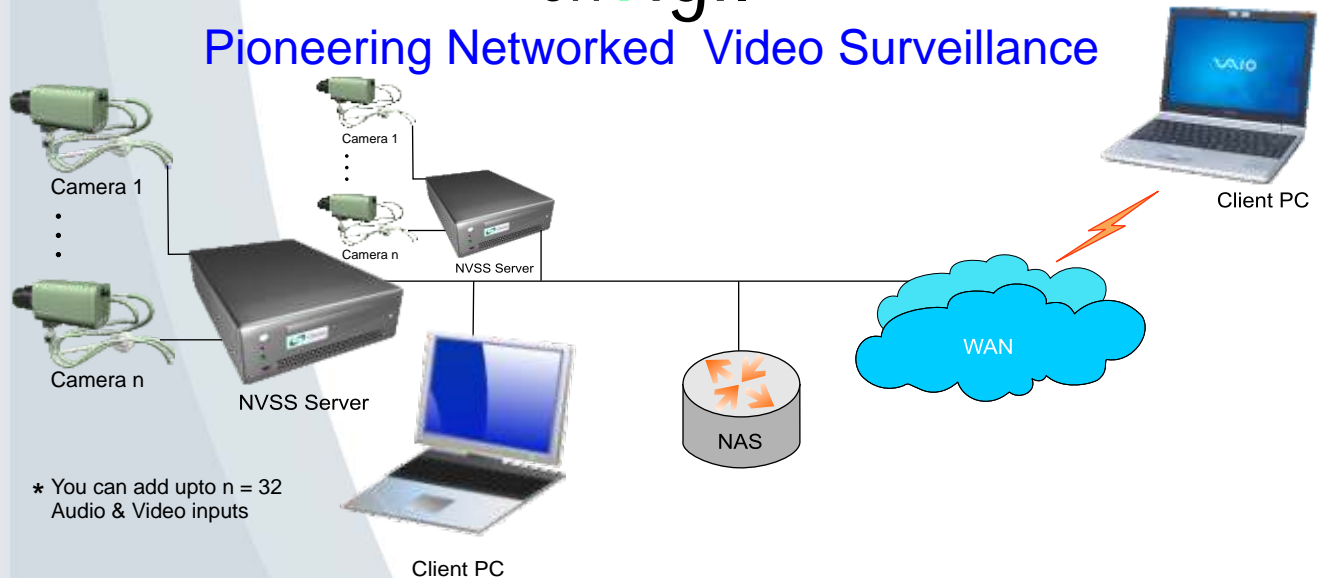


enVigil

Pioneering Networked Video Surveillance

# enVigil

## Pioneering Networked Video Surveillance



## Market evolving from DVRs , NVRs to NVSS

DVRs, NVRs have their roots in the traditional video surveillance view of systems primarily focused on Security. IP cameras to certain extent have taken advantage of the more modern connectivity using LAN and WANs . But using only IP protocol has certain limitations in streaming. Internet is far more than IP protocol. There are concerns over secure access, VPN capabilities, Unpredictable bandwidth environment, direct authorization control etc.

Networked Video Surveillance System is the natural next step for video surveillance. At the heart of an NVSS is the Internet. This required, systems to be engineered from the ground up considering the strengths and challenges of the Internet. Cradle's enVigil is industries one of the first Networked Video Surveillance System.

## Networked Video Surveillance System

Whether you are purchasing a new surveillance system for the first time or updating your existing CCTV system, Cradle's Networked Video Surveillance System (NVSS) will help you manage your security requirements and go beyond it to meet many of your business needs.

## NVSS capability up to 32 cameras



- **Easy Remote Access** - At the scene of an on site accident, decision makers can remotely view the site and observe the details of the accident from any location.
- **Rapid Response** - If an intruder enters a premise during off hours, the decision makers are notified directly. They can then advise authorities on immediate steps to be taken.
- **Enhancing Your Customer Service** - Observe how your employees interact with your customers and improve customer satisfaction.
- **Improving Employee Productivity** - Observe any part of your factory floor at will and improve business processes.
- **Efficiently manage your business projects from anywhere in the world** - Monitor your progress at multiple sites, regardless of your location.

## Who could derive the most benefit from a Networked Video Surveillance System?

The answer to this question is simple: anyone with a small of medium sized business! Our NVSS systems are unique in that they maximize efficiency for growing businesses with areas to monitor, multiple locations or businesses where decision makers are on the move.

## CRADLEWATCH

CradleWatch is a comprehensive video management software used in conjunction with Cradle's multi-channel Networked Video Surveillance System (NVSS). This system is ideal for customers who are looking to upgrade their existing CCTV system or purchase a new, intelligent and easy of use system. CradleWatch consists of Server and Client software. It is unique because it is a networked system that provides many benefits that help you manage your security and go beyond it.

## CONNECTIVITY

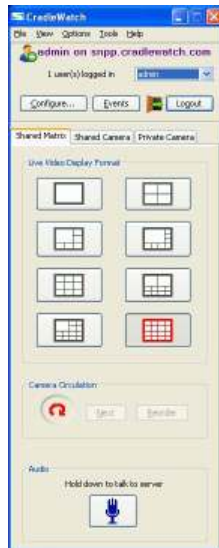
You can access your video and audio information conveniently, regardless of where you are or how you want of view it.

- **Remote Access** - Access it from anywhere in the world using an Internet connection
- **Interoperability** - Access your video surveillance system through your PC, cell phone or PDA
- **Alerts** - Receive e-alerts via Email, or SMS text messages

## CONSISTENT VIDEO TRANSMISSIONS

Audio and video transmissions can be unpredictable, and can keep changing moment to moment. CradleWatch is intelligent and adjusts to optimize your viewing experience for a consistently high picture and audio quality.

**How?** The system adjusts the video frame rate and bit rate based on what is available on the network to deliver the best possible viewing experience. Audio quality is maintained by retaining audio/video synchronization in spite of varying video frame rates.



## HIGHEST QUALITY OF VIDEO

CradleWatch delivers the highest quality of video using its state of the art video encoding techniques. Its' 100% standards compliant H.264 and MPEG 4 implementation enable viewing interoperability.

## SECURE ACCESS

The system is secured through the use of encrypted connections. Cradle uses one of the most secure methods for transmitting your video.

**How?** All video transmissions over LAN or WAN are fully encrypted and channeled through an industry standard Virtual Private Network (VPN). No one else can view what you are viewing without your permission, essentially enabling you to have a "private video network".

## INTELLIGENCE AT YOUR FINGERTIPS

The CradleWatch software transforms data and images into meaningful information, ready for your use.

- **Intelligent management of video storage** (through motion detection, sensors and event-driven alarms)
- **Real time alerts** (through text messaging or SMS, and emails)

## FLEXIBILITY

- **Scale up your operations easily** - The system is extremely flexible, allowing the addition of multiple locations.

**How?** As your needs change, your operations can change. You have the ability to add more cameras, audio, sensors, relays and you can change your storage as needed.

- **Reliability and Availability** - System is designed for reliable 24x7 operation

**How?** Add redundant storage through RAID support. Improve the reliability and ensure 24x7 availability through hotswap capabilities. A variety of UPS (Uninterrupted Power Supply) products are supported to enable a graceful shut down to eliminate a loss of data and minimize the risk of hard disk failures.



## NVSS COMMON FEATURES

Features	Networked Video Surveillance System															
Remote Access	<ul style="list-style-type: none"> <li>- View and control your NVSS system at multiple locations through your PC</li> <li>- Worldwide access through your laptop</li> <li>- Static IP is not compulsory, Dynamic DNS support is included</li> <li>- CradleWatch Client supported on Windows XP and MAC</li> <li>- A total of 4 Users can access system simultaneously (including one Administrator)</li> <li>- Talk to the NVSS from a remote location (when loudspeakers are connected to the NVSS)</li> <li>- Connect to system using your Mobile phone or PDA</li> </ul>															
Secure Access	<ul style="list-style-type: none"> <li>- Encrypted video and audio channeled through VPN tunneling or SSL protocol</li> </ul>															
Intelligent Events and Alerts	<ul style="list-style-type: none"> <li>- Alarm Triggers <ul style="list-style-type: none"> <li>- Motion Detection - programmable motion mask and configurable</li> <li>- Sensitivity for motion detection</li> <li>- Blind - Obscured camera detection</li> <li>- Loss - Disconnected camera detection</li> <li>- Sensor (motion detectors, temperature/humidity detectors) triggered recording</li> <li>- Time scheduled event detection</li> </ul> </li> <li>- Alarm Actions: <ul style="list-style-type: none"> <li>- Emails to PCs and PDAs</li> <li>- SMS/Text Messaging via modem</li> <li>- Video and Audio Recording on one or more cameras</li> <li>- Relay output (to control security sirens, buzzers etc)</li> </ul> </li> <li>- Sensors and Relays <ul style="list-style-type: none"> <li>- Each Cradle I/O module supports 4 digital outputs, 4 digital sensor inputs and 2 analog sensor inputs.</li> <li>- Any number of these modules can be connected through a RS 485 connector.</li> </ul> </li> </ul>															
Audio Features	<ul style="list-style-type: none"> <li>- Live video streaming with G.726 (32kbps)</li> <li>- Audio recorded with G.711 (64kbps)</li> <li>- Audio input available with selectable Audio Input Gain for each video channel</li> <li>- User can talk to someone at the Server location (Audio Out)</li> </ul>															
Video Compression Standards	<ul style="list-style-type: none"> <li>- Encoding bit rate of 64kbps to 2Mbps</li> <li>- Selectable H.264 or MPEG4</li> <li>- MPEG-4 Part-2 ASP Encoder</li> <li>- H.264/AVC Baseline Encoder</li> </ul> <table border="1"> <thead> <tr> <th>System Type</th> <th>Encoder</th> <th>Maximum FPS</th> </tr> </thead> <tbody> <tr> <td>( 4 / 8 / 16 ) channels</td> <td>MPEG-4</td> <td>D1 NTSC @ 120 fps D1 PAL @ 100 fps</td> </tr> <tr> <td>(4 / 8 / 16) channels</td> <td>H.264</td> <td>D1 NTSC @ 60 fps D1 PAL @ 50 fps</td> </tr> <tr> <td>32 channels</td> <td>MPEG-4</td> <td>D1 NTSC @ 240 fps D1 PAL @ 200 fps</td> </tr> <tr> <td>32 channels</td> <td>H.264</td> <td>D1 NTSC @ 120 fps D1 PAL @ 100 fps</td> </tr> </tbody> </table>	System Type	Encoder	Maximum FPS	( 4 / 8 / 16 ) channels	MPEG-4	D1 NTSC @ 120 fps D1 PAL @ 100 fps	(4 / 8 / 16) channels	H.264	D1 NTSC @ 60 fps D1 PAL @ 50 fps	32 channels	MPEG-4	D1 NTSC @ 240 fps D1 PAL @ 200 fps	32 channels	H.264	D1 NTSC @ 120 fps D1 PAL @ 100 fps
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Video Resolution	<ul style="list-style-type: none"> <li>- D1- 720x480 pixels NTSC, 720x576 pixels PAL - this produces the best picture quality</li> <li>- 1/2 D1-720x240 pixels NTSC, 720x288 pixels PAL- this produces almost as good a quality but uses almost half the disk storage (recommended)</li> <li>- CIF-352x288 pixels NTSC, 352x288 pixels PAL -which gives the lowest picture quality but uses almost one quarter of the disk storage compared to D1</li> </ul>															
Video Storage and Archives	<ul style="list-style-type: none"> <li>- NAS and RAID capable. Up to 8 individual NAS/Hard disks can be added to extend the storage time to many months</li> </ul>															
Installation	<ul style="list-style-type: none"> <li>- CradleWatch Server files and Fedora Core8 (Linux) files are pre-loaded on NVSS</li> <li>- CradleWatch Client is ready to install on remote computers</li> </ul>															

Please refer the datasheet for detailed specifications



**Pioneering Networked Video Surveillance**

### Corporate Headquarters

82 Pioneer Way Suite 103 Mountain View,  
CA 94041 (USA)  
Tel : 1-650-210-3600  
Fax : 1-650-210-3636  
e-mail : sales@cradle.com

### Cradle Technologies India Pvt. Ltd.

Friends Park Society (3rd & 4th Floor)  
Lohia & Jain Business Centre, Senapati Bapat Road, Pune -  
411016 (INDIA)  
Phone : +91-20-25630875  
Fax : +91-20-25630877  
e-mail : indiasales@cradle.com

### enVigil-i series

Cameras : Up to 32 cameras  
1 audio and video per camera  
Capacity : Local HDD up to 2 TB  
Power Supply :100/240 Volts 60Hz/50Hz

### enVigil-m series

Cameras : Up to 16 cameras  
1 audio and video per camera  
Capacity : Local HDD up to 500GB  
Power Supply :12 Volts DC

**Contact us** today for more information on how our  
**Networked Video Surveillance Systems**  
Go Beyond Security and can help your business in numerous ways!

