1. This manual is designed to provide users with information about how to identify and install all the software and hardware features of the professional DVR System, XyView™. To install this XyView S/W and H/W for the first time, follow the procedures described in this manual. The illustrations throughout this user’s manual indicate the features and procedures for XyView™ DVR Program. As for the Windows Operating System or PC Hardware, refer to the user’s manual provided by computer manufacturers.

2. As this program is developed only for video monitoring and recording, it can’t be used as preventive measures. The data recorded by this program can’t be used as decisive evidence and can play a simple assistant’s role when certain matters occurred. Xy System Inc. will not bear any responsibility for those incidents and events by the objects that XyView kept under observation.

3. This manual is protected by copyright law and all rights are reserved by Xy System Inc. Programs included with the device are under copyright protection. No part of this manual may be reproduced, distributed, or translated into other languages in whole or in part, without written permission from the publisher, Xy System Inc.

4. In addition, Xy System Inc. do not bear any responsibility for malfunction or damage caused by user’s carelessness (when you use it in a way other than described in the User’s manual) and also Xy System Inc. is not responsible for any kind of damages of PC, the physical storage device (computer hard drive), or etc. caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate the equipment.

5. The specifications of H/W and exterior design of product described in this manual are subject to change for product improvement without notice. Also, the content described in this manual of the Software and Web Monitoring Service might be different from the latest released version through the automatic upgrade function of the program.

6. ‘The Web Monitoring Service’ provided by XyView DVR program over the internet might not be activated according to user’s network environment. In such a case, users are encouraged to consult an expert network manager and solve the problem themselves.

Revision 1.6
December 2007
XySystem Inc.

Customer Support

- User who has purchased XyView program and completed the customer registration procedures can receive the customer support at a place mentioned below

<table>
<thead>
<tr>
<th>XySystem Inc. CUSTOMER SERVICE SUPPORTING CENTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address #408 E&amp;C Venture Dream Tower 3, 197-33 Guro3-dong, Guro-Gu, Seoul, KOREA(152-719)</td>
</tr>
<tr>
<td>Homepage <a href="http://www.xysystem.com">http://www.xysystem.com</a></td>
</tr>
<tr>
<td>E-mail <a href="mailto:admin@xysystem.com">admin@xysystem.com</a></td>
</tr>
<tr>
<td>TEL +82 2 3281 9060</td>
</tr>
<tr>
<td>FAX +82 2 3281 9064</td>
</tr>
</tbody>
</table>

Product Serial Number

- XyView program has a protection by the domestic copyright law and international agreement. The copy or partial reproduction and distribution of this program are strongly prohibited by copyright laws.

- A product which has no product key or duplicate software is not being permitted as a genuine unit.

- The product Key is on a sticker attached to the CD case or on this user’s manual.

DVR system S/W Version 1.6
Serial Number: 000-00-00000
Product Key: 00000-00000-00000-00000-00000

Note: each product has only one key per unit and the product key does not be reissued.
A. Before Starting

This user’s manual includes the basic operating information for XyViewTM. User is recommended to read this user’s manual prior to the installation of hardware and software. XyView is a PC-based DVR program and are compatible with Microsoft Windows Operating Systems; 98SE, ME, 2000, XP and Vista. All the illustrations included in this manual are on the basis of Windows XP.

A-1 Essential Guide (User should observe)

(1) The minimum requirements for installing XyView DVR program on PC is mentioned as below. In case that the minimum specification is not met, its program may not be operated correctly.

<table>
<thead>
<tr>
<th>Contents</th>
<th>Minimum Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Pentium III 450 MHz or higher and equivalent AMD CPU</td>
</tr>
<tr>
<td>RAM</td>
<td>128MB or higher</td>
</tr>
<tr>
<td>VGA Card</td>
<td>Cards which can support DirectX 8.1 or higher</td>
</tr>
</tbody>
</table>
| Imaging Device      | 1) Windows standard capture device (USB Camera, Imaging device etc.)  
                       | 2) PCI Card supporting XyView Interface       |
| Hard Disk           | The capacity of hard disk space available for usage: 2GB or more |
| Operating System    | Window 98SE / ME / 2000 / XP                  |

* At least 10 gigabytes of hard disk space must be left unused for long-time video recordings.
* Some of OEM S/W versions support specific USB cameras.
* To operate more than 5 channels, the system should be Pentium 4 1.7 or higher and Ram 256M or higher.

(2) To use all features of XyView, user’s computer must be connected to the internet. If not, some functions of this program can not be in use.

(3) A USB camera supporting the standard input is required; most of the cameras support ‘Standard Input Function’; and also other capture devices and DV input device using IEEE1394 (Firewire) can be used. The image quality of XyView program depends on the functionality of camera and capture device.

A-2 Introduction of XyView

(1) Standard Device Support

XyView supports Windows Standard Device and other devices (PCI Card, etc.) which are able to support XyView interface. Commonly, most of the DVRs have been operated with expensive Dome cameras or box type cameras.

However, XyView DVR program can easily be used with moderate-priced normal USB cameras, and the existing desk-top computer currently used, as well as notebooks (for 1ch USB Camera). Windows Standard Device is able to be used with USB Cameras or general Capture Devices, which are selling in the common markets.

(2) Functional Implementation of Professional DVR S/W.

With the customer-oriented and easy interface, XyView implemented the most of the functions such as MPEG Codec Support, Motion Detection Recording, Simultaneous Sound Video Recording, FIFO (First-In First-Out), Water Mark, Detection Area Designation which other major manufacturer’s DVR programs are operating.

(3) Convenient Web Monitoring Service

User can view DVR Video images using the preset cameras at a remote location over the internet just like commonly sharing files on the network systems.

- The video-sharing feature can be used at any place where the internet can be accessed without managing the difficult configurations of Firewall, Router, and private IP.
- Only by simply registering an ID (the name of DVR) for accessing to the program, the Web-monitoring function can be serviced, regardless of a static or dynamic IP address.
- With the web-monitoring function developed by Xy System’s own technologies, XyView can provide users with all kinds of convenient surveillance services via the internet. Users can enjoy various convenient functions from the remote sites through this unique feature without the deep knowledge of the network terms, which people could have not imaged before.

(4) Remote DVR Channel Support

Many DVR systems located at various sites can be controlled at one place. From a remote location, the various capabilities such as Preview (Monitoring), Recording, Playback, and etc. are enabled by the feature of the Remote DVR. ‘Remote DVR Channel’ means a video-sharing function (video-sharing function on the network system) developed by Xy System Inc. It has one of the remote DVR channels connected to My Channel by providing a function similar with ‘Network Drive Connection’ of Window Explorer. The remote DVR Channel is recognized as a Physical Channel (USB camera, PCI Card, etc.) and so all the functions such as ‘Preview’, ‘Recording’, ‘Motion Detection’ and etc. that are able to be used in the Physical Channel can be implemented.

(5) Up to 8 Channel Video Input

With using up to 8 cameras, XyView DVR program is able to support various split options (choices: 1, 4, 6, 8 split screen). Accordingly, all the people including expert users can simply control this program.
B. XyView Product Series

XyView product series are divided into two kinds of categories. One is PCI package type and the other is USB package type. The PCI package type can be recommended for more professional surveillance systems to which many of cameras are required. USB Package has an advantage of being easily installed. However, USB type product is suitable for more common compositions.

<table>
<thead>
<tr>
<th>Model</th>
<th>Interface</th>
<th>Frame rate</th>
<th>Channel</th>
<th>Web Monitoring</th>
<th>Remarks</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>XyView 4channel PCI (XV400PCI)</td>
<td>PCI</td>
<td>30/60FPS</td>
<td>4/8ch</td>
<td>O</td>
<td>8Ch (2 PCI cards)</td>
<td>10</td>
</tr>
<tr>
<td>XyView 4channel PCI Lite (XV400PCI-Lite)</td>
<td>PCI</td>
<td>30/60FPS</td>
<td>4/8ch</td>
<td>X</td>
<td>8Ch (2 PCI cards)</td>
<td>10</td>
</tr>
<tr>
<td>XyView 120FPS DVR (XV120PCI-MV)</td>
<td>PCI</td>
<td>120FPS</td>
<td>4ch</td>
<td>O</td>
<td>8Ch (8 Ch expansion board)</td>
<td>14</td>
</tr>
<tr>
<td>XyView 120FPS DVR (XV120PCI-BT)</td>
<td>PCI</td>
<td>120FPS</td>
<td>4/8ch</td>
<td>O</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>XyView 1channel USB DOME</td>
<td>USB</td>
<td>30FPS</td>
<td>1ch</td>
<td>O</td>
<td>Dome Camera</td>
<td>22</td>
</tr>
<tr>
<td>XyView 4channel USB</td>
<td>USB</td>
<td>30FPS</td>
<td>4ch</td>
<td>O</td>
<td>Exterior Type</td>
<td>26</td>
</tr>
</tbody>
</table>
1) Product Description
XV-400PCI is a PC-based product that is designed for users easily to construct the strong surveillance system and can provide reliable functions and high quality of video images. It can supports up to 4 channel video input (up to 8 channels is available if two cards are used).

2) Product Composition

Contents

XV400PCI Card
User's Manual
Installation CD

3) How to install
① Before setting up the XV400 PCI card, user should turn of the PC at f rst. Then, detach a side panel of the computer and check if there is a PCI slot available. In case that all the slots are currently being used, remove a pre-installed device to secure a slot for XV400 PCI card or use a computer that has available PCI slots.
② After firmly fixing the PCI card into a slot like the right diagram, turn on the computer.
③ Once Windows starts up, a message box informing “A new device was detected” will pop up and automatically move to the step of the Driver Installation.
* In case user’s PC is a LP type, user should purchase that type of a bracket separately.

4) Typical Connection Diagram between DVR card and Camera
With this unit and cameras, up to 4~8 channel of the surveillance system can be constructed. In most cases, the method of the camera connection is same as the following diagram. However, the connection type can be differed, according to the product. Therefore, use this product after inquiring its sales representative about the detailed information.
5) How to install the device driver

① After PC was turned on and Windows started up, a message box informing "a new hardware was detected" pops up. At that time, insert the installation CD enclosed in this package into the CD Rom driver and the device driver will automatically be installed.

② Click 'Next' button on the message box asking about "whether to install H/W device"

③ As XyVision 400 PCI Device has two devices, the message box asking about whether to install the device will appear two times.

* As for how to install XyView1.6 program, refer to a next section, [C-1 XyView Program Installation].

6) Installation Confirmation

If the program is correctly installed, the device like the right picture will be marked in ‘My Computer -> Properties -> Hardware -> Device manager’. If its device icon is not indicated or an exclamation mark is indicated, remove the device and reinstall it.

7) Product Specification

<table>
<thead>
<tr>
<th>Contents</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Frames</td>
<td>30 Frames/Sec (Max 60 FPS) *</td>
</tr>
<tr>
<td>Recording Frames</td>
<td>30 Frames/Sec (Max 60 FPS) *</td>
</tr>
<tr>
<td>Digital Signal Processor</td>
<td>Fusion 878A</td>
</tr>
<tr>
<td>Interface</td>
<td>PCI 2.1 compliant</td>
</tr>
<tr>
<td>Video Input Channels</td>
<td>4 Channels (MAX 8 Channels) *</td>
</tr>
<tr>
<td>Video input type</td>
<td>NTSC/PAL</td>
</tr>
<tr>
<td>Video capture size</td>
<td>320 x 240 (pixels)</td>
</tr>
<tr>
<td>Device Driver</td>
<td>WDM Kernel Streaming Driver</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Pentium III 450 or higher and same level AMD CPU</td>
</tr>
<tr>
<td>OS</td>
<td>Win98SE, WinME, Win2000, WinXP, Win Vista</td>
</tr>
<tr>
<td>VGA Card</td>
<td>All kind of VGA cards that support DirectX 8.1</td>
</tr>
</tbody>
</table>

*Note when the program is operated at f rst.

① If the screen does not appear after the program is run for the f rst time, check if the channel type of the desired channel is selected as 'XV400PIC on the program setting menu. (If a different channel type was selected, change it and shut down the program, then reboot the PC.)

② Ensure whether the corresponding 'Channel' was checked in the pull-down box.

③ In addition, the type of a channel which is not used or has no CCTV input signal should be set as the ‘none’ or ‘Channel Disabled’ under the condition of that ‘XV400PIC’ is selected. Otherwise, the screen speed might be slower and the brightness might be changed.

8) Installation Confidence

If the program is correctly installed, the device like the right picture will be marked in ‘My Computer -> Properties -> Hardware -> Device manager’. If its device icon is not indicated or an exclamation mark is indicated, remove the device and reinstall it.

7) Product Specification

<table>
<thead>
<tr>
<th>Contents</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Frames</td>
<td>30 Frames/Sec (Max 60 FPS) *</td>
</tr>
<tr>
<td>Recording Frames</td>
<td>30 Frames/Sec (Max 60 FPS) *</td>
</tr>
<tr>
<td>Digital Signal Processor</td>
<td>Fusion 878A</td>
</tr>
<tr>
<td>Interface</td>
<td>PCI 2.1 compliant</td>
</tr>
<tr>
<td>Video Input Channels</td>
<td>4 Channels (MAX 8 Channels) *</td>
</tr>
<tr>
<td>Video input type</td>
<td>NTSC/PAL</td>
</tr>
<tr>
<td>Video capture size</td>
<td>320 x 240 (pixels)</td>
</tr>
<tr>
<td>Device Driver</td>
<td>WDM Kernel Streaming Driver</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Pentium III 450 or higher and same level AMD CPU</td>
</tr>
<tr>
<td>OS</td>
<td>Win98SE, WinME, Win2000, WinXP, Win Vista</td>
</tr>
<tr>
<td>VGA Card</td>
<td>All kind of VGA cards that support DirectX 8.1</td>
</tr>
</tbody>
</table>

*XV400PCI 8channel system is consisted of 2 cards of XV400PCI and will require the following specification (or higher) mentioned below:
1. CPU : Intel Pentium4 1.7GHz (Celeron and equivalent AMD CPU)
2. Memory : 256MB
3. HDD : 80GB
1) Product Description

XV-400PCI is a PC-based product that is designed for users easily to construct the strong surveillance system and can provide reliable functions and high quality of video images. It can supports up to 4 channel video input (up to 8 channels is available if two cards are used).

2) Product Composition

- XV120PCI-MV Card
- User’s Manual
- Installation CD

3) How to install

① Before setting up the XV400 PCI card, user should turn off the PC at first. Then, detach a side panel of the computer and check if there is a PCI slot available. In case that all the slots are currently being used, remove a pre-installed device to secure a slot for XV400 PCI card or use a computer that has available PCI slots.

② After firmly fixing the PCI card into a slot like the right diagram, turn on the computer.

③ Once Windows starts up, a message box informing “A new device was detected” will pop up and automatically move to the step of the Driver Installation.

* In case user’s PC is a LP type, user should purchase that type of a bracket separately.

4) Typical Connection Diagram between DVR card and Camera

With this unit and cameras, 4channel of the surveillance system can be constructed. In most cases, the method of the camera connection is same as the following diagram. However, the connection type can be differed, according to the product. Therefore, use this product after inquiring its sales representative about the detailed information.
5) How to install the device driver

① After PC was turned on and Windows started up, a message box informing “a new hardware was detected” pops up. At that time, insert the installation CD enclosed in this package into the CD Rom driver and the device driver will automatically be installed.

② Click ‘Next’ button on the message box asking about “whether to install”H/W device”

*As for how to install XyView1.6 program, refer to a next section, [C-1 XyView Program Installation].

6) Installation Confirmation

If the program is correctly installed, the device like the right picture will be marked in ‘My Computer- > Properties -> Hardware -> Device manager’. If its device icon is not indicated or an exclamation mark is indicated, remove the device and reinstall it.

*Note when the program is operated at f rst.

① If the screen does not appear after the program is run for the f rst time, check if the channel type of the desired channel is selected as ‘XV400PIC on the program setting menu. (if a diferent channel type was selected, change it and shut down the program, then reboot the PC.)

② Ensure whether the corresponding ‘Channel’ was checked in the pull-down box.

③ In addition, the type of a channel which is not used or has no CCTV input signal should be set as ‘none’ or ‘Channel Disabled’ under the condition of that ‘XY400PCI’ is selected. Otherwise, the screen speed might be slower and the brightness might be changed.

7) Product Specification

<table>
<thead>
<tr>
<th>Contents</th>
<th>Speciﬁcation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Frames</td>
<td>120 Frames/Sec</td>
</tr>
<tr>
<td>Recording Frames</td>
<td>120 Frames/Sec</td>
</tr>
<tr>
<td>Digital Signal Processor</td>
<td>MV9100</td>
</tr>
<tr>
<td>Interface</td>
<td>PCI 2.1 compliant</td>
</tr>
<tr>
<td>Video Input Channels</td>
<td>4 Channels</td>
</tr>
<tr>
<td>Video input type</td>
<td>NTSC/PAL</td>
</tr>
<tr>
<td>Video capture size</td>
<td>320 x 240 (pixels)</td>
</tr>
<tr>
<td>Device Driver</td>
<td>WDM Kernel Streaming Driver</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Pentium4 1.7GHz or higher and same level AMD CPU</td>
</tr>
<tr>
<td>OS</td>
<td>Win98SE, WinME, Win2000, WinXP, Win Vista</td>
</tr>
<tr>
<td>VGA Card</td>
<td>All kind of VGA cards that support DirectX 8.1</td>
</tr>
</tbody>
</table>
B-3. XyView 120FPS DVR (XV120PCI-BT)

1) Product Description
XV-400PCI is a PC-based product that is designed for users easily to construct the strong surveillance system and can provide reliable functions and high quality of video images. It can supports up to 4 channel video input (up to 8 channels is available if two cards are used).

2) Product Composition

Contents

- User's Manual
- Installation CD

Option

- XV120PCI-BT Card
- 8Channel Expansion Card

3) How to install
① Before setting up the XV400 PCI card, user should turn off the PC at first. Then, detach a side panel of the computer and check if there is a PCI slot available. In case that all the slots are currently being used, remove a pre-installed device to secure a slot for XV400 PCI card or use a computer that has available PCI slots.
② After firmly fixing the PCI card into a slot like the right diagram, turn on the computer.
③ Once Windows starts up, a message box informing “A new device was detected” will pop up and automatically move to the step of the Driver Installation.
* In case user’s PC is a LP type, user should purchase that type of a bracket separately.

4) Typical Connection Diagram between DVR card and Camera
With this unit and cameras, up to 4~8 channel of the surveillance system can be constructed. In most cases, the method of the camera connection is same as the following diagram. However, the connection type can be differed, according to the product. Therefore, use this product after inquiring its sales representative about the detailed information.
5) How to install the device driver

① After PC was turned on and Windows started up, a message box informing "a new hardware was detected" pops up. At that time, insert the installation CD enclosed in this package into the CD Rom driver and the device driver will automatically be installed.

② Click 'Next' button on the message box asking about "whether to install"H/W device"

③ As XyVision 400 PCI Device has two devices, the message box asking about whether to install he device will appear two times.

*As for how to install XyView1.6 program, refer to a next section, [C-1 XyView Program Installation].

6) Installation Confirmation

If the program is correctly installed, the device like the right picture will be marked in 'My Computer -> Properties -> Hardware -> Device manager'. If its device icon is not indicated or an exclamation mark is indicated, remove the device and reinstall it.

7) Product Specification

<table>
<thead>
<tr>
<th>Contents</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Frames</td>
<td>120 Frames/Sec</td>
</tr>
<tr>
<td>Recording Frames</td>
<td>120 Frames/Sec</td>
</tr>
<tr>
<td>Digital Signal Processor</td>
<td>Fusion 878A</td>
</tr>
<tr>
<td>Interface</td>
<td>PCI 2.1 compliant</td>
</tr>
<tr>
<td>Video Input Channels</td>
<td>4 Channels (MAX 8 Channels) *</td>
</tr>
<tr>
<td>Video input type</td>
<td>NTSC/PAL</td>
</tr>
<tr>
<td>Video capture size</td>
<td>320 x 240 (pixels)</td>
</tr>
<tr>
<td>Device Driver</td>
<td>WDM Kernel Streaming Driver</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Pentium III 450 or higher and same level AMD CPU</td>
</tr>
<tr>
<td>OS</td>
<td>Win98SE, WinME, Win2000, WinXP, Win Vista</td>
</tr>
<tr>
<td>VGA Card</td>
<td>All kind of VGA cards that support DirectX 8.1</td>
</tr>
</tbody>
</table>

*Note when the program is operated at first.

① If the screen does not appear after the program is run for the first time, check if the channel type of the desired channel is selected as 'XV400PIC' on the program setting menu. (If a different channel type was selected, change it and shut down the program, then reboot the PC.)

② Ensure whether the corresponding 'Channel' was checked in the pull-down box.

③ In addition, the type of a channel which is not used or has no CCTV input signal should be set as the 'none' or 'Channel Disabled' under the condition of that 'XY400PCI' is selected. Otherwise, the screen speed might be slower and the brightness might be changed.

*XY400PCI 8channel system is consisted of 2 cards of XY400PCI and will require the following specification (or higher) mentioned below
1. CPU : Intel Pentium4 1.7GHz (Celeron and equivalent AMD CPU)
2. Memory : 256MB
3. HDD : 80GB

abic.

If the screen does not appear after the program is run for the first time, check if the channel type of the desired channel is selected as 'XV400PIC' on the program setting menu. (If a different channel type was selected, change it and shut down the program, then reboot the PC.)

bic.

Ensure whether the corresponding 'Channel' was checked in the pull-down box.

c.

In addition, the type of a channel which is not used or has no CCTV input signal should be set as the 'none' or 'Channel Disabled' under the condition of that 'XY400PCI' is selected. Otherwise, the screen speed might be slower and the brightness might be changed.

7) Product Specification

<table>
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</tr>
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<td>Digital Signal Processor</td>
<td>Fusion 878A</td>
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<tr>
<td>Interface</td>
<td>PCI 2.1 compliant</td>
</tr>
<tr>
<td>Video Input Channels</td>
<td>4 Channels (MAX 8 Channels) *</td>
</tr>
<tr>
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<td>NTSC/PAL</td>
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<tr>
<td>Video capture size</td>
<td>320 x 240 (pixels)</td>
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<tr>
<td>Device Driver</td>
<td>WDM Kernel Streaming Driver</td>
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*XY400PCI 8channel system is consisted of 2 cards of XY400PCI and will require the following specification (or higher) mentioned below
1. CPU : Intel Pentium4 1.7GHz (Celeron and equivalent AMD CPU)
2. Memory : 256MB
3. HDD : 80GB

abic.

If the screen does not appear after the program is run for the first time, check if the channel type of the desired channel is selected as 'XV400PIC' on the program setting menu. (If a different channel type was selected, change it and shut down the program, then reboot the PC.)

bic.

Ensure whether the corresponding 'Channel' was checked in the pull-down box.

c.

In addition, the type of a channel which is not used or has no CCTV input signal should be set as the 'none' or 'Channel Disabled' under the condition of that 'XY400PCI' is selected. Otherwise, the screen speed might be slower and the brightness might be changed.

7) Product Specification

<table>
<thead>
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<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Display Frames</td>
<td>120 Frames/Sec</td>
</tr>
<tr>
<td>Recording Frames</td>
<td>120 Frames/Sec</td>
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<tr>
<td>Digital Signal Processor</td>
<td>Fusion 878A</td>
</tr>
<tr>
<td>Interface</td>
<td>PCI 2.1 compliant</td>
</tr>
<tr>
<td>Video Input Channels</td>
<td>4 Channels (MAX 8 Channels) *</td>
</tr>
<tr>
<td>Video input type</td>
<td>NTSC/PAL</td>
</tr>
<tr>
<td>Video capture size</td>
<td>320 x 240 (pixels)</td>
</tr>
<tr>
<td>Device Driver</td>
<td>WDM Kernel Streaming Driver</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Pentium III 450 or higher and same level AMD CPU</td>
</tr>
<tr>
<td>OS</td>
<td>Win98SE, WinME, Win2000, WinXP, Win Vista</td>
</tr>
<tr>
<td>VGA Card</td>
<td>All kind of VGA cards that support DirectX 8.1</td>
</tr>
</tbody>
</table>

*XY400PCI 8channel system is consisted of 2 cards of XY400PCI and will require the following specification (or higher) mentioned below
1. CPU : Intel Pentium4 1.7GHz (Celeron and equivalent AMD CPU)
2. Memory : 256MB
3. HDD : 80GB
B-4. XyView 1channel USB DOME

1) Product Description
This USB Dome camera is designed to maximally simplify how to install and operate the CCTV and its external appearance is the same as general Dome cameras. As USB connection type is adapted to this model, user can install this unit very easily and conveniently. In the point of visual aspects, it has a wide angle of view up to 90 degree and provides high resolution images with the image sensor of 32 million pixels.

2) Product Composition

3) How to install the product
① Turn the dome-shaped cover of the camera to anticlockwise and remove it, then mount the camera to the preferred location with the enclosed screw nails.
② Connect its cable to USB port on PC
③ Insert the installation CD into the CD Rom driver and install the driver of the camera and XyView program(as for the further information, refer to the next section [C-1]
④ With seeing the screen, adjust the camera angle by managing the fixing screw of the angle controller of the camera.
⑤ After having camera’s angle well focused to the direction of a preferred location, turn its dome cover to clockwise, fix it firmly and complete the installation.

4) Typical Connection Diagram between DVR card and Camera
With this unit and cameras, the surveillance system as followings can be constructed. In most cases, the method of the camera connection is the same as the following diagram. However, the connection type can be differed, according to the product. Therefore, use this product after inquiring its sales representative about the detailed information.
5) Device Driver Installation

① Once USB Dome camera have been connected to USB slot under the condition of that PC was turned on, new hardware installation wizard appears with a message box informing 'New hardware was detected. After that, insert the installation CD into the CD Rome drive and the H/W will be installed automatically

② If the message box asking about whether to install the new H/W appear, you should click 'Next' button, then the installation procedure will be progressed. Windows will copy files related with the device into Window System.

6) Installation Confirmation

If the program is correctly installed, the device like follows will be marked on 'My Computer -> Properties -> Hardware -> Device manager'. If the device image is not indicated or an exclamation mark is indicated, remove the device and reinstall it.

7) Product Specification

<table>
<thead>
<tr>
<th>Contents</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>CMOS Type</td>
</tr>
<tr>
<td>Resolution</td>
<td>318,176 Pixels (652x488)</td>
</tr>
<tr>
<td>Effective Resolution</td>
<td>307,200 Pixels (640x480)</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>7.6 x 7.6 um</td>
</tr>
<tr>
<td>Image Area</td>
<td>4.86x3.64mm</td>
</tr>
<tr>
<td>Focal Length</td>
<td>30mm ~ ∞</td>
</tr>
<tr>
<td>Focusing</td>
<td>Manual</td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td>2.5Lux @ f1.4</td>
</tr>
<tr>
<td>Field of View</td>
<td>90 degrees</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>QVGA-60fps / CIF-30fps / VGA-15fps</td>
</tr>
<tr>
<td>S/N Ration</td>
<td>&gt;56dB</td>
</tr>
<tr>
<td>Image Enhancement</td>
<td>Brightness / Contrast / Saturation Control</td>
</tr>
<tr>
<td>Exposure</td>
<td>Automatic</td>
</tr>
<tr>
<td>White Balance</td>
<td>Automatic</td>
</tr>
<tr>
<td>Gamma Correction</td>
<td>0.45</td>
</tr>
<tr>
<td>Interface</td>
<td>Universal Serial Bus (USB 1.1)</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Pentium III 450 or higher and same level AMD CPU</td>
</tr>
<tr>
<td>OS</td>
<td>Win98SE, WinME, Win2000, WinXP, WinVista</td>
</tr>
<tr>
<td>VGA Card</td>
<td>All kind of VGA cards that support DirectX 8.1</td>
</tr>
</tbody>
</table>

*Note when the program is operated at f rst.

① If the screen does not appear after the program is run for the f rst time, check if the channel type of the desired channel is selected as 'XyView USB' in program setting menu. (if a different channel type was selected, change it and shut down the program, then reboot the PC)

② Ensure whether the corresponding 'Channel' was checked in the pull-down box.

③ In addition, the type of a channel which is not used or has no CCTV input signal should be set as the 'none' or 'Channel Disabled' under the condition of that 'XyView USB' is selected. Otherwise, the screen speed might be slower and the brightness might be changed.
B-5. XyView 4CH USB DVR

1) Product Description
An external type of USB 4 channel DVR is a USB interface type of DVR and its device can be installed only by connecting USB cable to PC without detaching the side panel of PC differently from a card type DVR. Therefore, all the people can easily install it. In addition, it can be installed to a special type of computers such as a notebook to which a DVR card can't be connected if PC has a USB port available.

2) Product Composition

3) How to install
① Connect USB cable to USB port on the back side of DVR and the opposite part of the cable to the USB port of PC.
② Insert the enclosed CD into the CD Rom driver and install the camera driver and XyView program (As for the driver installation, refer to last section, [C-1].)

4) Typical Connection Diagram between 4 channel USB DVR and Camera
With this unit and cameras, the surveillance system as followings can be constructed. In the most of case, the method of the camera connection is the same as the following diagram. However, the connection type can be differed, according to the product. Therefore, use this product after inquiring its sales representative about the detailed information.

[Diagram of typical connection between 4 channel USB DVR and Camera]
5) Device driver installation
① If 4Ch USB DVR is connected to a USB slot under the condition of that PC is turned on, ‘New H/W installation Wizard’ will appear with a message box informing ‘New H/W was detected’. Then, insert the enclosed CD into the CD Rom drive and H/W installation procedure will be progressed automatically.
② When a message box asking about whether to install H/W show up, user should click ‘Next’ button to have the H/W installed. Windows will copy files related with the device into ‘Window system’.

6) Installation Confirmation
If the driver was correctly installed, the device like the right picture will be marked on ‘My Computer - > Properties - > Hardware - > Device manager’.

*Note when the program is operated at f rst.
① If the screen does not appear after the program is run for the f rst time, check if the channel type of the desired channel is selected as ‘EZ-UDVR LT’ in the program setting menu. (if a different channel type was selected, change it and shut down the program, then reboot the PC.)
② Ensure whether the corresponding ‘Channel’ was checked in the pull-down box.
③ In addition, the type of a channel which is not used or has no CCTV input signal should be set as the ‘none’ or ‘Channel Disabled’ under the condition of that ‘EZ-UDVR LT’ is selected. Otherwise, the screen speed might be slower and the brightness might be changed.

7) Product Specification
<table>
<thead>
<tr>
<th>Contents</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Frames</td>
<td>30 Frames/Sec</td>
</tr>
<tr>
<td>Recording Frames</td>
<td>30 Frames/Sec</td>
</tr>
<tr>
<td>Digital Signal Processor</td>
<td>USB Video Decoder</td>
</tr>
<tr>
<td>Interface</td>
<td>USB 1.1</td>
</tr>
<tr>
<td>Video Input Channels</td>
<td>4 Channels</td>
</tr>
<tr>
<td>Video Input Type</td>
<td>NTSC/PAL</td>
</tr>
<tr>
<td>Video Capture Size</td>
<td>320 x 240 (pixels)</td>
</tr>
<tr>
<td>Device Driver</td>
<td>WDM Kernel Streaming Driver</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Pentium 4 higher and same level AMD CPU</td>
</tr>
<tr>
<td>OS</td>
<td>Win2000, WinXP, Win Vista</td>
</tr>
<tr>
<td>VGA Card</td>
<td>All kind of VGA cards that support DirectX 8.1</td>
</tr>
</tbody>
</table>
C. XyView Program

It explains about how to install or delete the S/W of XyView program. As each package's specification of H/W is different, install an appropriate H/W device driver matched with each package. The method of the installation of XyView is same with the installation procedure in the Windows 98SE, ME, 2000 and XP. The description of this manual is on the basis of Windows XP.

C - 1. Installing XyView Program

1) How to install

① Insertion of program CD: Once user has inserted the installation CD into the tray, the screen like left image shows up. Then, click 'Install' located on the center of the image. (if it is not installed automatically, run 'Launch.exe' file by selecting of Windows Desktop -> My Computer -> CD Driver)

② Language Selection: Select a desired language and click on the 'Confirm' button.

③ Input Product Number: Enter 'Product Key' indicated on a sticker attached to the enclosed CD case and click 'Confirmation' button.

④ Click 'Yes' button on the message box asking about whether to accept 'Product Agreement'.

⑤ If user designates the location to install the program and clicks 'Next' button, the program installation will be completed.

C - 2. Running XyView Program

1) How to operate

① Click on XyView icon on the Windows Desktop or run XyView program by selecting of 'Start -> All programs -> XySystem -> XyView'.

② Once XyView program has been operated, it will check the latest version of files and automatically update them. If PC can't access to the internet, that function doesn't work then the program will run 5 second later.

③ If 'Enable Video Share' on the top left of the 'Share' menu is checked, a message box for login will show up like the right picture. If user enters the previously registered ID and password into it, the DVR program will start up. For more details on the video sharing, refer to the video sharing menu.

④ If the program starts up, the video images of cameras appear. If the screen don't appear under the cameras are connected, change the corresponding device on the channel menu. For more details on the video sharing, refer to the video sharing menu.
C - 3. Shutting down XyView Program

1) How to shut down the program

① Shut down XyView program by clicking on the ‘X’ button on the bottom right of the screen.
② When shutting down XyView program, a warning message informing ‘its video recording will be stopped’ appear. If you want to stop recording, click on ‘x’ button on the bottom right of the control panel. If you want to continuously record, click the ‘Cancel’ button. (In case that the recording function was not activated, this message will not show up.

C - 4. Deleting XyView Program

1) How to delete the program

There are two ways to remove XyView program
① click of ‘Start -> All program -> XyView -> Uninstall’
② click of ‘Control Panel -> Add/Remove program’
* Even though the program is removed, the recorded data will not be removed.

C - 5. Preview

‘Preview’ menu can be mentioned as ‘Monitoring’ or ‘Live’ and means viewing the video images before system records the signals inputted from the installed cameras.
Recording Mode
Indicates the recording status. While the recording is activated, the black-colored icon is flickered. Recording function can be selected on 'Setup' menu.

Video Sharing mode
Indicates the video sharing status. When the black color button is activated, user can view his own DVR from a remote site. This function can be selected on the 'Share' menu. User should first register user's own DVR name before using it.

Name of DVR
Used for identifying user's own ID on the internet at an offsite. It can be registered through the sharing wizard on the sharing menu. When the Video sharing function is activated, the blue color name of DVR is marked on the bottom left of the 'Preview' menu.

Channel Information
Marks the name of the device, the number of current frames and the recording status on the screen.

Name of Device
Marks the name of device which is showing a currently-selected channel. It is displayed on the bottom left of the screen.

Motion Box
In case that motion events are detected, the red color boxes will marks the movements detected by a camera.

Designation of Motion Detection Area
Used for designating the motion detection area. If user wants to designate the motion detection area, push F5 key(or 'Area' button).designate the detection area, push either [Area Designation] or F5 key over again. To cancel the previously set detection area, click right button of the mouse on the corresponding channel.

Channel Selection
When choosing a channel, push the corresponding channel number. The selected channel will be indicated by black color.

Color Adjustment
Allows the brightness, Contrast, Saturation and Hue of the selected channel to be adjusted.

Screen Reversal
Enables the screen of a selected channel to be turned to the four directions.

Screen Extension
Allow the screen to be extended to a large view.

Fixing Screen
Have the program always viewed on the top of others browsers.

Snapshot
Allows the video images of the selected channel to be saved by still images such as BMP or JPG format.

Recording Status Indicator
When the recoding function of the current channel is enabled, the red point is flickered.

Marking Recording Function
When the function for the motion detection recording is enabled, the black color mark will be flickered.

Remote monitoring Indicator
When the current channel is being shared, it will be flickered.

The number of the Frame
The number of the frame of the current channel is indicated on the bottom of the screen.

Motion Box
When 'Motion Box' is checked and motion events are detected by a camera, red color boxes will mark the movements detected by a camera.

Name of device
Indicates the name of the device which is showing live video images to the currently-selected channel.

Watermark
Used to prevent the video manipulation. Either of 'Current time' or 'XyView' can be selected as a mark.
C-6. Playback

This is to explain how to play back the recorded data. The ‘Playback’ menu is to view the previously recorded data and provides the various playback methods. The prerecorded video data can be searched by ‘Search’ menu. While recording the events, the recording function will not be suspended.

- **Playback control button**
  Allows user to view the prerecorded video data with the Play and Stop button.

- **Playback bar**
  Slide Bar: used for controlling the playback frame.
  [When the motion detection recording and full-time recording are paralleled at a time, the bar will move on the basis of a channel having the bigger frames because the number of each channel's frames is different] ‘Per file’ – is saved on a basis of 1,000 frames. In case of 7.5 fps, it will be recorded for 2~3 minute.

- **Playback speed controller**
  The function for controlling the playback speed (1/2, 1, 4, 16x playback speed)
  [If a MPEG4 streaming code is used, the playing functions for both the reverse and forward do not work.]

- **Continuous Playback**
  It is a function to have prerecorded video files sequentially played back. After a recorded file that is currently being played is ended, its next files will be played automatically and sequentially.

- **Channel Selection**
  It is a function to select a channel which user wants to playback. Only a selected channel will be played back.

- **Playback time selection**
  It is a function to select a recorded video file with a specific time and date. Once a file has been selected, the first image of the selected video file will be shown on the screen. Then, click the selected file and it will be played back.

- **File information**
  The information of the file that is currently being played back is indicated on the bottom right of the Playback menu. The Start and End time for the prerecorded data as well as the file size of the recorded data are included.

- **Screen recording/printing**
  This function enables the images of the current video file to be saved as a JPG/BMP format or to be printed.
User can call ‘Precision searcher’ named Image Searcher/Converter to precisely search the pre-recorded video files and store them. Using this function make it possible to convert the searched files into the AVI file format to be played back by general media players.

Playback time
The date, time and hour of the selected recorded file are indicated and inputted on a basis of computer time setting.

Channel Number/Frame
The channel number and the order of the frame are displayed on the bottom left of the screen. "01" means No channel 1, "00000105" means the 105th frame of the corresponding file.

Water mark
This mark is used for preventing the manipulation of the video image. User can choose either ‘current time’ or ‘XyView’ mark on the Setup menu.

Motion detection Indication
When the motion detection function was activated and motions were detected, the number of ‘Moving Box’ is indicated on the top right of the screen.

C - 7. Setup
The Setup menu provides the basic functions and various options of the DVR.
1) Setting Preview function
 ⓞ Using ‘Preview’ mode
 It is a function to configure whether to display the video in the Preview screen.
 ⓟ Preview speed
 It is a function to configure the frame speed of the video in the Preview screen.
 ⓠ Direct draw
 The Preview speed can be increased by using this function. It may not be applied according to VGA. Only when the color quality of display screen is 24bit or higher, this function can be activated. When this function is used, the possession rate of CPU is decreased and the icons channel and information of the Preview screen can be more frequently flickered.
 ⓢ Automatic screen switching in case of the full screen mode
 When user operates more than 2 channels and views only one in a full screen mode, user can have each screen switched and rotated automatically and sequentially.

2) Screen display setting
 ⓜ Split screen
 According to the configuration of each screen display, the Preview screen has several available split options (the choices are in 2, 3, 4 split screens).
 ⓜ Independent Control Mode in case of the full screen mode
 When the screen is set to the full screen mode, the control panel can be hidden or shown.

3) Recording setting
 ⓝ Video recording enabled
 It is to configure whether to use the video recording function of the entire channel or not. When user doesn’t want to record video events of the entire channel, user can reset the configuration of each channel on the Channel menu.
 ⓝ Folder change
 It is to designate a storage location on hard disk to save video images. The storage location and available hard disk space is displayed on the left of this button.
 ⓝ Removing all the recorded data
 It is to clear all the date that was recorded until now. As the recorded data cleared by this function can’t be recovered, user is recommended to save all the important data before executing this function.
 ⓞ Recording time setting.
 When user wants to run the recording function only during the desired time, user can configure the time setting by the hour when user wants.
 ⓞ Compressed codec
 In order to save video images, user can call the message box that is used to change the compressed codec.
 ⓞ Saving time of the recorded data
 It is to configure how the many days the recorded date will be saved. By default, the recorded data will be saved for 5 days. The program will clear a video file and its folder that passed the designated time period at every midnight or when the program starts. As the program will not give any alert message when clearing the files, user is recommended to save the important video files separately before.
 ⓨ Rate of motion detection
 It is to control the sensitivity rate of motions when the motion detection function is enabled. Its sensitivity rate is divided into three levels; High (90%), Middle (75%), and Low (60%).
 ⓨ Alarm when the video recording function runs.
 Each channel will beep when the video recording starts; Recording.wav. When the motion detection function is enabled, if the rate of the motion detection occurs as much as the preset motion rate value, the beep message may be made.
 ⓩ Alarm when the video recording function runs.
 Each channel will beep when the video recording starts; Recording.wav. If the rate of the motion detection occurs as much as the preset motion rate value under the condition that the motion detection function was enabled, the beep message may be made. When user changes the beep sound, the current sound can be changed with a new sound if user replaces the ‘Recording.wav’ with another file in the [XyView1.5] folder.
① “Do not save empty file when motion recording” (when the motion detection recording function is enabled). Once the motion detection function has been executed, XyView program will save a small-sized file including the information of whether motion events have been detected or not. If this function is selected, the program will not save a file having no movement.

4) Program Starting Mode Configuration
ⓐ Automatic run when Windows starts
   If this function is selected, XyView will automatically run when Windows starts.
ⓑ When the program starts
   It is used to select the starting screen mode after XyView program is executed. There are three kinds of options; Normal screen mode (default), full screen mode and iconic screen.

5) Other Configuration
ⓐ Security Configuration
   It is to protect user's own DVR system against other people using the registration of ID and Password.
ⓑ Automatic software Update
   When XyView program starts, it will automatically update the latest software. [To use this feature, PC should be accessed to the Internet.]
ⓒ Water Mark
   It is a mark which is used for preventing video image counterfeiting and user can select either of ‘Current Time’ or ‘Xy View’ as its mark.

C - 8. Channel

With using the ‘Channel’ menu, user can configure the device type and the recording status of each channel and the screen effect.
1) Channel

ⓐ Channel 1 ~ 8
XyView are composed of up to 8 channels from 1 ~ 8-channel and each check-box must be selected if user want to view live video image in 'Preview' mode. If the program is run for the first time, only No channel 1 will be viewed. If user wants to use other channels, check the box of the desired channels. In case of the unselected channels, the Preview, Recording and Video sharing functions are stopped.

ⓑ Video/Audio Device
The video and audio devices that are used to each channel are indicated. When XyView runs, it automatically senses the video capture device, remote DVR, remote background screen and arrange them by channel. In case that each device is not indicated, it means that it was installed incorrectly. In such case, user should reinstall the corresponding device.

ⓒ Video/Audio Recording
After setting video recording, user select each channel's audio and video recording separately. This function can be used when each channel is activated. The available audio device should be equipped with PC to record audio. It will be enabled only when the recording function runs.

ⓓ Motion Detection Recording
If this function is selected, the program will record video images only when motion events occur. It is not related with audio function.

ⓔ Channel Property
By clicking on the 'Change' button, user can change each channel's properties. The widow of the property of each channel is different according to H/W manufacturer or OEM DLL(the channel support SDK of XyView standard screen interface).

ⓕ Channel Type
Each channel of XyView has the property named 'Channel Type'. The channel type which is currently used is as follows.

- (none) the channel that is not used.
- (Video Capture) the channel that is used with normal USB cameras
- (Remote DVR) the channel that have a remote DVR connected to a virtual DVR.
- (Standard Channel) the channel that use 'XyView standard interface'. It is used with XyVision400PCI.

2) Channel Property
The channel property is indicated when user right clicks on the screen of the corresponding channel or click [Change] button.

ⓐ Xy400PCI Channel properties
In case of PCI device, video signal type can be configured like the right figure.

ⓑ Remote DVR property
When the channel property is used by a remote DVR, the remotely pre-shared DVR screen can be viewed if remote PC can access to the Internet.

ⓒ USB Dome channel property
In case of USB dome camera, the function and option of camera can be config gured.
In case of other USB, a window different from the right figure will show up.
3) Channel Effect
The screen effect is a method that gives an effect on the character or image and so increases the ability of delivering information. It can optionally be applied to Preview, Recording, Web-Monitoring and etc. and can give an individual effect on each channel.

ⓐ Character Display Effect
Less than 80 characters of various types of size, color, font and etc. can be inserted into it. In addition, if user inputs a character to %ConnectionInfo%, the number of people accessed to it and its channels are displayed.

ⓑ Insert Image Effect
Allow user to insert an image on the screen and displays it with a 24 bit BMP format file. The maximum size of the picture is the 160 x 120 and white color is represented transparently.

- As this function carries out an operation task of the screen image at real time high speed, the minimum requirements of PC is as follow. CPU: Pentium4 Celeron 1.7M / Memory: 128M / Recommended Specification: Pentium4 2.4M / Memory: 256M.
- The screen effect is applied to 'Preview' and can optionally be applied to 'Recording', 'Web-monitoring'. If user selects the screen effect function and the 'screen effect setup' button is activated, just change the effect of each channel and entire channel.

C - 9. Share
'Sharing' function allows user to view the video channels over the Internet by using TCP/IP which XyView program operate. The shared channel can be monitored through the Internet Explorer and can be protected by each user's password. Moreover, the shared channels can be saved through a remote DVR.

*In order to use this Sharing function, PC should be connected to the internet.
C - 10. XyView Video Sharing and Web Monitoring

The web monitoring service of XyView program enables user to view the real-time video images over the web browser not only at the location where DVR was installed, but also at any remote sites all over the world without additional programs if PC can be connected to the internet.

1) DVR Name Registration
To use the Web monitoring service, user should complete the procedures of registering the name of DVR. Refer to the following registration procedure.

① Move to 'Share' menu of XyView program
② Click [DVR Name registration] button
③ If a dialog box like the right figure appears, after entering the DVR name, click on [duplication confirmation] button and check the entered name is available. Then, input a possible name, password and email address.
④ Input a product marked on a CD case.
⑤ If clicking on 'Registration' button, a message informing that the registration procedure is completed will pops up.

2) Sharing Video and DVR Login
① If the DVR name is correctly registered, user should execute the video sharing function, using the pre-registered DVR name to operate 'Web monitoring service'. To share video images, click on 'Web monitoring enabled' button on 'Share' menu of the program. Then, a dialog box will appear. If user enters the registered DVR name and password, the function will be activated.
② If the DVR name is correctly registered, the information about the connection type like following figure will indicated on the window of the 'connection record' and each channel's sharing buttons will be activated.
3) Viewing DVR screen over the Internet
If all the prior procedures were correctly completed, user can view DVR screen over the Internet. How to view 'Web monitoring' is as follows.
① Open a web browser and access to XyView Homepage, www.xysystem.com
② If clicking on 'My Video Service', the following window will show up. If user tries to connect for the first time, a dialog box informing 'ActiveX Installation' will pop up according to the Windows environment, then click Installation button and install the program.
③ If a dialog box of DVR login appears, enter the name and the password of DVR system to login to the system.
If the video sharing of the desired DVR was connected, the DVR screen will appear. If the DVR screen is turned off or the video images can not be shared, the screen like below will not appear.

4) XyView Remote View
① Change the type of the channel that user wants to view at a remote site to the RemoteDVR on the program channel menu.
② Right click on the screen of the channel which type is set to 'Using RemoteDVR channel' in Preview Menu and select the Channel Properties.
③ In the dialog box of channel property of the remote DVR, check 'Using RemoteDVR channel' and enter the DVR name and its password for the remote view. Finally, select the remote DVR channel and click on the 'Confirmation' button.

5) Show the DVR Video on the Homepage.
XyView DVR have extended the functional ability of the remote view via Internet and make it possible to have the DVR video images viewed on the general Homepage. As this function was implemented by using the function of Microsoft ActiveX, user should install 'ActiveX' control to correctly view the video images. This ActiveX control was officially confirmed by XySystem Inc. and is safe.

To insert the DVR video images into the Homepage, the following HTML page should be inputted.

```html
<object classid="CLSID:FB1EB21A-DB72-49E2-A0AA-B8C7AF0C4D9C" width="320" height="240"
  id="ViewX"
  CODEBASE="http://www.xysystem.com/XyViewRemoteSetup/ViewX.cab#Version=1,0,0,4">
  <param name="Title" value="XyView-ActiveX">
  <param name="NumberOfChannels" value="1">
  <param name="LoginMode" value="3">
  <param name="SkinMode" value="1">
  <param name="Channel0" value="xysystem,0,12345">
  <param name="DisplayWidth" value="320">
  <param name="DisplayHeight" value="240">
</object>
```

- Change the DVR Name, Channel Number and Password in the part of `<param name='Channel0' value='xysystem,1,12345'>`. Do not change other parts.
- As a note, each channel's number starts from '0' and only one ActiveX can be inserted on each HTML page.
- If the DVR channel is displayed in the Internet, a concern over that the password can be exposed may be occurred. User is recommended to use the easy ID and Password to be opened.
6. Personal Information Protection
Xy System will not leak customer’s personal information without the permission of user. However, IP number can be exposed by a third party.

7. Distribution
XyView package is generally distributed by sales representatives who comply with a sales policy of Xy System. XyView is protected by copyright law and all rights are reserved by Xy System. Programs included with the device are under copyright protection.

8. Copyright
① XyView program has a protection by the domestic copyright law and international agreement. The copy or partial reproduction and distribution of this program are strongly prohibited by copyright laws.
② No part of XyView may be reproduced, distributed, or translated into other languages in whole or in part, without written permission from Xy System.
③ In case that user does infringe copyright by an act of clause ② and it brings about the damage to Xy System, Xy System will charge the user with all the liabilities of Civil and Criminal Law

9. Place of Jurisdiction/Applicable Law
The EULA and its implementation shall be construed and interpreted in accordance with South Korean Law and be subjected to the exclusive jurisdiction of the Courts of Seoul, Korea.

10. Effective Date
This EULA is made and entered into this 01th day of December 10, 2007.

Xy System Inc.