Empowering Megapixer

# M300 Series Series

Genius Vision Digita

GVD HD NVR Software Quick Installation Guide

**GENIUS VISION DIGITAL** 

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## **Hardware Requirement**

Recording data is one of the most important part in security industry and hard disk would be one of the most important component if users want to have their recording data safely stored.

It is always recommended to use the hard disk model that GVD certifies, user can find the updated list from the URL below :

http://www.gvdigital.com/document/Support\_Lists/GVD\_Certified\_HDD\_List.pdf

## **Standard NVR Hardware Requirement**

## Standard NVR HW Spec requirement: (for CIF/D1 IP Camera)

- CPU: Pentium Intel Dual Core E7400 2.8GHz or above.
- RAM: 2GB.
- Operation System: Windows XP professional SP2/SP3 or Vista(32Bit).
- Display: nVidia chipset which support DirectX3D.
- Minimum resolution: 1280x1024, but 1680x1050 is recommended.
- Storage: Need two physical Hard Disks at least. One is for operation system, the other one is for storage. The storage hard drive will be erased before using for recording.
- Windows Component: Message Queue (you will need to have Windows XP/Vista CD-ROM to install this component).

You can add or seriove components of Windows XP.	Message Queuing
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.	To add or smoore a component, clock the check box A studied tax means that only po of the component will be initialed. To see what included in a component, clock Detail Subcomponent of Message Duruing Component of Message Duruing Component of Component of Component of Component O Component of Component of Component of Component O Component of Component of Component of Component O Component of Component of Component of Component of Component O Component of Component of Component of Component of Component O Component of Component of Component of Component of Component of Component O Component of Co
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\* Please refer to page 9 for Windows Vista Configuration.

## **High-end NVR Hardware Requirement**

## High-end NVR HW Spec requirement: (for Megapixel Camera)

- CPU: Pentium Intel Core2 Quad Q9400 2.6GHz or above.
- RAM: 4GB.
- Operation System: Windows XP professional SP2/SP3 or Vista(32Bit).
- Display: nVidia Geforce 9500 Display Card or above.
- Minimum resolution: 1280x1024, but 1680x1050 is recommended.
- Storage: Need two physical Hard Disks at least. One is for operation system, the other one is for storage. The storage hard drive will be erased before using for recording.
- Windows Component: Message Queue (you will need to have Windows XP/Vista CD-ROM to install this component).



\* Please refer to page 9 for Windows Vista Configuration.

## Web Client Hardware Requirement

## High-end NVR HW Spec requirement: (for Megapixel Camera)

- CPU : Intel Core2 Duo or above.
- RAM : DDR2-800 4G.
- Operation System : Windows XP Pro SP2/SP3, Vista(32 Bits), Windows 7 (32/64 Bits).
- Display : nVidia chipset which support DirectX3D.
- Minimum resolution : 1280x1024, but 1680x1050 is recommended.
- Browser : Internet Explorer 7 or 8
- Windows Component: Message Queue (you will need to have Windows XP/Vista CD-ROM to install this component).



\* Please refer to page 9 for Windows Vista Configuration.

## **Recording HDDs Initialize Procedures**

## The newly added Hard Disks need to be initialized before volume creation

- Log on to Windows<sup>®</sup>.
- 2 Right click "My Computer" icon on desktop.
- 3 Select the "Manage" option.
- Select the item "Disk Management" under "Storage" node for initializing the newly added HDDs.

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NonInitialized		
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- 5 Right click on "Non Initialized" HDDs then select the "Initialize Disk".
- 6 User can check all checkboxes for the HDDs want to initialize then press "Ok".
- 7 All HDDs will become "Online" status.

Initialize Disk	0.6
Telect one or more dails to estudion	
Disks	
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12 Duk 2	
12 Dia 3	
HZ Dub 4	
IR Dia 5	
15 Dive E	
R Dik 7	
P Diak 8	
	OK Cancel





## Windows Vista Configuration

Please do the following setup if you are using Windows Vista.



Click the Start button  $\square \rightarrow$  Control Panel, and then open Performance Information and Tools.











## **Network Setup**

- 1 Go to 'Start ► Control Panel ► Network'.
- 2 Right mouse click the active connection icon and select 'Properties' from the pop-up menu.

3 Select 'Internet Protocol (TCP/IP) and then press 'Properties'.

In the 'General' tab, set the preferred IP address and the subnet mask and then press 'OK'.

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this capability. Otherwise, you ne the appropriate IP settings.	automatically in your network administrator for
🔘 Obtain an IP address auton	natically
── Use the following IP address	
IP address:	192.168.0.12
Subnet mask:	255.255.255.0
Default gateway:	
O Obtain DNS server address	automatically
🔞 Use the following DNS serv	ver addresses:
Preferred DNS server:	
Alternate DNS server:	
	Advanced
	Advanced

\*Before conducting the network configuration, please make sure the network environment is ready. If the network is not available, contact your network administrator for further help.

## **Software Installation**

- In the installation CD, find the HD NVR Manager's setup program in the setup category. Double click the setup program.
  - The setup wizard starts. Click 'Next'.



A license agreement dialog appears. Check 'I accept the terms in the License Agreement' and click 'Next'.



# Software Installation (cont'd)

The setup program lists the minimum hardware requirement. Click 'Next' when all hardware requirements are met.



To run the system properly, an addition Windows® component, 'Message Queuing', is required. Click 'Next' when MSMQ is installed.

he software requirement lists as following.	
Rese install "Message Queung 3.0" first.	0
installation Procedure As Following:	
L. Open "Control Panel".	
2. Click [Add/Remove Programs] and then click [Add/Remove Windows Components].	
3. Select "Message Queuing" and click Details.	
a. Ensure that all options including "MSHQ HTTP Support" are selected on the details	8
take sure your computer meets the software requirements , if so , press Next to contrastal progressing.	in a

\*'Message Queuing' setup program is in the Windows® Setup disc. Without installing 'Message Queuing' application, the system will not run normally.

# Software Installation (cont'd)

6 Select the installed device and click 'Install'. The setup program automatically creates a 'GVD' directory in the selected drive.



The setup program will automatically display the progress and install the following applications: Windows Installer 3.1, Virtual C++ (VC80), and .Net Framework if the applications have not been installed.

Installing Please wait while GVD HD NVR 2.4 is bein	g installed.	
Extract: CSLRe.exe 100%		
wynght (C) 2003–2012 Genus Vision Digt	Gil Co., Ltd. (1855//www.gvdigt.a	l.mn/



## **License Activation**

## **Dongle Key**

Please make sure the dongle key is plugged into a USB 2.0 port before HD NVR starts. Otherwise, the screen will show the following dialog:



To dismiss the dialog, you should:

- Plug in the Dongle key.
- 2 Click 'OK' to re-detect the dongle key.
- 3 Reboot the system if the dongle is still not detectable.

## **Create Volume for Recording**

- In Windows<sup>®</sup> desktop, double click the SCM program icon ( ).
- 2 Input default username **Admin** and password **6001** to login.
- In the SCM program, press the 'New Volume' button in the left panel.
- Input the name of the volume in the 'Volume Name' field.
- Select the preferred hard disk(s) from the available hard disk list. Click (add) button to add the selected hard disk(s) to the list of 'Hard Disk in Volume'.
- Press 'Add to List' button to add the volume into queue for formatting.
- 7 Press 'Create' to continue.
- The system shows a confirmation message 'Create Volume will reallocate your hard disk and you will lose current data on the disk. Are you sure to keep doing these jobs?' Press 'Yes' to continue.





# Add Camera Automatically (cont'd)

5 Select 'Auto Discovery' and the dialog appears as shown below.

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6 Click the 'Vendor' dropdown box and select the preferred vendor name from the drop-down list then pressing 'Search' to continue.

Input username and password of the vendor camera.

- The system automatically searches all selected vendor's connected IP cameras in the network. The searching result will be listed in the channel table.
- 9 Select the cameras to be installed and click 'Import' button.
- The selected channel will be added to the system. A 'Configuration page' shows for changing the setting of the cameras.

\*Some cameras may not be added automatically. Refer to the details in the HD NVR user manual about adding a camera manually.



# **Setup Motion Recording** Motion Recording by Using Simple Alarm Go to Configuration Mode **Configuration Mode** Select the camera that you want to setup for motion recording then click the modify button. Device In camera's Configuration Page, select Motion tab to enable motion detection of the camera and adjust detection sensitivity to the desired level. \*Different camera has different naming and ways to setup motion detection. Software Quick Installation Guide 21

4	Select Recording Settings tab and disable camera's recording.
	Cologadan Nop 4
	Concession Wood Image Additionant Manage Recenting Series     Famous Storage     Famous Storage
	Storage Values Internation
	10 Size Salar 10 Size Salar
	Channel Recorder Chais Uned Size Percentage  Channel 201108/05 19:56 44 - 201108/25 19:57 44 00:00 bytes 8:00 %
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	Recording Schedule Settings
5	Select Alarm tab to enable recording only when there is motion detected.
	Configuration Page
	Connection Video Image Adjustment Motion Recording Setting Alam 5
	Video Lost Alarm: Motion On Alarm:
	Use as Alarm
	Record
6	Click OK button to finish setup.

## **Trouble Shooting FAQ**

## Why HD NVR software cannot be installed successfully?

 It will not be installed due to newer version of HD NVR installed or un-installation of HD NVR was not removed cleanly.

## Why MSMQ component cannot be installed successfully?

• Please use the installation CD of Windows to install all the MSMQ components again.

# Why cannot find any hard disk from the available hard disk list when creating volume?

• System need to have an extra hard disk other than the OS one so that SCM software can recognize the non-system hard disk drive and use it for recording.

#### Why cannot format hard disk successfully when creating volume?

- The hard disk might be broken that you must replace it with a new hard disk and try to create the volume again.
- When the file system of OS is FAT32 and HD NVR is installed in the same drive as OS then the create volume procedures will always fail. User must convert the file system of OS to NTFS or install HD NVR in another partition other than the OS partition then try to create volume again.

## Why cannot find any camera using Auto Discovery method?

- The IP address of camera does not have the same subnet with HD NVR (Ethernet card).
- The camera may not be supported by HD NVR, please check the supported cameras list at GVD website "http://www.gvdigital.com/support\_device.html" .

# Troubleshooting FAQ (cont'd)

# Why the system IP address information of NVR manager screen shows "0.0.0.0"?

- There are two network interface cards in the system but HD NVR always uses the newly added card by default. Disable one of the card and change IP setting if necessary then restart the HD NVR service and HD NVR Manager software.
- The network interface of NVR has not been connect to network switch yet. Please connect the network interface cable to network switch then restart the HD NVR service and HD NVR Manager software.

## Why do I see D3D not support message?

- Graphic card does not support 3D.
- Graphic card's 3D capability is not powerful enough.
- User remote control the computer using software which does not support 3D, ex. Windows Remote Desktop. Using remote control software which support 3D, ex. WinVNC.

## Why show Init GVNP client failed at startup?

It means there's something wrong with the network.
 Check your network interface card is configured correctly and the network wire is plugged.

# Troubleshooting FAQ (cont'd)

#### Why can't get video after adding camera?

- The possible root cause might be:
  - Wrong user name and password
  - 2 Wrong IP address
  - Firewall or Anti-Virus software blocks the communication port required on camera (ex: 554 for Axis)
  - 4 Network wire or power cable unplug
  - 5 Total camera bandwidth is over network bandwidth.

#### How to install the Anti-Virus software for GVD HD NVR?

 Since HD NVR writes enormous amount of data to recording hard drives, if antivirus software scan those hard drives at the same time, it will seriously degraded the system performance and even cause the system to crash and video data loss.

For those reasons, user must setup antivirus software not to scan the recording hard drives to avoid degraded performance of the system.

HD NVR and cameras use port 80 as their transmission protocol, and the port was scanned by Anti-Virus software as well. User must configure Anti-Virus software not to scan the port or disable the HTTP checking function to avoid some Anti-Virus software from creating enormous data files.