NVIDIA RAID Installation Guide

1.	NVIDIA BIOS RAID Installation Guide 2						
	1.1 Introdu	ction to RAID2					
	1.2 RAID (Configurations Precautions 3					
		ng Windows 2000 / XP / XP 64-bit / Vista / 4-bit With RAID Functions5					
	1.3.1	Installing Windows 2000 / XP / XP 64-bit With RAID Functions5					
	1.3.2	Installing Windows Vista / Vista 64-bit With RAID Functions7					
	1.4 Create	Disk Array 8					
2.	NVIDIA Wi	ndows RAID Installation Guide11					
		A Windows RAID Installation Guide for Windows XP / XP 64-bit Users11					
		A Windows RAID Installation Guide for Windows Vista 64-bit Users					

1. NVIDIA BIOS RAID Installation Guide

NVIDIA BIOS RAID Installation Guide is an instruction for you to configure RAID functions by using NVIDIA RAID Utility under BIOS environment. After you make a SATA / SATAII driver diskette, press <F2> to enter BIOS setup to set the option to RAID mode by following the detailed instruction of the "User Manual" in our support CD or "Quick Installation Guide", you can start to use NVIDIA RAID Utility to configure RAID.

This section includes examples of using NVRAID RAID Utility for creating RAID arrays. If your motherboard is equipped with two SATA / SATAII ports, you may choose to use RAID 0, RAID 1, or JBOD function with your motherboard. If your motherboard is equipped with four SATA / SATAII ports, you may choose to use RAID 0, RAID 1, RAID 0+1, JBOD, or RAID 5 function with your motherboard according to the SATA / SATAII HDDs amount you install. Please refer to the RAID functions your motherboard provides in advance and follow the instruction in this section to create RAID arrays.

1.1 Introduction to RAID

The term "RAID" stands for "Redundant Array of Independent Disks", which is a method combining two or more hard disk drives into one logical unit. For optimal performance, please install identical drives of the same model and capacity when creating a RAID set.

RAID 0 (Data Striping)

RAID 0 is called data striping that optimizes two identical hard disk drives to read and write data in parallel, interleaved stacks. It will improve data access and storage since it will double the data transfer rate of a single disk alone while the two hard disks perform the same work as a single drive but at a sustained data transfer rate.

WARNING!!

Although RAID 0 function can improve the access performance, it does not provide any fault tolerance. Hot-Plug any HDDs of the RAID 0 Disk will cause data damage or data loss.

RAID 1 (Data Mirroring)

RAID 1 is called data mirroring that copies and maintains an identical image of data from one drive to a second drive. It provides data protection and increases fault tolerance to the entire system since the disk array management software will direct all applications to the surviving drive as it contains a complete copy of the data in the other drive if one drive fails.

RAID 0+1 (Stripe Mirroring)

RAID 0 drives can be mirrored using RAID 1 techniques, resulting in a RAID 0+1 solution for improved performance plus resiliency. The controller combines the performance of data striping (RAID 0) and the fault tolerance of disk mirroring (RAID 1). Data is striped across multiple drives and duplicated on another set of drives.

JBOD (Spanning)

A spanning disk array is equal to the sum of all drives. Spanning stores data onto a drive until it is full then proceeds to store files onto the next drive in the array. When any member disk fails, it will affect the entire array. JBOD is not really a RAID, and it does not support fault tolerance.

RAID 5

RAID 5 stripes both data and parity information across three or more hard disk drives. Among the advantages of RAID 5configuration include better HDD performance, fault tolerance, and higher storage capacity. The RAID 5 configuration is best suited for transaction processing, relational database applications, enterprise resource planning, and other business systems. Use a minimum of three identical hard disk drives for this setup.

1.2 RAID Configurations Precautions

- Please use two new drives if you are creating a RAID 0 (striping) array for performance. It is recommended to use two SATA drives of the same size. If you use two drives of different sizes, the smaller capacity hard disk will be the base storage size for each drive. For example, if one hard disk has an 80GB storage capacity and the other hard disk has 60GB, the maximum storage capacity for the 80GB-drive becomes 60GB, and the total storage capacity for this RAID 0 set is 120GB.
- 2. You may use two new drives, or use an existing drive and a new drive to create a RAID 1 (mirroring) array for data protection (the new drive must be of the same size or larger than the existing drive). If you use two drives of different sizes, the smaller capacity hard disk will be the base storage size. For example, if one hard disk has an 80GB storage capacity and the other hard disk has 60GB, the maximum storage capacity for the RAID 1 set is 60GB.

Please verify the status of your hard disks before you set up your new RAID array.

WARNING!!

3.

Please backup your data first before you create RAID functions. In the process you create RAID, the system will ask if you want to "Clear Disk Data" or not. It is recommended to select "Yes", and then your future data building will operate under a clean environment.

1.3 Installing Windows[®] 2000 / XP / XP 64-bit / Vista[™] / Vista[™] 64-bit With RAID Functions

If you want to install Windows[®] 2000, Windows[®] XP, Windows[®] XP 64-bit, Windows[®] Vista[™] or Windows[®] Vista[™] 64-bit on your SATA / SATAII HDDs with RAID functions, please follow below procedures according to the OS you install.



Before installing Windows[®] 2000 to your system, your Windows[®] 2000 optical disk is supposed to include SP4. If there is no SP4 included in your disk, please visit the below website for proper procedures of making a SP4 disk: <u>http://www.microsoft.com/Windows2000/downloads/servicepacks/sp4/spdeploy.</u> <u>htm#the_integrated_installation_fmay</u>

1.3.1 Installing Windows[®] 2000 / XP / XP 64-bit With RAID Functions

If you want to install Windows[®] 2000 / Windows[®] XP / Windows[®] XP 64-bit on your SATA / SATAII HDDs with RAID functions, please follow below steps.

STEP 1: Set Up BIOS.

- A. Enter BIOS SETUP UTILITY \rightarrow Advanced screen \rightarrow IDE Configuration.
- B. Set the "SATA Operation Mode" option to [IDE].

STEP 2: Make a SATA / SATAII driver diskette.

- Insert the ASRock Support CD into your optical drive to boot your system.
 (There are two ASRock Support CD in the motherboard gift box pack, please choose the one for Windows[®] 2000 / XP / XP 64-bit.)
- B. During POST at the beginning of system boot-up, press <F11> key, and then a window for boot devices selection appears. Please select CD-ROM as the boot device.
- C. When you see the message on the screen, "Generate Serial ATA driver diskette [YN]?", press <Y>.
- D. Then you will see these messages,

Please choose:

- 1. Generate AHCI Driver diskette for Windows2000/XP
- 2. Generate RAID Driver diskette for Windows2000/XP
- 3. Generate AHCI Driver diskette for WindowsXP64
- 4. Generate RAID Driver diskette for WindowsXP64
- 5. Exit

Reboot system now

Press any key to continue

Please insert a floppy diskette into the floppy drive. Select your required item on the list according to the mode you choose and the OS you install. Then press any key.

E. The system will start to format the floppy diskette and copy SATA / SATAII drivers into the floppy diskette.

STEP 3: Set Up BIOS.

- A. Enter BIOS SETUP UTILITY \rightarrow Advanced screen \rightarrow IDE Configuration.
- B. Set the "SATA Operation Mode" option to [RAID].

STEP 4: Use "RAID Installation Guide" to set RAID configuration.

Before you start to configure RAID function, you need to check the RAID installation guide in the Support CD for proper configuration. Please refer to the BIOS RAID installation guide part of the document in the following path in the Support CD:

.. \ RAID Installation Guide

STEP 5: Install Windows® 2000 / XP / XP 64-bit OS on your system.

You can start to install Windows[®] 2000 / Windows[®] XP / Windows[®] XP 64-bit OS on your system. At the beginning of Windows[®] setup, press F6 to install a third-party RAID driver. When prompted, insert the SATA / SATAII driver diskette containing the NVIDIA[®] RAID driver. After reading the floppy disk, the drivers will be presented. Select the drivers to install. The drivers are as below:

A. NVIDIA RAID Driver (required) B. NVIDIA nForce Storage Controller (required)

Please select A and B for Windows[®] 2000 / XP / XP 64-bit in RAID mode. (There are two RAID drivers needed for RAID mode, you have to select them separately. Please specify the first RAID driver and then specify again for the second one.)

NOTE. If you install Windows[®] 2000 / Windows[®] XP / Windows[®] XP 64-bit on IDE HDDs and want to manage (create, convert, delete, or rebuild) RAID functions on SATA / SATAII HDDs, you still need to set up "SATA Operation Mode" to [RAID] in BIOS first. Then, please set the RAID configuration by using the Windows RAID installation guide part of the document in the following path in the Support CD: ..\RAID Installation Guide

1.3.2 Installing Windows[®] Vista[™] / Vista[™] 64-bit With RAID Functions

If you want to install Windows[®] Vista[™] / Windows[®] Vista[™] 64-bit on your SATA / SATAII HDDs with RAID functions, please follow below steps.

STEP 1: Set Up BIOS.

A. Enter BIOS SETUP UTILITY → Advanced screen → IDE Configuration.
B. Set the "SATA Operation Mode" option to [RAID].

STEP 2: Use "RAID Installation Guide" to set RAID configuration.

Before you start to configure RAID function, you need to check the RAID installation guide in the Support CD for proper configuration. Please refer to the BIOS RAID installation guide part of the document in the following path in the Support CD:

.. \ RAID Installation Guide

STEP 3: Install Windows[®] Vista[™] / Vista[™] 64-bit OS on your system.

Insert the Windows[®] Vista[™] / Windows[®] Vista[™] 64-bit optical disk into the optical drive to boot your system, and follow the instruction to install Windows[®] Vista[™] / Windows[®] Vista[™] 64-bit OS on your system. When you see "Where do you want to install Windows?" page, please insert the ASRock Support CD into your optical drive, and click the "Load Driver" button on the left on the bottom to load the NVIDIA[®] RAID drivers. NVIDIA[®] RAID drivers are in the following path in our Support CD:

(There are two ASRock Support CD in the motherboard gift box pack, please choose the one for Windows[®] Vista[™] / Vista[™] 64-bit.)

.. \ I386 \ RAID_Vista (For Windows® Vista™OS)

.. \ AMD64\ RAID_Vista64 (For Windows[®] Vista[™] 64-bit OS)

After that, please insert Windows[®] Vista[™] / Windows[®] Vista[™] 64-bit optical disk into the optical drive again to continue the installation.

- NOTE. If you install Windows[®] Vista[™] / Windows[®] Vista[™] 64-bit on IDE HDDs and want to manage (create, convert, delete, or rebuild) RAID functions on SATA / SATAII HDDs, you still need to set up "SATA Operation Mode" to [RAID] in BIOS first. Then, please set the RAID configuration by using the Windows RAID installation guide in the following path in the Support CD:
 - .. \ RAID Installation Guide

1.4 Create Disk Array

Power on your system. After adjusting the system BIOS to RAID mode, the below window appears.



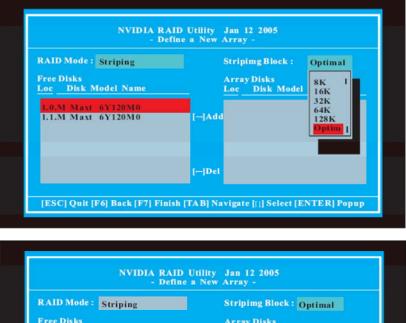
After rebooting your computer, wait until you see the RAID software prompting you to press <F10>. The RAID prompt appears as a part of the system POST and boot process prior to loading the OS. You have a few seconds to press <F10> before the window disappears.

After you press <F10>, the **NVIDIA RAID Utility - Define a New Array** window appears. By default, RAID Mode is set to Mirroring, but please set it to Striping if you want to create RAID 0. And the Striping Block is set to Optimal as default. We take RAID 0 for example to show you how to use NVRAID RAID Utility to create RAID 0 (Striping). If you plan to use NVRAID RAID Utility to create other RAID arrays, the operation procedures are similar to the steps of creating RAID 0.



Striping block size is given in kilobytes, and affect how data is arranged on the disk. It is recommended to leave this value at the default Optimal, which is 64KB, but the values can be between 8KB and 128KB (8, 16, 32, 64, and 128KB). Then, you have to assign the disks. The disks that you enabled from the RAID Config BIOS setup page appear in the Free Disks block. These are the drives that are available for use as RAID array disk,

- A. Tab to the Free Disks section. The first disk in the list is selected.
- B. Move it from the Free Disks block to the Array Disks block by pressing the right-arrow key.
- C. Continue pressing the right-arrow key until all the disks that you want to use as RAID array disks appear in the Array Disks block.







After assigning your RAID array disks, press <F7> to save your changes of RAID array disks.

Depending on the platform used, the system can have one or more channels. In a typical system there is usually one adapter and multiple channels, and each channel has a slave and a master. The adapter / channel / master / slave status of each hard disk is given in the Loc (location) columns of the Free Disks and Array Disks lists. For example:

1.0.M

1: Channel - Typically, channel 0 is used for Parallel ATA drives while channel 1 is used for Serial ATA drives.

0: Controller

M: M means Master, S means Slave

Serial ATA

1.0.M Channel 1, controller 0, Master

1.1. M Channel 1, controller 1, Master

Finally, the **Array List** window appears, where you can review the RAID arrays that you have set up.

NVIDIA RAID Utility - Array List -						
	Boot	Id	Status	Vendor	Array Model Name	
	Yes	2	Healthy	NVIDIA	STRIPING 74.53G	
J.	Ctrl-X]I	Exit	[¹¹]Select	t [B]Set Boot	[N]NewArray [ENTER]Detail	

2. NVIDIA Windows RAID Installation Guide

NVIDIA Windows RAID Installation Guide is an instruction for you to configure RAID functions by using NVIDIAMAN under Windows environment. Please read this guide carefully and follow the instructions below to configure and manage RAID functions. For Windows 2000 / XP / XP 64-bit and Windows Vista / Vista 64-bit, there are different installation procedures. Please follow the instructions below according to the OS you install.

2.1 NVIDIA Windows RAID Installation Guide for Windows 2000 / XP / XP 64-bit Users

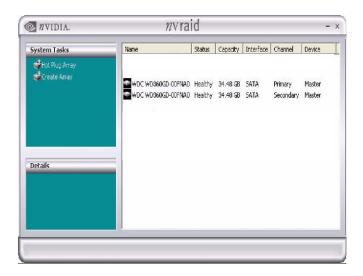
A. Enter NVRAIDMAN

RAID driver is built in NVIDIA ALL in one driver provided in our support CD. After you finish the driver installation, you can create, delete, or rebuild any RAID array. Please enter NVRAIDMAN by clicking on **Start** \rightarrow **Programs** \rightarrow **NVIDIA Corporation** \rightarrow **Mediashield** \rightarrow **Mediashield**. (There is also a "Mediashield" shortcut on the desktop.)

11



Then, the below screen appears.



B. Creating RAID Arrays

This section includes examples of using NVRAIDMAN for creating RAID arrays. If your motherboard is equipped with two SATA / SATAII ports, you may choose to use RAID 0, RAID 1, or JBOD function with your motherboard. If your motherboard is equipped with four SATA / SATAII ports, you may choose to use RAID 0, RAID 1, RAID 0+1, JBOD, or RAID 5 function with your motherboard according to the SATA / SATAII HDDs amount you install. Please refer to the RAID functions your motherboard provides in advance and follow the instruction in this section to create RAID arrays. The RAID items which may be mentioned in this section are as below:

- RAID 0: Striping
- RAID 1: Mirroring
- RAID 0+1: Stripe Mirroring
- JBOD: Spanning
- RAID 5

NOTE:

Under Windows XP OS, the connector naming on our motherboard is different from NVIDIA utility naming. Please refer to below table for detailed information.

SATAII_1	(port 1.0)> Means controller 1's first port
SATAII_2	(port 1.1)> Means controller 1's second port
SATAII_3	(port 2.0)> Means controller 2's first port
SATAII 4	(port 2.1)> Means controller 2's second port

In this section, we take RAID 0 for example to show you how to use NVRAIDMAN to create RAID 0 (Striping). If you plan to use NVRAIDMAN to create other RAID arrays,

the operation procedures are similar to the steps of creating RAID 0. Please do the following:

- A. Go to the system BIOS and make sure that the drives that you want to use are RAID enabled.
- B. Boot to Windows and launch the NVRAIDMAN application.
- C. Create Array and the following screen will appear.

NVIDIA Create Array Wize	rd	X
	Welcome to the NVIDIA Create Annay Wizanti Tris word will guide you through the prestion of a new RAL array. Is continue, click Newt,	
	Bal, Nevi > Cana	a

D. Click Next and the following screen shot will appear.

Select the operal PAID among to creater. RAID Mode: Therefore To Stripe also 644.	An ey Scie ction asse salett the typ	e of RATU array II ch	este.	62
	lect the type of P.4	CD amay to clease.		
Stripe eize 64.	.II: Mode:	Vintuing		
	pe ::::e	641. 💌		
sflerk Seat > C				

13

E. Click the RAID Mode list arrow and select Striping, and leave the "Stripe Size" with its default value as shown in the following screen shot.

y Wizard			
	ciesto.		
lí P.41D anay lo create			
Scipios	•		
31 -			
	< flack	Next >	Centel
	If PATE amay to create	tion : bype of HAID array to create. .(P.4.12 array to u sale. for prot	finn : bype of RAID array to create. .(P.4ID array to or sale.

F. Click Next, and the following screen shot will appear.

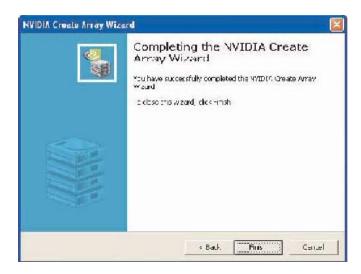
free Disks: Name	Chantel	Devie	
WDT WDT050-0TFN20		Master Master	
A Striping anay resures 1 on inte	: ਜਿਦਦਾ ਕਾਂਦ ਪ	bis.	

G. Select the two disks that you want to include in the stripe set.

1	Λ
T	-

WDC WD350SD-0EFVA0 Prinary Maxter WDC WD350SD-0EFVA0 Secondary Master
WDC WD360GD-00PN/20 Secondary Master

To create a striped array with more disks, select additional disks from the list. H. Click Next and the following screen shot will appear.



I. Click Finish and the following screen shot will appear. The RAID 0 is created successfully.

C. Initializing NVRAID Array Disks

Now that the two-disk array has been created, it needs to be partitioned and formatted. A. Click on Start \rightarrow Settings \rightarrow Control Panel.



- B. Double click on Administrative Tools.
- C. Double click on Computer Management.
- D. Click on Disk Management. The following screen is displayed.

E Computer Management							
Ne Allo Yes wildle H キャン 世 国 梁 国 副	υ φ						비키지
Computer Management (Local) Computer (Volume Loyous U(.) Partition	Type Hile System Base N =5	Status HEathy (System)	Capacity 55.JU UB	Her Space 18. EU UB	95 Hot 85 M	Hault Ic No
 Evoluti Mallager Borisge Portuge Evolution Stratege Evolution Stratege Evolution Stratege Evolution Strategies 	Ciliada		п				
	SS.20 GB Drinz Pusk 1 sasc 76 19 FB Drive	(L2) 15.50 60 K 115 Healthy (Eystern) 76.59 68					-
	Sine ESEDER 2 Sade Iber3efee Drine	Jhallocated 152, 35 GE Jhallocated					
	SVD (C:) Vio Viodia						
e	📕 Hinalazaler 📕	Linnary technol					

E. The 153.38 GB is for the two disk striped array that was created earlier. To create a partition on it, right click on the Unallocated partition and select New Partition.

🗐 Computer Management							
File Acco Ven widen H	390					1	- B ×
						_	
Consult - Management (Local) Consult - Management (Local) Consult - Consu	Volumo Loycu: (C:) Parhihan	Type Hile Dask N		staris Taatho ("yshang	++ce =pice ≉0 50 GD	W Hroe 05 %	<u>-a.t ic</u> No
- 🚯 Disk Defnaturenten - 🙀 Disk Management	K						2
🕮 - 💑 ferstreaund Opplications	CBDick 0 Sadu SS.50 GB Orlin:	(La) 15. en en Healtiz ()					
	CODER 1 Tasir 26.59 EB Orline	26.50 CB Inalocar	ч.				
	Pariblek 2 soard 151.01 GT 0 Ins	153.35 G Unaloca:	d 💽	lew farstion			
	Sco-Romia SVD (D.) No Modia			intertes Mic			
3)	🔳 Unaliscales 🔳	Lamera set	non				

F. Follow the Wizard for setting up and formatting the partition. Once that is done, you can start using the newly created stripped array.

1	6
	U)
	U.

D. Deleting a RAID Array

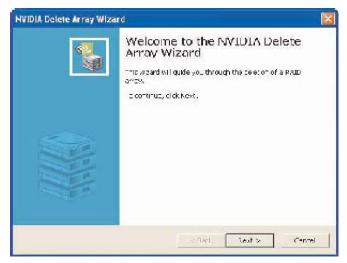
NVRAIDMAN can be used to delete an Array. To delete an Array, please do the

following.

A. Launch the NVRAIDMAN application and right click on the RAID array that you want to delete (assuming that you have a RAID array already created) as shown in the following screen shot.

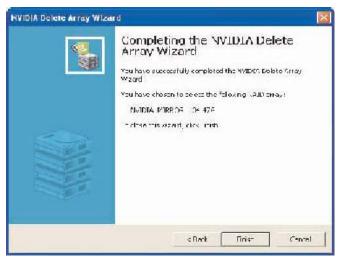
👁 RVIDIA.	nv	raid			= X
System Tasks C Hol Pu, Aney A Round Stray A Constitution C Urodo Anay C Debte Array	Yane Microsico Fot Plug Av Nocult Arr	Status Healthy 197	:भ भाला ३– ४६ ज्ड	Channel Frimery secondary	Device
Uctolis					

The above screen shot shows that there is a Mirrored array that will be deleted. After the "Delete Array..." has been selected, the following screen shot appear.



17

B. Click Next and the following screen shot will appear.



C. Click Finish and the array will be deleted and the following screen shot will appear showing all the free disks.

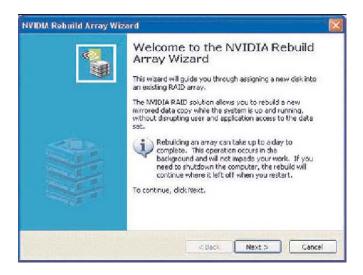
A similar process can be applied to delete any array created by NVIDIA RAID.

E. Rebuilding a RAID Array

Rebuilding is the process of restoring data to a hard drive from other drives in the array. This applies only to fault tolerant arrays such as RAID 1, RAID 0+1, as well as a RAID 5. For example, assuming you have a three disk RAID 5 array, and one of the drives fail, then you need to replace the failed drive with a new one, and rebuild the array to re-generate the lost data on the newly added drive. After creating a mirrored array, you can rebuild the array using the following steps:

- A. Go to Windows and run the NVIDIA RAID Management utility.
- B. Right-click on Mirroring. Then the popup menu appears.
- C. From the popup menu, click Rebuild Array. The NVIDIA Rebuild Array Wizard appears.



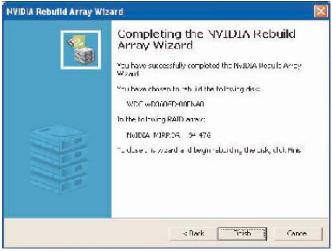


D. Click Next. The Disk Selection page appears.

NVIDIA Rebuild Array Wizard		8	
Disk Selection Select a disk from within the R	Disk Selection Select a dok from within the RALP arroy.		
Be est a member dak from the	lac:		
	Channel	Device	
Wat worseption of App		Master Master	
		Cance	1

E. Select the drive that you want to rebuild by clicking it from the list, then click Next. The Completing the NVIDIA Rebuild Array page appears.





F. Click Finish.

F. More About Rebuilding Arrays

Rebuilding Occurs in the Background

The rebuilding process takes some time to complete, and occurs in the background so as not to affect the performance of the system.

Rebuilding Applies Only to RAID 1, RAID 0+1, or RAID 5 Arrays

Rebuilding an array works only when using RAID 1, RAID 0+1, or RAID 5. Rebuilding does not apply to RAID 0 and JBOD arrays.

Rebuilding applies to a degraded fault tolerant array

You can rebuild a degraded mirrored array using any available Free Disk or Dedicated Disk.

G. Synchronizing a RAID Array

Synchronizing an array will force a rebuild of redundancy or parity. The operation is applicable to any fault tolerant array such as RAID 1, 0+1 and RAID 5. For RAID1 and RAID 0+1, "sync" results in copying the data to the redundancy disk. For RAID 5, "sync" results in rebuilding the parity. To sync an array, do the following (This example assumes you have already created a fault tolerant array such as RAID 1):

- A. Right click on "Mirroring" and select "Synchronize Array". Then the Synchronize Array Wizard Welcome screen appears.
- B. Click on "Next" and then click "Finish" at the Wizard Completion screen. The

NVRAIDMAN window indicates that the array is synchronizing.

C. The synchronization process will start and it will be completed in a short period of time.

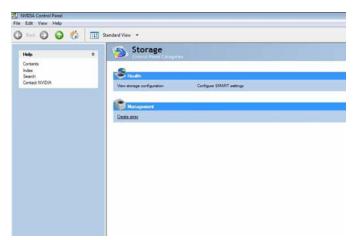
2.2 NVIDIA Windows RAID Installation Guide for Windows Vista / Vista 64-bit Users

A. Enter Storage

RAID driver is built in NVIDIA ALL in one driver provided in our support CD. After you finish the driver installation, you can create, delete, or rebuild any RAID array. Please enter Storage by clicking on **Start** \rightarrow **Programs** \rightarrow **NVIDIA Corporation** \rightarrow **Storage**. (There is also a "Storage" shortcut on the desktop.)



Then, the below screen appears.



Click "Create array". Then you can start to build up RAID.

B. Creating RAID Arrays



Click Next and the following screen shot will appear.



Select a configuration that best suits your storage needs. It is recommended to select "Custom". Click Next.

RAID Array Selectio Please select the t	n pe of RAID array to			
Please select the t	pe of RAID array to			
		create.		
Select the type of l	RAID array to create.			
RAID Mode:	Striping	-		
Stripe Size:	Mirroring			
Supe size:	Striping Spanning			
	- Announce -			
		< Back	Next >	Cancel

Then, select the type of RAID array to create. You need to choose the RAID Mode first and click Next. Here we take Striping (RAID 0) for example to show you how to use Storage to create Striping (RAID 0). If you plan to use Storage to create other RAID arrays, the operation procedures are similar to the steps of creating Striping (RAID 0).



AID Array Select Please select th	tion a type of RAID array to create.	Q
Select the type	of RAID array to create.	
RAID Mode:	Striping 💌	
Stripe Size:	64k 🔹	
	4k 8k 16k	
	16k 32k	
	128k	

After you decide the RAID Mode, you are allowed to select the Stripe Size. The default value of this item is 64K. Then click Next.

Free Disks:	Channel	-
V 👁 WDC WD8		
A Striping array rec	guires 1 or more free hard disks.	

Select the disks to add to the new RAID array, and click Next.

ta Disk Selection Select the disk with	data to preserve.
Select any one disk	by clicking on it :
Name	Channel
	ne selected disks can be preserved in the new array. If one of ay has data you wish to save, select it now.
distantia the state of some	

Select the disk with data to preserve, and click Next.

7	Λ
4	4



Click Next to confirm that you agree to use the default settings for RAID configurations.



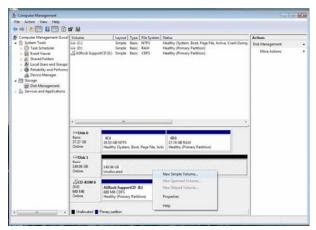
Click Finish to complete the steps of creating RAID array.

C. Initializing NVRAID Array Disks

Now that the two-disk array has been created, it needs to be partitioned and formatted.

- A. Click on Start \rightarrow Settings \rightarrow Control Panel.
- B. Double click on Administrative Tools.
- C. Double click on Computer Management.
- D. Click on Disk Management. The following screen is displayed.





Right-click on the unallocated partition and select New Simple Volume. Follow the Wizard for setting up and formatting the partition. Once that is done, you can start using the newly created stripped array.