



# ReadyNAS™ NV

## Getting Started Guide

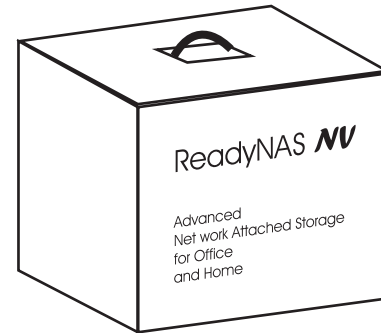


### 1 **1** Unpack and Check the Contents

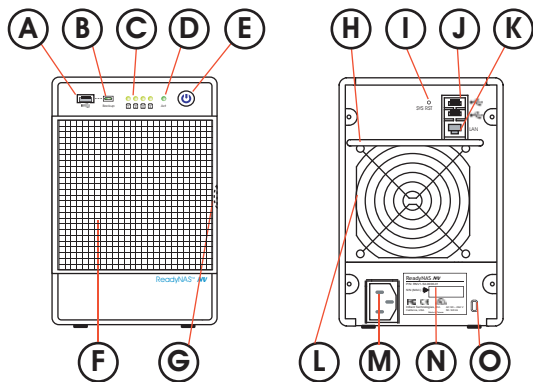
#### Package Contents:

- (1) ReadyNAS NV
- (4) Hard Disk Trays
- (1) Getting Started Guide
- (1) Warranty Card
- (1) Power Cable
- (1) Ethernet Cable
- (1) ReadyNAS Installation CD
- (16) Screws for Hard Disk Installation\*

\*If you purchased a diskless ReadyNAS NV unit, please read the optional disk installation instruction below before connecting ReadyNAS to the network. Please only use SATA disks from the ReadyNAS Device Compatibility List.

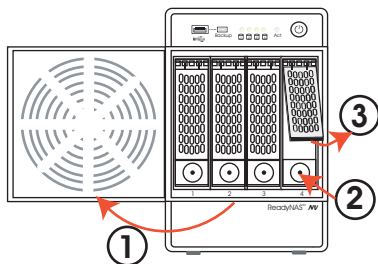


## 2 About ReadyNAS NV

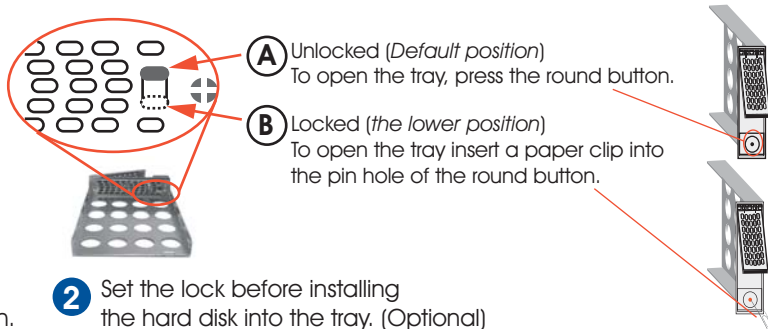


- A - USB Port (1)
- B - Programmable Backup Button
- C - Disk LEDs. Lights up green for disk online
- D - Activity LED. Blinking for disk access activities
- E - Power Button with Indication LED
- F - Disk Tray Door
- G - Disk Tray Door Access
- H - Unit Handle
- I - System Reset Switch Pin Hole
- J - USB Port (2) and Port (3)
- K - Ethernet Port (RJ45)
- L - Cooling Fan
- M - Power Connector (100~240VAC, 50/60Hz)
- N - Label (with Serial number, MAC address)
- O - Kensington Lock Security Hole

## 3 Install Hard Disks (Optional - only if you purchased a diskless unit)



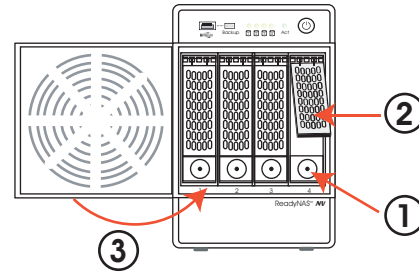
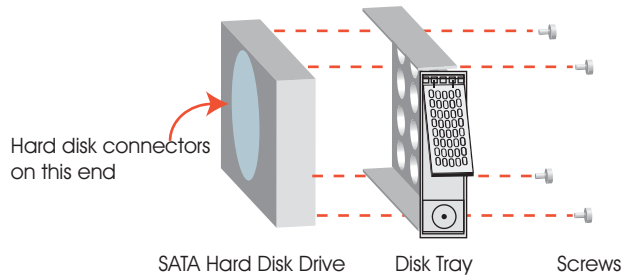
- 1 Remove disk tray from the Unit:
  - ① - Open the door.
  - ② - Press to pop out the latch.
  - ③ - Pull the tray out.



- 2 Set the lock before installing the hard disk into the tray. (Optional)

## Install Hard Disks (continue ...)

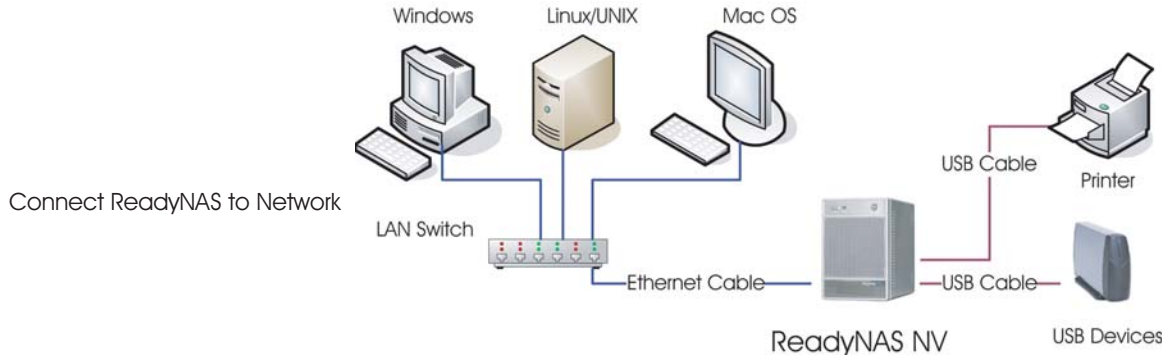
 Please only use qualified SATA disks from the ReadyNAS Device Compatibility List.



**3** Install hard disks into the trays.

**4** With the latch in the open position, slide the disk trays into the unit completely, close the latch and the door.

## **4** Connect ReadyNAS to Network



## 5 Install RAIDar

- 1 Installation CD Contents:
  - RAIDar Utility for Windows, Mac, and Linux
  - ReadyNAS Quick Setup Guide
  - ReadyNAS Users Guide
  - End User License Agreement
  - Backup Software for Windows Client - GBM Pro Network
- 2 Install RAIDar Utility for your Windows, Mac or Linux client. Start RAIDar. (Refer to the [Quick Setup Guide](#) in the CD-ROM for more detail.)
- 3 Power on the ReadyNAS.



## 6 Initialize Hard Disks (For diskless users only)

- 1 If you purchased a diskless ReadyNAS, after installing hard disks and going through the optional RAID Configuration (See Section [A](#)), you will need to wait until the volume creation is finished before accessing the ReadyNAS Setup Wizard. It will take up to 60 minutes depending on disk capacity.
- 2 It will take an additional 2 to 6 hours before the RAID synchronization is completed and the system is fully redundant. During the background RAID synchronization, access to the NAS will be slower than normal. RAIDar Info column will display the current installation task or error if a problem is detected. Refer to the following chart for the expected LED blinking during hard disk drive initialization.

Duration / Info	1	2	3	4	Act	⏻	Description
2 minutes	○	○	○	○	○	★	Booting.
up to 60 minutes	●	●	●	★	★	★	Volume creation. ReadyNAS is not accessible during this time.
up to 6 hours	●	●	●	★	★	●	RAID synchronization. ReadyNAS is accessible during this time.
	●	●	●	●	○	●	Normal status. ReadyNAS is fully redundant.
Error *	★	★	★	★	○	★	No disks detected if all disk LEDs flash once, and disk #2 LED flashes once, repeatedly.
Error *	●	●	★	●	○	●	Bad disk detected if one disk LED flashes once per second. The disk corresponding to this LED is bad.

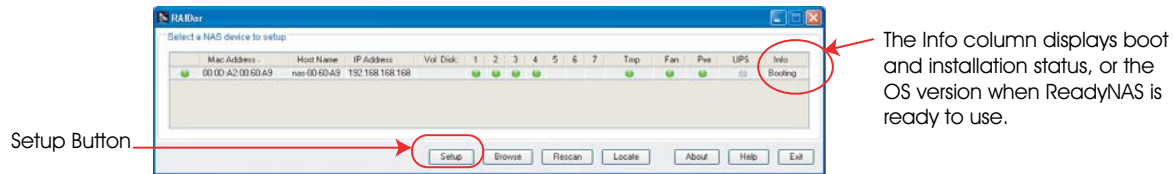
### LEGEND:

- LED off.
- LED solid on.
- ★ LED slow blinking.
- ★ LED fast blinking.

\* Note that installation will abort on any error detected.

## 7 Set up ReadyNAS

After powering up the unit, you will see the ReadyNAS system in the RAIDar scan list. When the **Setup** button becomes clickable, click **Setup** to start the Setup Wizard. Use user name **admin** and password **infrant1** to login.



After completing setup, your ReadyNAS is ready for use. Refer to [Quick Setup Guide](#) and [Users Guide](#) for details.

## A RAID Configuration (Optional)

1 Your ReadyNAS NV comes in one of the following three configurations:

- Diskless system with X-RAID (Expandable Volume)
- System with pre-installed disks in X-RAID (Expandable Volume)
- System with pre-installed disks in RAID 0/1/5 (Flexible Volume)

Follow the steps below to switch between X-RAID Expandable Volume mode and the RAID 0/1/5 Flexible Volume mode **only** if you wish to change the above default configuration. (Please note that it is not necessary to perform this procedure every time. The device will remain in the selected mode until explicitly changed.)

2 Set RAID mode by performing a Factory Default. Make sure ReadyNAS is connected to the network and RAIDar is running when performing the Factory Default.

⚠ Factory Default will erase all your data on the hard disks.

RAID Configuration






Number of disk Installed	RAID 0	RAID 1	RAID 5	X-RAID
1				
2				
3				
4				

Legend:

- Redundancy against single disk of failure.
- X-RAID auto volume expansion.
- Storage capacity. Default RAID setting.

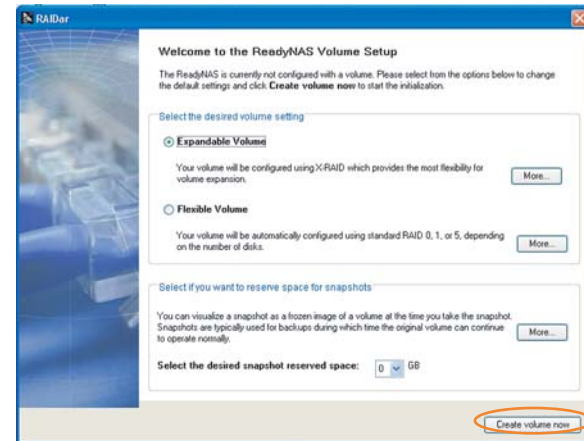
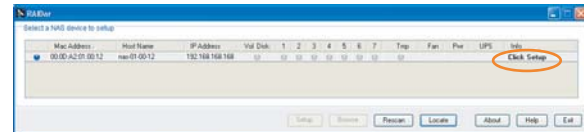
# RAID Configuration (continue...)


## 3 Factory Default Step-by-step

① Make sure the device is power off.	OFF 
② Insert a paper clip to trigger the "System Reset" switch.	 ● SYS RST
③ Depress the "System Reset" switch for 30 seconds while powering on the unit.	ON 
④ As an indication, the 4 disk LEDs will light up for 2 sec. at the 5th and the 30th sec.	 ○ 
⑤ As soon as the LEDs light at the 30th second, release the switch.	

## 4 Select RAID Level and Volume Type in RAIDar

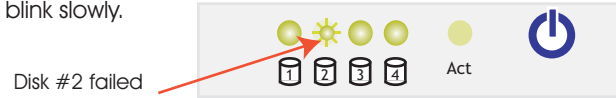
- ① After the factory default, the RAIDar will prompt "Click Setup" in the Info column.
- ② A ReadyNAS Volume Setup screen pops up after clicking the "Setup" button.
- ③ Select Expandable Volume (X-RAID) or Flexible Volume (RAID 0,1,5), and click "Create Volume now" to start the volume creation and initialization process.



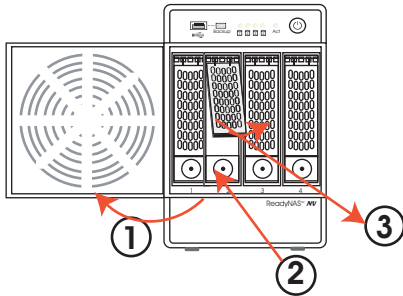
 If you take no action within 10 minutes the system will default to X-RAID with 5 GB reserved for snapshots.

## B Replacing a Failed Disk

- 1 The Disk Status LED corresponding to the failed disk will blink slowly.

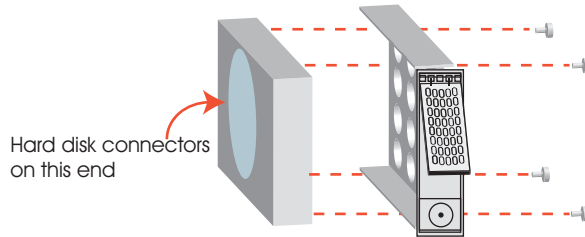


- 2 Remove the failed disk tray from the unit. from the unit. The ReadyNAS NV supports hotswap bays, so you do not need to power down the device.

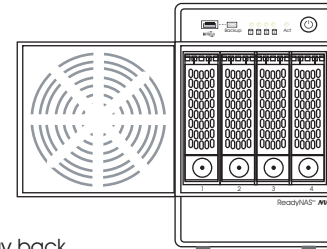


- 1 Open the disk tray door.
- 2 Press the button and the latch pops out.
- 3 Pull the disk tray out.

- 3 Replace failed disk, re-assemble, and slide the disk tray back in.



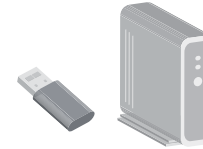
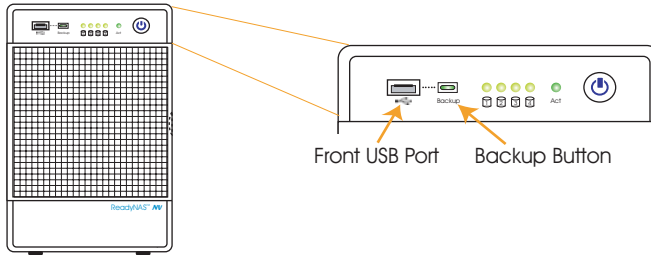
Install hard disk tray back



- 4 The system will perform background RAID synchronization, and notify the user by email when it's done.

## C Backup Button and Front USB Port

- 1 The Backup Button is associated with the Front USB Port.



- 2 By default, the Backup Button copies the data on [backup] share on ReadyNAS NV to the USB disk directly connected to the Front USB Port.

 Please attach a USB hard drive to the Front USB Port before pressing the Backup Button.



- 3 You can easily program the Backup Button in the FrontView Backup menu to backup one or more pre-defined backup jobs.



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