Synology

Synology RackStation RS214

Quick Installation Guide

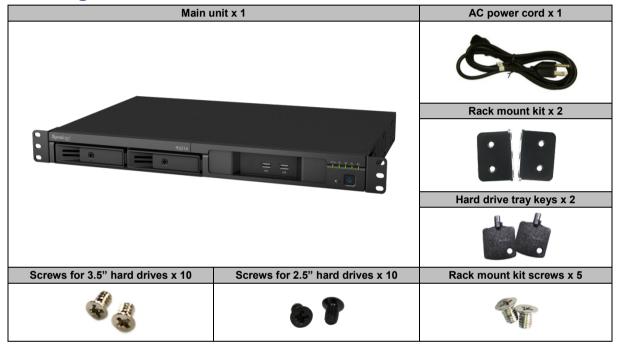
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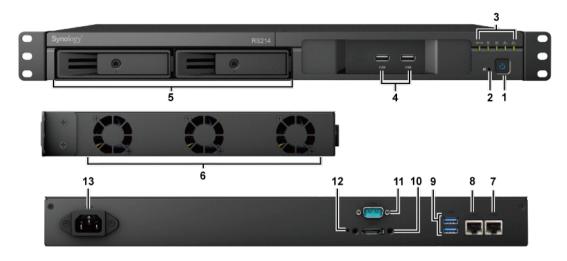
Before You Start

Before you start setting up RackStation, please check the package contents to verify that you have received the items below. Please also read the safety instructions carefully before use to prevent your RackStation from any damages.

Package Contents



Synology RackStation at a Glance



No.	Article Name	Location	Description	
1)	Power Button	Front Panel	The power button is used to turn Synology RackStation on or off. To turn off Synology RackStation, press the Power Button and hold it until you hear a beep sound and the Power LED starts blinking.	
2)	Beep off Button	Front Panel	The Beep off Button is used to turn off the beep sound of Synology RackStation.	
3)	LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system. For more information, see "Appendix B: LED Indication Table" on Page 12.	
4)	USB 2.0 Ports	Front Panel	The Synology RackStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices.	
5)	Hard Drive Trays	Front Panel	The hard drive trays are designed for loading the hard drives used in Synology RackStation.	
6)	Fans	Side Panel	The fans are built to exhaust waste heat out of Synology RackStation. If any of the fans is malfunctioning, the system will beep every few seconds.	
7)	LAN 2	Back Panel	The LAN port is where you connect RJ-45 cable to Synology RackStation.	
8)	LAN 1		The LAN port is where you connect No-43 cable to Synology NackStation.	
9)	USB 3.0 Ports	Back Panel	The Synology RackStation offers USB3.0 ports for adding additional external hard drives, USB printers, or other USB devices.	
10)	eSATA Port	Back Panel	The eSATA port is used to connect external SATA disk or Synology Expansion Unit ¹ to Synology RackStation.	
11)	Console Port	Back Panel	This port is used for manufacturing purpose only.	
12)	RESET Button	Back Panel	1.To restore IP, DNS, passwords for the admin account to default value. 2.To reinstall the Synology RackStation.	
13)	Power Port	Back Panel	The power port is where you connect the power cord to Synology RackStation.	

¹ For more information about Synology Expansion Unit supported by your RackStation, please visit www.synology.com .

Safety Instructions

	Keep away from direct sunlight and away from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity.
	Do not place the Synology product close to any liquid.
	Before cleaning, unplug the power cord first. Wipe Synology product with damp paper towels. Do not use chemical or aerosol cleaners to clean it.
	Do not place the Synology product on a cart, table, or desk, which is not stable to avoid the product from falling over.
	The power cord must plug in to the right supply voltage. Make sure that the supplied AC voltage is correct and stable.
2 !! → = = -	To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.
4	Risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries appropriately.

Hardware Setup

Tools and Parts for Hard Disk Installation

- A screwdriver
- At least one 3.5" or 2.5" SATA hard disk (Please visit www.synology.com for compatible hard disk models.)

Warning: If you install a hard disk that contains data, the system will format the hard disk and erase all data. If you need the data in the future, please back it up before installation.

Install Hard Disks

1 Insert the hard drive tray key into the hard drive tray lock, turn the key counter-clockwise to unlock the handle of the hard drive tray, and then remove the key.



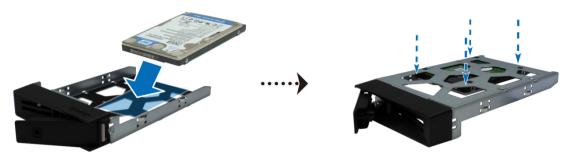
- 2 Press the lower part of the hard drive tray to pop out the handle.
- 3 Pull the hard drive tray handle in the direction as indicated below to remove the hard drive tray.



- **4** Place the hard disk in the hard drive tray, turn the tray upside down, and then tighten the screws to secure the hard disk.
 - For 3.5" Hard Disk:



For 2.5" Hard Disk:



Important: Make sure the tray is pushed in all the way. Otherwise, the hard disk might not be able to function properly.

5 Insert the loaded hard drive tray into the empty hard drive bay. Press the handle in flush with the front panel to hold the hard drive tray in place.



6 Insert the hard drive tray key into the hard drive tray lock, turn the key clockwise (to the "I" position) to lock the handle of the hard drive tray, and then remove the key.



- 7 Repeat the steps above to assemble the other hard disk you have prepared.
- 8 Fix the two rack mount kits on both sides with their screws provided.



9 The disks' positions are numbered as shown below.



Note: If you want to set up a RAID set, it is recommended that all installed hard disks are of the same size to make the best use of hard disk capacity.

Start Up Your RackStation

- 1 Connect one end of the power cord to the power port of RackStation, and the other to the power outlet.
- 2 Use the LAN cable to connect RackStation to your switch/router/hub.



3 Press the power button to turn on your RackStation.



Your RackStation is now online and detectable from a network computer.

Install DSM on RackStation

Once the hardware is ready, your RackStation requires DiskStation Manager (DSM) – the operating system specifically designed for Synology NAS – to start working.

We highly recommend using Synology's online Web Assistant for installing DSM from the web browser. Synology Web Assistant automatically downloads the latest available software updates from the Internet and guides you through the installation.

Install DSM from the Web Browser

By default your RackStation model has a built-in tool called **Web Assistant** to help you configure and install the DSM operating system. Please refer to the steps in the following section.

- 1 Power on RackStation.
- 2 Depending on your network environment, there are two ways to start DSM installation on your computer's web browser:
 - With Internet access: Go to find.synology.com
 - Without Internet access: Go to rackstation:5000
- 3 Go to find.synology.com on your computer's web browser.
- **4** Web Assistant will be launched on your web browser. It will search and find your RackStation within LAN, and the status of your RackStation should be **Not Installed**.



5 Click Connect to start the setup process. Follow the onscreen instructions to complete the setup process.

Note:

- 1. Suggested browsers: Chrome, Firefox.
- 2. Both the RackStation and the computer should be in the same local network.
- 3. Internet connection must be available during DSM installation with Web Assistant.

Learn More

Congratulations! Your RackStation is set up now. Refer to the User's Guide in the installation disc for advanced settings and management. For more information or online resources about your RackStation, please visit www.synology.com.



Specifications

Item	RS214		
Internal HDD	3.5" or 2.5" SATA (II) x 2		
Max. Capacity	8TB (2 x 4TB hard drives)		
Hot Swappable HDD	Yes		
	• USB 2.0 x 2		
External HDD Interface	• USB 3.0 x 2		
	∙ eSATA x 1		
LAN Port	Gigabit x 2		
USBCopy	No		
Size (HxWxD) (mm)	44 X 430.5 X 287.5		
Weight (Kg)	3.14		
	Windows 2000 onward		
Supported Clients	Mac OS X 10.3 onward		
	Ubuntu 9.04 onward		
Max. User Accounts	2048		
Max. Group Accounts	256		
Max. Shared Folders	256		
Max. Concurrent Connections	128		
File System	• EXT4		
The dystem	EXT3, FAT, NTFS (External disk only)		
Volume Type	∙ Basic ∙ JBOD ∙ RAID 0 ∙ RAID 1		
Agency Certifications	BSMI Class A • FCC Class A • CE Class A		
HDD Hibernation	Yes		
Deep Sleep	No		
Scheduled Power On/Off	Yes		
Wake on LAN	Yes		
Language Localization	• English • Deutsch • Français • Italiano • Español • Dansk • Norsk • Svensk		
	• Nederlands • Русский • Polski • Magyar • Português do Brasil		
	・Português Europeu・Türkçe ・Český ・日本語・한국어・繁體中文・简体中文		
	Line voltage: 100V to 240V AC		
	• Frequency: 50/60Hz		
Power Consumption And	Operating Temperature: 32 to 110°F (0 to 45°C)		
Environment Requirements	Storage Temperature: 15 to 155°F (-10 to 70°C)		
	Relative Humidity: 5% to 95% RH		
	Maximum Operating Altitude: 2,000 m (6,500 ft)		

B

LED Indication Table

LED Indication	Color	Status	Description
STATUS	Green	Static	Volume Normal
	Orange	Static	Available volume space < 1GB
			Available volume space < 1 %
		Blinking	Volume degraded or crashed
			No volume
	Off		HDD Hibernation
	Green	Static	Gigabit Link
LAN 1 & LAN 2		Blinking	Network is active
	Off		No network
HDD1 & HDD2	Green	Static	Disk ready and idle
		Blinking	Disk is being accessed
	Orange	Static	Cannot read/write
	Off		No internal disk
Power	Blue	Static	Power ready
		Blinking	Booting up
			Shutting down
	Off		Power off

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Section 3. Limitations of Liability

- **3.1** Force Majeure. Synology will not be liable for, or be considered to be in breach of or default under this Warranty on account of, any delay or failure to perform as required by this Warranty as a result of any cause or condition beyond its reasonable control (including, without limitation, any act or failure to act by Customer).
- **3.2 Disclaimer of Certain Damages.** IN NO EVENT WILL SYNOLOGY OR ITS SUPPLIERS BE LIABLE FOR THE COST OF COVER OR FOR ANY INCIDENTAL, INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL OR

- SIMILAR DAMAGES OR LIABILITIES WHATSOEVER (INCLUDING, BUT NOT LIMITED TO LOSS OF DATA, INFORMATION, REVENUE, PROFIT OR BUSINESS) ARISING OUT OF OR RELATING TO THE USE OR THE **INABILITY** TO USE PRODUCT. ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY, WHETHER BASED ON CONTRACT. TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY EVEN IF SYNOLOGY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
- 3.3 Limitation of Liability. SYNOLOGY'S AND ITS SUPPLIERS' LIABILITY ARISING OUT OF OR RELATING TO THE USE OR INABILITY TO USE THE PRODUCT, ANY ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY IS LIMITED TO THE AMOUNT ACTUALLY PAID BY CUSTOMER FOR THE PRODUCT REGARDLESS OF THE AMOUNT OF DAMAGES CUSTOMER MAY INCUR AND WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY. The foregoing disclaimer of certain damages and limitation of liability will apply to the maximum extent permitted by applicable law. The laws of some states/jurisdictions do not allow exclusion or limitation of certain damages. To the extent that those laws apply to the Product, the exclusions and limitations set forth above may not apply to Customer.

Section 4. Miscellaneous

- Proprietary Rights. The Product and any accompanying Software and documentation provided with the Product include proprietary and intellectual property rights of Synology and its third party suppliers and licensors. Synology retains and reserves all right, title, and interest in the intellectual property rights of the Product, and no title to or ownership of any intellectual property rights in or to the Product, any accompanying Software or documentation and any other goods provided under this Warranty is transferred to Customer under this Warranty. Customer will (a) comply with the terms and conditions of the Synology end user license agreement accompanying any Software furnished by Synology or an authorized Synology distributor or reseller; and (b) not attempt to reverse engineer any Product or component thereof or accompanying Software or otherwise misappropriate, circumvent or violate any of Synology's intellectual property rights.
- **4.2 Assignment.** Customer will not assign any of its rights under this Warranty directly, by operation of law or otherwise, without the prior written consent of Synology.
- 4.3 No Additional Terms. Except as expressly permitted by this Warranty, neither party will be bound by, and each party specifically objects to, any term, condition or other provision that conflicts with the provisions of this Warranty that is made by the other party in any purchase order, receipt, acceptance, confirmation, correspondence or otherwise, unless each party specifically agrees to such provision in writing. Further, if this Warranty conflicts with any terms or conditions of any other agreement entered into by the parties with respect to the Product, this Warranty will prevail unless the other agreement specifically references the sections of this Warranty that it supersedes.
- **4.4 Applicable Law.** Unless expressly prohibited by local law, this Warranty is governed by the laws of the State of Washington, U.S.A. without regard to any conflict of law principles to the contrary. The 1980 U.N. Convention on Contracts for the International Sale of Goods or any successor thereto does not apply.
- **4.5 Dispute Resolution.** Any dispute, controversy or claim arising out of or relating to this Warranty, the Product or services provided by Synology with respect to the Product

or the relationship between Customers residing within the United States and Synology will be resolved exclusively and finally by arbitration under the current commercial rules of the American Arbitration Association, except as otherwise provided below. The arbitration will be conducted before a single arbitrator, and will be limited solely to the dispute between Customer and Synology. The arbitration, or any portion of it, will not be consolidated with any other arbitration and will not be conducted on a class-wide or class action basis. The arbitration shall be held in King County, Washington, U.S.A. by submission of documents, by telephone, online or in person as determined by the arbitrator at the request of the parties. The prevailing party in any arbitration or legal action occurring within the United States or otherwise shall receive all costs and reasonable attorneys' fees, including any arbitration fee paid by the prevailing party. Any decision rendered in such arbitration proceedings will be final and binding on the parties, and judgment may be entered thereon in any court of competent jurisdiction. Customer understands that, in the absence of this provision, Customer would have had a right to litigate any such dispute, controversy or claim in a court, including the right to litigate claims on a class-wide or class-action basis, and Customer expressly and knowingly waives those rights and agrees to resolve any disputes through binding arbitration in accordance with the provisions of this Section 4.5. For Customers not residing within the United States, any dispute, controversy or claim described in this section shall be finally resolved by arbitration conducted by three neutral arbitrators in accordance with the procedures of the R.O.C. Arbitration Law and related enforcement rules. The arbitration shall take place in Taipei, Taiwan, R.O.C., and the arbitration proceedings shall be conducted in English or, if both parties so agree, in Mandarin Chinese. The arbitration award shall be final and binding on the parties and may be enforced in any court having jurisdiction. Nothing in this Section shall be deemed to prohibit or restrict Synology from seeking injunctive relief or seeking such other rights and remedies as it may have at law or equity for any actual or threatened breach of any provision of this Warranty relating to Synology's intellectual property rights.

- **4.6 Attorneys' Fees.** In any arbitration, mediation, or other legal action or proceeding to enforce rights or remedies under this Warranty, the prevailing party will be entitled to recover, in addition to any other relief to which it may be entitled, costs and reasonable attorneys' fees.
- **4.7 Export Restrictions.** You acknowledge that the Product may be subject to U.S. export restrictions. You will comply with all applicable laws and regulations that apply to the Product, including without limitation the U.S. Export Administration Regulations.
- **4.8** Severability. If any provision of this Warranty is held by a court of competent jurisdiction to be invalid, illegal, or unenforceable, the remainder of this Warranty will remain in full force and effect.
- **4.9 Entire Agreement.** This Warranty constitutes the entire agreement, and supersedes any and all prior agreements, between Synology and Customer related to the subject matter hereof. No amendment, modification or waiver of any of the provisions of this Warranty will be valid unless set forth in a written instrument signed by the party to be bound thereby.