DIGISOL™

Quick Installation Guide

RANGER SERIES

300Mbps Wireless Repeater

DG-WR3001N

V1.1
2012-07-09

FCC warning:

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limitations are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into a different outlet from that to which the receiver is connected.
- Consult your local distributors or an experienced radio/TV technician for help.
- Shielded interface cables must be used in order to comply with emission limits.

Changes or modifications to the equipment, which are not approved by the party responsible for compliance could affect the user's authority to operate the equipment.

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Trademarks:

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Package Contents

The following items should be present in your package:

- DG-WR3001N Wireless Repeater
- Quick Installation Guide
- Installation Guide CD (includes User Manual, QIG & Utility)
- Patch cord (1 No.)

Make sure that the package contains above items. If any of the listed items is damaged or missing, please contact your retailer immediately.

Product Overview

Thank you for purchasing this mini 802.11b/g/n wireless repeater! The ultra-compact design with in-built power allows you to install this repeater everywhere, yet providing excellent network performance to extend the Wi-Fi signal and wireless coverage.

Product Features

- Extend the wireless signal inside your home or office.
- Ultra-compact design while maintaining excellent network performance.
- LED signal indicator to easily realize the best location placement to extend Wi-Fi signal and secure better wireless performance.
- The device can support AP mode , Repeater mode and client mode
- Hardware switch button for user to change operation mode quickly without logging into web firmware.
- WPS (Wi-Fi Protected Setup) hardware button for easy installation and secure wireless security.

System Requirements

The following system requirements are recommended

- Wireless network card which is compatible with 802.11b/g/n wireless network standard.
- Windows 2000, 2003, XP, Vista or Windows 7 operating system.
- CD-ROM drive.
- At least 100MB of available disk space.

Front View

Below shown is the product front view.

Users can verify Wireless Repeater status from the LED indicators on the front panel. Below given is the LED description.

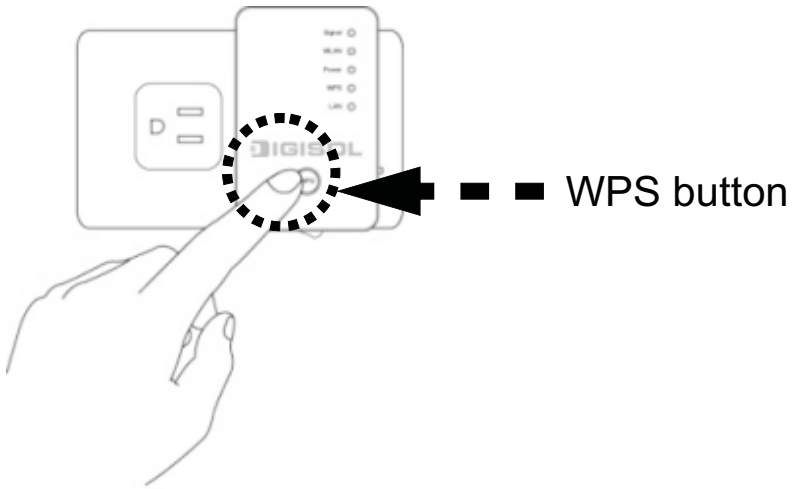
LED	Color	LED Status	Description
Signal	Amber	Steady ON	Good signal reception (signal strength 100% ~ 50%).
		Blinking	Normal signal reception Slow blinking (50% ~ 25%) Poor signal reception Quick blinking (<25%)
		OFF	Out of signal or disconnected or LED off mode.
WLAN	Green	Blinking	Connect to wireless Router or AP, wireless function is active (transferring or receiving data)
		OFF	Wireless network is switched off or LED OFF mode.
Power	Green	Steady ON	Power is turned on. In LED OFF mode. (Power LED is on, other LEDs are off *) *If user selects to enable "LED OFF mode", power LED On/Off depends on user's selection, user can select to leave only power LED on or turn off all LEDs including this power LED.
		Slow Blinking	Ready for "Reset to factory default", power LED is blinking.
		OFF	Power is turned off.
WPS	Green	Steady ON	When WPS connection is successful, LED is steady ON for 5 minutes.
		Blinking	WPS is in progress waiting for another WPS device's connection, blinking (0.2 seconds ON, 0.1 seconds OFF) for 2 minutes.
		Quick blinking	WPS error, blinking (0.1 second ON, 0.1 second OFF)
		Off	NO WPS is in progress/ LED OFF mode
LAN	Green	Steady ON	LAN port is connected.
		Blinking	LAN port is active (transferring or receiving data).
		OFF	LAN port is not connected/ or LED OFF mode

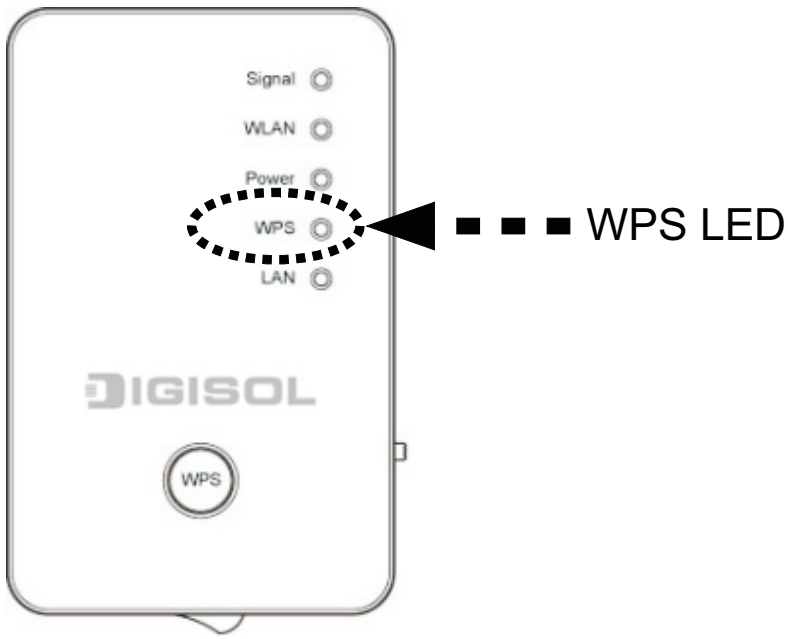
Wireless Repeater Installation

Section A : Installing Wireless Repeater using WPS button

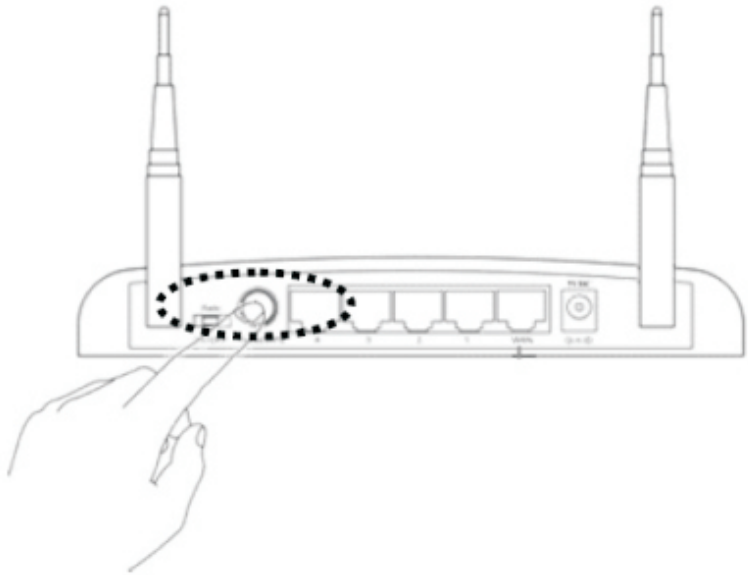
Note : If your existing Wireless Router or Access Point does not have WPS button, please refer to the Section B for setting up wireless repeater using Quick Setup.

1. Press and hold WPS button on the repeater for 2 seconds, 'WPS' LED will start flashing.



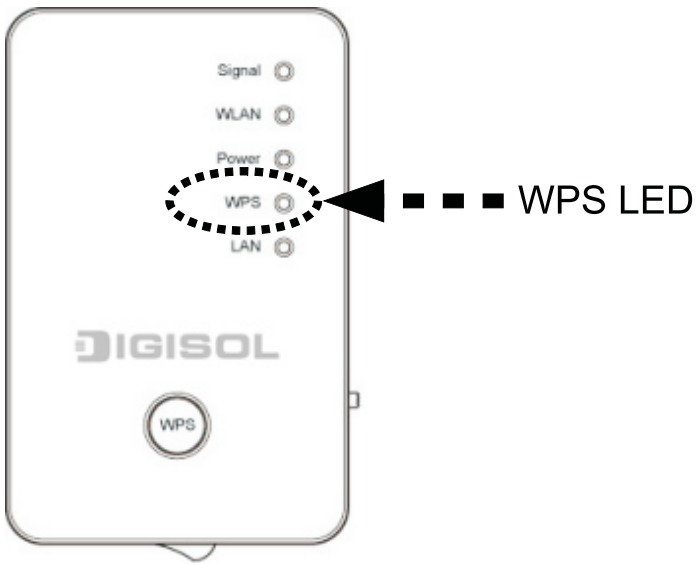


2 Press WPS button on the wireless broadband router or access point you wish to connect within 2 minutes.



NOTE: This WPS button position on the access point and the device may vary.

3 If WPS connection is successfully established, 'WPS' LED will light for 5 minutes; if 'WPS' LED flashes fast, there is some error, please wait for 2 minutes until 'WPS' LED goes off, and try from step (1) again.



When quick installation is successfully done, 'Signal' LED will turn on.

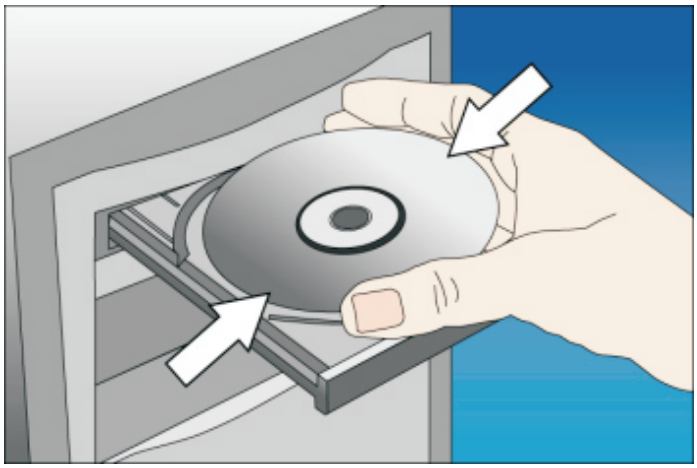
4 Please move the repeater to the place you wish to use (a better place will be the center of your house) and insert this repeater into the power outlet on the wall, the wireless connection will be established automatically. You can check 'Signal' LED status to understand signal reception level. Steady light: Excellent, Flash (once): Good, Fast (twice): poor.

NOTE: If the Signal LED is off, it means this place is out of wireless signal of your wireless broadband router or access point, please move this repeater closer to the broadband router until the repeater can receive signal from the broadband router and extend its signal.

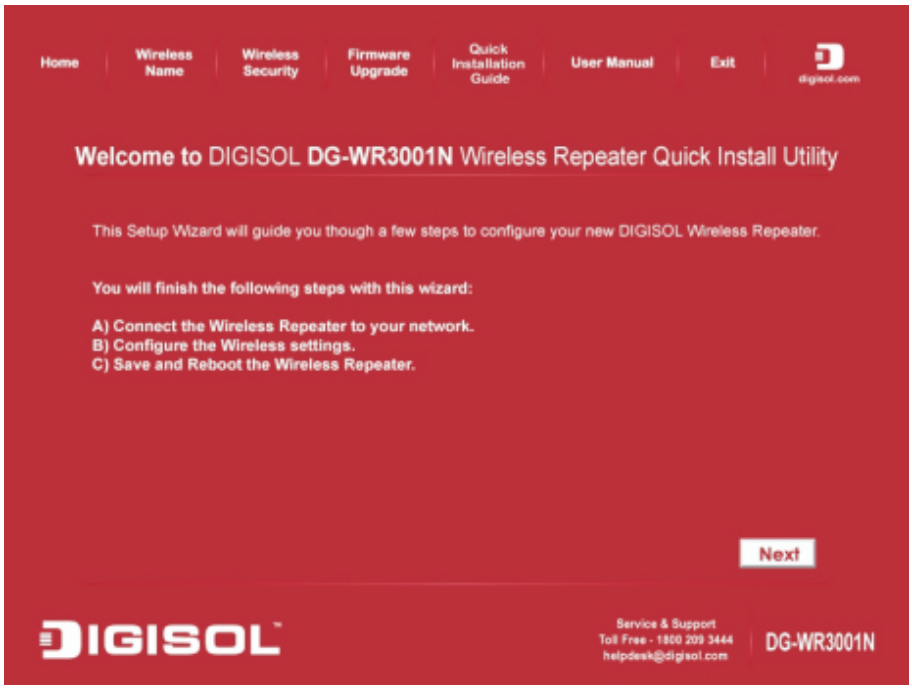
Congratulations! The Wireless Repeater installation is now complete.

Software Installation:-

- Insert the Setup CD into your CD-ROM drive of notebook/desktop computer.



- Explore the CD and execute the "APWizard.exe" file. Screen given below will be displayed. Click 'Next' to continue.



- Connect one end of the network cable to the LAN port on the repeater and the other end to the PC's Ethernet port. Power on the repeater and ensure that all the LED's on the repeater are on. Click 'Next' to continue.

- Enter the repeater's password to login to the repeater. The default password is "1234". It is recommended to change the repeater's password to protect it from being accessed by other users. If you do not wish to change the current password, you can leave "New Password" and "Confirm New Password" fields blank. Click 'Log in' to continue.

Note : Till the log in, the utility configuration procedure is the same for AP mode, Repeater mode and client mode. Below are the instructions for the respective modes after the login is done.

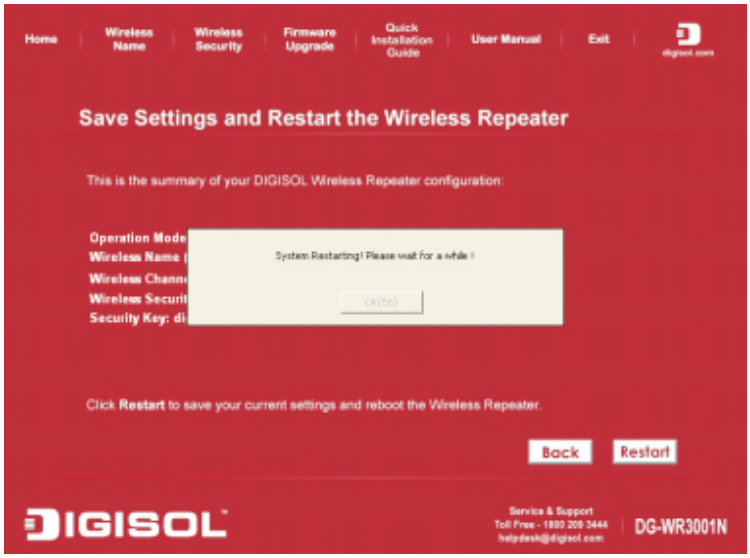
AP Mode

- Configure the SSID and Channel Number. Click 'Next' to continue.

- Configure the wireless security settings. Then click 'Next'.

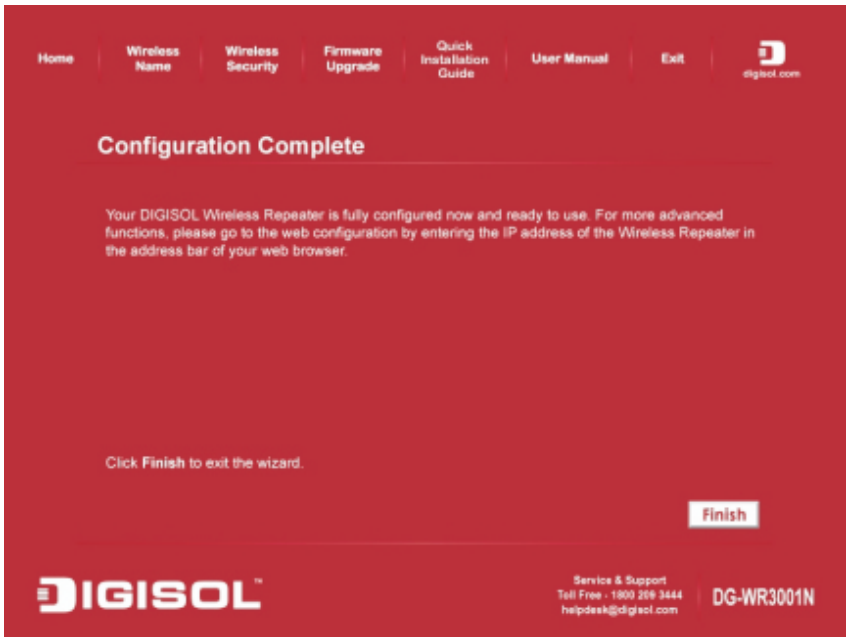
- Verify the settings you have configured and click ‘Restart’.

- This will take 60 Seconds. Then Press ‘OK’.



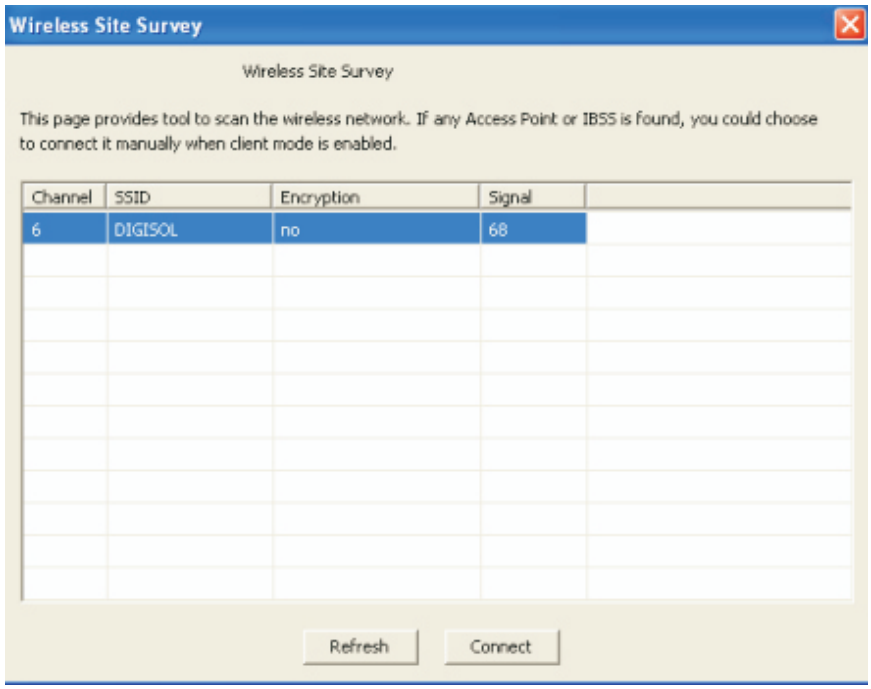
Once you click on OK, a system restart screen will appear which will also take 60 seconds.

- Click ‘Finish’ to complete the installation.

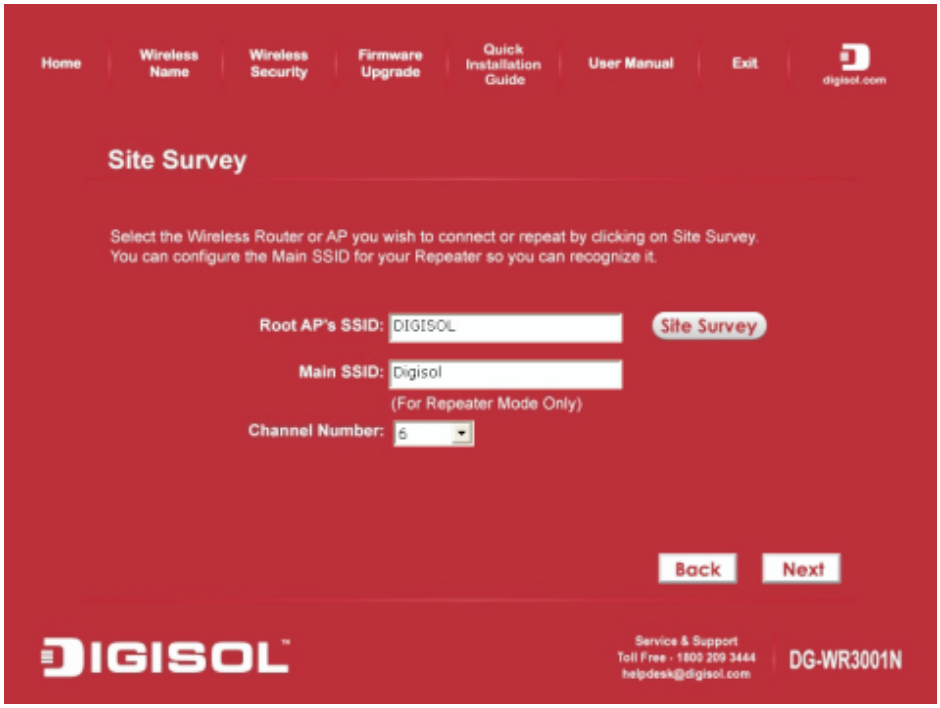


Repeater Mode

- Click on ‘Site Survey’, “Wireless Site Survey” window will appear. Select the wireless router or AP you wish to connect and click ‘Connect’, or enter your wireless network’s SSID manually. Click ‘Next’ to continue.

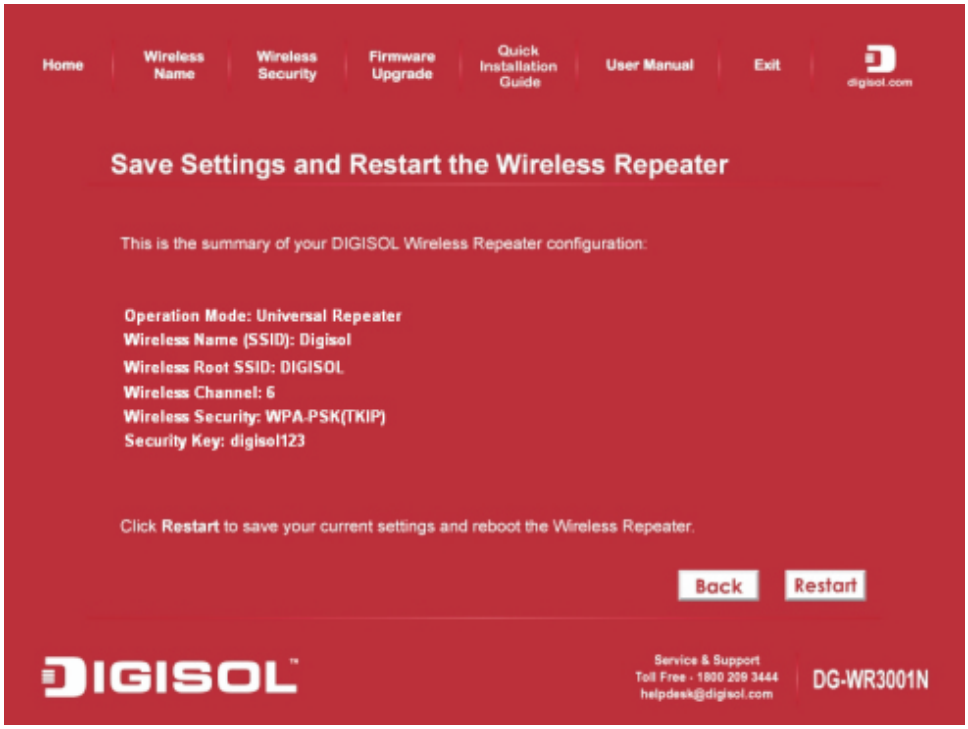


- To configure Root AP's SSID Click on 'Site Survey', a "Wireless Site Survey" window will appear. Select the wireless router or AP you wish to repeat and click 'Connect'. Next, configure a network name in Main SSID for the repeater to be identified.

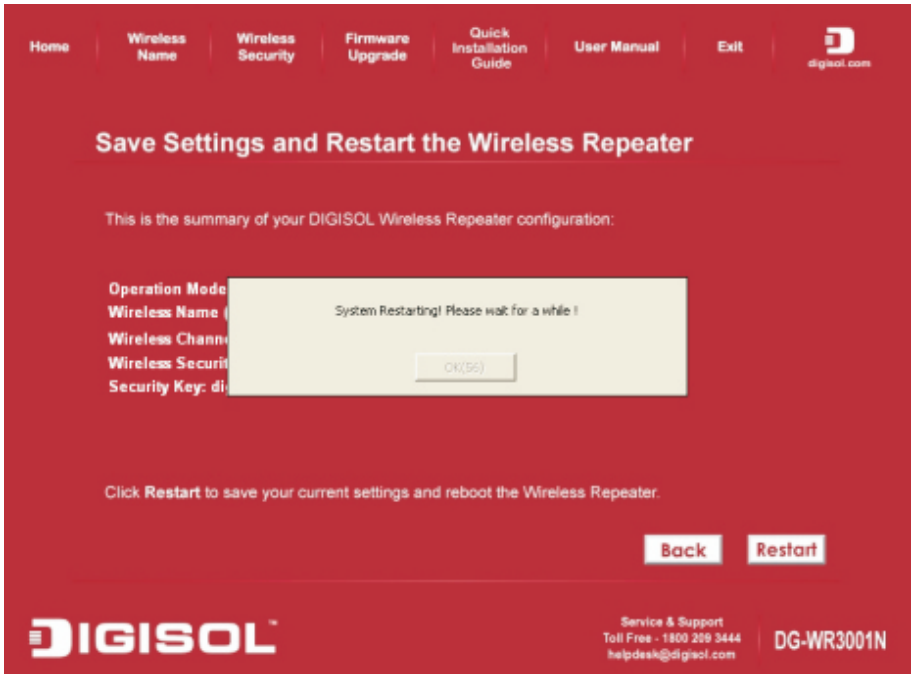


- Configure the wireless security settings. Then click ‘Next’.

- Verify the settings you have configured and click ‘Restart’.

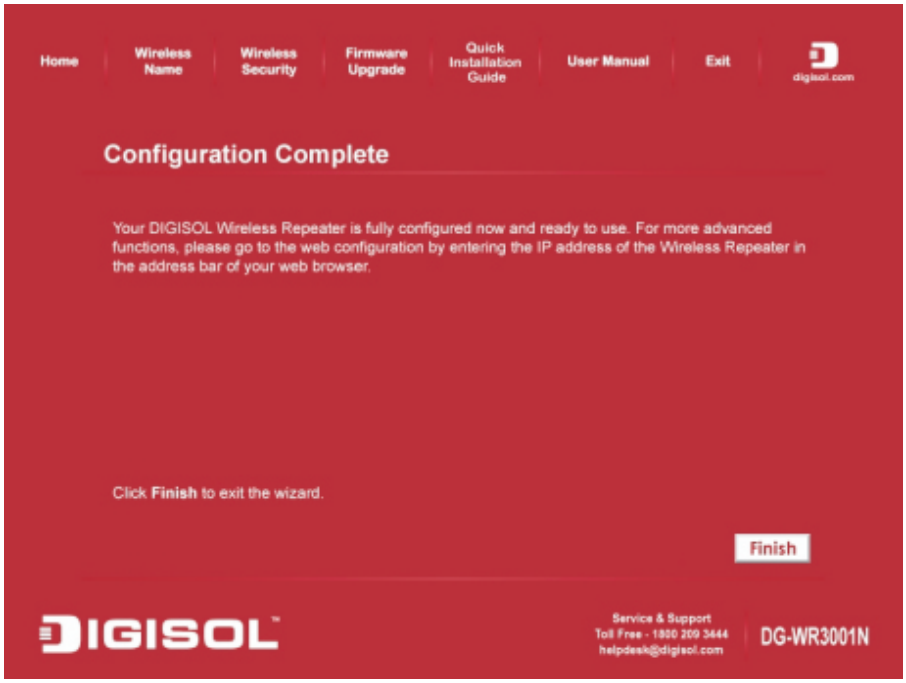


- This will take 60 Seconds. Then Press ‘OK’.



Once you click on OK, a system restart screen will appear which will also take 60 seconds.

- Click ‘Finish’ to complete the installation.

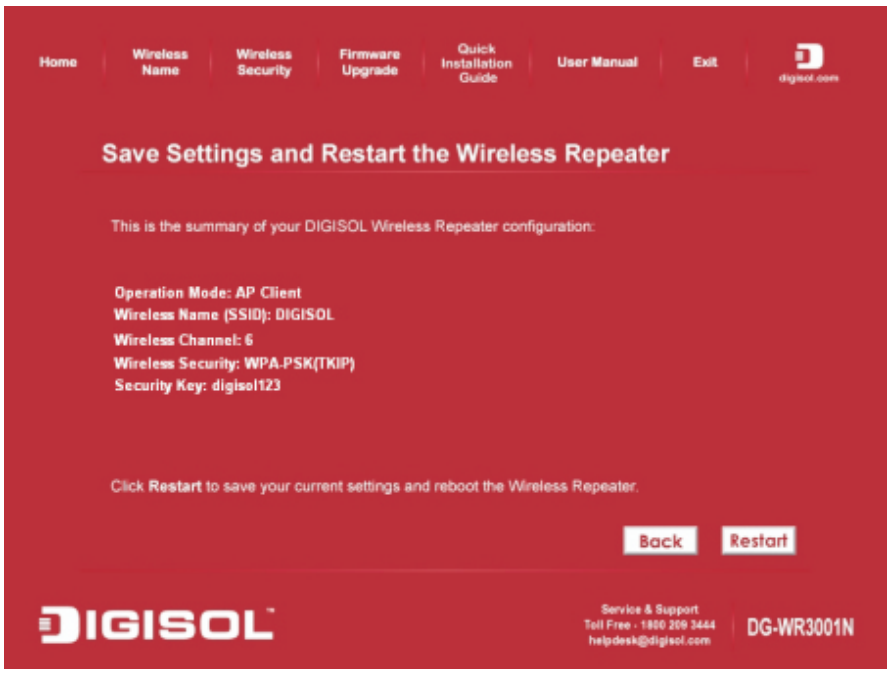


Client Mode

- Click on 'Site Survey', "Wireless Site Survey" window will appear. Select the wireless router or AP you wish to connect and click 'Connect', or enter your wireless network's SSID manually. Click 'Next' to continue.

- Configure the wireless security settings. Then click 'Next'.

- Verify the settings you have configured and click ‘Restart’.



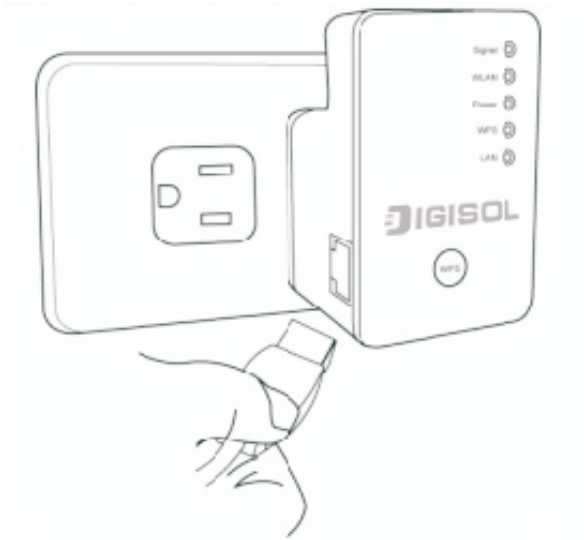
Note: Next, Follow the same step to restart the repeater as done in previous two modes and click finish to complete the installation.

Congratulations! Your Repeater Installation is now finished.

Section B : Installing Wireless Repeater using Quick Setup Wizard

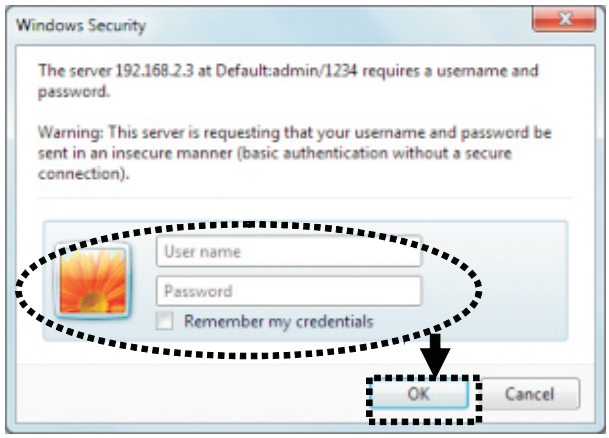
1. Ensure that your computer is set to Obtain IP address automatically from DHCP Server.

2. Use Ethernet cable to connect your PC's Ethernet port to the wireless repeater's LAN port.

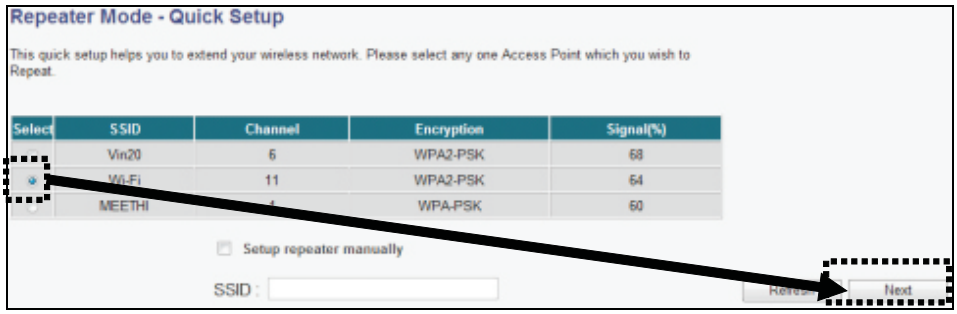


3. Open web browser and input 'http://repeaterxxxx' in address bar (where xxxx represents last 4 digits of the device MAC address) or (you can input the default IP address '192.168.2.3')

4 Wireless repeater will prompt you to input username and password. Default username is 'admin' and password is '1234'. Click 'OK' button to continue.

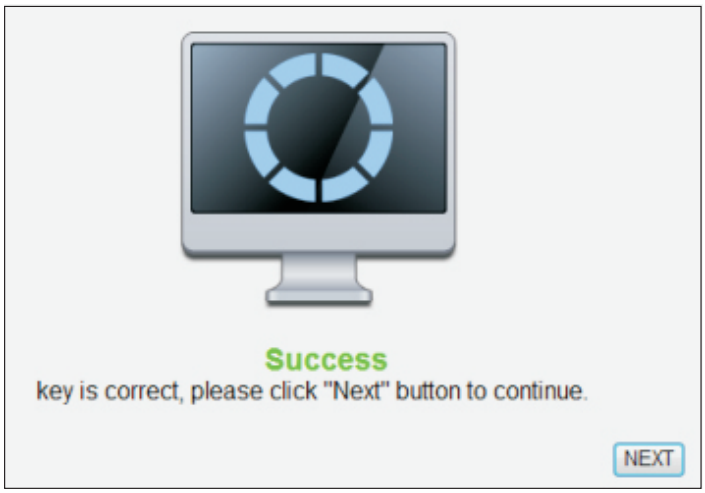


5 All wireless access points nearby will be displayed on the list. Select one access point you want to connect and click 'Next' button to continue. If the access point you wish to connect does not appear here, please click 'Refresh' until it appears on the list, or try to move wireless repeater closer to the access point you wish to connect.



6 You'll be prompted to input access point's wireless security key, input it in 'KEY' field and click 'Next' to continue.

Wireless repeater will check if the entered key matches with that of the Access Point you are connecting to. Click 'NEXT' to continue with the setup.



7 Wireless repeater will display the connection information for you, if everything's correct, please click 'APPLY' button to get connected.

'Device SSID' will be the same as the access point's SSID you connected in this step. You can change it to a different SSID if you want.

8 Please wait for few seconds for wireless repeater to reboot

9 Please move the repeater to the place you wish to use (a better place will be the center of your house) and insert this repeater into the power outlet on the wall, the wireless connection will be established automatically. You can check 'Signal' LED status to understand signal reception level. Steady light: Excellent, Flash (once): Good, Fast (twice): poor.

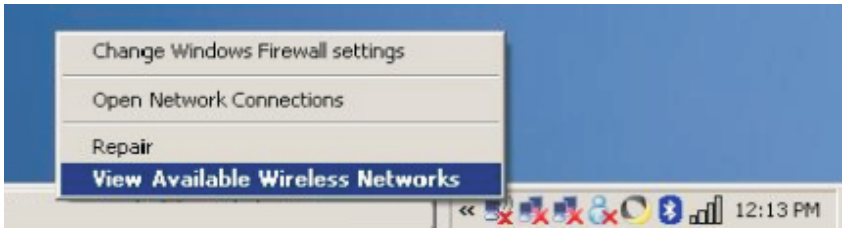
NOTE: If the Signal LED is off, it means this place is out of wireless signal of your wireless broadband router or access point, please move this repeater closer to the broadband router until the repeater can receive signal from the broadband router and extend its signal.

Congratulations! The Wireless Repeater installation is now complete.

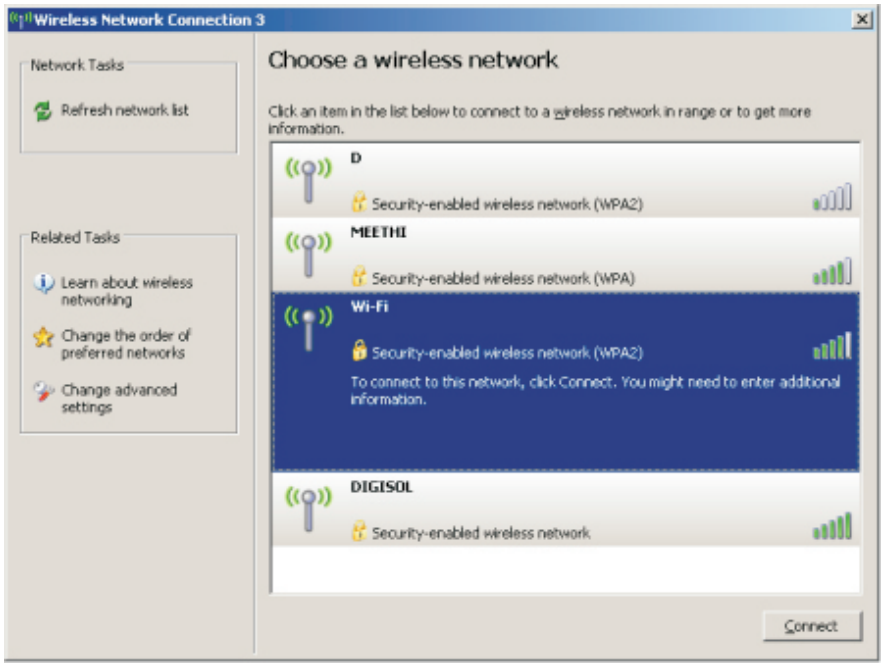
Connect to the Wi-Fi network Wirelessly

Users must configure their wireless notebook/desktop computer in order to establish a wireless connection to the wireless repeater. The following instructions help in establishing a wireless connection between a Windows XP computer and the Wireless Repeater.

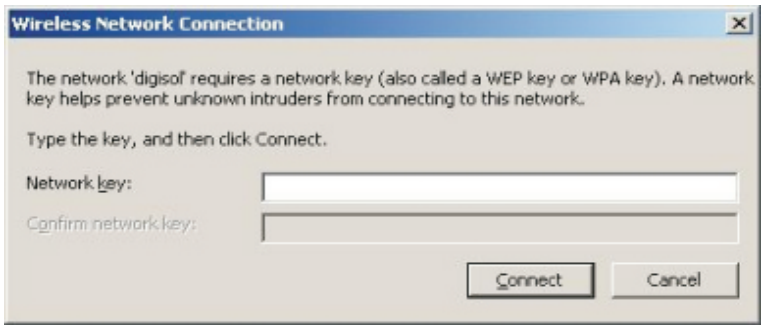
- Right click the wireless icon in the system tray and click on "View Available Wireless Networks".



- A window displaying the available wireless networks will open. Select the wireless network you wish to connect and then click on 'Connect'.



- Enter the network security key if the wireless network you wish to connect has wireless encryption enabled. Click 'Connect'. The connection should now get established.



Frequently Asked Questions

Following are the solutions to problems that may occur during the installation and operation of the DIGISOL DG-WR3001N Wireless Repeater.

1. Cannot get connected to wireless repeater.

   - If encryption is enabled, please re-check WEP or WPA pass-phrase settings on your wireless client.
   - Try to move wireless client closer to the wireless repeater.
   - Unplug the wireless repeater from the power socket, and plug it again after 10 seconds.
   - If all LEDs on wireless repeater are OFF, then ensure that it's correctly powered ON.
   - If still device is not accessible, reset it using the WPS button. Press and hold the WPS button for 10 seconds to reset the Wireless Repeater to factory default (The Power LED will flash if device is restoring to factory default).

2. Wireless client cannot locate the Access Point when DG-WR3001N is set to AP mode.

   - Verify whether 'Broadcast ESSID' is set to off in Access Point's web configuration.
   - Is your wireless client far away from your Access Point? Try to get it closer to the Access Point.
   - Ensure that you input ESSID on your wireless client manually, if ESSID broadcast is disabled.

This product comes with lifetime warranty. For further details about warranty policy and product registration, please visit support section of www.digisol.com

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