

Quick Installation Guide

RANGER SERIES

300Mbps Wireless LAN Access Point with PoE DG-WA3000NP



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Package Contents

The following items should be present in your package:

- DG-WA3000NP Wireless Access Point with PoE.
- 3dBi dipole antenna (2 Nos.)
- Switching Power Adapter (5V DC, 1A)
- Rubber feet (4 Nos.)
- Quick Installation Guide
- Installation Guide CD (includes User Manual & 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 DG-WA3000NP wireless LAN Access Point with PoE! With this high cost-efficiency wireless Access Point, computers and wireless devices which are compatible with IEEE 802.11n can connect to existing wired Ethernet network, at the speed of up to 300Mbps. DG-WA3000NP also supports power over ethernet which helps in easy installation, by eliminating the need of a dedicated power source for the access point.

With Quick Setup installation procedure, any computer user can setup a wireless network environment in very short time - within minutes, even inexperienced users. Just follow the instructions given in this user manual, you can complete the setup procedure.

Product Features

- Complies with IEEE 802.11b/g/n wireless network standards works with other 802.11b/g/n wireless devices.
- Complies with 802.3af PoE standard.
- High speed wireless network, six times faster than conventional 802.11g wireless network (up to 300Mbps).
- Allows wireless devices to connect to existing wired network and share network resources.
- Supports 64/128-bit WEP, WPA, and WPA2 wireless data encryption.
- Supports RADIUS server, only allows users listed in your authorization server to use wireless network.
- Supports MAC address filtering (Only allows specific wireless device of your choice to connect to this Access Point).
- Supports DHCP server function.
- Supports point-to-point and point-to-multi point bridge function.
- Supports WDS (Wireless Distributed System) repeater mode.
- Supports Universal Repeater mode.
- Supports AP Client mode.
- Supports four sets of ESSID to group the different wireless networks.
- Supports hidden SSID function.
- Supports WPS (Wi-Fi Protected Setup), simplifies wireless client setup procedures. Even inexperienced users can setup a wireless network without network technician's help!
- Easy to use web-based GUI (Graphical User Interface) for network configuration and management purposes.

System Requirements

The following system requirements are recommended

- Computer or network devices with wired or wireless network interface card.
- Web browser (Microsoft Internet Explorer 4.0 or above, Netscape Navigator 4.7 or above, Opera web browser, or Safari web browser).
- An available AC power socket (100 240 V, 50/60Hz)

Front View

Below shown is the product front view.



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

LED Name	Light Status	LED Color	Description
PWR	On	Green	The Access Point is switched on and correctly powered.
	On		Wireless WPS mode is enabled.
WLAN	Off	Amber	Wireless network is switched off.
	Flashing		Wireless LAN activity (transferring or receiving data).
	On		LAN port is connected.
LAN	Off	Green	LAN port is not connected.
	Flashing		LAN activity (transferring or receiving data).

Rear View

Below shown is the product Rear View.



Below given is the Access Point interface description.

Interfaces	Description
	Two reverse SMA antenna connectors for screwing detachable
Antennas	antennas enclosed with the product.
Power	Power connector, connects to power adapter.
LAN	Local Area Network (LAN) port.
Reset / WPS	Reset the Access Point to factory default settings (clear all settings) or start WPS function. Press this button and hold for 10 seconds to restore all settings to factory defaults, and press this button for less than 5 seconds to start WPS function.

Hardware Installation

Please follow the below mentioned instructions to build the network connection between your new wireless PoE Access Point and your computers, network devices:

- Fix two detachable dipole antennas to the antenna connectors of the Access Point.
- Onnect the Access Point to ADSL modem, router, or switch/hub in your network through the LAN port of the Access Point by using Ethernet cable.
- Onnect the power adapter (5V DC, 1A) to the wall socket, and then connect the other end of it to the 'Power' socket of the Access Point.
- Please check all the LEDs on the front panel. 'PWR' LED should be steadily ON, 'LAN' LED should be ON if the Access Point is correctly connected to the ADSL modem, router or switch/hub.

Software Installation

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



2 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 AP and the other end to one of the LAN ports on the router. Power ON the router and the AP. Ensure that all the LED's on the Access Point are ON. If not, try the above steps again else click 'Next' to continue.



Enter the AP's password to log in to the AP. The default password is "1234". It is recommended to change the AP'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.

	ware Oulick rade Installation Guide	User Manual Exit againt com
Log in to the AP		
Enter "1234" to the Current Password password (1234) to avoid unauthorize password, you can reset it by pressin	d access to your network. I	If you forget the AP's
Current Password:	••••	
New Password:		_
Confirm New Password:		
		Back Log in
JIGISOL		Service & Support Toll Free - 1808 399 3444 hegdesk@dgtest.com

Onfigure the IP Address of AP for future management. Click 'Next' to continue.

Home	Wireless Name	Wireless Security	Firmw Upgri		Ins	Quick tallatic Guide		Usi	er Manual			Egunol.com
	Configure	the IP Add	dres	s								
	AP in the future	a valid IP address s, you can enter th ur local area netw	is IP a									
		IP Addre	155:	192	. 160		2	. 1				
		Subnet Ma	isk:	255	. 255	. 2	55	. D				
		Default Gatew	way:	0	. 0		0	. 0				
	192.168.2.1, th 192.168.2". Th	i must match your le first 3 numbers i le last number you s IP address on yo	of the / u can a	AP's I Issign	P addr		nould	match	st not con			
•	GISC	JĽ								k Support 800 209 3444 digieol.com	DG-I	WA3000NP

Select an operation mode for your Access Point and click 'Next'. The wizard will guide you to finish the following corresponding settings.

Home	Wireless Name Security	Firmware Guids User Manual Exit Jugende Guids
	Select AP Modes	
	Access Point	Add wireless capability to your current local area network.
	Universal Repeater	
	AP Client	
	Point to Point Bridge	Bridge 2 networks with wireless connection. (For example: 2 buildings or houses)
	Point to Multi-Point Bridge	Bridge multiple networks with wireless connection. (For example multiple buildings or houses)
	WDS Bridge	
		Back Next
	IGISOL	Sancia & Sapport Tell Fina - 10022023444 Helpdevelig tigbunt core

O Configure the settings for the operation mode you have selected.

Access Point

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

	nware Quick grade Installation Us Guide	er Manual Exit	aligned core
Configure Wireless Set	ttings		
Configure the name (SSID) and chann "Digisol", the default wireless channel			
Wireless Name (SSID):	Digisol (Example: myl-lome, john123,	,	
Channel Number:	6		
		Back	Next
DIGISOL		Service & Support Toll Free - 1800 208 3444 helpdeek@dgleat.com	DG-WA3000NF

Universal Repeater

 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 and channel number in Main SSID and Channel Number for the repeater to be identified.

	wware Guick grade Installation Us Guide	or Manual Exit	
Site Survey			
Select the Wireless Router or AP you You can configure the Main SSID for y the Repeater mode, you can leave it b	our Repeater so you can recor		
Root AP's SSID:		Site Survey	
Main SSID:			
Channel Number:	(For Repeater Mode Only) 6		
		Bock	Next
		DOCK	Next
J IGISOĽ		Service & Support Toll Free - 1800 209 3444 helpdesk@digiool.com	DG-WA3000NP

AP Client

 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.

Home Wind		User Manual Exit Bist
Confi	gure Wireless Settings	
Configur "Digisol"		
	Wireless Name (SSID): Cigisol (Example: myHome john	Site Survey
	Channel Number: 📴 💌	
		Bock Next
D IGI	SOĽ	Service & Support Toti Free - 1989 209 Deet help desk@eligisel.com

Point-to-Point / Point-to-MultiPoint / WDS Bridge

- Note: Same setup procedure applies to Point-to-Point Bridge, Pointto-MultiPoint Bridge and WDS Bridge modes.
- For bridge mode, you need at least two Access Points. We will use Point-to-Point Bridge as an example. Select a channel number you wish to use and enter the MAC address of the other Access Point for the bridge. Click 'Next'.

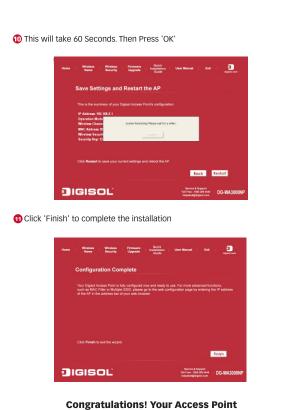
Home Wireless Wireless Fir Name Security Up	meare Quick Instaliation Us Cuide	er Nanual Exit	algant com
Configure Wireless Se	ttings for PtP Bridg	ge Mode	
Configure the Channel number you w of the other AP (has to be in Point to I	vish to use for the bridge connec Point Bridge Mode as well.)		
Channel Number:	0		
MAC Address:	C0:00:00:00:00:00 (Format: XX:XX:XX:XX:XX:XX	9	
		Back	Next
DIGISOL		Service & Support Tail Free - 1880 200 Deas helpdesk@slighel.com	DG-WA3000NP

Onfigure the wireless security settings. It is recommended to use WPA2-PSK (AES) which is the most secured encryption for general users. Then Click 'Next'.

None Windess Windess Name Security	Formate Ovitik Upgrade Installation User Manual Exit adjust.com
Configure Wireless	Security
Please enter the wireless secur you wish to connect or repeat. 1 do not match.	ity key setting that is configured on the wireless router or bridge(s) fou will not be able to connect to those devices if the security settings
Encryption:	WPA2-PSK(AES)
Security key:	Please order 8 to 63 characters
	Back Next
D IGISOĽ	Service & Support fool Free - 1900 200 3444 DG-WA3000NP https://www.godgenet.com

Overify the settings you have configured and click 'Restart'





installation is now finished.

Connect to the Access Point Wirelessly

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

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

Repair	ork Connections				
--------	-----------------	--	--	--	--

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

(1) Wireless Network Connection	3		×
Network Tasks	Choose	e a wireless network	
💋 Refresh network list	Click an iten information	n in the list below to connect to a wireless network in range or to	get more
Set up a wireless network for a home or small office	((† ⁾⁾	digisol	atil
Related Tasks		To connect to this network, dick Connect. You might need to en information.	ter additional
 Learn about wireless networking 			
Change the order of preferred networks	((0))	tikona 18002090044	
Change advanced		Unsecured wireless network.	0000
settings	((Q))	abcd_efgh	
		C Security-enabled wireless network (WPA2)	
			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.

	ires a network key (also called a WEP key or WPA key). A networ wn intruders from connecting to this network.
Type the key, and then c	lick Connect.
Network key:	

Web Management of the Access Point

- To access the web configuration of the Access Point, assign a static IP address to your notebook/desktop computer in the subnet 192.168.2.1 with the subnet mask 255.255.255.255.0 and gateway as 192.168.2.1 ". For example, assign the IP address 192.168.2.10.
- Open a web browser and enter "http://192.168.2.1" in address bar, press 'Enter'. A login screen will appear, assign username as "admin" and password as "1234". Press 'OK' to Log in.

Connect to 192	.168.2.1
R	GK
Default: admin/12	34
User name:	2 I 👻
Password:	
	Remember my password
	OK Cancel

 Following screen will appear on successful Login. You can now configure the Access Point through this web management page.

DIGISOL	D	G-WA3000NP	Wireless Access Point with PoE
Home	Status and Information	n	1
Basic Settings	Below mentioned information can	be used to monitor the Access Point's MAC address, surt	ime code and hardware version.
WPS Setting			
Advanced Settings	System	DG-WA10001P 300/ltips Access Point with PsE	
Security	Uptime	lday 3h On 32s	
Radius Server	Hardware Version	Rec A	
MAC Filtering	Runtime Code Version	1.00	
System Utility	Wireless Configuration	10	
Configuration Tool	ESSO	Digital	
Upgrade	Channel Number	11	
	Security	Disable	
Reset	8550	80:11:02:1a:05:08	
	Associated Clients	1	
	LAN Configuration		
	P Address	192 188 2 1	

Frequently Asked Questions

Following are the solutions to problems that may occur during the installation and operation of the DIGISOL DG-WA3000NP Wireless LAN Access Point with PoE.

- 1. Cannot get connected to wireless Access Point.
 - If encryption is enabled, please re-check WEP or WPA pass-phrase settings on your wireless client.
 - Try to move closer to wireless Access Point.
 - Unplug the Access Point from the power socket, and plug it again after 10 seconds. If the access point is powered through POE, then unplug the ethernet cable from the access point and plug it again after 10 seconds.
 - If all LEDs on Access Point are OFF, please check the status of A/C power adapter, and ensure that it's correctly powered.

- 2. Wireless client cannot locate the Access Point.
 - Verify whether 'Broadcast ESSID' is set to off in Access Point's web configuration.
 - Verify whether the antenna is properly connected and in correct direction.
 - Is your wireless client far away from your Access Point? Try to get 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



■ A product of Smartlink Network Systems Ltd

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