



# DG-WA1102NPLV2

# DIGISOL 2.4GHZ OUTDOOR ACCESS POINT User Manual

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As our products undergo continuous development the specifications are subject to change without prior notice

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#### Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacturer must therefore be allowed at all times to ensure the safe use of the equipment.



# INDEX

1	PRODUCT INFORMATION	4
1.1	HARDWARE INSTALLATION	4
$1^{s_{\mathrm{T}}}$ :	How to connect and charge the AP	4
$2^{\text{ND}}$ :	AP START AND LOG IN	5
$3^{\text{RD}}$ :	WEB GUI INTERFACE SETTING:	9
4 <sup>TH</sup> 5	SHARE INTERNET AND OBTAIN IP ADDRESS AUTOMATICALLY	28
2	TROUBLE SHOOTING:	29





# **1 Product Information**

Thank you for purchasing this Outdoor AP DG-WA1102NPLV2. This manual will instruct you how to configure and manage this AP, enable you to use it in a perfect status. After installing this AP, you will be able to enjoy surfing freely.

Please check the Package Contents before you use it:

- DG-WA1102NPLV2 •
- POE Adapter
- Metal strap\*1
- Patch Cord
- Installation Guide CD

#### 1.1 Hardware installation

#### 1<sup>St</sup>: How to connect and charge the AP

Interface Description



#### Fig 1 Interfaces

Item	Description
Reset	Press it for 10-15 seconds, the AP will restore to factory default.
WAN	Connect with internet cable, in Wi-Fi Repeater, bridge, WISP operation mode, it change
	to LAN port.
LAN	Connect the AP with computer by LAN cable.
DC	For Power supply, the DC's electronic standard is 12V/24V.



- POE: This equipment can be powered over Ethernet, Connect AP's WAN/LAN Port with PoE adapter's POE port by LAN Cable (AP's LAN port and WAN port support the 12V/24V PoE.)
- Please refer to fig 2 for PoE Power and AP configuration



Fig 2 Diagram of PoE Power and AP configuration



Please make sure our AP is working with included Power adapter or PoE adapter, and under right connection way, or the device will be damaged.

### 2<sup>nd</sup>: AP Start and Log in

**1)** Power the AP as shown in fig 2.

**2)** Set a fixed IP address for this computer: The default operation mode of this outdoor AP is Wireless AP, end users should set an IP address for the computer, then you can access the Outdoor AP's IP: Set the computer's IP address as 192.168.1.X (X is number between 1-252), make it same as AP's network segment, then set Subnet mask as 255.255.255.0, Default gateway leave it blank, then click OK.

A.: Please follow fig 3 and fig 4 for wired configuration.



:



Fig 3 Configure the computer's IP address (by wired)

本地连接 Properties ?	Internet Protocol (TCP/IP) Properties	
General Advanced	General	
Connect using:  Qualcomm Atheros AR8151 PCI-E Git Configure  This connection uses the following items:  Configure for Microsoft Naturates	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically • Use the following IP address:	
Electric of Printer Sharing for Microsoft Networks     Electric of Printer Sharing for Microsoft Networks     Electric of Printernet Protocol (TCP/IP)	IP address:         192.168.1.158           Subnet mask:         255.255.255.0           Default gateway:         I	
Install Uninstal Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.  Show icon in notification area when connected	O Obtain DNS server address automatically O Use the following DNS server addresses: Preferred DNS server: Alternate DNS server:	
Notify me when this connection has limited or no connectivity     OK Cancel	Advanced	

Fig 4 Configure the computer's IP (by wired)

B. Please follow fig 5 to configure the computer's IP address wirelessly.



1

2.1	Disable	Cle FE Fanily Contro	Consecturing	Youcar ge Plantings assigned a Feature by Diversion Journey	udomaticalipii jeu network suppo dia adi yaza network administrato
	View Available Wireless Networks		ing out thirds when building	fre apopoier Poetriça	
	Raus		The correction uses the following items	C Ottainas Pladdeis autora	(icole
	Repair		M W AEGE Poteosi (EEE R021-) v0.75	S Justie blowry Patient	
-			R V Denet Purced (ICF4*)	P addecs	12.18.1.158
	Bridge Connections		81	Subre week	\$tt 2tt 2tt 0
	Create Shorts t		incl. Cristel	Default generat	Lange and
	Delaha		Description Description Description Control Protocol/Internet Protoc	C Denie D 4E never adores i	ucadosti
	e eroes		Aide assametwork protocol Bot prairides can	③ Use the billioning ONS served	addesiec
10	Rename			Performant DNE server	(
	Procerbes		Show con in notification area when connect Thothy me when this possection heal inited of	Alternate DNS serves	
-	15				C Marine

Fig 5 Configure the computer's IP Address wirelessly

If you want to connect our AP wirelessly after IP address configuration, please right click Wireless networking Connection, then View Available Wireless Networks. The default SSID is DG-WA1102NPLV2. Click Refresh network list, double click the correct SSID and input the passwords, if you have, then connect. Please refer to fig 6 and fig 7

Not connected, Fi	Disable	ed, Fire
- in something while	View Available Wireless Networks 🔪	CORGON
	Status	
	Repair	
	Bridge Connections	
	Create Shortcut	
	Delete	
	Rename	
	A PROVIDENCE.	

Fig 6 AP Wireless Connection









If your computer has built in 802.11b/g/n wireless adapter, but can't search the available wireless networking after refreshing, please contact the computer supplier or after-sale department after going through the following points:

Right click My Network Places, select Properties, appear Local Area Connection or Other Connection, No Wireless Network Connection

There is Wireless Network Connection in My Network Places, Show General and Advanced after right click Wireless Network Connection and select Properties, but no Wireless Network Configuration in Window



Log in the AP: Open your web browser, type in **192.168.1.200** in the address bar, enter **admin** in white blank bar, then login.

HIGH PERFORMANCE INTELLIGENT WIRELESS OUTDOO	IR CPEYAP	
	<b>a</b>	LOGIN

Fig 8 Log in

## 3<sup>rd</sup>: WEB GUI interface Setting:

#### 1) Status

After login, fig 9 Device Status will be shown:

This page, will show the outdoor AP's default operation mode, channel, connection status, CPU usage, Wireless settings, LAN Setting, AP's Location, AP's hardware/firmware version.





In this Outdoor AP, the default operation mode is AP mode.

Then in 2.4G Wireless Setting, GUI configuration page will be as shown below:

User can configure the SSID, password, band width, channel here, then Apply to finish.

			tatus Wizard Advanced Exit
Mode AP Mode	[+] Wireless setting	X	🕐 Reboot
	Wireless Status ON		
User	SSID DG-WA1102NPI	.V2	Switch
	Broadcast SSID ODisable ③ Enable		
	WIMIM ODisable  Enable		
· ?	Band Width 20MHz		
	Channel * 2.442 GHz (Ch	annel 7)	
Running time 11M38S	Encryption none		DIGISOL-DG-WA1102NPLV2-Build20170104173436
CPU usage	Wire Appl	7	AP position setting
3%	((( 2.4G )))	H	
CPU Frequency:550MHz	DG-WA1102NPLV2	192.168.1.200	
	00:17:7C:7A:AF:B3	00:17:7C:7A:AF:B1	

Fig 10 Wireless Setting

LAN Setting to configure the DHCP or Fix IP for local LAN.

LAN setting	:	$\times$			
Access Type	Static IP				
IP	Static IP DHCP				
Subnet Mask	255.255.255.0				
Manage server IP	192.168.1.1				
Apply Fig 11 LAN Setting					
æ	10 1800-200-3444 (Toll Free)				

Mark@digisol.com



		Status 	Wizard Advanced Exit
Mode AP Mode	Location Information	X	O Reboot
User	AP Location		Switch
Running time 14M59S	Apply	Software Version DIGIS	OL-DG-WA1102NFLV2-Build20170104173436
CPU usage	Wireless setting	LAN setting	AP position setting
1%	2.4G	æ	Ŷ
CPU Frequency:550MHz	DG-WA1102NPLV2	192.168.1.200	
	00:17:7C:7A:AF:B3	00:17:7C:7A:AF:B1	

#### Fig 12 AP Position setting

#### 2) Wizard Configuration:

Click Wizard in Status page, will pop up following page to configure the operation mode:

There are four operation modes of this ceiling wireless AP, and there are explanations for each operation mode for better application.





#### I Gateway Mode:

Click Gateway mode, the following pictures will pop up:

Please choose the right WAN setting mode, then click next to continue.

👆 Gateway Mode					€
First: WAN Settings	Second: Wireless	Third: Complete	1st		
	Static IP	PPPOE(ADSL)	DHCP	2nd	
	The current	access mode is DHCP,Please click	next to configure.		
			)		
		Back Ne	xt 3rd		



Catteway Mout				
First: WAN Settings	Second: Wireless	Third: Complete		
Wireless Settings				
	Wireless Settings			
WLAN Status	ON wireless analyzer			
SSID	DG-WA1102NPLV2	Cł	annel * 2.442 GHz (Channel 7)	_
Encryption	WPAPSK_TKIPAES		Key 66666666	
		Back	Next	

Fig 15 Wireless Setting in Gateway Mode

When you click on Next, then will complete the Gateway mode setting and show the following





#### picture:

🍾 Complete Setting	S		5
First: WAN Settings	Second: Wireless	Third: Complete	
		Equipment is restarting, please wait	
	Congrate	ulate,Settings is completed	

#### Fig 16 Complete the setting in Gateway Mode

DG-WA1102NPLV () Reboot channel 7 User Router Internet CPU usage Wireless setting LAN setting WAN setting 2.2.% 2 4(-는 다 CPU Frequency:550MHz DG-WA1102NPLV2 192.168.1.200 00:17:7C:7A:AF:B3 00:17:7C:7A:AF:B2

When you return to Status, the page as shown below appears:

Fig 17 Status in Gateway Mode

#### II Wi-Fi Repeater mode

Click Wi-Fi Repeater operation mode in Wizard, then following page will pop up, and choose the right SSID to bridge, then click next to finish it.



First: Repeater       Second: Complete         Wireless Repeater         Repeater SSD         Authentication none         Band Width         20MHz         WOS Passthrough	🗞 Repeater Mode		
First: Repeater  Vireless Repeater  Repeater SSID  Authentication none Band Width 20MHz  WOS Passthrough  Back Next  Scan AP  bg4100  00:1770:2558778 Channel: 9  Channel: 9  Channel: 13			
Wireless Repeater         Repeater SSD         Authentication none         Band Width 20MHZ         W WDS Passthrough         Back         Next         Sen AP         bg4100         01770 258773         Channet 9         INFERSE TABLE         Digiol Cad Boor         00518321DCDC         Channet 13         Digiol Cad Boor         00518321DCDC         Channet 13         Digiol Cad Boor         00518321DCDC         Channet 13         Digiol Cad Boor         00170.1C4378       Channet 13         Clonet         If RES: 28 dem Encrypton: WPAPEAFST_TKIPAES         Digiol Cad Boor         0170.1C4378       Channet 3         Clonet       It Res: 24 dem Encrypton: WPAPEAFST_TKIPAES	First: Repeater	Second: Complete	
Wireless Repeater     Repeater SSD     Authentication     Band Wicth     WDS Passthrough     Back     Next     Scan AP     WDS Passthrough     Back     Next     Scan AP     WDS Passthrough     Cooke     bg4100n   00177/C258778   Channel: 9   Clocket     Digited 2nd Boor   00501821DCDC   Channel: 13   Clocket   M RSS: -28 dthm   Encrypton: WPAPENG_TKIPAES   Tinfa   00177/C1643F8   Channel: 3   Clocket			
Repeater SSID Scm AU   Authentication none Image: Com AU   Bard Width 20MHz Image: Com AU   Image: Com AU Image: Com AU   Image: Com AU Image: Com AU   Scm AP Image: Com AU   Scm AP Image: Com AU   Scm AP Image: Com AU   Image: Com AU Image: Com AU   Scm AP Image: Com AU   Scm AP Image: Com AU   Image: Com AU Image: Com AU   Scm AP Image: Com AU   Image: Com AU	Wireless Repeater		
Repeater SSID Scan AF Authentication none Band Width 20MHz WDS Passthrough Back Next Scan AF Scan AF Sca			
Authentication none   Band Width 20MHz   I WDS Passthrough     I WDS Passthrough     Scan AP   bg4100n   00:17/7C:25:87.78   Channel: 9   Closice   I RSS: -45 dBm   Encryption:   WPAPSK_TKIPAES     Digies 12nd Boor   00:10:2018:21:DCDC   Channel: 13   Closice   II RSS: -28 dBm   Encryption:   WPANPA2FSK_TKIPAES     TI Infra   00:17/7C:16:43:F8   Channel: 3   Closice		Repeater SSID	Scan AP
Band Width 20MHz WDS Passthrough WDS Passthrough Scan AP Scan		Authentication	
Band Width 20MHz  WDS Passthrough  WDS Passthrough  WDS Passthrough  Kext  Scan AP  Scan AP  Scan AP  Scan AP  Scan AP  Scan AP  Choice  Digisol 2nd floor  Digisol 2		Aumentication none	
Back Next     Scan AP   bg4100n   00:17:7C:25:87:78   Channel: 9   @RSS: 45 dBm   Encryption: WPAPSK_TKIPAES   Digisol 2nd floor   00:50:18:21:DC:DC   Channel: 13   Choice   eff RSS: -28 dBm   Encryption: WPA/WPA2FSK_TKIPAES   TT Infa   00:17:7C:16:43:F8   Channel: 3   eff RSS: -48 dBm   Encryption: WPA2FSK_TKIPAES		Band Width 20MHz	$\sim$
Back       Next         Scan AP       X         bg4100n       00:17:7C:25:87:78       Channel: 9       Choice         00:17:7C:25:87:78       Channel: 9       Choice         If RSS: -45 dBm       Encryption: WPAPSK_TKIPAES       Image: Choice         Digisol 2nd floor       00:50:18:21:DC:DC       Channel: 13       Choice         If RSS: -28 dBm       Encryption: WPA/WPA2PSK_TKIPAES       Image: Choice       Image: Choice         IT Infra       00:177:C1:04:33F8       Channel: 3       Choice         If RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES       Image: Choice       Image: Choice         If RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES       Image: Choice       Image: Choice         If RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES       Image: Choice       Image: Choice         If RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES       Image: Choice       Image: Choice         If RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES       Image: Choice       Image: Choice         If RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES       Image: Choice       Image: Choice		WDS Passthrough	
Back       Next         Scan AP       X         bg4100n       X         00:17:7C:25:87:78       Channel: 9       Choice         ull RSS: 45 dBm       Encryption: WPAPSK_TKIPAES       Image: Choice         Digisol 2nd floor       Choice       Image: Choice         00:50:18:21:DCDC       Channel: 13       Choice         ull RSS: -28 dBm       Encryption: WPA/WPA2PSK_TKIPAES       Choice         IT Infra       Choice         00:17:7C:16:43:F8       Channel: 3       Choice         ull RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES       Choice			
Back Next     Scan AP     bg4100n   00:17.7C:25:87.78   Channel: 9   01:17.7C:25:87.78   Channel: 9   01:17.7C:25:87.78   Channel: 9   01:17.7C:25:87.78   Channel: 9   Choice   01:17.7C:25:87.78   Channel: 13   Choice   01:17.7C:16:43:F8   Channel: 3   Choice   11 RSS: -28 dBm   Encryption: WPA2PSK_TKIPAES			
Back       Next         Scan AP       X         bg4100n       X         00:17.7C.25.87.78       Channel: 9       Choice         ull RSS: 45 dBm       Encryption: WPAPSK_TKIPAES       T         Digisol 2nd floor       X       X         00:50:18:21:DCDC       Channel: 13       Choice         ull RSS: -28 dBm       Encryption: WPAWPA2PSK_TKIPAES       Choice         IT Infra       00:17.7C:16:43F8       Channel: 3       Choice         ull RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES       Choice       X			
Back Next     Scan AP     bg4100n   00:17:7C:25:87:78   Channel: 9   choice   all RSS: 45 dBm   Encryption: WPAPSK_TKIPAES     Digisol 2nd floor   00:50:18:21:DC:DC   Channel: 13   choice   all RSS: -28 dBm   Encryption: WPA/WPA2PSK_TKIPAES     TI Infra   00:17:7C:16:43:F8   Channel: 3   choice   all RSS: -48 dBm   Encryption: WPA2PSK_TKIPAES			
Back       Next         Scan AP       X         bg4100n       X         00:17:7C:25:87:78       Channel: 9       Choice         ull RSS: 45 dBm       Encryption: WPAPSK_TKIPAES       Image: Choice         Digisol 2nd floor       Choice       Image: Choice         00:50:18:21:DC:DC       Channel: 13       Choice         ull RSS: -28 dBm       Encryption: WPA2PSK_TKIPAES       Choice         IT Infra       Choice       Image: Choice         00:17:7C:16:43:F8       Channel: 3       Choice         ull RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES       Choice			
Scan AP       X         bg4100n       Choice         00:17.7C:25:87.78       Channel: 9       Choice         ull RSS: -45 dBm       Encryption: WPAPSK_TKIPAES       Image: Choice         Digisol 2nd floor       00:50:18:21:DC:DC       Channel: 13       Choice         ull RSS: -28 dBm       Encryption: WPA/PSK_TKIPAES       Choice       Image: Choice         IT Infra       00:17.7C:16:43:F8       Channel: 3       Choice         ull RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES       Choice		Back	Next
Scan AP   bg4100n   00:17:7C:25:87:78   Channel: 9   choice   all RSS: -45 dBm   Encryption: WPAPSK_TKIPAES   Digisol 2nd floor   00:50:18:21:DC:DC   Choine   11 RSS: -28 dBm   Encryption: WPA/WPA2PSK_TKIPAES   IT Infra   00:17:7C:16:43:F8   Channel: 3   Choice   all RSS: -48 dBm   Encryption: WPA2PSK_TKIPAES		Dack	
bg4100nChoice00:17:7C:25:87:78Channel: 9Choiceull RSS: -45 dBmEncryption: WPAPSK_TKIPAESDigisol 2nd floorChoice00:50:18:21:DC:DCChannel: 13ull RSS: -28 dBmEncryption: WPA/WPA2PSK_TKIPAESIT InfraChoice00:17:7C:16:43:F8Channel: 3ull RSS: -48 dBmEncryption: WPA2PSK_TKIPAES	Scan AP		×
O0:17:7C:25:87:78Channel: 9ChoiceullRSS: -45 dBmEncryption: WPAPSK_TKIPAESDigisol 2nd floor00:50:18:21:DC:DCChannel: 1300:50:18:21:DC:DCChannel: 13ChoiceullRSS: -28 dBmEncryption: WPA/WPA2PSK_TKIPAESITI Infra00:17:7C:16:43:F8Channel: 300:17:7C:16:43:F8Channel: 3ChoiceullRSS: -48 dBmEncryption: WPA2PSK_TKIPAES	bg4100n		<u>~</u>
ItemsEncryption: WPAPSK_TKIPAESDigisol 2nd floorChannel: 1300:50:18:21:DC:DCChannel: 13ItemsEncryption: WPA/WPA2PSK_TKIPAESITE InfraChoice00:17:7C:16:43:F8Channel: 3ChoiceItemsItemsEncryption: WPA2PSK_TKIPAES	00:17:7C:2:	5:87:78 Channel: 9	Choice
Digisol 2nd floor00:50:18:21:DC:DCChannel: 13dll RSS: -28 dBmEncryption: WPA/WPA2PSK_TKIPAESITI Infra00:17:7C:16:43:F8Channel: 3dll RSS: -48 dBmEncryption: WPA2PSK_TKIPAES	att RSS: -	45 dBm Encryption: WPAPSK_TKIPAES	E
O0:50:18:21:DC:DC       Channel: 13       Choice         ull       RSS: -28 dBm       Encryption: WPA/WPA2PSK_TKIPAES       ITI Infra         ITI       Infra       00:17:7C:16:43:F8       Channel: 3         Ull       RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES       Choice	Digisol 2nd	d floor	
ull       RSS: -28 dBm       Encryption:       WPA/WPA2PSK_TKIPAES         ITI       Infra       00:17:7C:16:43:F8       Channel: 3       Choice         ull       RSS: -48 dBm       Encryption:       WPA2PSK_TKIPAES       Choice	00:50:18:21	:DC:DC Channel: 13	Choice
IT Infra         00:17:7C:16:43:F8       Channel: 3       Choice         nll       RSS: -48 dBm       Encryption: WPA2PSK_TKIPAES	ull RSS: -	28 dBm Encryption: WPA/WPA2PSK_TKIPAES	
00:17:7C:16:43:F8 Channel: 3 Choice all RSS: -48 dBm Encryption: WPA2PSK_TKIPAES	IT Infra		
III RSS: -48 dBm Encryption: WPA2PSK_TKIPAES	00:17:7C:10	5:43:F8 Channel: 3	Choice
	ull RSS: -	48 dBm Encryption: WPA2PSK_TKIPAES	
teee	teee		
Refresh			Refresh

Fig 18 Repeater Mode

Click Return button, will go back to Status, shows Repeater mode data, shows fail or success, and user can configure this data in this page if required.







Please note, in Wi-Fi Repeater operation mode, the wireless is disabled by default, will not broadcast the wireless SSID.

If you need to enable SSID, please do based on following picture:

Please note, when you click on wireless relay settings, will go back to fig 18 wi-fi repeater setting directly.

#### **III WISP Operation mode:**

Click WISP operation mode in Wizard, then will pop up the configure page, please set the WISP operation mode based on the steps shown in picture:





WISP Mode			
First: Repeater	Second: WAN	Third: Cor	nplete
Wireless Repeater			
	Repeater SS	SID Wireless 2.4G	Scan AP
	Authenticati	on WPA2PSK_TKIPAES	
	к	(ev 66666666	
		Back	Next

Fig 20 WISP Mode

Configure the right WAN setting in WISP operation mode, then next to restart the outdoor AP.

WISP Mode				
First: Repeater	Second: WAN	Third: Complete		
	Static IP	PPPOE(ADSL)	DHCP	
	The curren	t access mode is DHCP,Please click next t	to configure.	
		Back Next		

Fig 21 WAN setting in WISP mode

Then complete and back to status, will show the connection fail or success, then can configure





#### the data based on request:

		Status	
Mode WISP			O Reboot
User	1	Router	Internet
Running time 1M2S		Software Version DIGISO	L-DG-WA1102NPLV2-Build20170104173436
CPU usage	Wireless relay setting	LAN setting	WAN setting
5%	((0))		e
CPU Frequency:550MHz	Relay connection off	192.168.1.200 00:17:7C:7A:AF:B1	

Fig 22 Status in WISP mode

Remark: When you click on WAN setting the screen will pop up as shown in the following picture:

1993 B. 18	PPPOE(ADSL)	
WAN access mode	DHCP	
	Static IP	
	Apply	

Fig 23 WAN setting in WISP mode

#### IV AP Operation mode:

Set the wireless data, AP Location info as required, then click next to continue and enter into LAN

setting.

After LAN setting, complete the AP mode configuration and back to Status:





8	AP M	ode		D
	First	: Wireless	Second : LAN Third:Complete	
1	Wireles	ss Settings		
			Wireless Settings	
		WLAN Status	ON wireless analyzer	
		SSID	Wireless 2.4G Channel * 2.442 GHz (Channel 7)	
		Encryption	WPA2PSK_TKIPAES V Key 666666666	
1	Locatio			
		APL		
			Back Next	

Fig 24 Wireless setting in AP Mode

In this part, there is Wireless Analyzer, to analyse the Wireless AP/ Router's channel to avoid wi-fi interface. Picture as shown in fig 25.



Fig 25 Wi-Fi Channel analysis



🔥 AP Mode			Ċ
First: Wireless	Second : LAN	Third:Complete	
LAN setting			
		Access Type Static IP DHCP	
		Back	

Fig 26 LAN Setting in AP Mode



#### Fig 27 Status in AP Mode

#### **V WDS operation mode**

In WDS setting two AP's work in WDS operation mode:

A. Connect with WDS1 device and enter into the GUI page, Click Wizard and Choose SUPER WDS mode, input the SSID, Band Width, Channel as you like, then click next to finish. For example, the SSID is Wireless 2.4G-test-02.



Super WDS					<b></b>
First:WDS Setting	Second: Complet	e			
Super WDS setti	ing				
SSID	Wireless 2.4G				
Band Width	20MHz	~	Channel	* 2.442 GHz (Channel 7)	✓ wireless analyzer
MAC1		Scan AP	MAC2		Scan AP
MAC3		Scan AP	MAC4		Scan AP
Encryption	Open	$\mathbf{v}$			
Location Inform	ation				
	AP Location		AP Name		
			_	-	
		Back	Next		

B. Enter into WDS 2 device's GUI page, click Wizard, then choose super WDS function. In this page, click scan AP to choose WDS 1's SSID.

In this page, can set WDS 2 device's SSID as Wireless 2.4G-Test-01.

Scan AP	×
DIGISOL	
RSS: -54 dBm util Encryption: none	Choice wireless ana
DIGISOL	Scan AP
00:17:7C:3D:03:40 Channel: 6	Choice
RSS: -64 dBm ut Encryption: none	Scan AP
DIGISOL	
00:17:7C:5A:A0:25 Channel: 6	Choice
RSS: -73 dBm util Encryption: none	
n Smartnet	
tio	Scan AP       DIGISOL       00:17:7C:41:2A:F4       Channel: 6       RSS: -54 dBm       III Encryption: none       DIGISOL       00:17:7C:3D:03:40       Channel: 6       RSS: -64 dBm       III Encryption: none       DIGISOL       00:17:7C:5A:A0:25       Channel: 6       RSS: -73 dBm       III Encryption: none       Smartnet

C. Click next to finish, then WDS2 will work with WDS1.



Super WDS				_		5
First:WDS Setting	Second: Complete					
Super WDS setti	ng					
SSID	Wireless 2.4G-test-01					
Band Width	20MHz		Channel	* 2,442 GHz (Channel 7)	~	wireless analyzer
MACI	78:D3:60:E8:46:D2	Scan AP	MACZ			Scan AP
MAC3		Scan AP	MAG			Scart AP
Encryption	Open					
		Back	Next			

- D. Back to WDS 1, Wizard---Super WDS---Scan AP---Choose WDS 2 device's SSID, then WDS1 will work with WDS2.
- E. If WDS 3 device should work with WDS1, scan WDS1, then make WDS3 to work with WDS1. And in WDS1, can scan WDS3's SSID also if needed.

#### 3) Advanced Setting:

In advanced setting, user can check the ceiling AP's firmware version, working status, 2.4G

wireless, LAN Status, upgrade firmware, Reset.

Let's Click Advanced Setting in status page, will show return home, Setup Wizard which was shown earlier.

The following will be seen: Device Status, Wireless, Network and Management.





	igs	×
n Return home	Status Wireless Status LAN Status	
😥 Setup Wizard	Status	
Device Status	Software Version DIGISOL-DG-WA1102NPLV2-Build20170104173436	
211 Wireless	Hardware Version V5.0	
Network	Uptime 5M17S	
💾 Management		

Fig 28 Device Status

Device Status: In this page, mainly to check the ceiling AP's status in firmware version, Wireless



<u> </u>   ]-	Advanced Settin	ngs	$\times$
â	Return home	Status Wireless Status LAN Status	
٢	Setup Wizard	Wireless Status	
-1/	Device Status	Wireless Status Enable	
zılİ		SSID IT Infra	
2	Network	MAC 00.17.7C.7A:AF:B3	
ð	Management	Channel 7	
		Encryption None	
		Connected Users 0 Client list	

Fig 29 2.4G Wireless Status



1HT.	† Advanced Settings ×				
Â	Return home	Status Wireless Status LAN Status			
٢	Setup Wizard	LAN Status			
-1/	Device Status	LAN IP 192.168.1.200			
zıtl	Wireless	Submet Mask 255.255.255.0			
	Network	MAC 00:17:7C:7A:AF:B1			
Manage server IP 192.168.1.1 DHCP Status Disable		Manage server IP 192.168.1.1			
		DHCP Status Disable			
		DHCP address range 192.168.1.2 — 192.168.1.252			
		Assigned IP 0 DHCP list			

Fig 30 LAN Status

#### 2.4G Wireless Setting:

This part, will show the Wireless Basic Setting, Virtual AP, Access control and Advanced Setting:

HI.	Advanced Settin	ings	×
资	Return home	Basic Settings Virtual AP Access Control Andvanced Settings	
٢		Wireless Basic Settings	
-1/	Device Status	Wireless Status ON wireless analyzer	
zıl	Wireless	SSID IT Infra	
2	Network	Broadcast SSID O Disable ③ Enable	
		WMM Obisable Enable	
	Management	Channel	
		Band Width 20MHz	
		Channel * 2.442 GHz (Channel 7)	
		Authentication	
		Encryption none	
		Apply	

Fig 31 Basic Setting in 2.4G Wireless

#### Virtual AP:

There are 3 virtual AP in this outdoor AP, if needed virtual SSID, then users can configure it as shown in the following picture:





Fig 32 Virtual AP

Access Control: Mainly shows MAC allow or deny:

H Advanced Settings					
🕅 Return home	Basic Settings Virtual AP Access Control Andvanced Settings				
😥 Setup Wizard	Wireless Access Control				
🔤 Device Status	Access Control Allow Listed Apply				
zil Wireless	MAC Add				
Network	Access Control List Clear Association STA list Refresh				
💾 Management					

Fig 33 MAC Access Control

#### **Advanced Settings:**

This page, will show the regional, RF Power, Max user access.



1HT-	l     Advanced Settings ×					
斎	Return home	Basic Settings Virtual AP Access Control And	Ivanced Settings			
٢		Advanced Settings				
-1/-	Device Status	Regional	India	Channel(1-13)		
zıtl	Wireless	MODE	802.11N/G			
2	Network	RF Output Power	100%			
e	Management	Packet Threshold	2346	(256-2346)		
		RTS Threshold	2346	(0-2347)		
		Ack Timeout control	64	(0-255)us		
		Beacon interval	100	(100-1024)ms		
		MAX User	64	(Range 0-64 0 not limited)		
		Coverage Threshold	-95	(-95dBm~-65dBm)		
		Aggregation on	Short GI ON	User isolation OFF		
			Apply			

Fig 34 Advanced Setting

#### Network setting:

This page, mainly shows the LAN setting and VLAN as follows:

1H	Advanced Settings			X
ര്	Return home	LAN Settings VLAN		
٢		LAN Settings		
-1/	Device Status	Access Type	Static IP	
zılİ		IP	Static IP DHCP	
2	Network	Subnet Mask	255.255.255.0	
F	Management	Manage server IP	192.168.1.1	
			Apply	
			** 2	

Fig 35 Network Setting



I↑↑ Advanced Settings     ×							
🔗 Return home	LAN Settings VLAN						
🚱 Setup Wizard	VLAN						
Device Status		VLAN-ID(3-4094)	AP	VAP1	VAP2	VAP3	
wireless		VLAN ID from Switch		✓			
Network							
🖼 Management							
			F	φply			

Fig 36 Tag VLAN Setting

#### Management:

This part, shows the system time, Logs, upgrade firmware, system, user info.

And we show System time, how to upgrade firmware and system page to users:

[ <b>  </b> Advanced Setti	ings	×
Return home	System Time Signal tracking Logs Upgrade Firmware System User	
📀 Setup Wizard	System Time	
we Device Status	System Time 2015-10-30 10:56:33 Sync with Host	
aill Wireless	Auto restart 🔲 0:00 🔲 one day	
Network		
Management		
	Abhili	

Fig 37 System Time



|| Advanced Settings Х 🗥 Return home Signal tracking User System Time Logs Upgrade Firmware System 🚯 Setup Wizard Signal tracking SSID MAC Zil Wireless Signal strength 🦲 Network track status cease tracking 🖰 Management In the procedure of signal tracking, the unexpectable effects probably occur in Tx/Rx data transaction. Please press "Stop Tracking" button ly after signal ti

#### Fig 38 Signal Tracking



#### Fig 39 LOG info



#### Fig 40 Firmware Upgrade



[ <del> </del> ]	Advanced Settings				
资	Return home	System Time Signal tracking Logs Upgrade Firmware <mark>System</mark> User			
0		Save/Reload Settings			
-1/	Device Status	Backup Backup			
zıl		Restore Choose File No file chosen Restore			
2	Network	Deset Default Reset Default			
ß	Management	Reboot Reboot			



$\amalg$ Advanced Settings $ imes$				
🔗 Return home	System Time Logs Upgrade Firmware System User			
😥 Setup Wizard	User			
🖅 Device Status	Old Password			
zıl Wireless	Password			
Network	Confirm Password			
💾 Management				



## 4<sup>th</sup> Share Internet and Obtain IP address automatically

Set computer's TPC/IP as Obtain an IP address automatically, Obtain DNS server address automatically as shown in following picture. The computer will obtain the IP address from router or base station to get Internet.

👃 本地连接 Status	上本地连接 Properties ? 🗙	Internet Protocol (TCP/IP) Properties 🛛 🔹 🛛 🔀
General Support	General Advanced	General Alternate Configuration
Connection Status: Duration:	Connect using: I Qualcomm Atheros AR8151 PCI-E Git Configure	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Speed:	This connection uses the following items:	Obtain an IP address automatically
	Client for Microsoft Networks  File and Printer Sharing for Microsoft Networks  Ones Packet Scheduler  Construction in the second seco	Use the following IP address:
Activity	Install Uninstall Properties	Default gateway:
Packets:	Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Use the following DNS server addresses: Preferred DNS server:
Properties Disat	✓ Show icon in notification area when connected ✓ Notify me when this connection has limited or no connectivity	Alternate DNS server:
	OK Cancel	OK Cancel



#### **Trouble Shooting:** 2

The Failure phenomenon and solution

Failure phenomenon	Solution
SYS Indicator off	Please make sure the PoE module connection is right. POE Port connects with AP, LAN port connects with
	computer
Can't reach Wireless AP through Web page	Please check the IP address of computer and Wireless AP to see whether they are in same networking segment. The method is click "start"-"Run" input "cmd", ping 192.168.1.200 to test the Wireless AP connectivity. Reset Wireless AP and load it again; Please make sure the IP address 192.168.1.200 is not occupied by other devices in Wireless AP's networking; Check computer and cable problem, recommend to use 10/100M UTP unshielded cable; Clean up Arp binding from "Start"-"Run" input"cmd" arp –d Clean the IE Brower's temporary files and Cache file.
Wireless AP can't connect with AP (the status display disconnected)	Try to scan the avaliable wireless networking again; Make sure the Wireless AP's wireless standard (11b/g/n, 2.4G) is correct; The Security and passwords are matched between Wireless AP and AP; The signal strength of AP is too weak to connect, should be more than -75dBm;
Can't scan the wireless AP	Scan it several times more; Make sure there are 5G signal existing. Reset the Wireless AP, scan it again after Wireless AP restart;
The connection of Wireless AP and AP is success, but the computer can't share internet	Please Check the computer's IP address and DNS setting. If it is dynamic, set the network card as automatically obtain. If it is static IP, please contact with ISP for correct IP address and DNS address.
How to Reset Wireless AP	Press the "Reset" button more than 15 seconds after power on. The Wireless AP will restore factory default after the Wireless AP restart.

This product comes with One Year warranty. For further details about warranty policy and Product Registration, please visit support section of www.digisol.com