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## **Captive Portal** Authentication Settings - Ticket

The Captive Portal is a built-in web authentication server. When a station connects to an AP, the web brower will be redirected to a web authentication page. In this windows, user can view and configure the Captive Portal settings. Click the Add button to add a new entry. Click the Delete or Delete All button to remove a specific entry or all the entries configured.

Encryption Type:	Select the captive portal encryption type here. Options to choose from are Ticket, User/ Password, Remote Radius, LDAP and POP3. In	D-Link Maintenar	DAP-2360 nce 👻 📓 Configuration 👻 🤯 System 🙋 Logout 🖤 Help
	this section we'll discuss the Ticket option.	DAP-2360	Captive Portal Authentication
Ficket Quantity:	Enter the number of ticket that will be used here.	Advanced Settings	Encryption Type Passcode  Passcode Settings Passcode Quantity
Duration:	Enter the duration value, in hours, for this ticket.	VLAN	Duration     Hours       Last Active Day     Year 2014 V
Last Active Day:	Select the last active date for this ticket here. Year, Month and Day selections can be made.	ARP Spoofing Prevention Bandwidth Optimization P AP Array Captive Portal Captive Portal	User Limit Add Clear Delete All Passcode Duration Last Active Day User Limit Delete
User Limit:	Enter the maximum amount of users that can use this ticket at the same time.	Admentication Settings	
	I		Add Captive Profile Edit Delete

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# **Authentication Settings - User/Password**

Encryption Type:	Select the captive portal encryption type here. Options to choose from are Ticket, User/Password,	D-Link	and the second	DAP-2360
Restricted Subnets: Username: Password:	Remote Radius, LDAP and POP3. In this section we'll discuss the User/Password option. Enter the restricted subnets here. Access to these subnets will denied to guest accounts. Up to four restricted subnet entries can be defined. Enter the username for the new account here. Enter the password for the new account here.	Home Maintenar      DAP-2360      Dasic Settings     Advanced Settings     Advanced Settings     Wireless Resource     Muti-SSID     VLAN     Intrusion     Schedule     Internal RADIUS Server     ARP Spoofing Prevention     Bandwidth Optimization     AP Array     Captive Portal     Authentication Settings     Login Page Upload     WEB Redirection	Ince Configuration System Logout Captive Portal Authentication Encryption Type Username/Password V Username/Password Settings IP Filter Settings Restricted Subnets (example:192.168.0.0/16) 1. 2. 3. 4. Username Password Group Manager V Add Clear Username Group Edit	Help
Group.	to choose from are Manager and Guest. Guest accounts will have limited access.	H DHCP Server     DHCP Server     Filters     Traffic Control     Status	Captive Profile Edit	Add ) Delete

## **Authentication Settings - Remote RADIUS**

Encryption Type:	Select the captive portal encryption type here. Options to choose from are Ticket, User/Password, Remote Radius, LDAP and POP3. In this section	D-Link Maintenar	DAP-2360 nce 👻 📮 Configuration 👻 🐳 System 🛛 🙋 Logout 🛞 Help
	we li discuss the Remote Radius option.	DAP-2360	Captive Portal Authentication
Remote Radius Type:	Select the remote RADIUS server type here. Currently, only SPAP will be used.	Advanced Settings Advanced Settings Wireless Resource Multi-SSID WLAN	Encryption Type Remote RADIUS  Remote RADIUS Settings Remote RADIUS Type SPAP  Radius Server Settings
Radius Server:	Enter the RADIUS server's IP address here.	Schedule	Radius Server Radius Port 1812
Radius Port:	Enter the RADIUS server's port number here.	ARP Spooting Prevention     Bandwidth Optimization     P    AP Array     Captive Portal	Accounting Server Settings Accounting Mode Disable Accounting Root Disable Dis
Radius Secret:	Enter the RADIUS server's shared secret here.	Authentication Settings	Accounting Secret
Accounting Mode:	Select to Enable or Disable the accounting mode here.	B DHCP Server     Fiters     Fiters     Fraffic Control     Status	Captive Profile Edit Delete
Accounting Server:	Enter the accounting server's IP address here.		
Accounting Port:	Enter the accounting server's port number here.		
Accounting Secret:	Enter the accounting server's shared serect here.		

# **Authentication Settings - LDAP**

Encryption Type:	Select the captive portal encryption type here. Options to choose from are Ticket, User/Password,	D-Link <sup>®</sup>					DAP-2360
	Remote Radius, LDAP and POP3. In this section we'll discuss the LDAP option.	🔹 Home 🛛 🔏 Maintenar	nce 🔹 🔡 Ci Captive Porta	onfiguration -	😓 System	🛛 Logout	() Help
Server:	Enter the LDAP server's IP address or domain name here.	Advanced Settings     Advanced Settings     Performance     Wireless Resource     Multi-SSID     WI AN	Encryption Type LDAP Settings Server		~		
Port:	Enter the LDAP server's port number here.	Intrusion Schedule	Port Authenticate Mode Username	389 Simple V			
Authenticate Mode:	Select the authentication mode here. Options to choose from are Simple and TLS.	Bandwidth Optimization     AP Array     Captive Portal     Athentication Settings	Password Base DN Account Attribute			ou=,dc=) ex.cn)	
Username:	Enter the LDAP server account's username here.	E Login Page Upload WEB Redirection E I I I I I I I I I I I I I I I I I I I	Identity	[	1	Auto Copy	(111)
Password:	Enter the LDAP server account's password here.	E Status	-	Captive Profile	_	Edit	Delete
Base DN:	Enter the administrator's domain name here.						
Account Attribute:	Enter the LDAP account attribute string here. This string will be used to search for clients.						
Identity:	Enter the identity's full path string here. Alternatively, select the Auto Copy checkbox to automatically add the generic full path of the web page in the identity field.						

## **Authentication Settings - POP3**

Encryption Type:	Select the captive portal encryption type here. Options to choose from are Ticket, User/Password, Remote Radius, LDAP and POP3. In this section	D-Link Maintenar	nce 🕶 📮 Con	ifiguration 👻	🐳 System	🖉 Logout	DAP-2360
	we'll discuss the licket option.	DAP-2360	Captive Portal	Authentication	n	_	
Server:	Enter the POP3 server's IP address or domain name here.	Advanced Settings	Encryption Type POP3 Settings Server	POP3	~		
Port:	Enter the POP server's port number here.	Intrusion Schedule Internal RADIUS Server	Port Connection Type	110 None 🗸			
Connection Type:	Select the connection type here. Options to choose from are None and SSL/TLS.	Bandwidth Optimization     AP Array     Captive Portal     Authentication Settings     Login Page Upload     WEB Redirection					Add

DHCP Server
 Filters
 Traffic Control

E Status

Delete

Edit

Captive Profile

# Login Page Upload

In this window, users can upload a custom login page picture that will be used by the captive portal feature. Click the Browse button to navigate to the image file, located on the managing computer and then click the Upload button to initiate the upload.

Upload picture from file: In this field the path to the image file, that will be uploaded, will be displayed. Alternatively, the path can be manually entered here.



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# **Web Redirection**

In this windows, users can view and configure the Web redirection settings for the captive portal hosted by this access point. Wireless clients will be redirected to this web site prior and after authentication. Click the Save button to accept the changes made.

Web Redirection:	Select this checkbox to enable the Web redirection feature.	1
Web Site:	Enter the destination web site's address here.	



# DHCP Server Dynamic Pool Settings

The DHCP address pool defines the range of the IP address that can be assigned to stations in the network. A Dynamic Pool allows wireless stations to receive an available IP with lease time control. If needed or required in the network, the DAP-2360 is capable of acting as a DHCP server.

Function En- able/Disable:	Dynamic Host Configuration Protocol (DHCP) assigns dynamic IP addresses to devices on	D-Link				DAP-2360
	the network. This protocol simplifies network	🔹 Home 🔏 Maintenance	e 👻 📑 Configuration 👻	System	M Logout	🕐 Help
	management and allows new wireless devices	DAP-2360	Dynamic Pool Settings			
	the need to manually assign new IP addresses. Select <b>Enable</b> to allow the DAP-2360 to function as a DHCP server.	AN     Vireless     LAN     Pv6     Advanced Settings     Performance     Wireless Resource     Wireless Resource	DHCP Server Control Function Enable/Disable Dynamic Pool Settings IP Assigned From The Range of Pool (1-254)	Disable		
IP Assigned From:	Input the first IP address available for assignment on your network.	VLAN Intrusion Schedule Internal RADIUS Server ARP Spoofing Prevention	Subnet Mask Gateway WINS DNS	255.255.255.0		
The Range of Pool (1-254):	Enter the number of IP addresses available for assignment. IP addresses are increments of the IP address specified in the "IP Assigned From" field.	AP Array     Captive Portal     Authentication Settings     Login Page Upload     WEB Redirection     DHCP Server	Domain Name Lease Time (60 - 31536000 sec)	dink-ap	C	Save
Subnet Mask:	All devices in the network must have the same subnet mask to communicate. Enter the submask for the network here.	Static Pool Settings Static Pool Settings Current IP Mapping List Filters Status				
Gateway:	Enter the IP address of the gateway on the network.					
WINS:	Specify the Windows Internet Naming Service (W the IP address of a network computer that has a d	(INS) server address for ynamically assigned IP	r the wireless network. address.	WINS is a sys	tem that de	termines

### Section 3 - Configuration

DNS:	Enter the IP address of the Domain Name System (DNS) server. The DNS server translates domain names such as www.dlink. com into IP addresses.
Domain Name:	Enter the domain name of the network, if applicable. (An example of a domain name is: www.dlink.com.)
Lease Time (60-31536000 sec):	The lease time is the period of time before the DHCP server will assign new IP addresses.

### **Static Pool Setting**

The DHCP address pool defines the range of IP addresses that can be assigned to stations on the network. A static pool allows specific wireless stations to receive a fixed IP without time control.

Function En- able/Disable:	Dynamic Host Configuration Protocol (DHCP) assigns IP addresses to wireless devices on the network. This protocol simplifies network	D-Link				DAP-2360
	management and allows new wireless devices to receive IP addresses automatically without the need to manually assign IP addresses. Select <b>Enable</b> to allow the DAP-2360 to function as a DHCP server.	DAP-2360 DAP-2360 Basic Settings LAN IPv6 Advanced Settings Performance Wireless Resource Multi-SSID	Configuration Static Pool Settings DHCP Server Control Function Enable/Disable Static Pool Setting Host Name Assigned IP	Disable 🗸	Logout	
Assigned IP:	Use the Static Pool Settings to assign the same IP address to a device every time you start up. The IP addresses assigned in the Static Pool list must NOT be in the same IP range as the Dynamic Pool. After you have assigned a static IP address to a device via its MAC address, click <b>Save</b> ; the device will appear in the Assigned Static Pool at the bottom of the screen. You can edit or delete the device in this list.	Wilti-ss Resource Wilti-ss Resource VLAN Intrusion Schedule Internal RADIUS Server ARP Spoofing Prevention Bandwidth Optimization AP Array Captive Portal Athentication Settings Login Page Upload WEB Redirection DHCP Server Dynamic Pool Settings Static Pool Settings Current IP Mapping List Filters Traffic Control	Assigned MAC Address ::::: Subnet Mask 255.255.0 Gateway WINS DNS Domain Name Host Name MAC Address IF		dress Edit	Save Delete
Assigned MAC Address:	Enter the MAC address of the device requesting association here.	t Status				
Subnet Mask:	Define the submask of the IP address specified in	the "IP Assigned From"	′field.			

### Section 3 - Configuration

Gateway:Specify the Gateway address for the wireless network.WINS:Specify the Windows Internet Naming Service (WINS) server address for the wireless network. WINS is a system that determines<br/>the IP address of a network computer with a dynamically assigned IP address, if applicable.DNS:Enter the Domain Name System (DNS) server address for the wireless network. The DNS server translates domain names such as<br/>www.dlink.com into IP addresses.Domain Name:Specify the domain name for the network.

## **Current IP Mapping List**

This window displays information about the current assigned DHCP dynamic and static IP address pools. This information is available when you enable DHCP server on the AP and assign dynamic and static IP address pools.

Current DHCP Dynamic Profile:	These are IP address pools the DHCP server has assigned using the dynamic pool setting.	D-Link	Pontouration -	Sustan		DAP-2360
Host Name: Binding MAC Address:	The host name of a device on the network that is assigned an IP address from the DHCP dynamic pool. The MAC address of a device on the network that is assigned an IP address from the DHCP dynamic	Advanced Settings	Current IP Mapping List Current DHCP Dynamic Pools Host Name Binding MAC Address Current DHCP Static Pools Host Name Binding MAC Address	Assigned IP Addres	s Lease i	Time:
Assigned IP Address: Lease Time:	The current corresponding DHCP-assigned IP address of the device. The length of time that the dynamic IP address will be valid.	ARP Spoofing Prevention Bandwidth Optimization AP Array Captive Portal Login Page Upload WEB Redirection DHCP Server Dynamic Pool Settings Static Pool Settings Current IP Mapping List				
Current DHCP Static Pools:	These are the IP address pools of the DHCP server assigned through the static pool settings.	Traffic Control				
Host Name:	The host name of a device on the network that is assigned an IP address from the DHCP dynamic po	pol.				
Binding MAC Address:	The MAC address of a device on the network that i	s within the DHCP stat	tic IP address pool.			
Assigned IP Address:	The current corresponding DHCP-assigned static If	P address of the device	<u>.</u>			

# **Filters** Wireless MAC ACL

Wireless Band:	Displays the current wireless band rate.	D.I ink	DAP-2360
Access Control	Select <b>Disable</b> to disable the filters function.	A Home Maintenar	nce 🔹 📑 Configuration 👻 🥪 System 🙍 Logout 👘 Hell
List: MAC Address: MAC Address	Select <b>Accept</b> to accept only those devices with MAC addresses in the Access Control List. All other devices not on the list will be rejected. Select <b>Reject</b> to reject the devices with MAC addresses on the Access Control List. All other devices not on the list will be accepted. Enter each MAC address that you wish to include in your filter list, and click <b>Add</b> . When you enter a MAC address, it appears in this	DAP-2360 Basic Settings Univeless LAN IPv6 Advanced Settings Performance Witiess Resource Multi-SID VLAN Intrusion Schedule Internal RADIUS Server ARP Spoofing Prevention Bandwidth Optimization AP Array Captive Portal Advanced Settings Login Page Upload WEB Redirection DHCP Server DHCP Server DHCP Server Static Pool Settings Static Pool Settings Current IP Mapping List	Wireless MAC ACL Settings         Wireless Band       2.4GHz +         Access Control List       Disable +         MAC Address       ::::::::::::::::::::::::::::::::::::
	remove it from this list.	Wireless MAC ACL WLAN Partition	Upload ACL File
Upload ACL File:	You may create an ACL list and upload it to the access point instead of manually entering the information. Once created, click the <b>Browse</b> button and locate your file. Select it and then click <b>Upload</b> .		Download ACL File Load ACL File to Local Hard Download Driver : Save
Download ACL File:	Click <b>Download</b> to export the ACL to a file on your computer.		

## **WLAN Partition**

Wireless Band:	Displays the current wireless band rate.	D-I
Link Integrity:	Select Enable or Disable.	🔅 Home
Ethernet to WLAN Access:	The default is <b>Enable</b> . When disabled, all data from the Ethernet to associated wireless devices will be blocked. Wireless devices can still send data to the Ethernet.	DAP-2380
Internal Station Connection:	The default value is <b>Enable</b> , which allows stations to inter-communicate by connecting to a target AP. When disabled, wireless stations cannot exchange data through the AP.	VLA     V

			System	Cogour	
DAP-2380	WLAN Partition				
Wireless LAN LAN LAN LAN Performance Wireless Resource Multi-SSID VLAN Schedule Chitrusion Schedule Chitrusion AP Array Captive Portal AP Array Captive Portal Captive Por	Wireless Band Link Integrity Ethernet to WLAN Access Internal Station Connection Primary SSID Multi-SSID 1 Multi-SSID 2 Multi-SSID 3 Multi-SSID 4 Multi-SSID 5 Multi-SSID 6 Multi-SSID 7	2.4GHz • Disable • Enable • © Enable © Enable © Enable © Enable © Enable © Enable © Enable © Enable	<ul> <li>Disable</li> <li>Disable</li> <li>Disable</li> <li>Disable</li> <li>Disable</li> <li>Disable</li> <li>Disable</li> <li>Disable</li> <li>Disable</li> </ul>	© Guest mode Guest mode Guest mode Guest mode Guest mode Guest mode Guest mode	Save

# **Traffic Control** Uplink/Downlink Settings

The uplink/downlink setting allows users to customize the downlink and uplink interfaces including specifying downlink/uplink bandwidth rates in Mbits per second. These values are also used in the QoS and Traffic Manager windows. Once the desired uplink and downlink settings are finished, click the Save button to let your changes take effect.

Downlink Bandwidth:	The downlink bandwidth in Mbits per second.	D-Link	DAP-23	860
Downlink Bandwidth: Uplink Bandwidth:	The downlink bandwidth in Mbits per second. Uplink Bandwidth: The uplink bandwidth in Mbits per second.	DAP-2360 DAP-2360 DAP-2360 DAP-2360 DAP-2360 Performance Wireless Resource Multi-SSID VLAN Intrusion Schedule Internai RADIUS Server ARP Spoofing Prevention Bandwidth Optimization DHCP Server Filters DHCP Server Filters Status	Ace Configuration System Logout Configuration System Configuration Logout Configuration System Logout Configuration System Configuration Configuration System Configuration Configuration System Configuration Confi	i60
			Save	0

## QoS

Quality of Service (QoS) enhances the experience of using a network by prioritizing the traffic of different applications. A QoS Rule identifies a specific message flow and assigns a priority to that flow. For most applications, the priority classifiers ensure the right priorities and specific QoS Rules are not required. QoS supports overlaps between rules. If more than one rule matches a specific message flow, the rule with the highest priority will be used.

QoS (Quality of Service):	Enable this option if you want to allow QoS to prioritize your traffic Priority Classifiers.	D-Lint
HTTP:	Allows the access point to recognize HTTP transfers for many common audio and video streams and prioritize them above other traffic. Such streams are frequently used by digital media players.	DAP-2360  DAP-2360  Advanced Settings  Advanced Settings  Advanced Settings  Multi-SSD  Multi-SSD  VLAN  Intrusion  Schedule
Automatic:	When enabled, this option causes the access point to automatically attempt to prioritize traffic streams that it does not otherwise recognize, based on the behavior that the streams exhibit. This acts to de-prioritize streams that exhibit bulk transfer characteristics, such as file transfers, while leaving interactive traffic, such as gaming or VoIP, running at a normal priority.	ARP Spoofing Pre ARP Spoofing Pre Bandwidth Optimi AP Array Captive Portal DHCP Server Filters Giffic Control Gos Cast Captive Portal Captive Porta

DAP-2360	QoS		
Advanced Settings	Enable QoS		
Wireless Resource	Advanced QoS	Sector and the sector of the s	
≣ Multi-SSID ≣ VLAN	Downlink Bandwidth	100 Mbits/sec	
Intrusion	Uplink Bandwidth	100 Mbits/sec	
Internal RADIUS Server	ACK/DHCP/ICMP/DNS Priority	Highest Priority V Limit 100 % Port 53,	67,68,546,547
Bandwidth Optimization	Web Traffic Priority	Third Priority V Limit 100 % Port 80.	443,3128,8080
E Captive Portal	Mail Traffic Priority	Second Priority 💙 Limit 100 % Port 25,	110,465,995
DHCP Server	Ftp Traffic Priority	Low Priority Y Limit 100 % Port 20,	21
Traffic Control	User Defined-1 Priority	Highest Priority 💙 Limit 100 % Port 0	- 0
Uplink/Downlink Settings	User Defined-2 Priority	Second Priority 💙 Limit 100 % Port 0	- 0
Traffic Manager	User Defined-3 Priority	Third Priority 🖌 Limit 100 % Port 0	- 0
Diatus	User Defined-4 Priority	Low Priority Y Limit 100 % Port 0	- 0
	Other Traffic Priority	Low Priority 😽 Limit 100 %	

### **Traffic Manager**

The traffic manager feature allows users to create traffic management rules that specify how to deal with listed client traffic and specify downlink/ uplink speed for new traffic manager rules. Click the Save button to let your changes take effect.

Traffic Manager:	Use the drop-down menu to Enable the traffic manager feature.	D-L
Unlisted Client Traffic:	Select Deny or Forward to determine how to deal with unlisted client traffic.	DAP-2360
Downlink Bandwidth:	The downlink bandwidth in Mbits per second. This value is entered in the Uplink/Downlink Setting window.	Wirele
Uplink Bandwidth:	Uplink Bandwidth:The uplink bandwidth in Mbits per second. This value is entered in the Uplink/Downlink Setting window.	Bano AP A E DHC E DHC Filter DHC

DAP-2360	Traffic Manage	r
Advanced Settings     Performance     Wireless Resource     Muti-SSID     VLAN     Intrusion     Schedule     Internal RADIUS Server     AP Spoofing Prevention     Bandwidth Optimization     AP Array     OLC Server     Filters     Traffic Control     Uplink/Downlink Settings     QoS     Traffic Manager	Traffic Manager Unlisted Clients Traffic Downlink Bandwidth Uplink Bandwidth	Disable V Deny Forward 100 Mbits/sec 190 Mbits/sec
	Add Traffic Manag Name Client IP(optional) Client MAC(optional) Downlink Speed Uplink Speed	er Rule Mbits/sec Add Clear
Er 📁 Status	Traffic Manager R Name Client	ules IP Client MAC Downlink Speed Uplink Speed Edit De
		Cario

# **Status Device Information**

**Device** This read-only window displays the configuration Information: settings of the DAP-2360, including the firmware version and the device's MAC address.

Device Information themet MAC Address: //ireless MAC Address:	Firmware Version:2.00 c4:a8:1d:90:5d:18 Primary: c4:a8:1d:90:5d:18
themet MAC Address: /ireless MAC Address:	Firmware Version:2.00 c4:a8:1d:90:5d:18 Primary: c4:a8:1d:90:5d:18
thernet <sup>9</sup> Address wbnet Mask	SSID 1~7: c4:a8:1d:90:5d:19 ~ c4:a8:1d:90:5d:1f 192.168.0.50 255.255.255.0
sateway INS Vireless (2.46Hz) Ietwork Name (SSID) Shannel Pata Rate	N/A dlink 11 Auto
ecurity IP Array P Array tole ocation	None d-link Slave
evice Status PPU Utilization lemory Utilization entral WiFiManager connection Status erver IP ervice Port	1% 52% Disconnect
	hannel ata Rate ecurity P Array P Array ole ocation evice Status PU Utilization emory Utilization entral WiFiManager onnection Status erver IP ervice Port ve Port

# **Client Information**

**Client Information:** This window displays the wireless client information for clients currently connected to the DAP-2360.

The following information is available for each client communicating with the DAP-2360.

SSID:	Displays the SSID of the client.
MAC:	Displays the MAC address of the client.
Band:	Displays the wireless band that the client is connected to.
Authentication:	Displays the type of authentication being used.
Signal:	Displays the client's signal strength.
Power Saving Mode:	Displays the status of the power saving feature.



# **WDS Information**

WDS Information:

This window displays the Wireless Distribution System information for clients currently connected to the DAP-2360.

The following information is available for each client communicating with the DAP-2360.

Name:	Displays the SSID of the client.
MAC:	Displays the MAC address of the client.
Authentication:	Displays the type of authentication being used.
Signal:	Displays the client's signal strength.
Status:	Displays the status of the power saving feature.



# **Channel Analyze**

Wireless Band : Select 2.4GHz in default.

**Detect :** Click the Detect button to scan.

**AP List :** This will list the transmitting channels and quality.



# **WDS Information**

Wireless Band: Select 2.4GHz in default.

**Detect:** Click the Detect button to scan.

AP List: This will list the transmitting channels and quality.



# Stats Ethernet

Ethernet Traffic Statistics:

This page displays transmitted and receivedcount statistics for packets and bytes.

Home 🔏 Mainter	nance – Configuration	- System	Logout	I I
DAP-2380	Ethernet Traffic Statist	ics		-
Advanced Settings		-	C	ear Refres
Status	Transmitted Count			
Client Information	Transmitted Packet Count	2784		
WDS Information	Transmitted Bytes Count	2502485		
Channel Analyze	Dropped Packet Count	0		
Ethernet	Received Count			
WLAN	Received Packet Count	4987		
E Log	Received Bytes Count	1301987		
	Dropped Packet Count	0		

## WLAN Traffic

### WLAN Traffic Statistics:

This page displays wireless network statistics for data throughput, transmitted and received frames, and frame errors.

	Configuration	System	Eogodi	- Help
DAP-2360	WLAN Traffic Statistics			
Advanced Settings	Transmitted Count		Cle	ar Refresh
Device Information	Transmitted Packet Count	1118		
WDS Information	Transmitted Bytes Count	342732		
Channel Analyze	Dropped Packet Count	3325		
Ethernet WLAN	Transmitted Retry Count	0		
	Received Count			
	Received Packet Count	0		
	Received Bytes Count	0		
	Dropped Packet Count	0		
	Received CRC Count	0		
	Received Decryption Error Count	0		
	Received MIC Error Count	0		
	Received PHY Error Count	0		

# Log View Log

View Log: The AP's embedded memory displays system and network messages including a time stamp and message type. The log information includes but is not limited to the following items: cold start AP, upgrading firmware, client associate and disassociate with AP, and web login. The web page holds up to 500 logs.

DAP-2360	View Log			_
Basic Settings Advanced Settings Status Device Information	First Page Last Page Page 1 of 1	Previous	ed Clean	
Client Information	Time	Priority	Message	
Channel Analyze	Uptime 0 day 00:29:31	[SYSACT]	Web login success from 192, 168.0, 100	
Statistics Ethernet UAN Cog Log Log Settings	Uptime 0 day 00:27:33	[SYSACT]	Web logout from 192, 168.0, 100	
	Uptime 0 day 00:26:57	[Wireless]	Association Success:STA 04:FE:31:D5:08:06	
	Uptime 0 day 00:26:17	[Wireless]	Association Success:STA 04:FE:31:D5:08:06	
	Uptime 0 day 00:25:38	[Wireless]	Association Success:STA 04:FE:31:D5:08:06	
	Uptime 0 day 00:23:51	[Wireless]	Association Success:STA 04:FE:31:D5:08:06	
	Uptime 0 day 00:20:34	[SYSACT]	Web login success from 192, 168, 0, 100	
	Uptime 0 day 00:19:47	[SYSACT]	Web logout from 192.168.0.100	
	Uptime 0 day 00:08:31	[SYSACT]	Web login success from 192, 168.0. 100	
	Uptime 0 day 00:08:10	[SYSACT]	Web logout from 192.168.0.100	
	Uptime 0 day 00:05:08	[SYSACT]	Web login success from 192, 168, 0, 100	
	Uptime 0 day 00:00:30	[Wireless]	Initiate Wireless ath0 success	
	Uptime 0 day 00:00:13	[Notice]	Ethernet ETHO LINK UP	
	Uptime 0 day 00:00:08	[SYSACT]	AP cold start	

# Log Settings

Log Server/IP Address:	Enter the IP address of the server you would like to send the DAP-2360 log to.	D-Link			DAP-2360
Log Type:	Check the box for the type of activity you want to log. There are three types: System Activity,	Home Maintena     DAP-2380     Basic Settings     Advanced Settings	Log Settings	👻 🥪 System 🖉 Logout	() Help
Email Notification:	Wireless Activity, and Notice. Check to enable Email notification.	Status Status Client Information WDS Information WDS Information Client Annel Analyze Client Client	Log Server / IP Address Log Type	System Activity     Wireless Activity	
Outgoing Mail Server (SMTP):	Select the SMTP server from the drop-down menu.	Cog Log Log Settings	Email Notification Email Notification	Notice     Enable	
Authentication:	Check to enable authentication.		Outgoing mail server (SMTP) Authentication SSL/TLS	Internal	
SSL / TLS: From Email	Check to enable SSL/TLS authentication.		From Email Address To Email Address Email Server Address		
Address:			SMTP Port User Name		
To Email Address:	Enter the destination email address.	1	Password Confirm Password		_
Email Server Address:	Enter the Email Server Address.		Schedule	0	
SMTP Port:	Enter the SMTP port.			6	Save
Username:	Enter your email username.				
Password:	Enter your email password.				
Confirm Password:	Enter your email password again.				
Schedule:	Select when to send the log to your email (in hours). You will receive an email when the log is full too.				

Help

# **Maintenance** Administration Settings

Check one or more of the five main categories to display the various hidden administrator parameters and settings displayed on the next five pages.

D-Link		DAP-2360
🔶 Home 🏾 🌠 Maintenan	ce 🕶 📙 Configuration 👻 🥪 System 🛛 👰 Logout	🕐 Help
DAP-2360	Administration Settings	
Advanced Settings	Limit Administrator	
·····B Wireless Resource ·····B Multi-SSID	System Name Settings	
···· 🖹 VLAN ····· 🖹 Intrusion	Login Settings 🔲	
Schedule	Console Settings 🔲	
Bandwidth Optimization	SNMP Settings	
Captive Portal	Ping Control Setting	
Filters	Central WiFiManager Setting 🔳	
Uplink/Downlink Settings QoS Traffic Manager	(	Save
Status     Device Information		
WDS Information		
Etternet		
⊡- 🌮 Log → 🖹 View Log → Log Settings		

### **Limit Administrator**

Each of the five main categories display various hidden administrator parameters and settings.

Limit Administrator VLAN ID:	Check the box provided and the enter the specific VLAN ID that the administrator will be allowed to log in from.	D-Link Maintenan	DAP-2360 ce 🗸 📕 Configuration 🖌 🐳 System 🙋 Logout 🕐 Help
Limit Administrator IP: IP Range:	Check to enable the Limit Administrator IP address. Enter the IP address range that the administrator will be allowed to log in from and then click the Add button.	DAP-2360 Basic Settings Advanced Settings Advanced Settings Advanced Settings Vireless Resource Wireless Resource VLAN Intrusion Schedule Internal RADIUS Server ARP Spoofing Prevention Bandwidth Optimization AP Array Captive Portal DHCP Server Filters Filters Traffic Control Uplink/Downlink Settings QoS Traffic Manager Status Device Information Client Information Channel Analyze Status Device Information Status Channel Analyze Status Device Information Channel Analyze	Administration Settings   Limit Administrator VLAN ID   Limit Administrator IP   Limit Administrator IP   Enable   IP Range   From   To:   Add     Item   From   To   Delete     System Name Settings   Login Settings   SNMP Settings     Ping Control Setting
		Log Settings	Central WiFiManager Setting 🔲

Save

System Name:

Location:

### System Name Settings

Each of the five main categories display various hidden administrator parameters and settings.

The name of the device. The default name is <b>D-Link DAP-2360</b> .	D-Link <sup>®</sup>	DAP-2360
	🔌 Home 🤺 Maintenar	nce 🛪 🔚 Configuration 🛪 💝 System 📴 Logout 💿 Help
The physical location of the device, e.g. 72nd Floor, D-Link HQ.	Home       Maintenar         DAP-2360       Basic Settings         Basic Settings       Advanced Settings         Performance       Wireless Resource         Multi-SSID       VLAN         Intrusion       Schedule         Internal RADIUS Server       ARP Sporting Prevention         Bandwidth Optimization       AP Array         Captive Portal       DHCP Server         Filters       Traffic Control         Upink/Downlink Settings       QoS         Traffic Manager       Status         Device Information       Client Information         VDS Information       Statustics         Ethernet       WLAN	Administration Settings   Limit Administrator   System Name Settings   System Name   Login Settings   Login Settings   SNMP Settings   Pring Control Setting   Central WiFiManager Setting   Save

## **Login Settings**

Each of the five main categories display various hidden administrator parameters and settings.

Login Name:	Enter a user name. The default is <b>admin</b> .	D-Link <sup>®</sup>	DAP-2360			
Old Password:	When changing your password, enter the old password here.	Home Mainter     DAP-2360     Basic Settings     Advanced Settings	nance - Configuration - System 2 Logout 1 Help Administration Settings Limit Administrator			
New Password: Confirm Password:	When changing your password, enter the new password here. The password is case-sensitive. "A" is a different character than "a." The length should be between 0 and 12 characters. Enter the new password a second time for confirmation purposes.	⊞- <b>µ</b> Status	System Name Settings         Login Settings         Login Name         admin         New Password         Confirm Password         Console Settings         SNMP Settings			
			Central WiFiManager Setting			

### **Console Settings**

Each of the five main categories display various hidden administrator parameters and settings.

Status:	Status is enabled by default. Uncheck the box to disable the console.	D-Link Mainter	nance 🔹 📑 Configura	ition 🕶 💝 System	🖉 Logout	DAP-2360
Console	Select the type of protocol you would like to use,	DAP-2360	Administration Sett	ings		
Protocol:	Protocol:Telnet or SSH.Timeout:Set to 1 Min, 3 Mins, 5 Mins, 10 Mins, 15 Mins	Advanced Settings	Limit Administrator			
		a set a factor of the set of the	System Name Settings			
Timeout:			Login Settings  Console Settings			
	or <b>Never</b> .					
	I		Status Console Protocol Timeout	<ul> <li>✓ Enable</li> <li>● Telnet ○ SSH</li> <li>3 Mins</li> </ul>		
			SNMP Settings			
			Dine Control Continue	-		

Central WiFiManager Setting

Save

### **SNMP Settings**

Each of the five main categories display various hidden administrator parameters and settings.

Status:	Check the box to enable the SNMP functions. This option is disabled by default.	D-Link Mainten	DAP-2360 nance 🔹 📮 Configuration 👻 💝 System 🛛 🖉 Logout 🕐 Help	
Public Community String:	Enter the public SNMP community string.	DAP-2360 Basic Settings Advanced Settings Status	Administration Settings	
Private Community String:	Enter the private SNMP community string.		Login Settings	
Trap Status: Trap Server IP:	Trap Status:Check the box to enable Trap Status.Trap Server IP:Enter the Trap Server IP address.	Status     Enable       Public Community String     public       Private Community String     private       Trap Status     Enable		
			Trap Server IP Ping Control Setting Central WiFiManager Setting Save	

### Central WiFiManager Settings

The Central WiFiManager section is used to create a set of APs on the Internet to be organized into a single group in order to increase ease of management. Central WiFiManager and AP Array are mutually exclusive functions.

Enable CentralSelect to enable or disable the CentralWiFiManager:WiFiManager.



# **Firmware and SSL Certification Upload**

This page allows the user to perform a firmware upgrade. A Firmware upgrade is a function that upgrade the running software used by the access point. This is a useful feature that prevents future bugs and allows for new features to be added to this product. Please go to your local D-Link website to see if there is a newer version firmware available.

Upload Firmware From Local Hard Drive:	The current firmware version is displayed above the file location field. After downloading the most recent version of firmware for the	D-Link Mainter	DAP-236 Nance 🗸 📑 Configuration 🛪 🐳 System 🙋 Logout 🕐 He
Language Pack Upgrade:	<ul> <li>DAP-2360 from http://support.dlink.com to your local computer, use the Browse button to locate the firmware file on your computer. Click Upload to update the firmware version. Please don't turn the power off while upgrading.</li> <li>You may load a language pack to display the utility in another language. Click Browse to locate the language pack file on your local computer. After selecting and opening the file, click Upload to upload to upload the file to the DAP-2360.</li> </ul>	DAP-2360 E Basic Settings Advanced Settings E Status	Firmware and SSL Certification Upload         Update Firmware From Local Hard Drive         Upload Firmware From File :         如實         Upload Firmware From File :         Upload Certification From Local Hard Drive         Upload Certificate From File :         Upload Key From File :         Upload Key From File :
Upload SSL Certification From Local Hard Drive:	Click <b>Browse</b> to locate the SSL Certification file on your local computer. After selecting and opening the file, click <b>Upload</b> to upload the file to the DAP-2360.		

# **Configuration File Upload**

Upload File:	Click the <b>Browse</b> button to locate a previously saved configuration file on your local computer.	D-Link			i a	DAP-2360
Download Configuration File:	After selecting the file, click <b>Upload</b> to apply the configuration settings to the DAP-2360. Click <b>Download</b> to save the current DAP-2360 configuration to your local computer. Note that if you save one configuration with the administrator's password now, after resetting your DAP-2360, and then updating to this saved configuration file, the password will be gone.	Home Maintenan DAP-2360 Basic Settings Uvireless LAN Advanced Settings Performance Multi-SSID VLAN Intrusion Schedule CoS AP Array ARP Spoofing Prevention DHCP Server Dynamic Pool Settings Static Pool Settings Current IP Mapping List Filters Wireless MAC ACL WLAN Partition Status DECISION Status DECISION Status Ethernet WLAN Ethernet WLAN Ethernet WLAN	Configuration File Upload         Upload Configuration File         Upload File :         Download Configuration File         Load Settings to Local Hard Drive	and Download Browse	Uplosd.	(V) Helj

View Log

# **Time and Date**

Current Time:	Displays the current time and date settings.	D-Link		DAP-2360
Enable NTP	Check to enable the AP to get system time from	🔅 Home 🛛 🙀 Maintena	nce 👻 🔚 Configurat	ion 👻 🥌 System 🛛 🙋 Logout 👘 Help
Server:	an NTP server.	DAP-2360	Time and Date Se	ettings
NTP Server:	Enter the NTP server URL or IP address.	Wireless LAN IPv6	Time Configuration Current Time	01/01/1970 00:04:33
Time Zone:	Use the drop-down menu to select your correct Time Zone.	⊕ Status	Automatic Time Con Enable NTP Server NTP Server	figuration
Enable Daylight Saving:	Check the box to Enable Daylight Saving Time.		Time Zone Enable Daylight Saving	(GMT-08:00) Pacific Time (US & Canada); Tijuana
Daylight Saving	Use the drop-down menu to select the correct Daylight Saving offset.		Daylight Saving Dates	DST Start Jan → 1st → Sun → 12 am → DST End Jan → 1st → Sun → 12 am →
Set the Date and Time Manually:	You can either manually set the time for your AP here, or you can click the <b>Copy Your Computer's</b> <b>Time Settings</b> button to copy the time from the computer you are using (Make sure that the		Set the Date and Tin Date And Time	ne Manually Year 2012 Month Jul → Day 26 → Hour 18 → Minute 40 → Second 10 → Copy Your Computer's Time Settings
	computer's time is set correctly).			Save

# System System Settings

**Restart the Device:** Click **Restart** to restart the DAP-2360.

Restore to FactoryClick Restore to restore the DAP-2360 backDefault Settings:to factory default settings.



# Help

**Help:** Scroll down the Help page for topics and explanations.

#### Basic Settings

#### Wireless Settings

Allow you to change the wireless settings to fit an existing wireless network or to customize your wireless network.

#### Wireless Band

Operating frequency band. Choose 2.4GHz for visibility to legacy devices and for longer range.

#### Mode

Select a function mode to configure your wireless network. Function modes include Access Point, WDS (Wireless Distribution System) with AP, WDS, Wireless Client. Function modes are designed to support various wireless network topology and applications.

#### Network Name (SSID)

Also known as the Service Set Identifier, this is the name designated for a specific wireless local area network (WLAN). The factory default setting is "dlink". The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

#### SSID Visibility

Indicate whether or not the SSID of your wireless network will be broadcasted. The default value of SSID Visibility is set to "Enable," which allow wireless dients to detect the wireless network. By changing this setting to "Disable," wireless dients can no longer detect the wireless network and can only connect if they have the correct SSID entered.

#### Auto Channel Selection

If you check Auto Channel Scan, everytime when AP is booting up, the AP will automatically find the best channel to use. This is enabled by default.

#### Channel

Indicate the channel setting for the DAP-2360. By default, the AP is set to Auto Channel Scan. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network.

#### Channel Width

Allows selection of the channel width you would like to operate in 20 MHz and Auto 20/40MHz allow both 802.11n and non-802.11n wireless devices on your network when the wireless mode is Mixed 802.11 b/g/n in 2.4G.802.11n wireless devices are allowed to transmit data using 40 MHz when the channel width is Auto 20/40 MHz

#### Authentication

For added security on a wireless network, data encryption can be enabled. There are several available Authentications type can be selected. The default value for Authentication is set to "Open System".

#### Open System

For Open System authentication, only the wireless clients with the same WEP key will be able to communicate on the wireless network. The Access Point will remain visible to all devices on the network.

# Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DAP-2360. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows<sup>®</sup> XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.)

### 1. Why can't I access the web-based configuration utility?

When entering the IP address of the D-Link access point (192.168.0.50 for example), you are not connecting to a website on the Internet nor do you have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

• Make sure you have an updated Java-enabled web browser. We recommend the following:

- Microsoft Internet Explorer<sup>®</sup> 6.0 and higher
- Mozilla Firefox 3.0 and higher
- Google<sup>™</sup> Chrome 2.0 and higher
- Apple Safari 3.0 and higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows<sup>®</sup> XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

- Configure your Internet settings:
  - Go to Start > Settings > Control Panel. Double-click the Internet Options Icon. From the Security tab, click the button to restore the settings to their defaults.
  - Click the **Connection** tab and set the dial-up option to Never Dial a Connection. Click the LAN Settings button. Make sure nothing is checked. Click **OK**.
  - Go to the **Advanced** tab and click the button to restore these settings to their defaults. Click **OK** three times.
  - Close your web browser (if open) and open it.
- Access the web management. Open your web browser and enter the IP address of your D-Link access point in the address bar. This should open the login page for your the web management.
- If you still cannot access the configuration, unplug the power to the access point for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

### 2. What can I do if I forgot my password?

If you forgot your password, you must reset your access point. Unfortunately, this process will change all your settings back to the factory defaults.

To reset the access point, locate the reset button (hole) on the rear panel of the unit. With the access point powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the access point will go through its reboot process. Wait about 30 seconds to access the access point. The default IP address is 192.168.0.50. When logging in, the username is **admin** and leave the password box empty.

# **Networking Basics**

### **Check your IP address**

After you install your network adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start** > **Run**. In the run box type *cmd* and click **OK**.

At the prompt, type *ipconfig* and press Enter.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.

If you are connecting to a wireless network at a hotspot (e.g. hotel, coffee shop, airport), please contact an employee or administrator to verify their wireless network settings.



Appendix B - Networking Basics

### Statically Assign an IP address

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

### Step 1

Windows<sup>®</sup> 2000: Click on Start > Settings > Control Panel > Network Connections Windows<sup>®</sup> XP: Click on Start > Control Panel > Network Connections Windows Vista<sup>®</sup>: Click on Start > Control Panel > Network and Internet > Network and Sharing Center > Manage network connections

### Step 2

Right-click on the Local Area Connection which represents your network adapter and select Properties.

### Step 3

Highlight Internet Protocol (TCP/IP) and click Properties.

### Step 4

Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

**Example:** If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set Default Gateway the same as the LAN IP address of your router (192.168.0.1).

Set Primary DNS the same as the LAN IP address of your router (192.168.0.1). The Secondary DNS is not needed or you may D-Link DAP-2360 User Manual 92

Appendix B - Networking Basics

enter a DNS server from your ISP.

### Step 5

Click **OK** twice to save your settings.

eneral	
You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings.	automatically if your network supports eed to ask your network administrator
Obtain an IP address autom	atically
Use the following IP address	5.
IP address:	192.168.0.52
Subnet mask:	255.255.255.0
Default gateway:	192 . 168 . 0 . 1
Obtain DNS server address	automatically
Use the following DNS serve	er addresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	
	Advanced

# **Technical Specifications**

#### Standards

- IFFF 802.11b
- IEEE 802.11a
- IFFF 802.11n
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3af

#### **Network Management**

• Web Browser interface HTTP Secure HTTP (HTTPS) Central WiFiManager SNMP Support

Private MIB Command Line Interface Telnet Secure SSH Telnet

### Data Rates\*

For 802.11b: • 11, 5.5, 2, and 1 Mbps For 802.11q: • 54, 48, 36, 24, 18, 12, 9, and 6 Mbps For 802.11n: HT20/HT40 144.4/300, 130/270, 117/243, 104/216, 78/162, 66/135, 58.5/121.5, 52/108, 39/81, 26/54, 19.5/40.5, 12/27, and 6.5/13.5 Mbps

### Security

• WPA<sup>™</sup> Personal/Enterprise • WPA2<sup>™</sup> Personal/Enterprise • 802.1x

- WEP<sup>™</sup> 64-/128-bit
- SSID Broadcast Disable MAC Address Access Control

#### Wireless Frequency Range

• 2.4 to 2.4835 GHz\*\*

### **Operating Voltage**

48V DC +/- 10% for PoE or 12V/1A

### **Radio and Modulation Type**

For 802.11g/n: BPSK, QPSK, 16QAM, and 64QAM with OFDM For 802.11b: DQPSK, DBPSK, DSSS, and CCK

### **Operating Frequency\*\***

For 802.11b/q: 2.4 ~ 2.4835 GHz For 802.11n: 2.4 GHz Band: 2.4 ~ 2.4835 GHz

### **Dipole Antenna**

• 5dBi Gain @2.4 GHz

**Transmit Output Power** 

#### Max Power Consumption • Max. 8W with 12V/DC Max. 9W with PoE

• 26dBm @ 2.4GHz

\* Maximum wireless signal rate derived from IEEE Standard 802.11g and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

### Appendix C - Technical Specifications

### LEDs

- Power
- LAN
- 2.4 GHz

#### Temperature

- Operating: 0°C to 40°C
- Storing: -20°C to 65°C

#### Humidity

Operating: 10%~90% (non-condensing)

Storing: 5%~95% (non-condensing)

### Certifications

#### FCC Class B

- ۰IC
- ۰UL
- WiFi<sup>°</sup>

#### Dimensions

- L = 188 mm
- W = 166 mm

• H = 37 mm

\*\*Please note that operating frequency ranges vary depending on the regulations of individual countries and jurisdictions.

### FCC Statement:

Federal Communication Commission Interference Statement

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 limits 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and it's antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

### IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

### IC Statement:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

This radio transmitter (WSS007) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présentémetteur radio (WSS007) a étéapprouvé par Industrie Canada pour fonctionner avec les types d'antenneénumérés ci-dessous et ayant un gain admissible maximal et l'impédancerequise pour chaque type d'antenne. Les types d'antenne non inclusdanscetteliste, oudont le gain estsupérieur au gain maximal indiqué, sontstrictementinterdits pour l'exploitation de l'émetteur.

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	WANSHIH ELECTRONIC CO., LTD.	WSS007	Dipole	RP-SMA	5	TX/RX
2	WANSHIH ELECTRONIC CO., LTD.	WSS007	Dipole	RP-SMA	5	TX/RX

以下警語適用台灣地區

本產品符合低功率電波輻射性電機管理辦法:

第十二條

經形式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。 第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方的繼續使用。 前項合法通信,指依電信規定作業之無線電信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

電磁波曝露量 MPE 標準值 1mW/cm2,送測產品實測值為: 0.6011 mW/cm2