ISHIDA AC-4000 Series Wireless Communications



YDI Access Point Quick Setup Procedure



IMPORTANT: The computer used to access and setup the YDI AP+ Access Point MUST be on the same network subnet. For example, if the AP's IP address is set to 192.168.10.240, the PC must be on the same network as 192.168.10.xxx. The subnet mask is 255.255.255.0.

Install the YDI AP Manager program. Open the AP Manager. Select the Access Point from "List of scanned devices" box (see Fig 1.). Click **Configure Remote** button. The default password is "public".

Local Area Netwo	ork Scan	_	Select Another Device S	NMP Polling Interval
t of scanned devic	es	1	Remote Statistics	IP
P Address 192.168.10.240	YDI AP+	<u> Status</u> Online	Interface Monitor	IP TCP/UDP
			Ethemet-like Interfaces	ICMP
	R	ead Write Passwo	ord - 192.168.10.240 ? X	System Information
	5	≓ Password	public	Bridge Learn
		This action rec	juires a read/write password!	IP ARP
				IP Route
nter an IP address	s or select			IP/TCP Connection
52.166.10.240	1	ar vilo orninio.	n de la companya de la	IP/UDP Listener
Configure Remote				Local IP Address
IR Enter a filename Configure This File	e to configure	wse		

Figure 1.

192.168.10.240 - YDI Configuration and Manageria File View Help	gement Program		
Select a device group to scan	Monitor Analyze Set	up	
Local Area Network Scan	General Setup	Usernames	:/Passwords
List of scanned devices	Interface Setup	YDI-Ei Acces	is List Setun
IP Address name Status			o electro enterna
♥ 192.168.10.240 YDLAP+ Online	Advanced Interface	Fire	ewall
	Bridging	Basic I	Firewall
	IP Host	Advanced A	uthentication
	IP Router	Outgoing NAT	Incoming NAT
K	SNMP	SMTP	Redirect
Enter an IP address or select from above	Data Encryption	DHCP Server	
192.168.10.240 YDI AP+ is online.	System Access	RADIUS Server	
Configure Remote	Link Integrity	Access Control	
OR Enter a filename to configure			
Configure This File Browse			
For Help, press F1		04:35PM	

Select the Setup tab and click IP Host button (see Fig 2.).

Figure 2.

Set the IP Address as needed, in this example as "192.168.10.240" (see Fig 3.). Set the Subnet Mask as needed, in this example as "255.255.255.0". Set the Router IP Address as needed, not used in this example [This is the gateway]. Select **OK**.

IP Setup	<u>? ×</u>
C Obtain an IP address from D	HCP server
using Interface	<u> </u>
🕞 Specify an IP address	
Our IP Address	192.168.10.240
Our Subnet Mask	255.255.255.0 Select
Default Router IP	
Default TTL	255
Syslog Host Address	
Syslog Host Facility	1
ОК	Cancel

Figure 3.

Select the Setup tab and click the **SNMP Setup** button. Set the Access Point System Name, in this example "YDI AP+" (see Fig 4.). [This will help identify the device in a list of access points] Select **OK**.

SNMP Setup				?	×
Read Password	*****				
Read/Write Password	*****				
System Contact					
System Name	YDI AP+				
System Location					
Trap Host IP Address	0.0.0.0				
Trap Host Password	*****				
				Add	
SNMP IP Access List				Delete	
Address Mask		Interface	_		
<all be="" permitted="" will=""></all>				Edit	
				OK	
				Cancel	

Figure 4.

Select the Setup tab and click the Interface Setup button.

"3. 802.11b" should be checked as "Enabled" (see Fig 5.).

Click the Setup 3 button [NOTE: this is with PCMCIA card in "A" slot, use Setup 4 if in slot "B".

Interface Setup				<u>? ×</u>
	Remote	Enabled	Max Xfer Rate KBits/Sec	e e e e e e e e e e e e e e e e e e e
1 Ethernet	N			Setup 1
2 Ethernet			0	Setup 2
3 802.11b			0	Setup 3
4 Empty PCMCIA			0	Setup 4
		() Implies No Limit	
		ОК		

Figure 5.

Set the Network Name (SSID), in this example as "WaveLAN Network" (see Fig 6.). This is the wireless network name the scales will be set to use. Click the **Frequency** button if multiple Access Points will be used, Click the **Security** button if encryption will be used, otherwise select **OK**.

802.11b Setup			?×
Network Name (SSID):	WaveLAN Network		
 Enable Signal Quality Front I Deny Inter-Client Traffic On 	Panel Display This Interface		
 802.11b Compatible Access Mobile Ethernet Converter YDI-Fi No Base Stations YDI-Fi Base Station YDI-Fi Satellite Station 	Point	Base Station Mode C Non-Polling Base Station C Polling Base Station C ISP Base Station C ISP Base Station with Protocol filte	ring
OK Can	cel Advance	d Frequency Securit	y

Figure 6.

If multiple Access Points are to be used then those units within range of each other must be set for different channels to prevent interference (see Fig 7.).

Channel 3 is the default. When changing channels, the odd numbers are normally selected. Select a Channel.

Select OK.

802.11b Frequency Setup						
	Channel	Frequency				
	3	2.422 GHz	-			
	3	2.422 GHz				
	4	2.427 GHz				
	6	2.432 GHz 2.437 GHz				
	7	2.442 GHz				
	8	2.447 GHz	<u>-</u>			
	ОК		Cancel			

Figure 7.

If encryption is required select "Static WEP keys only" (see Fig 8.) Select **64-bit** or **128 bit** as needed. Enter the Static WEP Encryption code for Key 1. Encryption keys must be the following length: 64-bit ASCII = 5 characters

128-bit ASCII = 13 characters

64-bit Hex = 10 characters

128-bit Hex = 26 characters

Note: to set Hex values enter "0x" as the leading characters. Example: "0x1A2B3C4D5E" After selecting OK, the encryption key will be displayed as "*********".

BE CAREFUL – review the entry several times before leaving this screen, setting the wrong encryption key will prevent any data transfer.

Set "Deny non-encrypted data"

Note: it is recommended to set this last -- after communication has been confirmed. Select **OK**, **OK**.

802.11b Security Setup	?	×
 WEP Key Generation Disable WEP Encryption Static WEP Keys Only 802.1x Auto WEP Key Generation 802.1x & Static WEP Mixed Mode Advanced Options Advanced Options Deny non-encrypted Data Distribute WEP Keys Regenerate new WEP keys every minutes (>= 5) Closed Wireless System 	Use 64 bit 128 bit WEP Keys Static WEP Encryption Keys 1	Ī
ОК	Cancel	

Figure 8.

Go to File menu and select **Save Config** (see Fig 9.). Configuration data will be saved in the Access Point. The Access Point will reboot and be available in approximately 15 seconds.

200 192.168.10.240 - YDI Configuration and Manage	gement Program		
File View Help			
Open Config/Bin File Ctrl+O Open Remote Config	Monitor Analyze Setu	qu	
Save Config Ctrl+S	General Setup	Usernames	/Passwords
Import Config File	Interface Setup	YDI-Fi Acces	s List Setup
Upload Software	Advanced Interface	Fire	wall
Reboot Remote	Bridging	Basic F	Firewall
Grouping	IP Host	Advanced A	uthentication
Exit	IP Router	Outgoing NAT	Incoming NAT
K D	SNMP	SMTP	Redirect
Enter an IP address or select from above	Data Encryption	DHCP	Server
192.168.10.240 YDI AP+ is online.	System Access	RADIUS	S Server
Configure Remote	Link Integrity	Access	Control
OR Enter a filename to configure			
Configure This File Browse			
Save the current configuration		05:21PM	

Figure 9.

TROUBLESHOOTING

1. Why is the Access Point status offline in figure 1?

The IP Addresses of the computer and Access Point are not on the same network. Temporarily change the computer's IP Address to match the Access Point's network. Then change the AP address to match the computer's network (see figure 3) and restore the computer's original address.

2. When does the Frequency need to be changed?

If multiple Access Points are within range of each other, each must be set with a different frequency. Overlapping Access Points coverage will prevent or disrupt communications. Refer to figure 7.

3. What is the difference between the Access Point's System Name and Network Name (SSID)?

The System Name is used to differentiate Access Points shown in the List of Scanned Devices (figure 2). The SSID (figure 6) is the wireless network name to which the RF enabled scales will connect.

4. Can an Access Point be used as a stand-alone device?

No, the Access Point must be hard wired to the computer network.