

Stand Cable hole Installation Example The following diagram is an example of how to allocate AP-415AN units to establish a wireless connection between PC and wired LAN control panel in a factory. In this network, tablet devices can easily be connected to AP-415AN wirelessly. Factory LAN RootAP AP-415AN (AP mode) シ Repeater Repeater Repeater AP-415AN AP-415AN AP-415AN (RP mode) (RP mode) (RP mode) $\overline{\sim}$ $\overline{\sim}$ $\overline{\sim}$ Wired LAN control panels Industrial device 0 . Tablet device **Step 2** Before Starting Installation **Changing the Operating Mode** Use the dip switch "SW1" on back of AP-415AN to switch the operating mode between the Access Point mode (AP mode) and Repeater mode (RP mode). To change the operating mode to AP mode ON **SW** Turn on the dip switch SW1. When the operating mode is changed to AP mode, AP-415AN works as RootAp of WDS. DIP switch To change the operating mode to RP mode G SW1 🔶 OFF Turn off the dip switch SW1. When the operating mode is changed to RP mode, AP-415AN works as repeater of WDS. Back <u>کم</u> - When you have finished changing the operating mode, attach the protection cap back to the dip switch area. TIP

Changing the Setting

When you want to use AP-415AN with the factory default setting, go ahead to Attaching the Stand below.

When you want to change the setting from default one, see the instructions at Setup Guide (II) (for Configuration). When the configuration change is finished, go ahead to Attaching the Stand below.

Attaching the Stand



1 Open the cover of the stand.



2 Attach AP-415AN to the stand and fix them with the screws that came with AP-415AN.

(1) Attach AP-415AN to the stand.



(2) Fix AP-415AN to the stand by screwing 4 holes.



Do not close the stand cover yet. The stand cover should be closed when AP-415AN is installed to an actual location.

See Step3 Installation (for AP Mode) and Step4 Installation (for RP Mode) on back page for details on how to install AP-415AN.







- The screws do not come with AP-415AN. Prepare your own screws.

Depth of screw hole : 6mm Type of screw : M3



Step 5 Checking Installation Status

Check that AP-415AN units (both AP mode/RP mode) are installed correctly using AP-415AN Setup Tool.

Change the network setting of the PC to allow access from the PC to AP-415AN units. See **AP-415AN Setup Guide (II) (for Configuration) - Step 4 Checking the Installation Status** to check the installation status.



Step 2

Connecting AP-415AN to PC

When you want to change the default configuration of AP-415AN before installing it, connect AP-415A to PC using a network cable.



Connect AC adaptor or DC cable.

- Connect AP-415AN and the PC using a network cable. (1)
- 2 Turn on AP-415AN by one of following methods. (2)
 - Connect the AC adaptor to DC IN and the plug to outlet. - Connect the DC cable to DC connector.

When the POWER LED lights as below, AP-415AN is ready.

POWER LED : On (Green)





When you use AC adaptor, please always use the AC adaptor of AP-415AN.
Using your own AC adaptor may result in malfunction.
AC adaptor of AP-415AN is sold separately.

Changing IP Address of PC

The PC's network setting needs to be changed to allow communication between the PC and AP-415AN.

By default, Class A IP address (10.XXX.XXX.XXX) is configured to AP-415AN. For the PC, please use a different IP address.

When AP-415AN has a default IP address (10.xxx.xxx), set the IP address of PC to the following:

IP address : 10.0.0.1-10.0.0.15 Subnet mask : 255.0.00



- The default IP address of AP-415AN is automatically generated from a lower 24 bit of the Ethernet Address.

Step 3 **Network Setting**

AP-415AN supports HTTP. The network settings can be configured by accessing

the AP-415AN's Web page using your Web browser.
Recommended Web browsers: Internet Explorer11 Mote Microsoft Edge Chrome
Accessing AP-415AN's Web Page
Access the login page of AP-415AN using the AP-415AN Setup Tool.
1 Start AP-415AN Setup Tool on the PC.
2 When the main window is displayed, click the Refresh icon from the toolbar.
I AP-415AN Setup Tool - □ X View Settings Tools Help C X Ⅲ ▲ ゐ ゑ ゐ ♥ ゐ Ф
3 Select AP-415AN that you wish to configure from the list and click the Configure Using Web Browser icon from the toolbar.
The Web browser starts and the login page is displayed.
Enter the login password then click Login.
Cites the prevent of citic [Laph] Pactoward [] International City City City City City City City City
 No password is set to AP-415AN by default. Leave it blank and just click Login then. Note
5 The configuration page of AP-415AN is displayed.

Select the setting from the menu and configure the network setting.



Changing AP-415AN's Wireless Settings

Access to the wireless configuration page and change the wireless settings.

Cli	ck Wireless LAN from th	e menu.
	 General Configuration General 	
	Detail Configuration Device Wired LAN	
	– Wireless LAN – DHOP Server – Password	

1

The Wireless LAN Configuration page is displayed. Configure the necessary 2 settings and click Submit button.

al Configuration WDS Configu	
	ration Security Configuration Extension Configuration
Wireless LAN Common Configu	
Name	Value
Wireless Mode	 802.11n/b/g ▼ 2.4GHz: 802.11b, 802.11b/g, 802.11n/b/g 5GHz: 802.11a, 802.11n/a
Channel Bandwidth	40MHz V
Channel	11 V Ext Channel 7 V
/ireless Interface Wireless LAN Wireless LAN Basic Configurat	
Wireless LAN Basic Configurat	lion
Wireless LAN Basic Configurat Name	Value
Wireless LAN Basic Configurat Name Interface	Value
Wireless LAN Basic Configurat Name Interface SSID	Value DWBLE V AP-415W1
Wireless LAN Basic Configurat Name Interface SSID Stealth Mode Network Authentication WPA2 Configuration	Vake DWBLE ♥ AP-415M DSABLE ♥ WPA2-PSK ♥
Wireless LAN Basic Configurat Name Interface SSID Stealth Mode Network Authentication	Ion Vale SWELE V (PA-41504) DISABLE V
Wireless LAN Basic Configurat Name Interface SSID Stealth Mode Network Authentication WPA2 Configuration	Vake DWBLE ♥ AP-415M DSABLE ♥ WPA2-PSK ♥
Wireless LAN Basic Configurat Name Interface SSD Stealth Mode Network Authentication WPA2 Configuration Name	Vake DWBLE DEABLE DEABLE WPA2-PSK Vake

General Configuration

Wireless LAN Common Configuration

Name	Setting	Default value
Wireless Mode	802.11b, 02.11b/g, 802.11n/b/g, 802.11a, 802.11n/a	802.11n/b/g
Channel	1 - 13/36/40/44/ 48/52/56/60/64/ 100/104/108/112/ 116/120/124/128/ 132/136/140/149/ 153/157/161/165/	11
Channel Bandwidth	20MHz/40MHz	40MHz
Ext Channel	Depending on the communication channel	7
DFS Primary Channel	Depending on the communication channel	Depending on the region setting

Wireless LAN Basic Configuration

Name	Setting	Default value
Interface	ENABLE/DISABLE	ENABLE
SSID	Alphanumeric characters (1 to 32)	AP-415AN
Stealth Mode	ENABLE/DISABLE	DISABLE
Network Authentication	Open, WPA2-PSK	WPA2-PSK

WPA2 Configuration

Name	Setting	Default value
Encryption Mode	AES	AES
Pre-Shared Key	Alphanumeric characters (8 to 63) Hexadecimal characters (64)	PreSharedKey
Group key renew interval	0 - 1440	60

WDS Configuration

Dynamic WDS Configuration

Name	Setting	Default value
Group ID	A - Z	Z
Maximum Number of Hops	1-3	1
RSSI Threshold	-100 to -10	-65

(Optional Configuration)

- Configure the following settings when they are necessary.
- Security Configuration
- Extension Configuration

Click Restart to restart AP-415AN to save the changes. 3



- To continue configuration in other pages, AP-415AN does not need to be restarted here. Complete other settings then restart it.

Installing AP-415AN

Note

4

) je ΤΙΡ

When the configuration is completed, install AP-415AN. For details on installation, refer to AP-415AN Setup Guide (I) (for Installation).

Checking the Installation Status Step 4

Check the AP-415AN installation status using AP-415AN Setup Tool.

Start AP-415AN Setup Tool on the PC.

When the main window is displayed, click the Refresh icon from the toolbar. 2

AP-415AN	l Setup Tool								-	×
<u>V</u> iew	Settings	∐ools	Help							
3 A	目 温	ľo	5	恳	2	心	0			

The installed AP-415AN units (both AP and RP) are displayed as the network topology diagram.

SX0	10156 [84	:25:3F:01	:01:56]]	Installed	AP-415/	AN unit	.s	
	SX010ED	B [84:25:	3F:01:0	E:DB]	1	(running	in AP m	ode)		
	SX01	1317 [84	:25:3F:0	01:13:17]	 	Installed (running			:s	
					•					
		— Tota	al num	ber of tl	ne insta	alled units				

See if all the installed AP-415AN units (both AP and RP) are displayed. - If not, check the installation status and network setting.



Factory Default Configuration

The following explains how to reset AP-415AN to the factory default setting.

- Factory default configuration by using the push switch on the unit
- Turn off AP-415AN. 1
- 2 Push and how the push small Push and hold the push switch on back of AP-415AN. Keep holding while When SETTING LED turns green and then turns red, release the push switch.



3 When the POWER LED and SETTING LED turn on/off as follows, factory default configuration is completed.



Factory default configuration by using AP-415AN Setup Tool

- Method 1: Select AP-415AN that you wish to initialize from the list and click the Factory default configuration icon from the toolbar.
- Method 2 : Select AP-415AN that you wish to initialize from the list and click the Configure using Web browser icon from the toolbar. Log into the Web page and go to Factory Default configuration page to start initialization.

