



Install Guide

Version 1.0

DWL-8220AP

Wireless Switch Access Point

System Requirements

- A Network with a D-Link DWS-1008 Wireless Switch

Package Contents

- DWL-8220AP Dualband Access Point
- Mounting Bracket
- Mounting Template
- Mounting Hardware
- Rubber Feet

Warning: Installation must be performed by qualified service personnel only. Please follow all warning notices and instructions marked on the product or included in the documentation. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

The DWL-8220AP has two RJ-45 10/100TX ports. The DWL-8220AP receives power and data through the RJ-45 ports. Use a CAT 5 straight-through Ethernet cable to connect an DWL-8220AP to a DWS-1008 wireless switch or other device in the network. The DWL-8220AP supports 802.3af, and also can receive PoE from D-Link switches and D-Link-approved power injectors.

The two RJ-45 ports support dual-homed configurations for redundancy. A DWL-8220AP uses only one link for booting, configuration, and data transfer. If the link becomes unavailable, the AP can reboot using the other link. The ports are identical except for logical numbering (1 or 2). You can use either port to connect an access point to a DWS-1008 wireless switch. However, an access point always attempts to boot on port 1 first. Only if the boot attempt on port 1 fails does the access point attempt to boot on port 2. If one port becomes unavailable, the other port can provide full power to the access point.

Note: The DWL-8220AP does not support daisy-chain configurations. Do not connect the access point to another access point.

DWL-8220AP Mounting Options

You can mount a DWL-8220AP access point on any of the following types of surfaces:

- Suspended T-bar ceiling
- Junction box
- Solid surface wall or ceiling
- Tabletop

Note: The solid surface mounting option requires CAT 5 cable that does not have strain relief. The other mounting options can use CAT 5 cable with or without strain relief.

Wall Installation Recommendations

If you plan to install an AP on a partial wall or other vertical surface, orient the top of the access point (the side with the LEDs) toward the intended coverage area. The radio antennas transmit through the top of the access point but not through the bottom (where the bracket is). This recommendation does not apply if you plan to use external antennas. You can orient the antennas independently of the AP itself. Orient an external antenna to face the intended coverage area.

DWS-1008 Wireless Switch Recommendations

D-Link recommends that you install and configure the DWS-1008 wireless switch before installing an access point. If the switch is already installed and configured for the access point(s), you can immediately verify the cable connection(s) when you plug the cable(s) into the access point.

Warning: The DWL-8220AP is designed to receive power only from an 802.3af-compliant source, a D-Link DWS-1008 wireless switch, or a D-Link-approved power injector. Connecting an access point to a Power over Ethernet (PoE) device that is not approved by D-Link can damage the equipment.

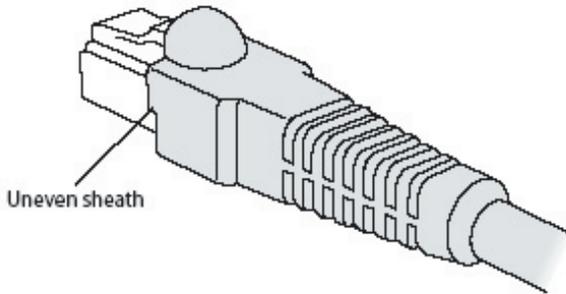
Before You Begin

Please read the following before you begin:

1. Do not operate the DWL-8220AP access point near unshielded blasting caps or in an otherwise explosive environment unless the device has been modified for such use by qualified personnel.
2. Do not touch or move the DWL-8220AP access point when the antennas are transmitting or receiving.
3. Do not hold any radio device so that the antenna is very close to or touching the face, eyes, or other exposed body part while the device's radio antenna is transmitting.
4. Before using a wireless device in a hazardous location, consult the local codes, national codes, and safety directors of the location for usage constraints.
5. Do not connect or disconnect cables or otherwise work with the DWL-8220AP access point hardware during periods of lightning activity.
6. The DWL-8220AP access point is intended for indoor use only. Do not install the device outdoors.
7. To reduce the possibility of connection interference caused by dust, clean the CAT 5 connector pins before inserting a cable into an DWL-8220AP access point.

Cable Requirement

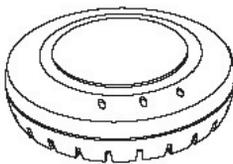
The Ethernet ports on the DWL-8220AP access point cannot accept a CAT 5 cable that has an uneven sheath such as the one shown below. The RJ-45 connector on the cable will not seat properly in the receptacle on the access point. Use a CAT 5 cable with an even sheath instead.



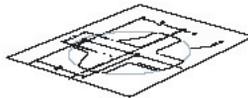
Suspended Ceiling Installation

Flush Ceiling Tiles

This procedure applies to T-bars that are 23.9 mm (15/16 inches) wide.



DWL-8220AP



Mounting Template

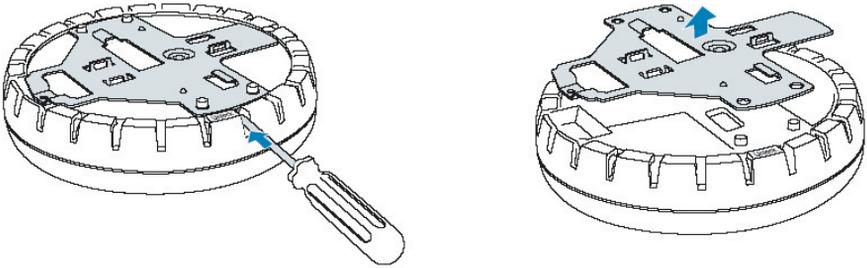


Mounting Bracket

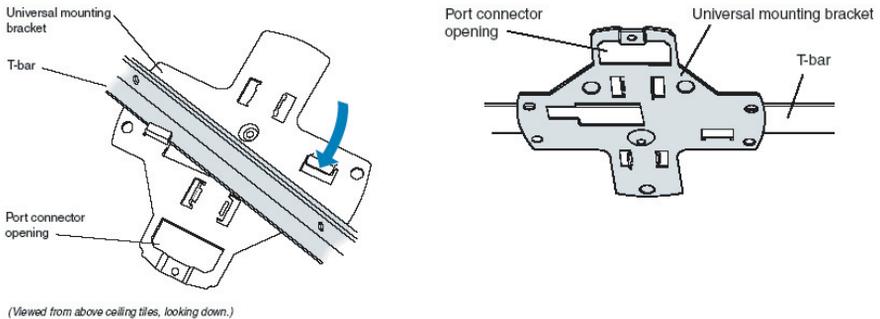
1. Use the mounting template to cut a hole for the CAT 5 cable.

Suspended Ceiling Installation (continued)

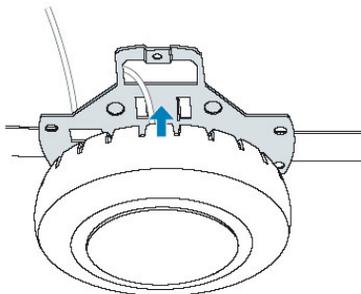
2. Remove the mounting bracket from the DWL-8220AP.



3. Attach the mounting bracket to the T-bar clamp.

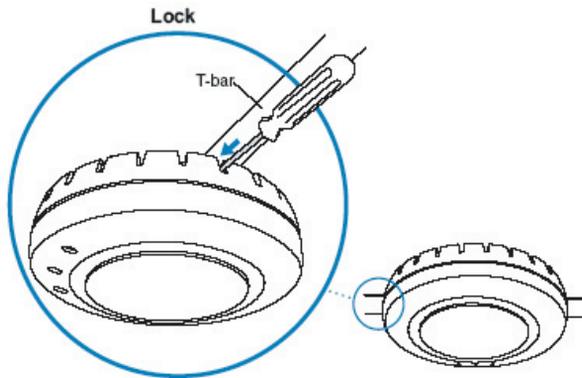


4. Insert the CAT 5 cable through the port connector opening in the mounting bracket, then plug the cable into the DWL-8220AP.



Suspended Ceiling Installation (continued)

- Attach the access point to the mounting bracket.

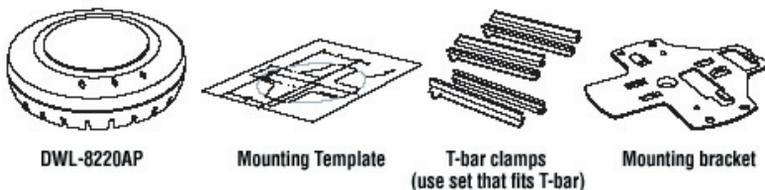


Warning: If you plan to use an external antenna for the 802.11b/g or 802.11a radio, install the antenna at least 20 cm from the access point.

Suspended Ceiling Installation

Drop Ceiling Tiles

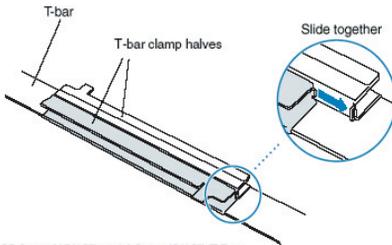
This procedure applies to T-bars that are 23.9 mm (15/16 inches), 14.2-mm (9/16-inches), or 15.9-mm (5/8-inches) wide. You also can use this procedure for flush ceilings with 14.2-mm (9/16-inch) or 15.9-mm (5/8-inch) T-bars.



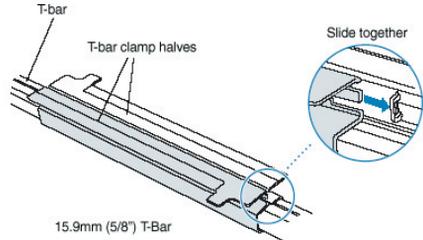
- Use the mounting template to cut a hole for the CAT 5 cable.

Suspended Ceiling Installation (continued)

2. Install the T-bar clamp that fits the T-bar.

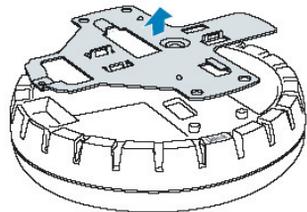
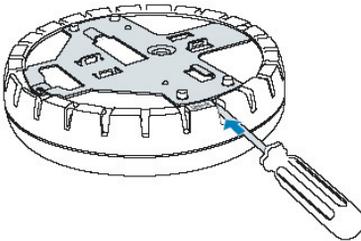


23.9mm (15/16") or 14.2mm (9/16") T-Bar
(The clamps are different widths but the assembly is the same).

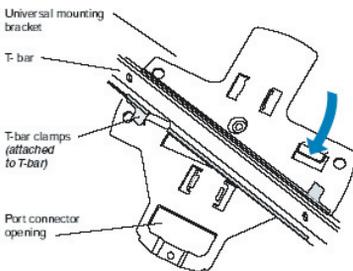


15.9mm (5/8") T-Bar

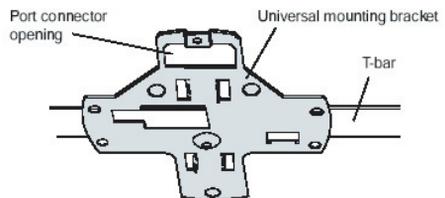
3. Remove the mounting bracket from the DWL-8220AP.



4. Attach the mounting bracket to the T-bar clamp.

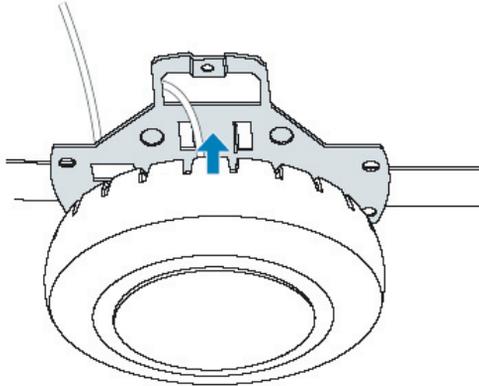


(Viewed from above ceiling tiles, looking down.)

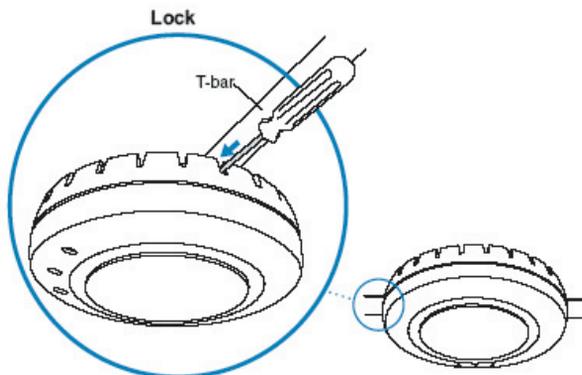


Suspended Ceiling Installation (continued)

5. Insert the CAT 5 cable through the port connector opening in the mounting bracket, then plug the cable into the DWL-8220AP.

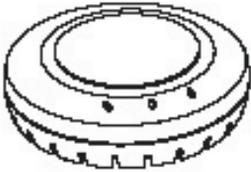


6. Attach the DWL-8220AP to the mounting bracket.



Warning: If you plan to use an external antenna for the 802.11b/g or 802.11a radio, install the antenna at least 20 cm from the access point.

Junction Box Installation



DWL-8220AP

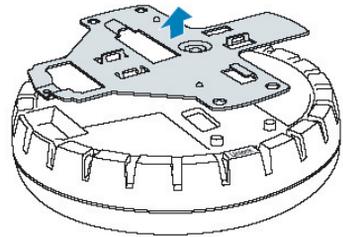
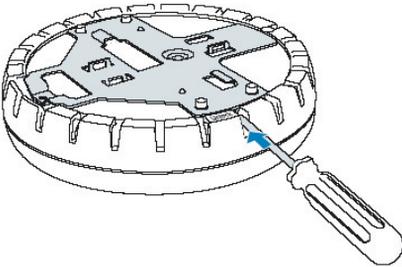


Mounting bracket

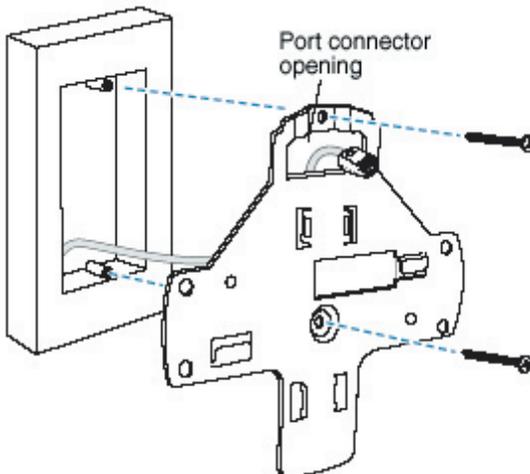


Mounting hardware

1. Remove the mounting bracket from the DWL-8220AP.

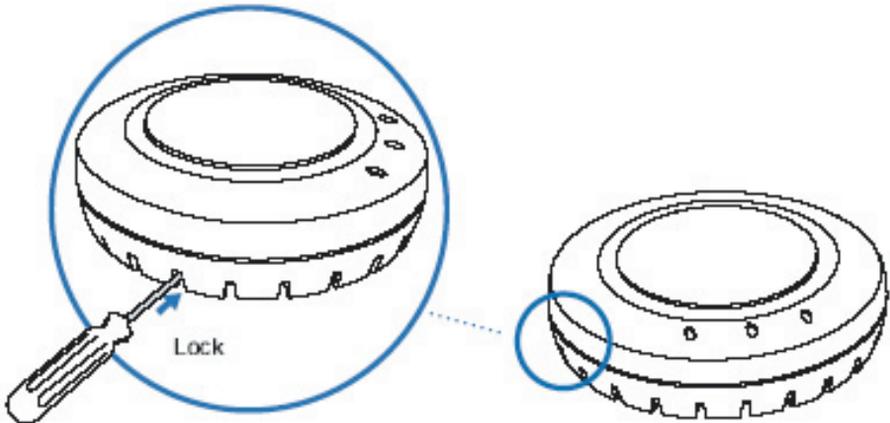


2. Attach the bracket to the junction box.



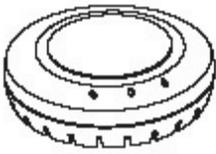
Junction Box Installation (continued)

3. Plug the CAT 5 cable into the access point and attach the DWL-8220AP to the mounting bracket.



Warning: If you plan to use an external antenna for the 802.11b/g or 802.11a radio, install the antenna at least 20 cm from the access point.

Solid Wall or Ceiling Installation



DWL-8220AP



Mounting template

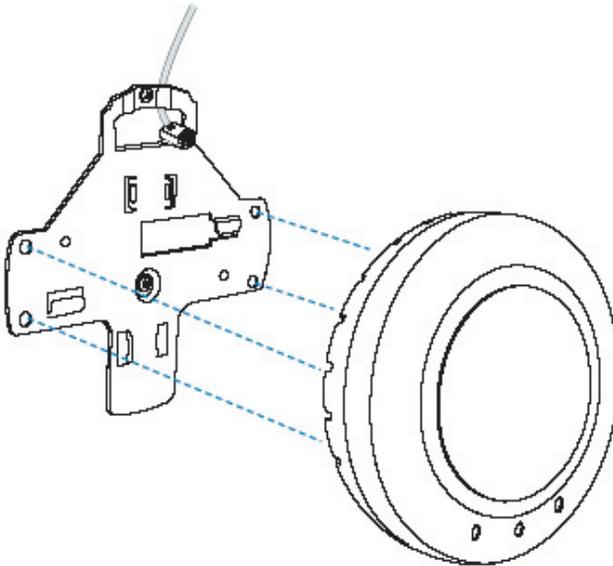


Mounting bracket



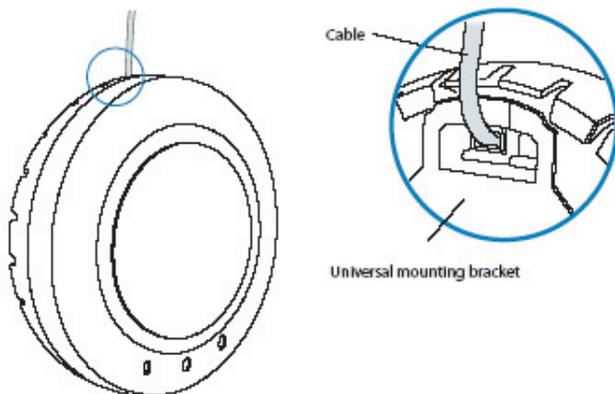
Mounting hardware

1. Use the mounting template to cut a hole for the CAT 5 cable.
2. Remove the mounting bracket from the DWL-8220AP.
3. Attach the bracket to the wall or ceiling.

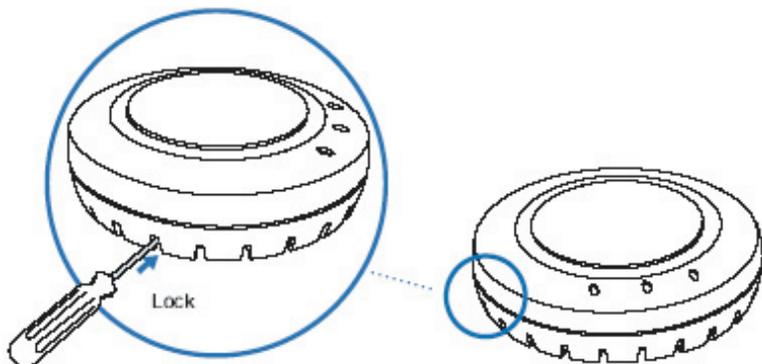


Solid Wall or Ceiling Installation (continued)

4. Plug the CAT 5 cable into the access point.

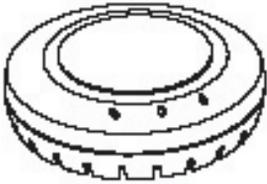


5. Attach the access point to the mounting bracket.



Warning: If you plan to use an external antenna for the 802.11b/g or 802.11a radio, install the antenna at least 20 cm from the access point.

Tabletop Installation



DWL-8220AP

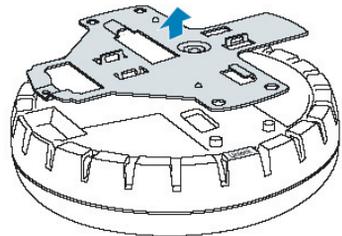
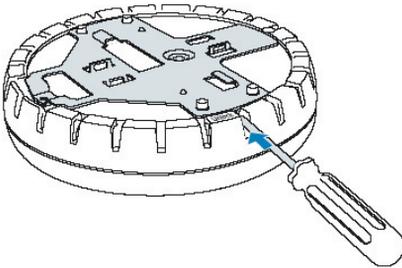


Mounting bracket

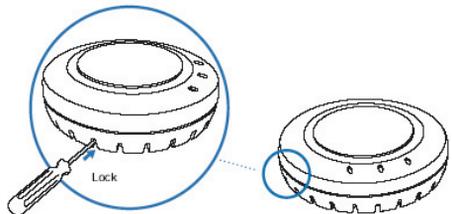
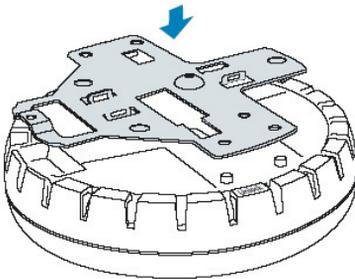


Rubber Feet

1. Remove the mounting bracket from the DWL-8220AP.

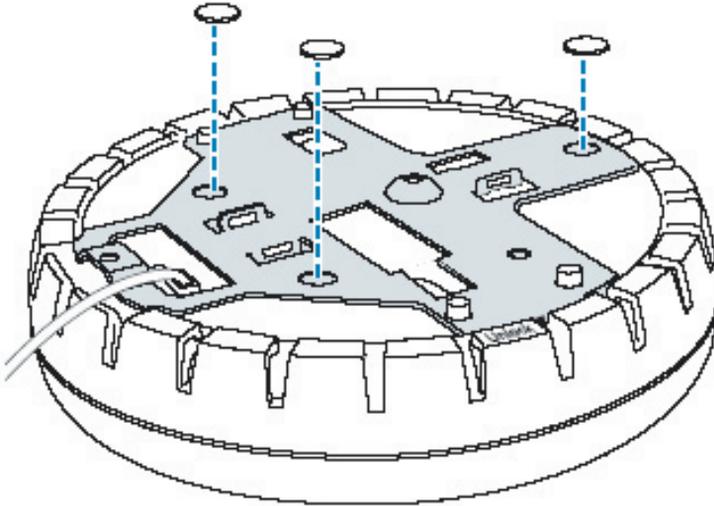


2. Reverse the bracket and attach it to the DWL-8220AP.



Tabletop Installation (continued)

3. Attach the rubber feet.



4. Turn the DWL-8220AP over and place it on the table.

Warning: If you plan to use an external antenna for the 802.11b/g or 802.11a radio, install the antenna at least 20 cm from the access point.

Technical Support

D-Link's website contains the latest user documentation and software updates for D-Link products.

D-Link provides free technical support for customers within the United States and Canada for the duration of the product's warranty period.

U.S. and Canadian customers can contact D-Link Technical Support through our website or by phone.

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Monday through Friday

8:00AM - 5:00PM (Pacific Standard Time)

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