



User's Guide



**TEW-AI86D**  
**TEW-AI86DB**

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# 1. Before you start

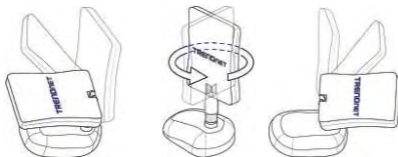


## Package Content

- TEW-AI86D/TEW-AI86DB
- Antenna Mounting Base (TEW-AI86DB only)
- User's Guide Mounting Kit (TEW-AI86DB only)

## Product details

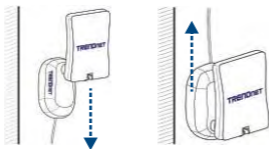
The Directional Indoor Antenna has a reverse SMA female connector that can be connected to your Access Point or Wireless Network Adapter.



**⚠ WARNING:** The antenna can tilt  $0^{\circ}$  to  $180^{\circ}$  and rotate  $360^{\circ}$ . The Internal antenna wire is fixed, therefore do not rotate the antenna beyond  $360^{\circ}$ .

## Wall / partition mount (Antenna base with embedded magnets)

For antenna deployment, you can mount the antenna onto a wall using the fasteners and screws included or simply stick to metal surfaces.

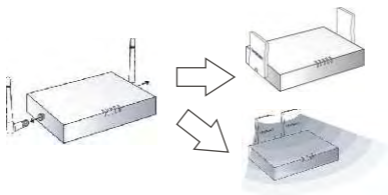


## 2. Hardware installation

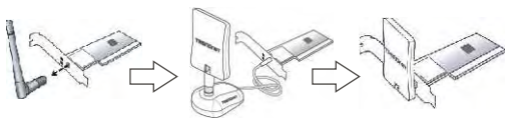
### Recommended devices to connect with this antenna

#### **Wireless base stations with detachable antenna(s):**

As a method of focusing signal broadcast to achieve longer range coverage in your home or office, the antenna generates an 80° wide directional signal.



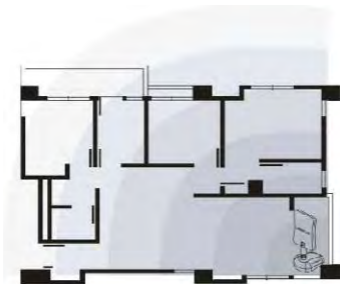
#### **Wireless PCI adapter or IP Camera with detachable Antenna**



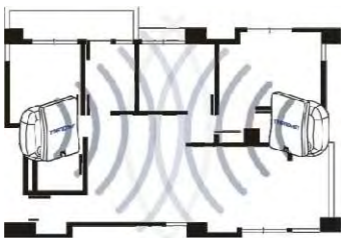
**⚠ Recommendation:** Due to the bi-directional nature of WiFi devices (receive / transmit), it is recommended that you install external antennas on the AP base station as well as the client.

## Recommended installation positions

TEW-AI86D antenna has directional 80° signal coverage. Therefore, the ideal position for the antenna is in the corner of the covered area.

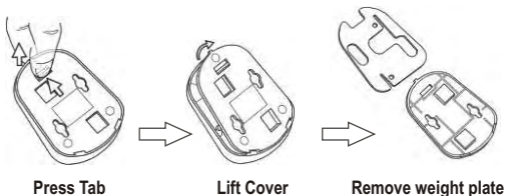


TEW-AI86D antennas can also be placed at the side / edge of the covered area for long range hall / corridor transmission.



## Antenna Base Mounting Methods & Configuration

**⚠ PLEASE READ THE FOLLOWING INSTALLATION STEPS BEFORE DRILLING HOLES IN THE WALL.**



After removing the bottom cover from its seating, remove the metal weight plate from the ceiling clips to expose the screw holes.

**⚠ In order to decrease the weight and increase the magnetic power, it is highly recommended that the metal plate be removed before installing antenna onto ceiling, partition, or any metal surface.**



**⚠ WARNING:** Please make sure that the AP / Client device can reach your selected antenna position (Antenna Cable is 1 meter / 3 feet)

After you have marked the wall for the appropriate drilling sites, re-assemble the antenna stand without the metal weight. The clips should not protrude.

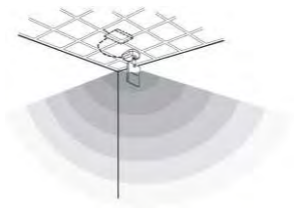
## About the screws

After drilling holes in the drywall / gypsum / plasterboard, sink the plastic anchor into the hole (1/8 inch drill bit (3mm)). Leave about 3 to 5mm (1/8 inch) of the threaded screw exposed as depicted in the diagrams below.



## Ceiling Mount Using Ceiling Clips or Magnets

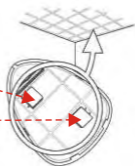
The special ceiling mount feature is mainly recommended for use when your wireless base station is hidden over the ceiling or some kind of anti-theft protection case is implemented.



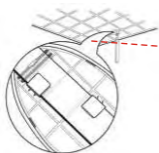
## How to assemble the antenna stand for use with ceiling systems.



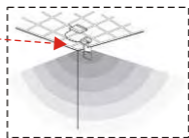
Press tab and lift



Turn over cover,  
remove metal weight plates,  
exposing the ceiling clips.



Secure Clips to Tee



Conceal AP/Router

**⚠ Note:** If the ceiling tees are made of steel, turning the antenna base cover over may not be necessary, because the base has embedded magnets which can be used to adhere the antenna to the ceiling tee.



## Q1. How come I cannot transmit or receive Wi-Fi signals with my TEW-AI86D?

**A1.** The TEW-AI86D is a directional antenna and can only send and receive signals from the front panel. Make sure to adjust the position of the antenna by directing the front panel to laptops, PCs or other wireless devices.

## Q2. My access point indicates that it is receiving power, and my laptop is within range of the TEW-AI86D. However, my laptop does not receive any signals from my access point.

**A2.** Make sure that you properly connect the antenna to the Wi-Fi Access Point. (See 2. Hardware Installation)

## Q3. Why won't the TEW-AI86D work with my IEEE 802.11a Wireless Router or Access point?

**A3.** Yes. The TEW-AI86D is compatible with IEEE 802.11a/b/g wireless devices.

## Q4. Is it necessary to use the tapping screws or the wall anchors that come with the TEW-AI86DB?

**A4.** It is only necessary if you decide to mount the TEW-AI86DB at a permanent location. Use discretion when attaching mounting brackets to the TEW-AI86DB.

If you have any questions regarding the TEW-AI86D/TEW-AI86DB, please contact TRENDnet Technical Support Department.

### Certifications

This equipment has been tested and found to comply with FCC and CE Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received.  
Including interference that may cause undesired operation.



Waste electrical and electronic products must not be disposed of with household waste. Please recycle where facilities exist. Check with you Local Authority or Retailer for recycling advice.



**NOTE:** 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.

## Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

### TEW-AI86D/TEW-AI86DB - 3 Years Warranty

If a product does not operate as warranted above during the applicable warranty period, TRENDnet shall, at its option and expense, repair the defective product or part, deliver to customer an equivalent product or part to replace the defective item, or refund to customer the purchase price paid for the defective product. All products that are replaced will become the property of TRENDnet. Replacement products may be new or reconditioned.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet office within the applicable warranty period for a Return Material Authorization (RMA) number, accompanied by a copy of the dated proof of the purchase. Products returned to TRENDnet must be pre-authorized by TRENDnet with RMA number marked on the outside of the package, and sent prepaid, insured and packaged appropriately for safe shipment.

WARRANTIES EXCLUSIVE: IF THE TRENDnet PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE, AT TRENDnet'S OPTION, REPAIR OR REPLACEMENT. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. TRENDnet NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION MAINTENANCE OR USE OF TRENDnet'S PRODUCTS.

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LIMITATION OF LIABILITY: TO THE FULL EXTENT ALLOWED BY LAW TRENDnet ALSO EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF THE POSSIBILITY OF SUCH DAMAGES, AND LIMITS ITS LIABILITY TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE PAID, AT TRENDnet'S OPTION. THIS DISCLAIMER OF LIABILITY FOR DAMAGES WILL NOT BE AFFECTED IF ANY REMEDY PROVIDED HEREIN SHALL FAIL OF ITS ESSENTIAL PURPOSE.

Governing Law: This Limited Warranty shall be governed by the laws of the state of California.



# TRENDnet

## TRENDnet Technical Support

### US/Canada Support Center

**Contact**

**Telephone:** 1(888) 777-1550

**Fax:** 1(310) 626-6267

**Email:** support@trendnet.com

**Tech Support Hours**

7:30am - 6:00pm  
Pacific Standard Time  
Monday - Friday

### European Support Center

**Contact****Telephone:**

Deutsch: +49 (0) 6331 / 268-460

Français: +49 (0) 6331 / 268-461

0800-907-161 (numéro vert)

Español: +49 (0) 6331 / 268-462

English: +49 (0) 6331 / 268-463

Italiano: +49 (0) 6331 / 268-464

Dutch: +49 (0) 6331 / 268-465

**Fax:** +49 (0) 6331 / 268-466

**Tech Support Hours**

8:00am - 6:00pm  
Middle European Time  
Monday - Friday

## Product Warranty Registration

Please take a moment to register your product online.  
Go to TRENDnet's website at <http://www.trendnet.com>

# TRENDnet

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