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INSTALLATION INSTRUCTIONS:

“WiFi Kit” for CLAMP-150[®] “Clamp to Anything” Portable Antenna Mount

These instructions describe how to install the “WiFi Kit” to any CLAMP-150[®] portable "clamp-on" antenna mount. The WiFi Kit enables your WiFi or SHF or cell phone outside or inside high gain antenna to be clamped to almost any surface. This allows for quick installation of your antenna while traveling, or for permanent installation where you do not want to drill holes to mount the antenna.

For amateur and other radio operators, the same CLAMP-150 can also be used with almost any small to medium HF mobile antenna, essentially any VHF/UHF mobile antenna and Buddipole[™] antennas. All you need is the appropriate mounting base, all of which are interchangeable at any time – we now offer six (6) choices!

The most current version of these instructions is on our web site “Downloads” page, and may be more recent than hard copy instructions provided with our products. You can check the version of the instructions by the date code at the bottom of each page. Color versions of the black and white photos provided in hard copy instructions are available with the download version of these instructions on our web site.

Safety First!

*Use caution if you are installing your antenna on a balcony or location where the antenna could fall on someone or cause damage if it were to fall. You might want to consider attaching a "safety line" from your antenna/mount to the mounting surface in the event that it was to come loose. As with any antenna installation, be careful around thunderstorms and lightning, and you may want to remove your antenna or disconnect the coax BEFORE a storm appears - remember that if you can hear thunder you can be struck by lightning! It is up to the user to ensure that everything is installed securely and safely. These instructions are meant to provide general guidelines but can not provide all of the details on how to safely install your mount and antenna, as each installation is unique. If you feel that you cannot safely install your antenna on the CLAMP, or it does not meet your needs, you may return it for a refund within two weeks (see Warranty for details). **SAFETY FIRST!***

Tools Needed

No special tools are required. For smaller antennas the wing nuts can be tightened by hand. You can use pliers to further tighten the wing nuts; this is recommended for larger antennas. Be sure the pliers does not damage the bolt threads.

What You Need

You need a WiFi or SHF or cell phone antenna that can be mounted (hardware provided with antenna) to a 1 inch or larger diameter mast. You will need coax between the antenna and device (WiFi adapter, cell phone or radio) – be sure you know what type of connectors are on your antenna and device.

Installation Instructions

Refer to the **figures below** for assembly and installation examples. Also refer to the **CLAMP150 instructions**.

First, install the “WiFi Kit” “L” bracket between the long clamping half (has three holes) of the CLAMP150 and the two other “L” brackets that come with the CLAMP150. Use the outer most hole in the long clamping half. All hardware is provided. The “L” brackets can be installed “backwards”, but typically are installed so the two CLAMP150 “L’s” have their flat surfaces at the same level (see **Figure 2**).

Second, mount the WiFi Kit Mast using the provided 3/8x16 hardware, into the largest (3/4” diameter) hole in the outermost CLAMP-150 “L” bracket.. The wing nut should be tightened securely.

Now you are ready to mount the CLAMP-150 to your mounting surface. Please refer to the installation instructions that come with the CLAMP150 – can also be downloaded on our **DOWNLOADS** web page.

Last, mount your antenna to the 1-1/16” diameter aluminum cap at the end of the mast. Your antenna should come with U-bolt hardware that fastens to this part. Be sure this and all parts are tight.

You are now ready to connect the coax to the antenna and aim the antenna.

Spare parts, accessories, downloads and related products.

Let us know if you need spare parts or are looking for something that we do not yet provide – your idea could become a new product! As a specialty company, we are looking for unique ideas to serve the amateur and two-way radio community.

Check our web site periodically as we continue to add new products or prototype ideas.

You can find the current versions of product instruction manuals (with COLOR PHOTOS) on our “Downloads” page: <http://www.repdesign.us/Download.html>

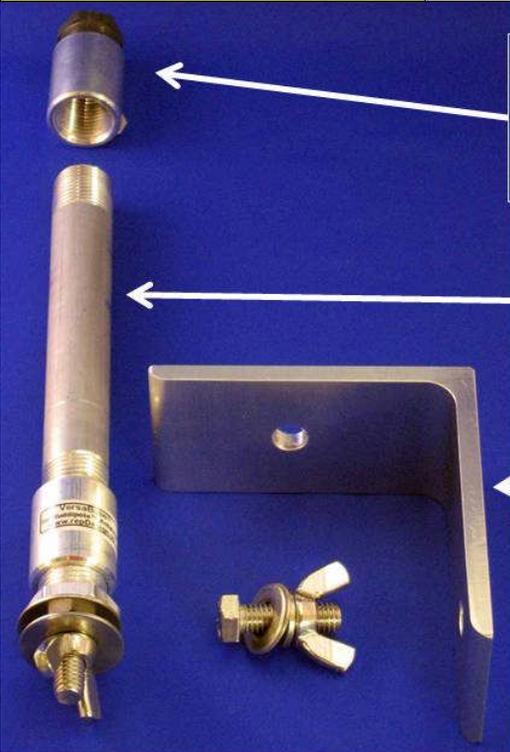
Warranty Summary

All products include a **two (2) week "return for any reason"** and **six (6) month manufacturing defects limited warranty**. If you should need to return your product please contact us **IN ADVANCE** to obtain a return authorization number. **Please refer to the complete warranty terms** that are enclosed with your order; these are also included on our web site.

Product Illustrations & Installation Examples

Figure 1. What you get, parts description and dimensions. One part of the kit uses the same “VersaBase” that is used for Buddipole™ antennas.

<p>WiFi Kit for CLAMP-150© What You Get</p>	 REP Design LLC	1-(860) 426-1894 N7EMW@cox.net www.repDesign.us
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Top Cap:
 1-1/16" (27mm) diameter X 1-1/4" (32mm) tall
 Antenna U-bolt mounts here
 Top PVC cap keeps out rain

Our "VersaBase" short mast:
 7-1/2" (190 mm) long
 Bolts to our CLAMP-150 with 3/8x16 bolt

L bracket for full "3D" aiming of antenna:
 Mounts between standard CLAMP-150
 "L" brackets & longer "clamping half"
 All hardware provided

MATERIALS:
 18-8 stainless steel
 6061-T6 aluminum

Figure 2. Assembly illustration for attaching WiFi Kit to any CLAMP-150.

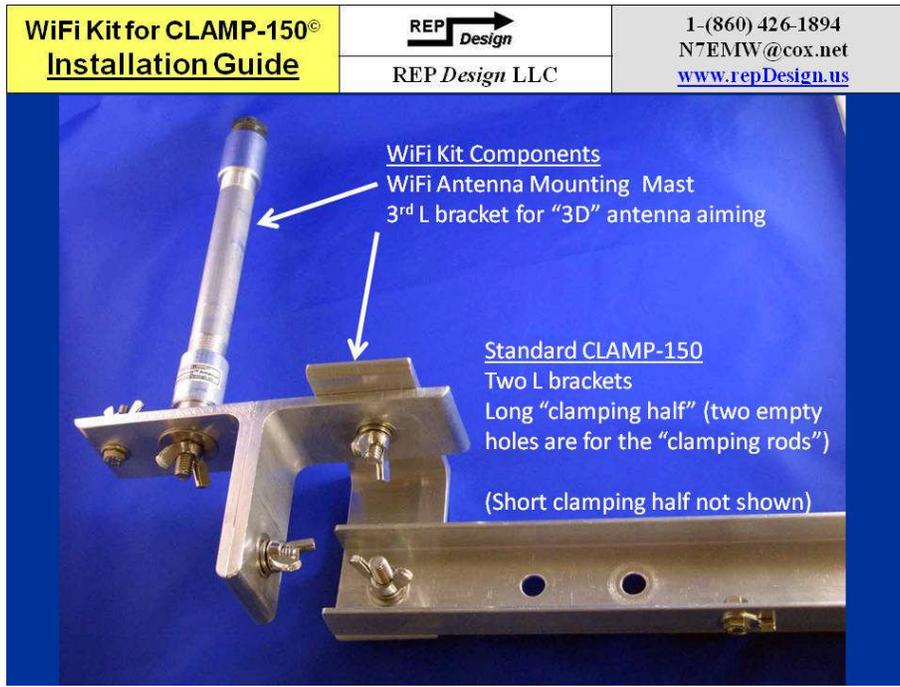


Figure 3. Example of one type of antenna that mounts to the WiFi Kit and CLAMP150. Other Yagi type and cell phone antennas will also work.

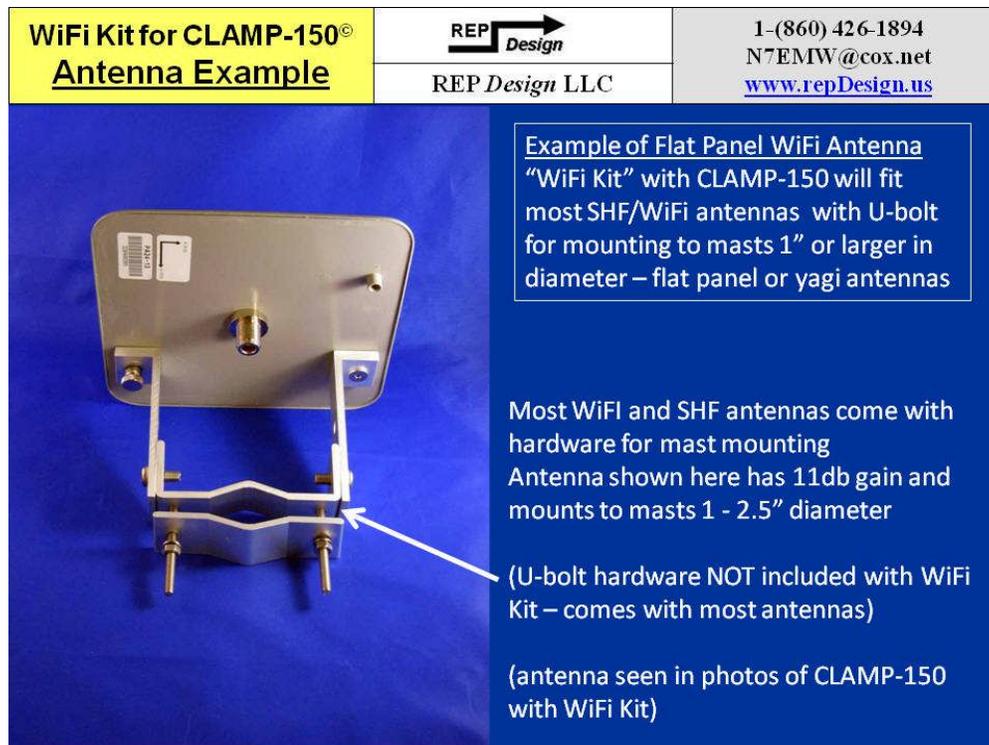
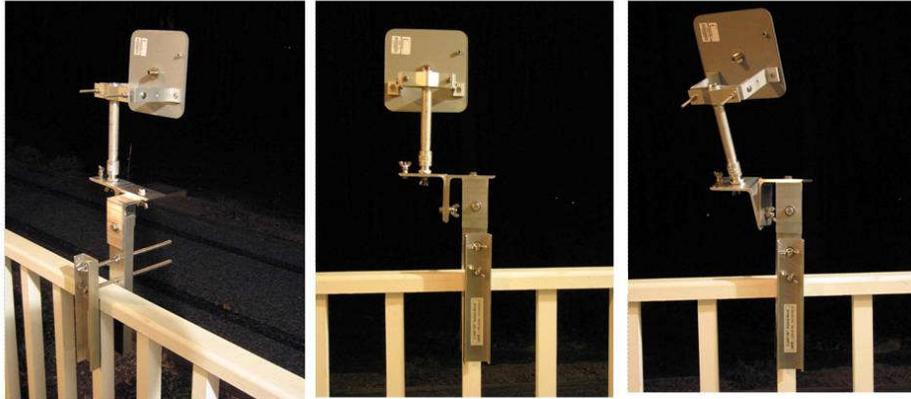


Figure 4. Examples for mounting your antenna.

The CLAMP150 can be mounted vertically, horizontally or to a slanted surface, for full “3D” antenna aiming. If you have a choice, mount the CLAMP150 vertically as this helps to balance the antenna on the mounting surface. However, it also works very well mounted horizontally.

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WiFi or SHF Antenna on CLAMP-150 mounted vertically
 Antenna can be aimed up/down and rotated – full “3D”
 3 minute installation on almost any surface – railing chair,
 fence, table, bench - you name it!

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Antenna on CLAMP-150 with “WiFi Kit”
mounted horizontally & on slanted surface
 No matter how mounted, antenna can be aimed “3D”