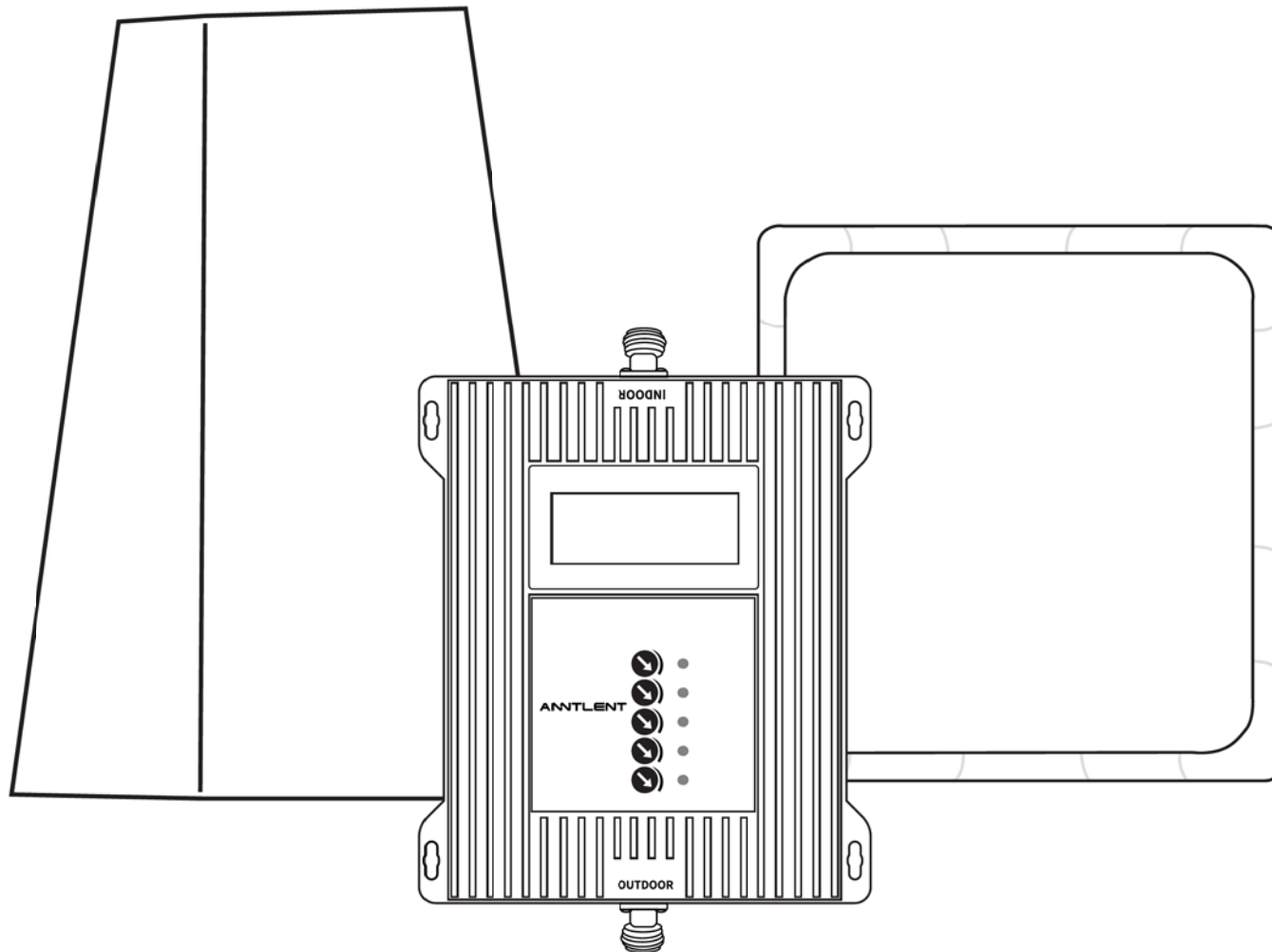


ANTLENT

User's Manual

Cell Phone Signal Booster



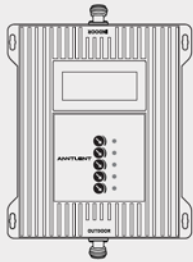
Internal No. N70AN-PL

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Package Contents

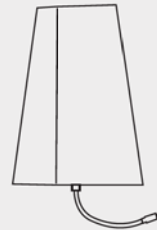
Please confirm that your purchase includes the following items:



Booster



Indoor Panel
Antenna



Outdoor Log-period
Antenna



16ft (5m)
Cable *2



33ft (10m)
Cable



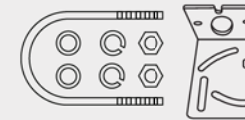
Window Entry
Cable



Power Adaptor



Mount Bracket for
Indoor Antenna



Mount Bracket for
Outdoor Antenna

Before Getting Started

The whole installation process may take 1 to 2 hours, and 2 people will be easier to calibrate the position and direction of the antenna. Make sure the following materials are prepared and ready for your installation.



1. 2 inches diameter mount pole



2. Phillips-head screwdriver



3. Adjustable wrench or open-end wrench

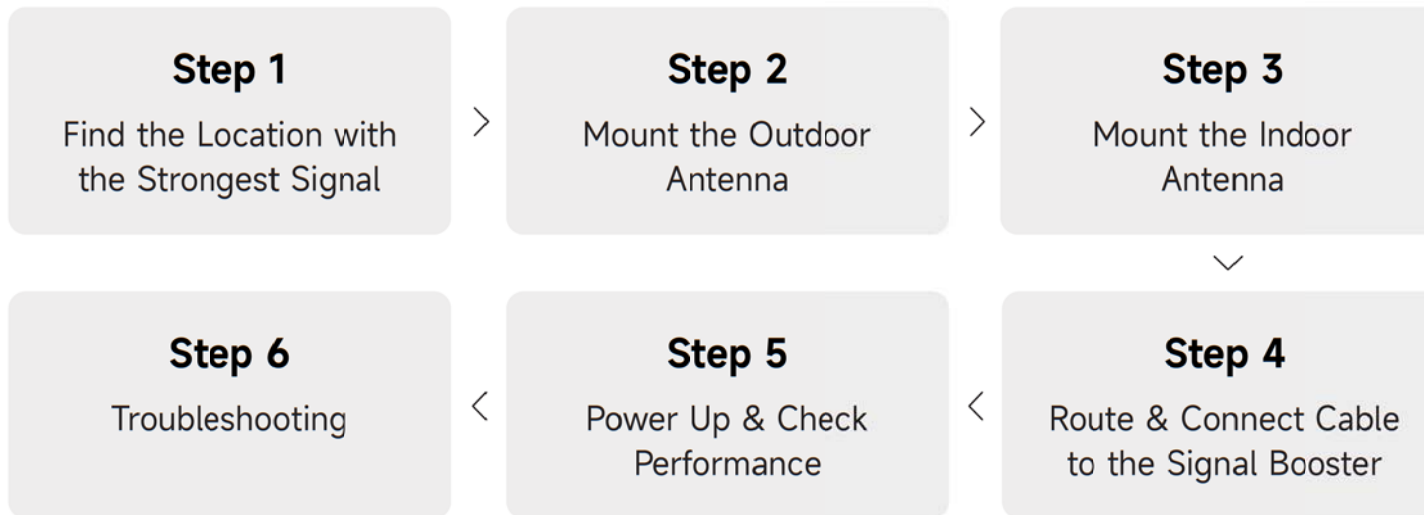


4. Drill (if routing cable through wall)

Note: We strongly recommend that you find optimal locations for indoor and outdoor antennas via a pre-installation process, then start your formal installation.

Installation

Installation Overview



2

Note: Do not power on the booster until system is fully installed.

Step 1 Find Location with the Strongest Signal

Find a location outside the house that has the best reception of cell phone signals. It is recommended to install it in a high, open, and unobstructed location such as the roof.

(Use 'Signal Advisor' APP to check signal strength and find direction of your carrier's cell tower, see the APP instruction on Page 11 for detailed guide.)

Step 2 Mount the Outdoor Directional Log-Periodic Antenna

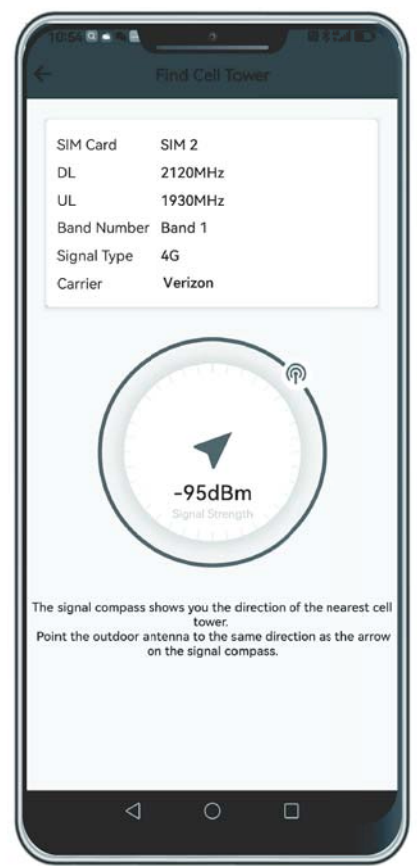
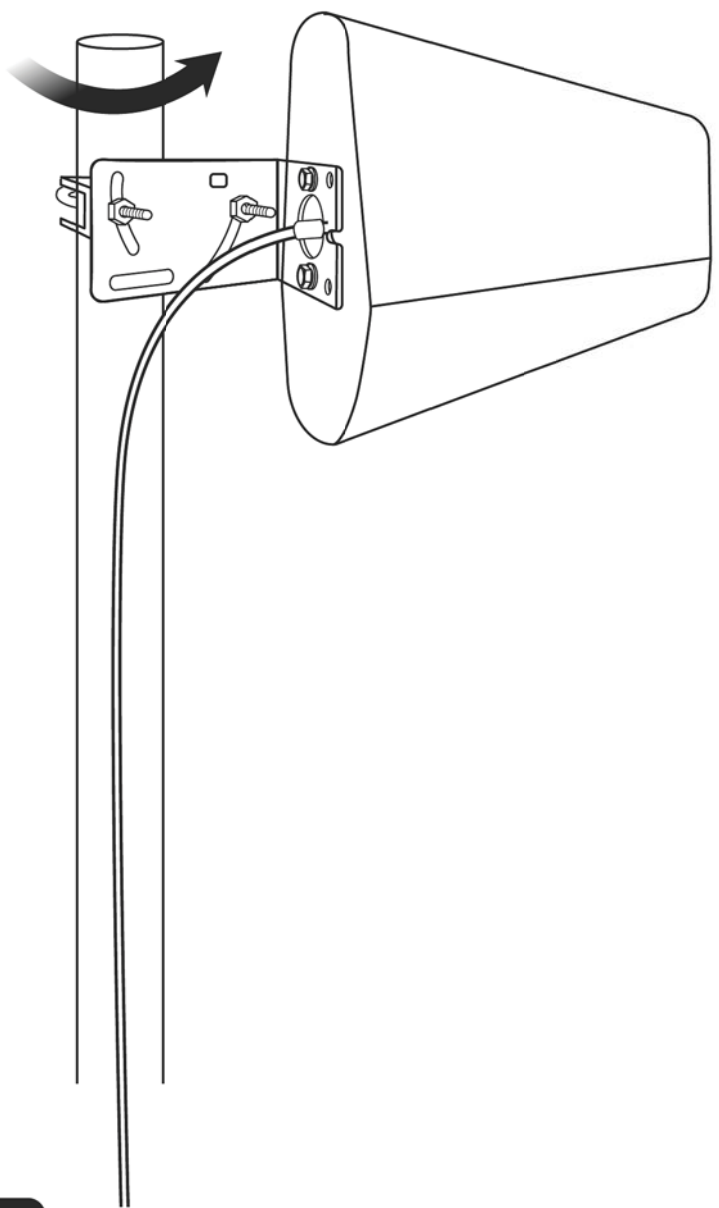
Before you begin, please note that you may require a mast on which to mount the outdoor antenna, you need to purchase it additionally from the manufacturer.

After identifying the location with the strongest signal, decide the installation location for your outdoor antenna. It should allow for sufficient isolation between outdoor and indoor antennas. Vertical isolation is preferred as it is more effective than horizontal.

The Directional Log-Periodic Antenna should be mounted at the highest possible location above the roof line and point towards the direction of your carrier's nearest cell tower. **This is the most critical step of installation process because it will determine the overall performance of the booster.**

Note:

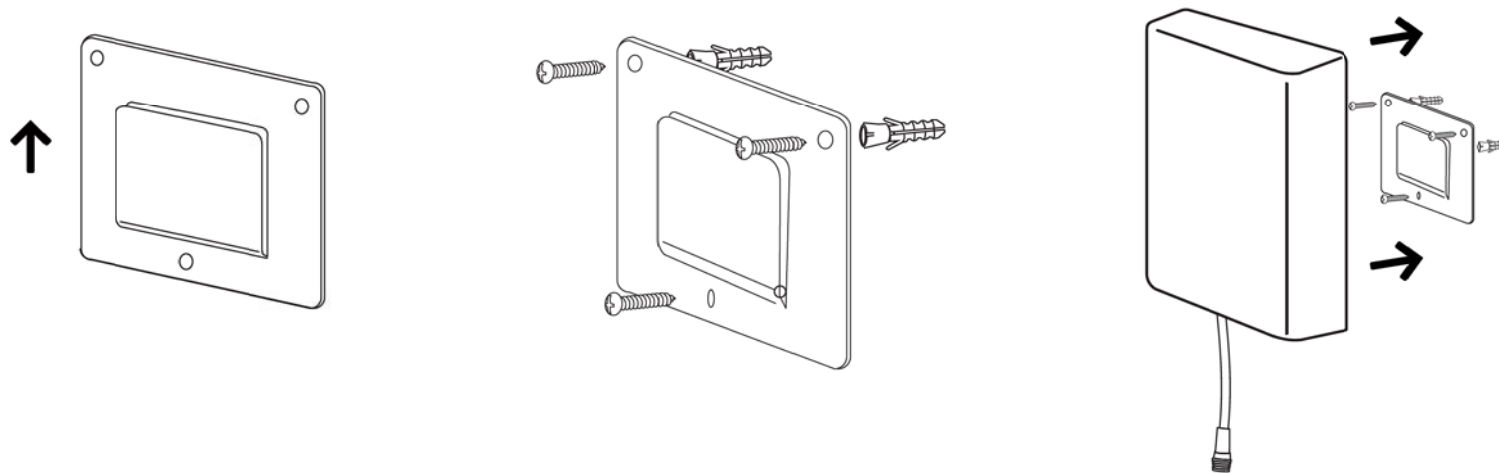
1. The greater the isolation between indoor and outdoor antennas, the better performance you will get from the booster.
2. Make sure Indoor Antenna and Outdoor Antenna are installed in opposite directions.



Step 3 Mount the Indoor Panel Antenna

The Indoor Panel Antenna is directional with a 120-degree reach, it should be mounted on a vertical surface or wall where there are no objects that may obstruct signals. Connect the antenna to the booster connector labelled 'INDOOR'.

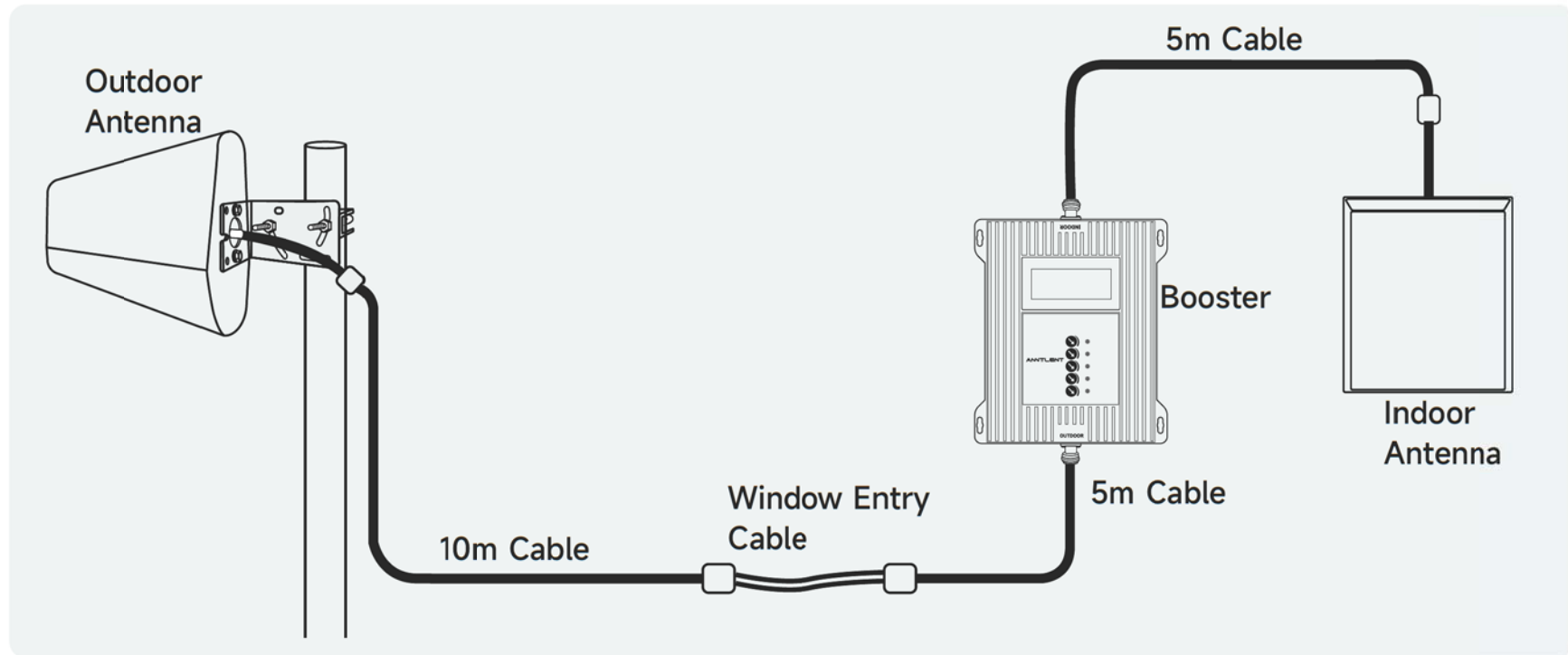
- Note:** 1. The Indoor Panel Antenna should be installed in indoor activity area to get best coverage and at least 9 meters away linearly from the outdoor antenna.
2. The installation height is the approximate 1.5-2 meters.



Panel Antenna Install Illustration

Step 4 Route & Connect Cable to the Signal Booster

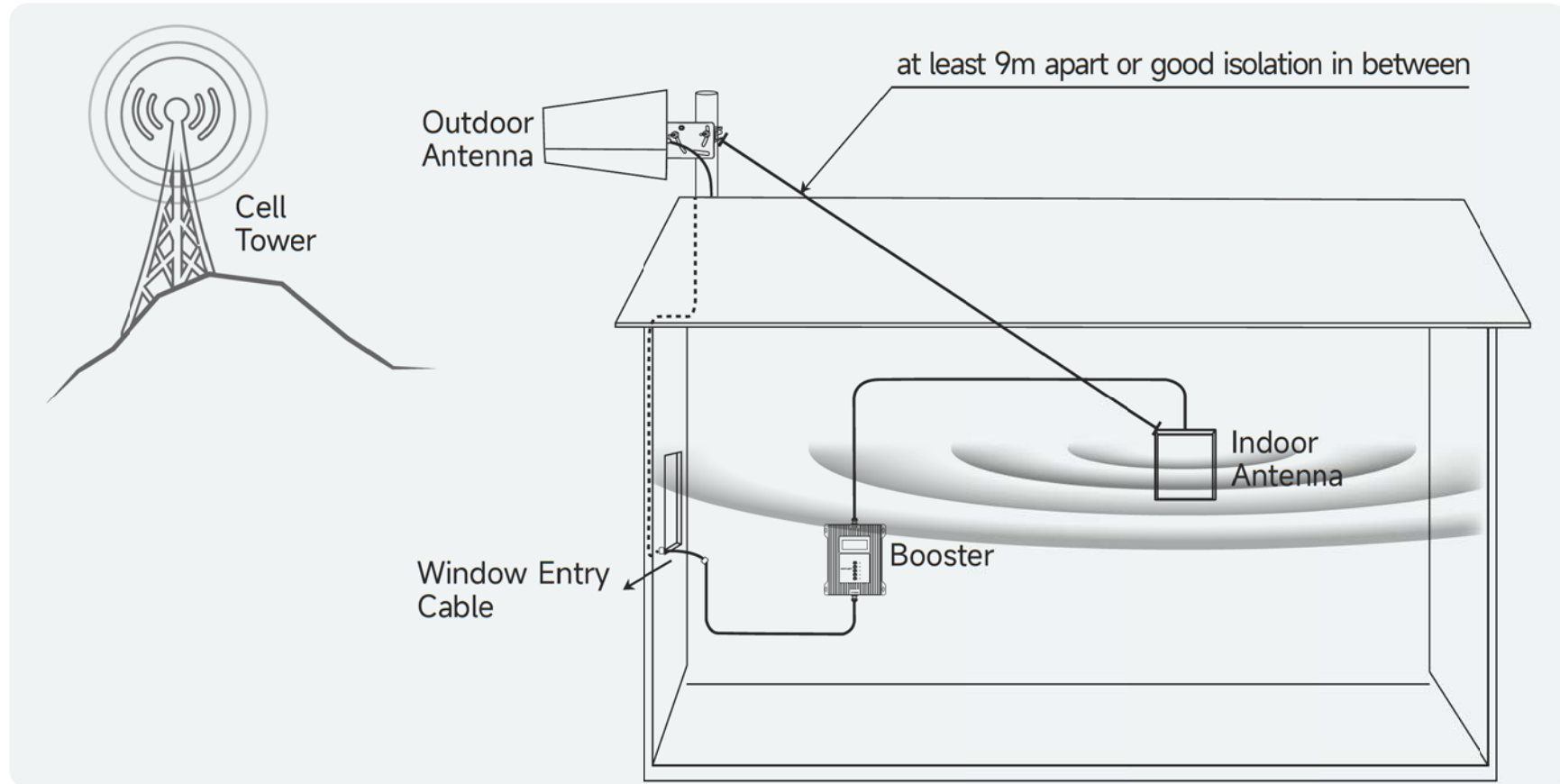
Connect the cable to outdoor antenna and route cable into house. All connections should be tightened.



A **Window Entry Cable** is provided to help route cable into house easier. Route cable to booster, please connect it to the connector labelled 'OUTDOOR'.

Step 5 Power On the Booster & Check Performance

After completing installation step by step, turn on the power and the booster will start to work. The indoor signal strength should be enhanced for normal use. If the signal is still not improved, please refer to troubleshooting steps.

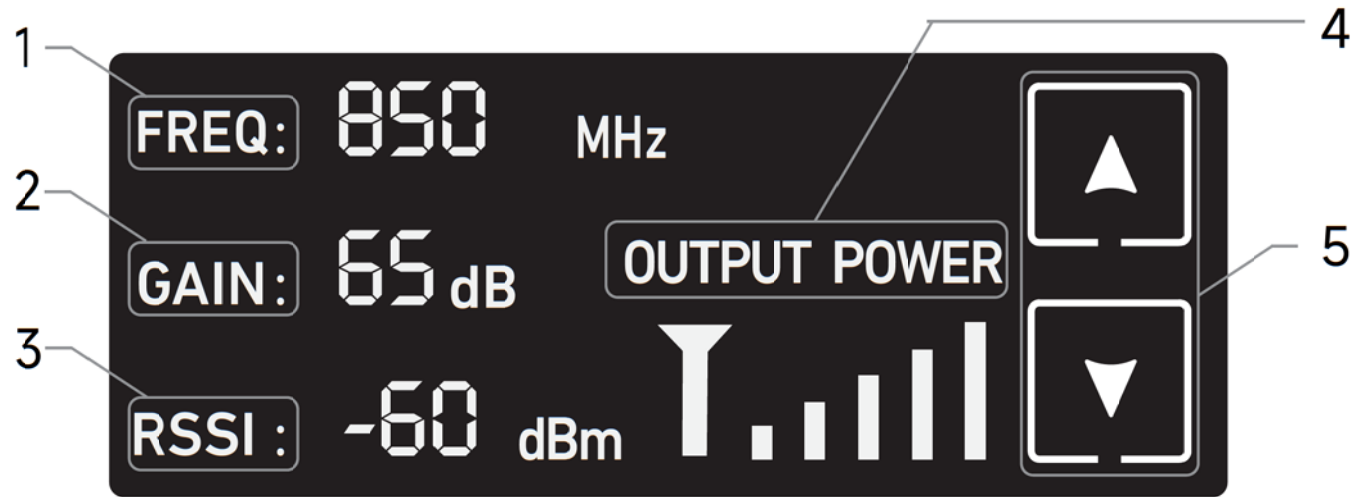


Step 6 Troubleshooting

Problem	Resolution
LED shows Red	<p>Stronger signal input or self-oscillation has been detected, AGC (Auto-Gain Control) function is working and one or more of the band channel have been shut down.</p> <ol style="list-style-type: none">1. Increase the distance (ideally greater than 9m) between indoor and outdoor antennas if possible, make sure that they are installed in opposite directions.2. Try to adjust the direction of the outdoor antenna to slightly deviate from the signal tower base station to reduce input signal strength.3. Reduce the gain manually by turning the knob on booster (reduce 1dB each time) and see if there is any improvement.
Indoor signal strength has not improved	<ol style="list-style-type: none">1. Check if the installation is correct. If not sure, please contact us.2. Verify the LED is ON in Green after powering on the booster.3. Verify that the frequency band of your cell phone matches with the frequency band supported by booster. <p>For Android: Use our 'Signal Advisor' APP, see the APP instruction for detailed guide For iPhone: Dial No. *3001#12345#* → tap 'Serving Cell Info' → Check 'Band Info'</p>
Indoor signal coverage is too narrow	<ol style="list-style-type: none">1. Find a location outdoors that receives a stronger signal as the installation location of outdoor antenna. Please install the outdoor antenna as high as possible.2. Use 'Signal Advisor' APP to find the direction of the nearest cell tower as the installation direction of the outdoor antenna.3. Contact us to replace with our newly developed high sensitive booster.

Introduction LCD Display

The LCD screen displays the **Frequency**, **Gain**, **Received Signal Strength Indication** and **Output Power** for each frequency band.





1. "**FREQ**": Frequency for each frequency band.

2. "**GAIN**": Gain for each frequency band. When the gain for a particular frequency band is less than 45dB, the channel for this frequency band will shut down automatically and gain will set to 0dB.

3. "**RSSI**": Received Signal Strength Indication, which is the strength of signals received by outdoor antenna.

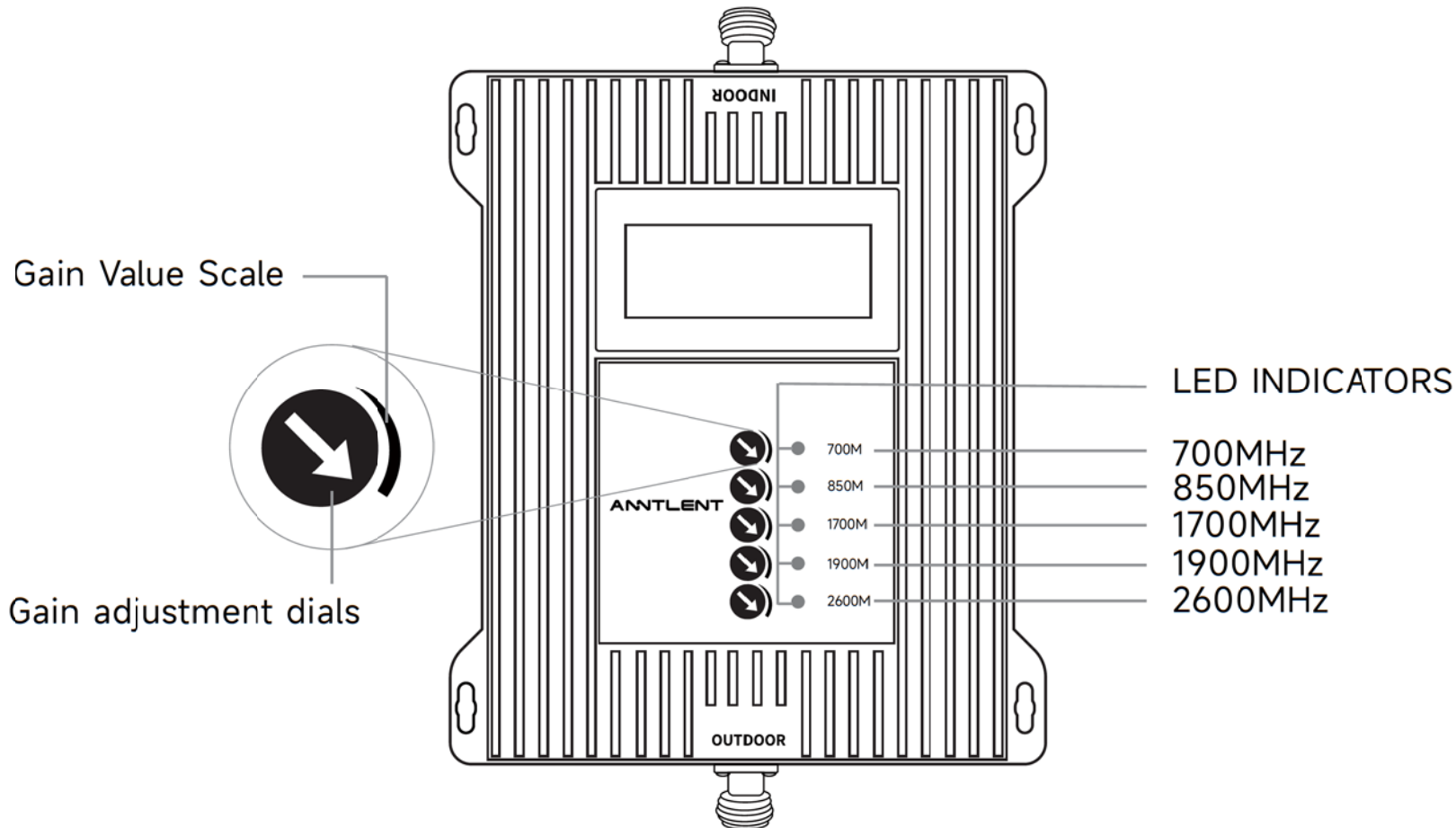
4. "**OUTPUT POWER**": Output power indication, from left to right, weak to strong signal.

5.  : Press the the key to switch between different frequency bands.

Introduction of Manual Gain Control Function

The gain for each frequency band should always be set at its maximum value unless the booster is not working properly and following troubleshooting steps cannot solve the problem.

The figure shown below is only for illustration purposes, the frequency band noted maybe different from your booster.



Note: Please avoid setting the gain below 40dB as this would shut down the particular frequency band channel.

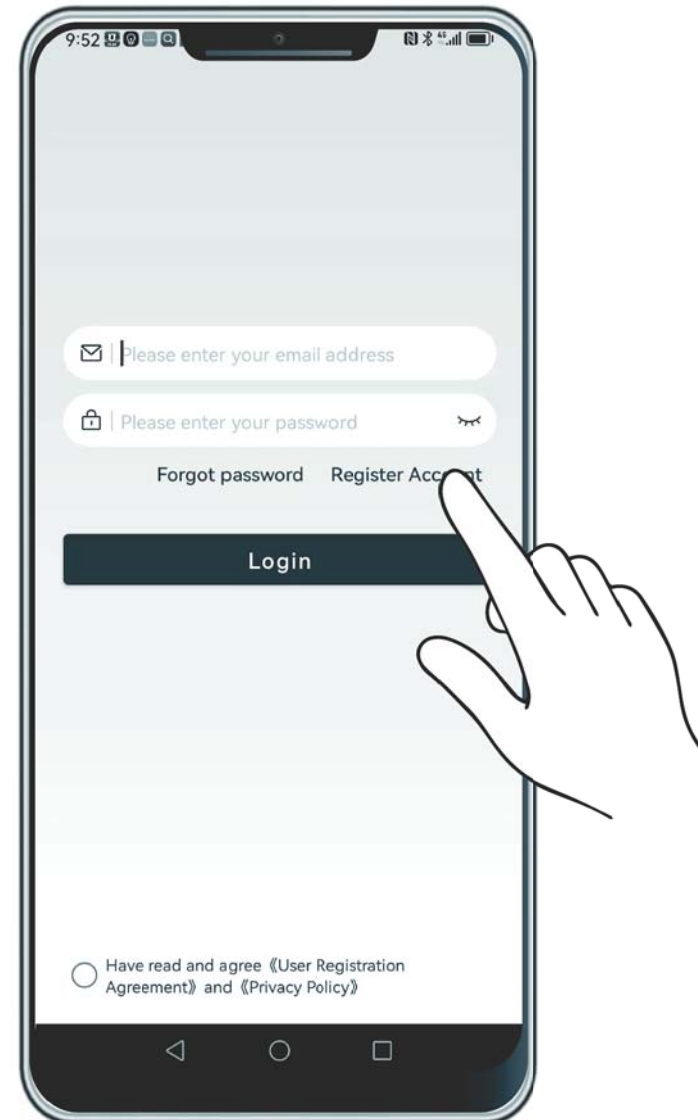
Instructions of Signal Advisor APP:

- For Android:



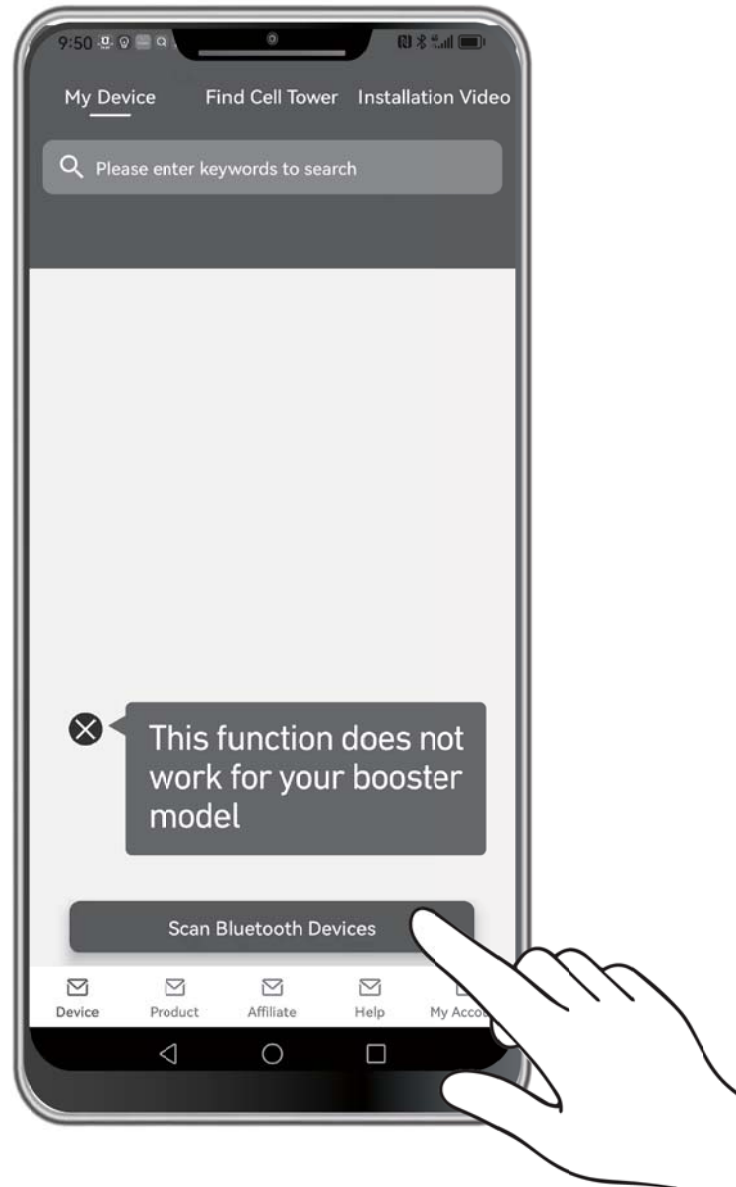
1 Log in:

After launching the APP, for the first time use, you need to register your account, you will be prompted to enter your email address, your buying platform and create your password.



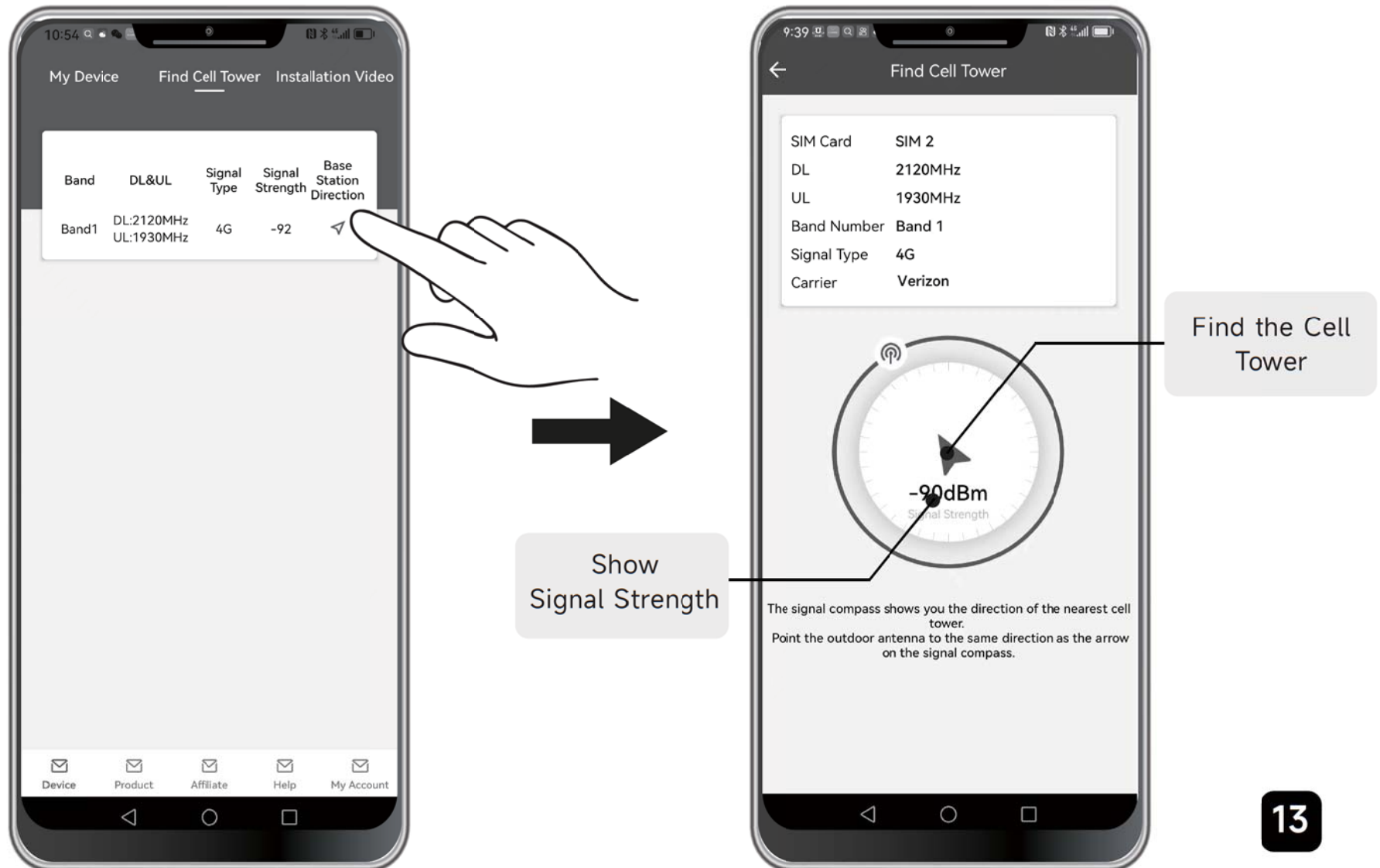
Please note:

This booster model cannot be connected to the APP. This APP function is only available for certain booster models. Please skip this page.



2 Test Frequency Band and Find Cell Tower:

First, tap 'Find Cell Tower'. You can see the frequency band of you phone here. Then, tap the blue arrow icon shown below 'Base Station Direction' and you can enter the page as shown on the right. You can now follow the signal strength prompts shown in the blue circle to find a direction with strong and stable signals as the installation direction of your outdoor antenna.



3 Watch Installation Video:

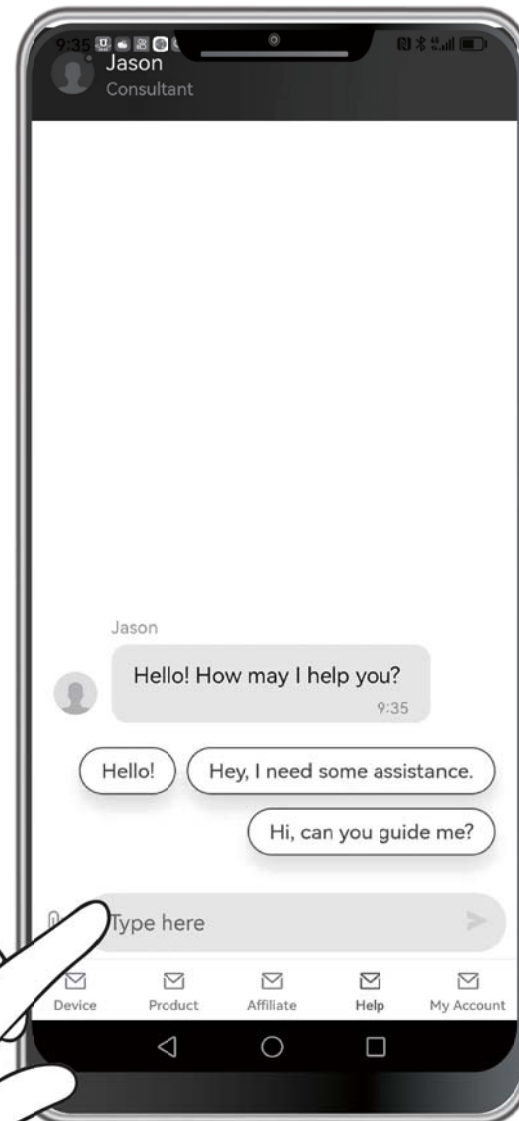
At the top of the screen, tap 'Installation Video'.



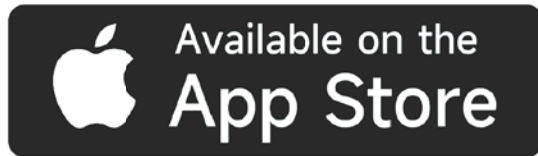
4 Contact Us:

If you are experiencing any product installation problems, please do not hesitate to contact us.

You can send messages to us by tapping 'Help' at the bottom of the screen. You can also leave your email address here if we don't reply in time.

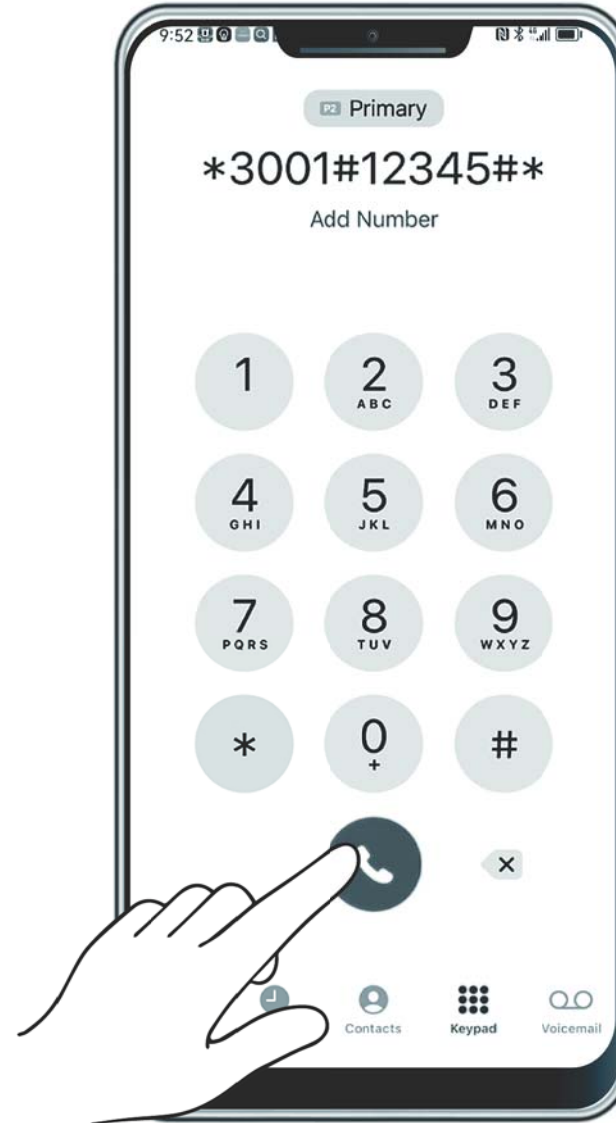


- For iPhone:



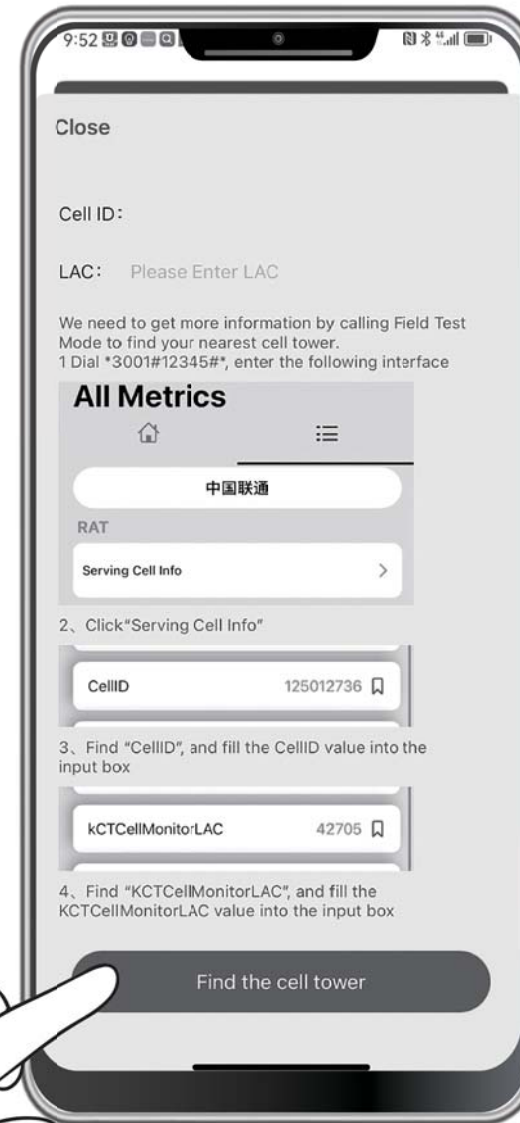
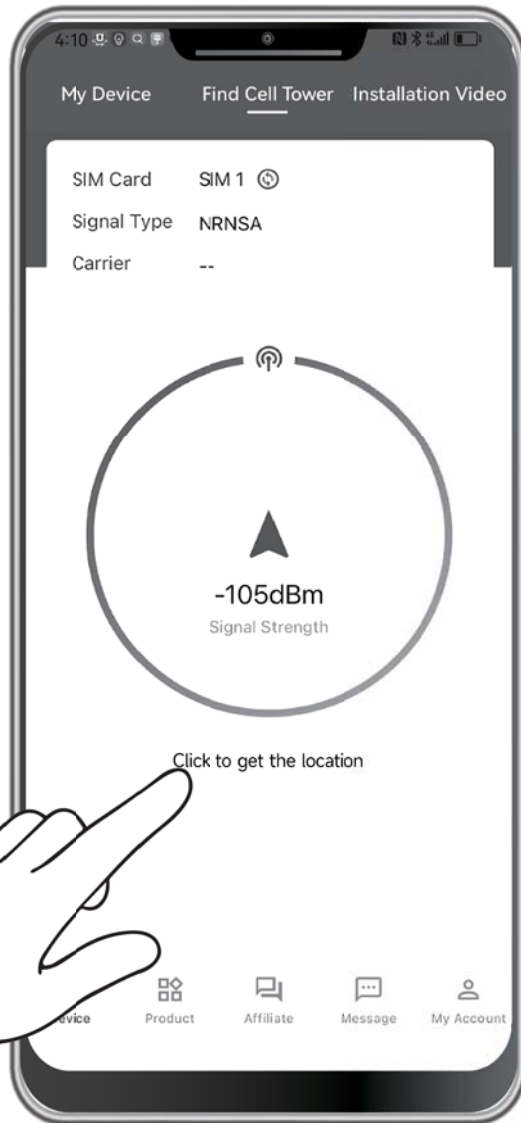
1 Test Frequency Band:

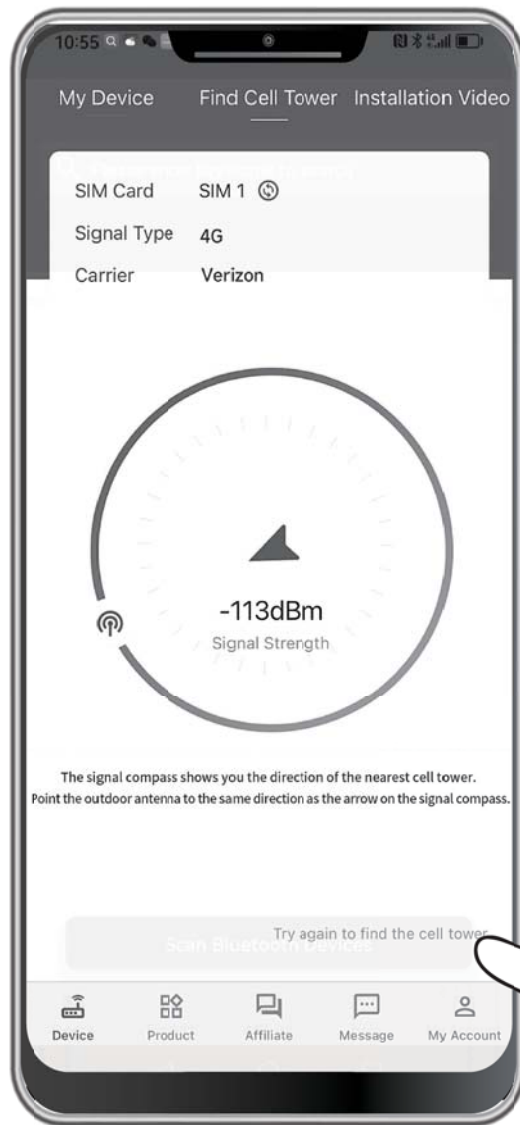
Dial No. ***3001#12345#*** → Tap 'Serving Cell Info'
→ Check 'Band Info'



2 Find Cell Tower:

First, tap 'Find Cell Tower'. Then, tap the text 'Click to get the location' and you can enter the page as shown on the right. You can now follow instruction steps to fill in your 'Cell ID' and 'LAC' and then tap 'Find the cell tower'.





Follow the signal strength prompts shown in the blue circle to find a direction with strong and stable signals as the installation direction of your outdoor antenna. You can tap the text **'Try again to find the cell tower'** to go to the previous page.

Other functions of the APP for iPhone please refer to the instruction for Android, they are basically the same.

FCC Statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radiation Exposure Statement

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

The FCC certification of this device refers to RF exposure testing performed in typical operating conditions, where a person is no closer than 20 centimeters from the device surface at all times, except for non-repetitive patterns with transient time intervals in the order of a second. Only in the stated conditions, the device is shown to fully comply with the FCC RF Exposure requirements of KDB 447498.

Any questions, please contact us.



hello@anntlent.com



www.anntlent.com

Consumer Signal Booster Warning Label:

If the booster has this label (all consumer boosters sold after March 1, 2014, and some sold prior will have this label):



1. Verify that your provider has given permission (e.g., AT&T, Sprint, T-Mobile, Verizon) , or else get permission from your wireless provider to use it.

2. Register your booster with your wireless provider before turning it on. Each wireless provider that gives permission for boosters to be used must provide a free registration system.

Warning: The Inside Antennas for fixed installations must have 6 feet of separation distance from all active users.

Warning: The Outdoor Antennas/Indoor Antennas for fixed installations must be installed no higher than 10 meters above ground.

Warning: Unauthorized antennas, cables, and/or coupling devices are prohibited by FCC rules, Please contact FCC for Details: 1-888-CALL-FF.

Warning: The antenna, cable, and other accessories of the booster kits shall not be modified without the approval of the party responsible, otherwise it shall be deemed invalid.

Antenna Information:

Mode	Frequency (MHz)	Outdoor Antenna Gain (dBi) (Log Periodic Antenna, Model: AN201)	Cable loss (dB)
Uplink	698-716	6	1.80
	777-787	6	1.80
	824-849	6	2.00
	1850-1915	8	2.95
	1710-1780	8	2.70
Mode	Frequency (MHz)	Indoor Antenna Gain (dBi) (Indoor Panel Antenna, Model: AN101)	Cable loss (dB)
Downlink	728-746	7	1.80
	747-757	7	1.80
	869-894	7	2.00
	1930-1995	7	2.95
	2110-2200	7	3.20