

# Quick Start **Guide**

## **Antenna Alignment Tool**

AIMWLLR0-35



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# Welcome

This quick start guide is designed to familiarize you with the features and use of the NetComm Wireless Antenna Alignment Tool. The Antenna Alignment Tool is a battery-powered tool which connects to the alignment port on the back of a NetComm Wireless Outdoor Antenna, providing power and a wireless access point. The installer can then use a portable wireless device, such as a laptop or tablet, to connect to the antenna to read signal strength data and align it in the optimal position.

# Package contents

**The AIMWLLR0-35 package includes:**



1 x AIMWLLR0-35 Antenna Alignment Tool (in pouch)



1 x Antenna Alignment Tool pouch



1 x WiFi security card



1 x Quick Start Guide



1 x Micro USB to Type-A charge cable



1 x AC wall charger (5V/2A)

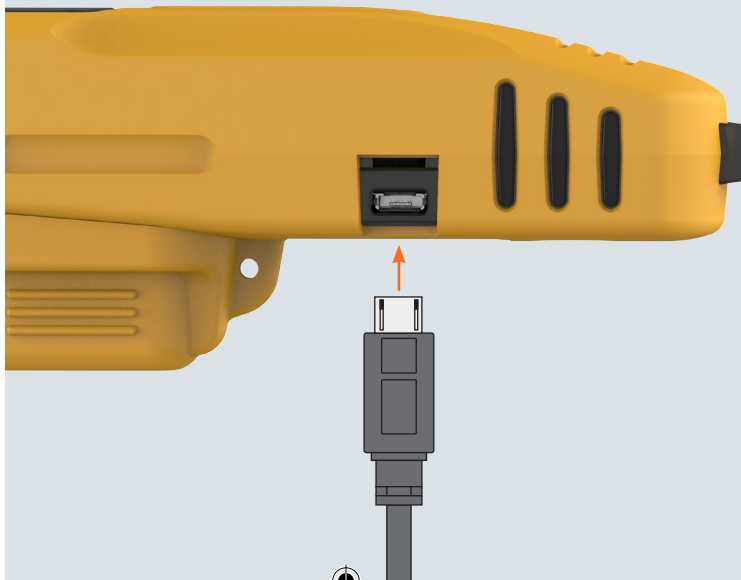
## Device overview

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p>Connector protective cap</p> <p>Protects the connector from dust and moisture when the Antenna Alignment Tool is not in use.</p>                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2    | <p>Power button</p> <p>Push once to toggle the Antenna Alignment Tool on and off. When not connected to the antenna and turned on, the Antenna Alignment Tool displays the remaining battery charge level. See the LED indicator section for details on the battery level indication. When it is turned on, if it is not connected to the antenna within approximately 20 seconds, the Antenna Alignment Tool turns off automatically. When the Antenna Alignment Tool is disconnected from the antenna, it powers off automatically.</p> |
| 3    | <p>Micro USB port to charge the battery</p> <p>The Micro USB port connects to a USB power source using the supplied USB cable to charge the internal battery. Connect the Antenna Alignment Tool to a 5V/2A power source for optimum charging speed.</p>                                                                                                                                                                                                                                                                                  |
| 4    | <p>Multipurpose LED indicators</p> <p>The LED indicators on the Antenna Alignment Tool are multifunctional. They display:</p> <ol style="list-style-type: none"> <li>1. Remaining battery level when the battery check button is pressed or the unit is charging (Battery check mode)</li> <li>2. RF signal strength during alignment (Cell scanning mode)</li> <li>3. System status when the outdoor antenna is in normal operation (Normal operation mode).</li> </ol> <p>See the LED indicator section for more information.</p>       |



# Charging the Antenna Alignment Tool

The included USB cable can be used to charge the Antenna Alignment Tool. Connect the USB cable from the Micro USB port on the Antenna Alignment Tool to the included AC wall charger or another 5V/2A power source for optimum charging speed. The LED indicators on the side of the Antenna Alignment Tool light up and may flash depending on the remaining battery level. See the LED indicator section for details on reading the battery level.



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# Checking the remaining battery level

Press the Power button once. The Antenna Alignment Tool goes into Battery check mode and the LED indicators light up according to the description in the LED indicators section of this guide.



Model: AIMWLLR0-35 Part Code: NRB-0200

AT&T S/N:

P/N: 18411816201128

ISO: MacCormac1234 Key: abcd123456

Power: 3V DC FCC ID: JXA1806030

Compliance: FCC ID: JXA1806030

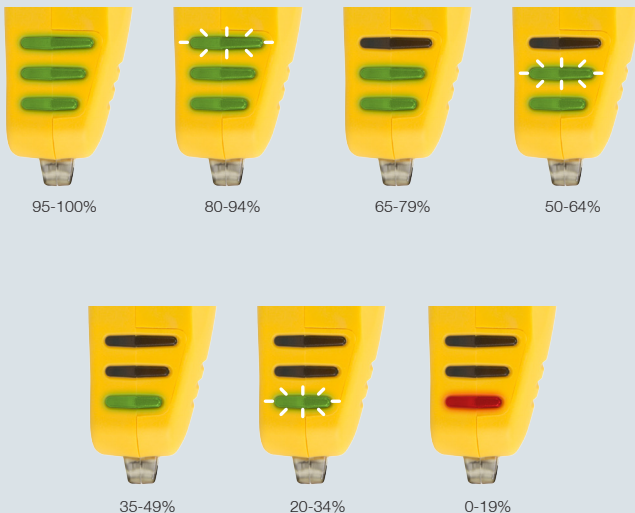
Designed in Australia, Made in China

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# LED Indicators

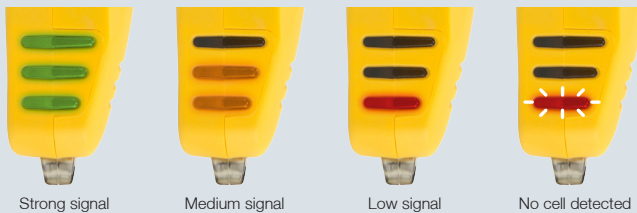
The LED indicators display different things depending on the mode of the Antenna Alignment Tool.

- a) **Battery check mode** – When the power button is pressed or the battery is charging.



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b) **Cell scanning mode** - When the Antenna Alignment Tool is connected to an Outdoor Antenna.



- c) **Normal operation mode** – When the Antenna Alignment Tool is connected to an Outdoor Antenna.



**LED 1** indicates the **Ethernet** connection status of the antenna.

| LED 1                                                                             | DESCRIPTION          |
|-----------------------------------------------------------------------------------|----------------------|
|  | Link is up           |
|  | Activity on Ethernet |

**LED 2** indicates the **Cellular** connection status of the antenna.

| LED 2 STATUS                                                                      | DESCRIPTION        |
|-----------------------------------------------------------------------------------|--------------------|
|  | Data APN attached  |
|  | Data APN attaching |
|  | LTE registered     |
|  | LTE registering    |
|  | LTE not registered |

**LED 3** indicates the **Power** status of the antenna.

| LED 3 STATUS                                                                        | DESCRIPTION |
|-------------------------------------------------------------------------------------|-------------|
|  | No power    |
|  | Power on    |

# Using the Antenna Alignment Tool to align an outdoor antenna

Before beginning to align an outdoor antenna, press the battery check button on the bottom of the Antenna Alignment Tool and observe the battery level indicated by the LED indicators. Ensure that you have an adequate charge level for the installation.

To align an outdoor antenna:

1. Prepare the outdoor antenna as per the Installation Guide.
2. On the outdoor antenna, locate the alignment port and remove the protective cap from it.



3. Remove the protective cap from the Antenna Alignment Tool's connector then connect the Antenna Alignment Tool to the alignment port of the antenna as shown below.
4. When the device is positioned at the mounting location, press the Antenna Alignment Tool's Power button once to turn it on.



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5. Wait approximately 1 minute for the antenna to go through its boot up process.

**NOTE:** When the Antenna Alignment Tool is connected to the Outdoor Antenna, do not point the front panel of the antenna directly at other people or yourself. Always maintain a separation distance of 8 inches between any part of your body and the front of the antenna (the official FCC recommendation specifies 20cm separation). We recommend that you disconnect the PoE cable and Antenna Alignment Tool if you are working in proximity to the antenna and it is not required to be on.

6. Using a portable wireless device such as a laptop or tablet, scan for nearby wireless networks. Connect to the network being broadcast by the Antenna Alignment Tool using the Network Name and Password which are printed on the label and on the WiFi security card included in the package. When the wireless connection has been established, use your wireless device to browse to the IP address of the antenna. To complete the installation, follow the Installation Guide that comes with your outdoor antenna.



Wireless Network Name (SSID):

Security Key:

S/N:

Part Code: NRB-0204

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## RF Exposure

The AIMWLLR0-35 contains a transmitter and a receiver. When it is on, it receives and transmits RF energy. When you communicate with your device, the system handling your connection controls the power level at which your device transmits.

The AIMWLLR0-35 meets the government's requirements for exposure to radio waves. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The AIMWLLR0-35 complies with radio frequency (RF) exposure limits adopted by the Federal Communications Commission for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

The approved module is being used in this device.

This product contains FCC ID: XIA-NRB0200

# FCC Statement

## FCC compliance

Federal Communications Commission Notice (United States): Before a wireless device model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure.

## FCC regulations

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.

This device 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 a 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.
- 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.



### Product Warranty

For warranty information please visit

**<http://www.netcommwireless.com/>**

### Safety and product care

Please refer to the user guide for safety and product care information.



## NetCommWireless

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