FCC Registration Number (FRN): **0025594565**.

Your New FCC Grantee Code is: **2AIGO**

Grantee Code Registration Number: **GC789395**

Account number/IC company number: **21479**

FCC Product ID Number: **2AIGO-AW1001**

IC Product ID Number: **21479-AW1001**

Model Number / Hardware Version ID Number (HVIN): **Stealth-AW1001**

Model Name / Product Marketing Name (PMN): **Stealth-AW1001**

What the Product is used for:

ATC is a direct response to the lack of communication options for action sport athletes. ATC is a lifestyle brand devoted to addressing the needs of its consumers by reinventing the two-way radio.

Wearable technology is experiencing growth in popularity as products continue to adapt to the needs of those on-the-go. ATC is responding to this trend by developing, AWIRE, the first of a unique product line ideal for on-the-hill talk between friends. Users can provide safety alerts and performance tips on-the-go while remaining safe, stylish, and constantly in touch.

External Photo:

Logo:

Product Description:

AWIRE Device is a 2 way radio operating in the FRS (Family Radio Service) Frequency at ~460 MHz. AWIRE focuses on a small module footprint, with a radio transceiver module approximately the same size as a standard business card. In order to accomplish this, many of AWIRE functions are located on a smartphone that functions as a remote control for the AWIRE module. In very basic terms, the AWIRE can be considered a Bluetooth headset that incorporates a two way radio communication into the suite of radio communications that already exist on today's smartphones. The AWIRE will allow users the ability to communicate with each other within 2 Kilometers of each other. AWIRE will still allow for common features of Bluetooth headsets, including music playback and cellular phone call pickup through the device.

The AWIRE device will consist of 3 separate "modules" or systems that simultaneously interact to allow full use of the device. This modularity will allow users to mix and match systems that meet their specific setups and existing equipment.

Smartphone Application
The AWIRE will be controlled via an app written on the Android and iPhone. This app will control all features of the AWIRE with exception of the push to talk button for radio connection. This integration with the phone is intended to allow the AWIRE to be used in a multipurpose role. The phone will be used as the primary human interface between the AWIRE and the user. Allowing indication and adjustment of:

- Volume
- Channel
- Battery Status
- Squelch settings

Bluetooth Connection
The AWIRE will connect to the phone via a dual mode Bluetooth module. This will require a phone capable of operation under the Bluetooth Low Energy specification (BLE) offered in Bluetooth 4.0 specification. This will allow the AWIRE device to simultaneously be used as a headset for applications on the phone unrelated to AWIRE (such as music, phone calls) while also allowing configuration of the AWIRE as needed to setup and maintain communications. High bandwidth communications such as music playback and phone call operations will be maintained via the standard Bluetooth 2.0 Classic operation. The AWIRE Functions will be controlled via the BLE operation protocol as data rate between the AWIRE and phone is not critical for these functions.

AWIRE Module
This module, to be located in or around the user's collar, will house all the custom electronics for the AWIRE device. This includes:

- UHF radio
- Antenna
- USB charge port
- Audio Port
- Bluetooth
- Battery
- Push-to-talk Button
- RGB LED

This module will receive audio and data from the phone and either process it for manipulation in the device or pass the audio information to the headset. If radio communication is received through the UHF antenna, any audio information being passed from the phone will be interrupted while the radio is in active communications.