Certification Exhibit

FCC ID: 2AMO4-JBRF-1

FCC Rule Part: 15.519

TÜV SÜD Project Number: 72128962

Manufacturer: Jigabot, LLC
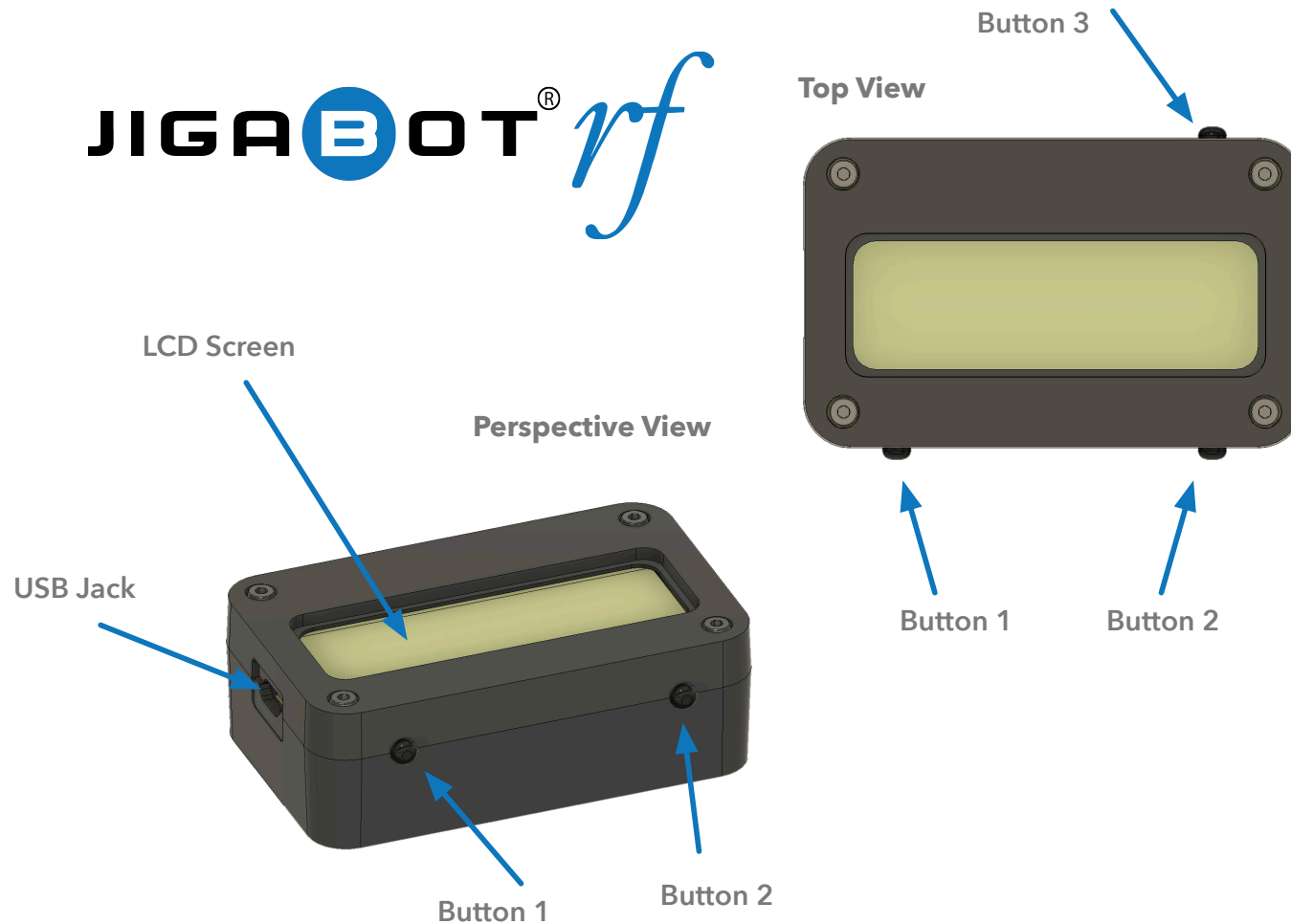Model: JBRF-1

Manual

JIGABOT® *rf*

User's Guide

For use with JBRF-1 products
Revision: 6/26/17

Overview

Jigabot RF is a portable radio designed to locate moving objects, and to output real-time location data in X, Y, and Z coordinates. Jigabot has developed an app that filters, records, and plots this data so that it can be viewed or outputted to other products.

Figure 1 below shows the major parts of the portable Jigabot RF unit.

Four Jigabot RF units are used in Anchor mode to form the perimeter of a "Locating Area." Up to four Jigabot RF units are used in Tag mode, and attached to a moving objects (up to four) within the Locating Area. As the moving objects move, the location is determined in real time, and outputted to the Jigabot App via USB where it can be displayed and otherwise employed.

To form a complete Locating system,

- Four anchors are placed in corners of a Locating Area;
- Each anchor is named either 0, 1, 2, or 3;
- Anchor 0 is connected to a PC running the Jigabot App;
- One or more Tags are attached to moving objects within the Locating Area;
- The precise location of the moving objects are displayed over time within the Jigabot App running within a PC.

Power

To power ON a Jigabot RF unit, press and hold Button 1 until a green LED flashes, and the LCD screen displays "Jigabot RF" along with some additional information.

While, ON, press Button 1 briefly to momentarily see a percentage battery power readout on the LCD.

To power OFF the unit, press and hold Button 1 until a red LED flashes, and the LCD screen goes blank.

Mode Configurations

The Jigabot RF unit is configured via a menu that is controlled by 3 buttons. The menu with 3 sections in normal operation (currently a "Test Menu" mode has been added only for testing only, not for the shipping product):

1. Mode (Anc/Tag Mode);
2. Address (Anc/Tag Address);
3. Serial Number (Show Ser Num).

Exit Mode follows number 3 above.

When ON, press Button 2 to see the first menu item (Anc/Tag Mode). Press Button 2 again to go to the next menu item (Anc/Tag Address). Press Button 2 again to go to the next menu item (Show Ser Num). Press Button 2 again to go to the next menu item (Exit). Press Button 1 at any time to select / enter the menu selection being displayed:

- If in the main menu Button 1 is pressed once while (Anc/Tag Mode) is displayed, (Anchor Mode) will appear. If Button 2 is pressed while (Anchor Mode) is showing, then (Tag Mode) will appear. Button 3 and Button 2 will allow for going up and down between these two options. If Button 1 is pressed while (Anchor Mode) or (Tag Mode) is showing, that same mode will be set (Anchor Mode) or (Tag Mode)—and the menu will return to the top level. If (Return) is showing, one can press Button 1 to return to the top menu level, or press Button 3 to go back to one of the other Modes or selection.
- If Button 1 is pressed twice after entering the main menu, (Anc/Tag Address) will be displayed. Press Button 1 to enter this mode where the device can be numbered from 0 to 3. Press Button 2 to increment the address number, and Button 3 to decrement the address number. Once the desired address number is showing, press the Button 1 to set the number address. Press Button 2 twice more to show Exit. Press Button 1 to exit the mode selection and reboot and return to the main screen.
- If Button 1 is pressed three times after entering the main menu, (Show Ser Num) will be displayed. Press Button 1 to display the serial number of the Jigabot RF unit. When done viewing the serial number, [ress Button 2 to view (Return), and press Button 1 to return to the main menu. Press Button 2 to view (Exit) on the screen. Press Button 1 to exit the menu and return to the main screen.

FCC Notes & Warnings

*Warning: Changes or modifications to this device not expressly approved by **Jigabot, LLC** could void the user's authority to operate the equipment.*

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 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.*
- *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.*

This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment is in direct contact with the body of the user under normal operating conditions. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.