GIMBAL

Gimbal™ U-Series 5 Proximity Beacon

Model 900-0004-000 User Manual

360-0002-000 Revision A

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Revision History

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Contents

Revision History	2
Contents	3
Intended Use What is the Gimbal U-Series 5 Proximity Beacon? Important safety instructions for your Beacon	4 4
Using Your Beacon Unpacking your Beacon Activating your Beacon Powering on your Beacon Verifying Beacon state (Optional) Create, assign and apply a new configuration to your Beacon	5 5 5 6 6
Troubleshooting Tips	8
Regulatory Information Safety and wireless devices Can I minimize my RF exposure? Where can I obtain further information? United States, FCC Information Canada, Industry Canada Information	9 9 9 10 11

Intended Use

What is the Gimbal U-Series 5 Proximity Beacon?

The Gimbal™ U-Series 5 Proximity Beacon (the 'Beacon') is a small, USB-powered device that transmits a Bluetooth Smart/low-energy (BLE) signal that can be detected by other devices (e.g., smartphones or other devices capable of receiving the signal). This signal enables the identification of the Beacon.

The Beacon works by periodically waking up, transmitting this signal via short-range radio (Bluetooth Smart/LE) and then returning to a low-power state. The Beacon has no user interface (UI), cellular or GPS capabilities. The Beacon's identity is encoded within the signal it transmits and includes a sub-segment device type.

Important safety instructions for your Beacon



WARNING - CHOKING HAZARD: Small parts. Not for children under 3 years



CAUTION – Do not connect improperly, charge or dispose of in fire.

Using Your Beacon

Unpacking your Beacon

Each U-Series 5 Beacon is designed for use in any standard, powered USB port. It's advisable to leave your Beacon in its package until ready to use. When ready to use, remove your Beacon from its package.

Activating your Beacon

- To activate your Beacon, you'll need your Beacon's Activation Code/Factory ID.
 It has a format similar to XXXX-XXXXX consisting of numbers and letters and can be found:
 - a. on the exterior label of the Beacon's package ("Activation Code"), or
 - b. on a small label attached to the side surface of the beacon itself
- Once found, visit https://manager.gimbal.com/ on the web and create a Gimbal Developer Account, if necessary
- 3. Login to your account and navigate to 'Beacons' -> 'Activate' (or visit https://manager.gimbal.com/transmitters/new directly)
- 4. Enter a name for your Beacon in the field provided, your Beacon's Activation Code/Factory ID from Step 1 in the 'Factory ID' field, then press the 'Activate Beacon' button. Additional fields that may appear are optional for more advanced users

Your Beacon is now associated with your Gimbal Developer Account and ready for use. Repeat step 4 to activate additional Beacons on your account.

Note: If you've ordered U-Series 5 Beacons in bulk, we can provide you with a shipping manifest that allows for bulk activation of your Beacons in Gimbal Manager. Contact Gimbal Support through Gimbal Manager on the web for further details.

Powering on your Beacon

After removing your Beacon from its packaging, simply plug it into any standard, powered USB port to turn it on. It will take approximately 10 seconds for it to turn on and start transmitting its normal signal.

Using Your Beacon, continued

Verifying Beacon state

To check whether your U-Series 5 Beacon is operating normally, you'll need to use the Gimbal Beacon Manager application from the App Store^{s™} on an iOS® device. Once installed, simply login using the same Gimbal Developer Account (and organization, if configured) you activated your Beacon against. Once logged in, and near your activated, powered Beacon, you'll see it show up within the application.

(Optional) Create, assign and apply a new configuration to your Beacon

Gimbal U-Series 5 Beacons are designed to never need configuration when used in conjunction with the Gimbal SDK as integrated into your mobile application. In fact, more than 95% of our Beacons that have been deployed as of this writing have never been reconfigured. However, should you want to adjust certain settings, you may do so.

Note: presently, an iPhone® 4S or newer is required for this step. Formal support for iPad® and other operating systems may be available in the future.

- 1. Visit https://manager.gimbal.com/ and login with the Gimbal Developer Account (and organization, if configured) you activated your Beacon against
- 2. Navigate to 'Beacon Configurations' and either verify the configuration you want to use is present or create a new Beacon Configuration, as necessary
- 3. Navigate to 'Beacons' and find the Beacon name or ID you wish to configure
- 4. Assign the new configuration to that Beacon by clicking 'Edit', choosing 'Configuration', selecting the desired configuration, and clicking 'Save'. Your desired configuration should now show up in the 'Assigned Configuration' column

Note: At this point, you've created/assigned a configuration to your Beacon in Gimbal Manager on the web but you still need to apply the configuration to your Beacon.

Once your Beacon shows a different 'Assigned Configuration' vs. its 'Applied Configuration' in Gimbal Manager on the web, you're ready to apply the configuration to your Beacon.

- 1. Ensure that the Beacon you wish to apply the configuration to is unplugged
- 2. Launch the Gimbal Beacon Manager on your phone and if you haven't logged in previously, login using the same Gimbal Developer Account (and organization, if configured) you activated your Beacon against
- 3. In the Gimbal Beacon Manager app, choose 'Configure' from the pull down menu
- 4. Power on the Beacon by plugging it into any standard USB port.

- 5. Within a few seconds of plugging it in, Gimbal Beacon Manager will detect the Beacon in its configuration state and connect to it. Note that in order to configure it, you must connect to it with the Gimbal Beacon Manager application within approximately 10 seconds of plugging it in
- 6. Follow the on-screen instructions in the Gimbal Beacon Manager application to apply any firmware and/or configuration updates and once complete, disconnect from the Beacon in the Gimbal Beacon Manager application
- 7. Your Beacon will automatically exit configuration mode and enter its normal operational state

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Troubleshooting Tips

For troubleshooting tips and Frequently Asked Questions, please visit https://manager.gimbal.com/, login with your Gimbal Developer Account and click on 'Support'.

Additional specifications are available online in the Gimbal store at: http://store.gimbal.com/

Regulatory Information

Safety and wireless devices

Scientific research on wireless devices and radio frequency ("RF") energy has been conducted worldwide for many years, and continues. In the United States, the Food and Drug Administration (FDA) and the Federal Communications Commission (FCC) set policies and procedures for wireless devices. The FDA issued a website publication on health issues related to usage of cell phones where it states, "The scientific community at large believes that the weight of the scientific evidence does not show an association between exposure to RF from cell phones and adverse health outcomes." Still, the scientific community does recommend conducting additional research to address gaps in knowledge. That research is being conducted around the world, and the FDA continues to monitor developments in this field. You can access the FDA website at http://www.fda.gov (under "C" in the subject index, select Cell Phones > Research.). You can also contact the FDA toll free at (888) 463-6332 or (888) INFO-FDA. The FCC issued its own website publication stating that "there is no scientific evidence that proves that wireless telephone usage can lead to cancer or other problems, including headaches, dizziness, or memory loss." The publication is available at http://www.fcc.gov/cgb/cellular.html or through the FCC at (888) 225-5322 or (888) CALL-FCC. The National Cancer Institute (NCI) states that concerns about the potential health effects of using cellular phones – "and specifically the suggestion that using a cell phone may increase a person's risk of developing brain cancer – are not supported by a growing body of research on the subject." You can access NCI's review of the research via this cancer.gov article.

Can I minimize my RF exposure?

If you are concerned about RF, there are several simple steps you can take to minimize your RF exposure. You can minimize usage of the device near the body. You can also place more distance between your body and the source of the RF, as the exposure level drops off dramatically with distance. Wireless devices marketed in the United States are required to meet safety requirements regardless of whether they are used against the head or against the body.

Where can I obtain further information?

For further information, see the following additional resources:

U.S. Food and Drug Administration 10903 New Hampshire Avenue Silver Spring, MD 20993 1-888-INFO-FDA (1-888-463-6332) http://www.fda.gov

Regulatory Information, continued

Federal Communications Commission 445 12th Street SW Washington, DC 20554 http://www.fcc.gov/

American National Standards Institute 1899 L Street NW, 11th Floor Washington D.C., 20036 1-202-293-8020 http://www.ansi.org/

United States, FCC Information

The Gimbal U-Series 5 Proximity Beacon has been approved for operation in United States of America by the Federal Communications Commission (FCC).

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

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

The Gimbal U-Series 5 Proximity Beacon has been tested to the limits for a Class B digital device, according to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. The Beacon uses and radiates radio frequency energy and if not installed and used according to instructions, may cause harmful interference to radio communications or be interfered with. There is no guarantee that interference will not occur in a particular installation.

If the Beacon does cause harmful interference to radio or television reception, which can be determined by removing the Beacon from the USB port it is plugged in to, try to correct the interference by taking one or more of the following actions:

- Increase the distance between the Beacon and radio or television receiver, or
- Consult the dealer where you bought your radio/TV or an experienced radio/TV technician

Regulatory Information, continued

If the Beacon is being interfered with try to correct the interference by taking the following actions:

- Make sure that the Beacon is no closer than 10 ft. (3 m) of a wireless access point, microwave oven, or 2.4 GHz cordless phone, and/or
- Increase the distance between the Beacon and any other electronic equipment by moving the Beacon

The FCC ID for the Gimbal U-Series 5 Proximity Beacon (model 900-0004-000) is R6CGUS5.

CAUTION: The Beacon should not be used in airplanes, hospitals, or locations where cellular telephones and other electronic devices are prohibited.

Canada, Industry Canada Information

The Gimbal U-Series 5 Proximity Beacon has been approved for operation in Canada by Industry Canada (IC).

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- 1. This device may not cause interference, and
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The Industry Canada certification number for the Gimbal U-Series 5 Proximity Beacon (model 900-0004-000) is 10756A-GUS5.

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