Bluetooth Low Energy Device User's Guide

The Bluetooth Low Energy (BLE) device is used to trigger the Ion App/iPhone to take photos. The BLE device is the small black box with two ports and an LED light.

Packaging Contents

The following items are included.

BLE Device

USB Power Adapter

USB Cable

Foot-switch

Installing the Bluetooth Low Energy Device

Connect the included 6' micro USB cable to the BLE device and to the USB power adapter port labeled 1A. The LED on the BLE device should illuminate red indicating power. Two small pieces of adhesive Velcro are included as well as cable ties allowing you to secure the Bluetooth device to the place of your choosing.

Included with the Ion accessories is a foot-switch with 10' cable. If you want to use the foot switch, plug it into the remaining port of the BLE device.

For Marco Slit Lamps an optional Joystick Trigger cable may be used. This will be plugged into the remaining port of the BLE device.

For FCC regulatory compliance, it is necessary to install the provided ferrite bead on the foot switch cable as close to the BLE device as possible. Please clip the ferrite bead around the cable, then tightly install a provided cable tie ¼" behind the ferrite bead to keep it from sliding down the cable.

Pairing and Connecting the BLE device

In order to capture images using the Ion Imaging App, the BLE device must be connected and powered on as described above.

The user will launch the Ion Imaging App and the BLE device may automatically connect to the App/iPhone. The user can easily tell if the App has located an Ion Imaging Bluetooth device by looking for the Bluetooth connected symbol in the upper left-hand section of the Ion App as shown.

If the BLE device is not detected by the Ion App, the App will not allow still images to be captured and an error message indicating the Bluetooth device could not be found will be displayed when the user tries to capture an image.

If this indicator is not present, the Bluetooth device could not be located with approximately 25-30 feet of the iPhone. Check the **iPhone Settings** to confirm that Bluetooth connectivity is turned "On". Also, within the "Advanced Settings" panel in the Ion app under the "Setup Bluetooth Device" section, please ensure that the "Enable Legacy Bluetooth Box" option is turned on. Updating the Ion Imaging app will ensure that this option is available.

Capturing an image using the Bluetooth trigger device

After installation and connection to power, the red LED on the box should be illuminated. After launching the Ion app on the iPhone and ensuring that Bluetooth connectivity is turned on, a blue Bluetooth logo should appear at the upper left corner of the screen within the Ion app. A momentary press of the trigger device (Joystick thumb switch or foot switch) should initiate the capture of a still image, and a long-press of the trigger device should initiate the capture of a video (which will cease upon release of the trigger). This Bluetooth device simply relays the state of the trigger switch to the Ion app via Bluetooth Low Energy, and performs no other functions.

Regulatory Compliance Notes:

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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.

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