

## Verifii™ Dosimeter User Guide

Thank you for choosing the Verifii™ Digital Dosimetry Platform to manage your occupational radiation monitoring programs. The following instructions have been prepared to help you achieve optimal results when using the Verifii digital dosimeter.

### Dosimeter Communications

The Verifii digital dosimeter communicates with the Verifii cloud applications via a base station/gateway using Bluetooth Low Energy (BLE) 4.0 communications. The BLE signal typically has a range of 50 feet and the dosimeter should be placed within 50 feet of the base station at least once daily for data transmission.

The Verifii Digital Dosimetry Platform supports a number of devices to be used as a base station including iPads, iPhones and PC's. For information about assigning dosimeters to participants and establishing the Verifii dosimeter's communications with a base station, please see the "Quick Start Base Station User Guide."

The Verifii Digital Dosimeter needs to be within range of a base station to support the following dosimeter modes of operation:

- Initialization
- Assignment
- Unassignment
- Data Transmission
- Software/Firmware Updates

### Initializing the Device

When you receive your dosimeter in the box, it will be in sleep mode. This keeps the device in ultra-low-power mode to optimize shelf life. When you are ready to use the device, you will need to initialize it by pressing the wake up button. The dosimeter LED will flash three times indicating the dosimeter has been successfully activated

### Using the Device

Once the device is initialized and assigned to a participant, it will collect measurements every hour. There is nothing additional you will need to do to use the device. Simply ensure you are within range of a base station (50 feet) at least once per day and wear the dosimeter properly.

While wearing the dosimeter:

1. Your badge should be worn on or near your shirt collar
2. The raised hexagon shape on the dosimeter must be facing out and away from the body
3. Always check the dosimeter label to ensure you're wearing the correct dosimeter

Note: Your dosimeter may generate an error message on the Verifii dashboard if it has been away from the base station for too long, or if the batteries need to be replaced. In these instances, follow the

instructions below to mitigate these issues, or contact LANDAUER Customer Support to assist you with this process.

## Maintenance

The Verifii dosimeter is virtually maintenance-free, aside from cleaning and battery replacement. The following procedures should be followed for badge upkeep.

## Cleaning

The Verifii dosimeter was designed to meet an IP55 Ingress Protection Rating. As such, it can be disinfected by hand-wiping the dosimeter with a number of common disinfecting solvents.

Caution: the dosimeter should never be immersed in any liquid as the dosimeter may be damaged if liquids enter the dosimeter enclosure.

## Changing the Clip/Rear Cover Assembly

In the event that the dosimeter clip isn't working properly, the clip/rear cover assembly can be replaced by:

1. Unscrewing the two clip/rear cover assembly T6 Torx screws
2. Gently pulling the clip/rear cover assembly apart from the dosimeter housing
3. Inserting batteries into the replacement clip/back cover
4. Re-assembling the front and rear cover assemblies
5. Finish by gently tightening the two screws in the back cover assembly

Note: Once power is reset, the LED indicator light will blink once.

## Changing Batteries

Dosimeter batteries will need to be replaced once per year, on average. A system notification is sent when it is time to replace batteries.

To replace batteries, follow the steps given in the above section (Changing Clip). When you have removed the back door of the device, simply take out the existing batteries and insert new ones (the back door includes graphics which indicate proper battery insertion orientation). Ensure the batteries have been pressed down all the way and are snug. This ensures proper battery placement. Lastly, replace the back door.

Note: Once power is reset, the LED indicator light will blink once.

## Using the Wake Up Button

There are several other instances listed below in Table 1 during which you will need to press the wake up button.

**Table 1**

Task	Action	LED Indicator
Initialize	1. Press Wake Up Button	Will flash three times.
Sync Dosimeter (Data Transmission)	1. Press Wake Up Button	Will flash three times.
Dosimeter Assignment	1. Press Wake Up Button 2. Base Station Connects to Dosimeter 3. Dosimeter will become available for assignment on website 4. Assign dosimeter	Will flash five times when successfully assigned.
Dosimeter Unassignment	1. Press Wake Up Button 2. Base Station Connects to Dosimeter 3. Dosimeter will become available for unassignment on website 4. Unassign dosimeter	Will flash five times when successfully unassigned
Power Reset	Back door is removed (clip replacement or battery replacement)	Will flash one time once power is restored.

## You're All Set!

That's it! Your device is now ready for use. Please let us know if there's anything we can do to further assist you. Thanks for choosing LANDAUER.

## FCC Statement of Compliance

Pursuant to FCC 15.21 of the FCC rules, changes not expressly approved by Landauer might cause harmful interference and void the FCC authorization to operate this product.

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 product complies with FCC OET Bulletin 65 exposure limits set forth for an uncontrolled environment

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