Dashr

User Manual

Updated 6-6-18

1. Download our App

Dashr uses a mobile application to control the laser modules and display testing times. The free **Dashr-Sprint** Wireless Timing App can be downloaded from both the Google Play Store and the Apple App Store.

NOTE: It is suggested that when using the Dashr App you put your phone in airplane mode to limit interruptions from phone calls and notifications from other apps. It is also required that your phone has Bluetooth® turned on to connect to the laser modules.

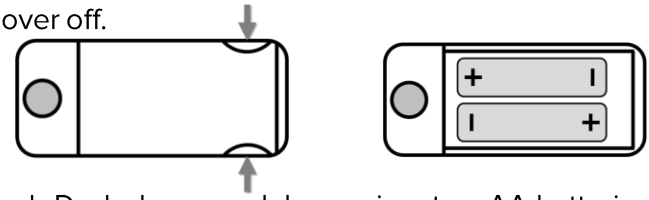
2. Install/Open App

Make sure that your device is properly charged before using the Dashr system.

Open the Dashr-Sprint App on your mobile device and log into your Dashr account. If you do not have an account, you can make one now.

3. Install batteries in lasers

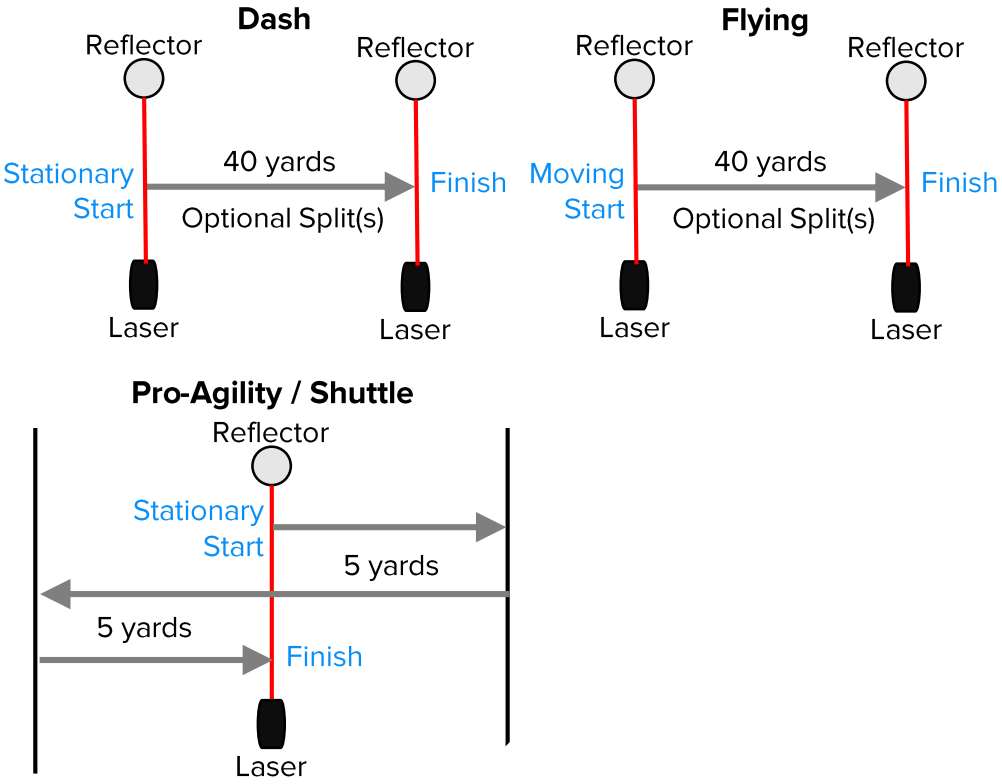
BATTERY COMPARTMENT: The bottom of the laser module has a battery cover that snaps in and out. To remove the cover, gently squeeze the battery cover on the laser side of the module. This will release the clips and allow you to pull to cover off.



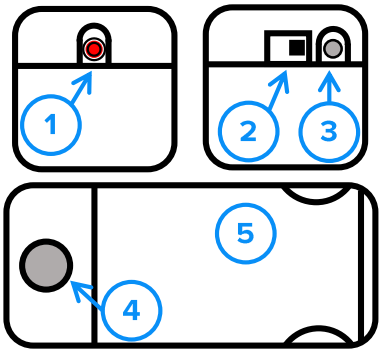
BATTERIES: Each Dashr laser module requires two AA batteries. Make sure you put the batteries in correctly and have the silk ribbon under the batteries for removal. Look for the + sign in the battery compartment to properly align your battery. Failing to put the batteries in correctly may damage the laser.

BATTERY INDICATOR: When the laser module is first turned on the LED will be green, yellow, or red. **GREEN** indicates a good, fresh battery. **YELLOW** indicates the battery voltage is getting low. **RED** means that you should change the batteries. The Dashr laser modules are a low power electronic device. **Always store the system in a climate controlled environment and do not get the modules wet.** Failure to do so may cause device malfunction.

4. Select an event in the app



5. Connect the lasers (See T4.1)



1. Laser diode
2. On/Off switch
3. LED indicator light. **GREEN** indicates that the laser gate is not broken, **RED** indicates that the laser gate is broken.
4. ¼-20 female thread
5. Battery cover

6. Align laser and reflector tripods

LASER MODULE: Use the ¼-20 female threads on the laser modules to attach to a mini or regular sized tripod.

REFLECTOR: Use the ¼-20 female threads on the laser modules to attach to a mini or regular sized tripod.

NOTE: WHEN OPERATING OUTDOORS ORIENT THE LASER TOWARDS THE SUN SO THAT THE USER PASSES BETWEEN THE LIGHT AND THE LASER WHEN RUNNING THE EVENT. External light may prevent the system from functioning properly.

7. Perform trial run to verify setup

Turn on the laser module just after you press the ⚡ on the Dashr App within your selected event (navigate to the help button, top right of the page, for further clarification). Orient the laser at the reflector and wait 20 sec for the laser to calibrate to the environment. If the light on the back of the laser is **GREEN** then the laser gate is setup. When the gate is broken (something blocking the laser) the light will be **RED**.

Do not attempt to connect more than one device to a laser. Doing so may interfere with signal transfer and compromise the system's accuracy.

Laser and reflector should not be set-up more than 10 feet apart.

The smartphone should be stationed somewhere between the lasers if performing a multi-laser event or within 10 feet of the laser when a single laser event. Not doing so may result in invalid timing.

Follow in-app instructions for connecting the laser to the app. Turn on the laser and quickly press the lightning bolt on the app. If the laser does not connect within 5-6 sec, repeat the procedure.

8. Begin testing

The full user manual is located on our website at **www.dashrsystems.com**. Visit us online to learn more ways to make testing easier and more efficient.

FCC ID: R20170224, IC: 2015DJ2435
Contains FCC ID: SH6MDBT40
Compliant with
(1) USA, FCC Part 15.209
(2) Canada, RSS-Gen, Issue 4
(3) Japan: VCCI, V-3
(4) AS/NZS CISPR 32:2015

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

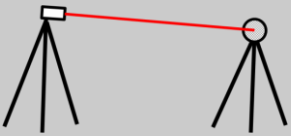
This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux flux RSS exempts de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas causer d'interférence, et (2) cet appareil doit accepter toute interférence, y compris les interférences susceptibles de Provoquer un fonctionnement indésirable de l'appareil."

Simplify Testing Day

www.dashrsystems.com
Email: info@dashrsystems.com
Phone: 844.44.DASHR

Quick Troubleshooting Guide

Symptom	Actions
T1: Laser is not tripping on the module (Red/Green Light on module)	**T1.1** - If you are testing in the sun, make sure that the laser is oriented towards the sun so that the laser hits the shaded side of the athlete. **T1.2** - Turn the laser on next to reflector (while pointing the laser at the reflector) and slowly back up, up to 10 feet. **T1.3** - Orient the laser downward at the reflector.  **T1.4** - Change the batteries.
T2: Laser trip is not registering in the Dashr App.	**T2.1** - Make sure that you are positioned between the START and STOP laser. Being 40+ yards away from the timing gate may result in occasionally missing a laser trip. See T5. **T2.2** - When in doubt, restart Bluetooth on the phone, restart the Dashr App, and re-connect the lasers.
T3: Laser is tripping for most but not all athletes.	**T3.1** - Reflective clothing, such as white baseball pants, can cause difficulties. Reposition the lasers to sense the athlete on their chest where possible.
T4: Laser is not connecting to the mobile device.	**T4.1** - Press the " ⚡ " button then QUICKLY turn on the laser. **T4.2** - Restart Bluetooth on the phone, restart the Dashr App, and re-connect the lasers.
T5: Laser is not responding at distance.	**T5.1** – Dashr 2.0 hardware is tested to work reliably at 40 yards. For distances beyond that (we suggest no more than 60 yards), removing the phone case, placing the phone on a tripod, and reducing the number of other Bluetooth devices in the area have been shown to improve success rates at longer distances.