Bontrager
RIDEtime Elite Computer plus Duo Trap S Sensor

www.bontrager.com

PN 580968

About this product

⚠ WARNING

When riding your bicycle, do not stare at the computer for a long time. If you do not watch the road, you could hit an obstacle which might cause you to lose control, fall and injure yourself.

IMPORTANT: To use the RIDEtime Elite computer, you must have an ANT+ compatible speed, cadence or power sensor mounted on your bicycle.

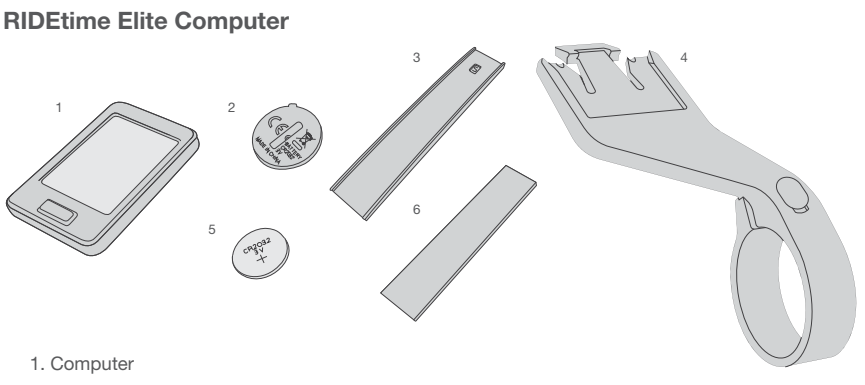
Compatible sensors:

- Bontrager DuoTrap – PN 508126
- Bontrager DuoTrap S – PN 437960
- Bontrager Interchange Combo – PN 438482
- Bontrager ANT+/BLE Softstrap Heart Rate Belt Kit – PN 519606
- Another ANT+ compatible sensor

To set up any other sensor, please refer to the manual that came with your sensor.

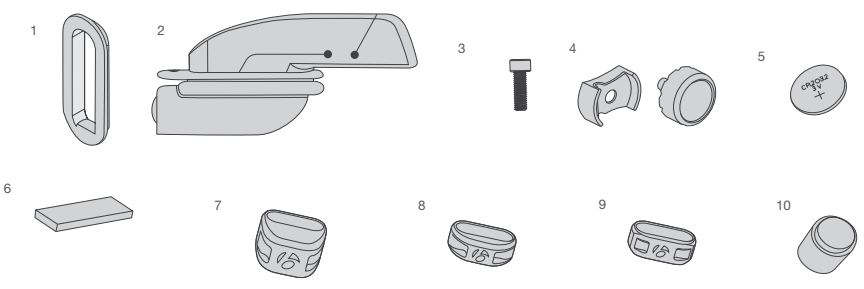
Parts list

RIDEtime Elite Computer



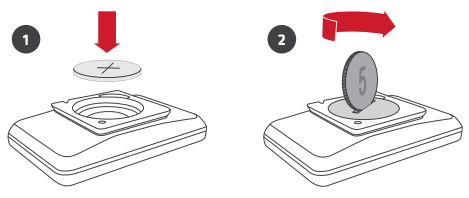
1. Computer
2. Battery cover
3. 31.8 mm handlebar shim
4. Out front mount
5. CR2032 battery
6. 22.2, 25.4 and 26.0 mm handlebar shim

DuoTrap S

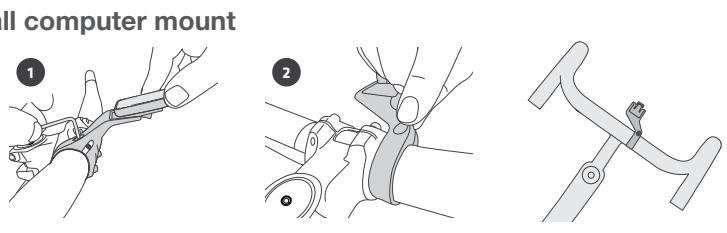


1. Gasket (alloy bikes)
2. Sensor with grommet and 2 mm spacer installed (carbon bikes)
3. 8 mm bike mounting screw
4. Speed magnet (wheel)
5. CR2032 battery
6. Cadence band shim
7. Large cadence band (crank) (26 mm) W519998
8. Small cadence band with magnet (crank) (9 mm) W519999
9. Xsmall cadence band with magnet (crank) (4 mm) W534154
10. Plug (large cadence band)

Install battery



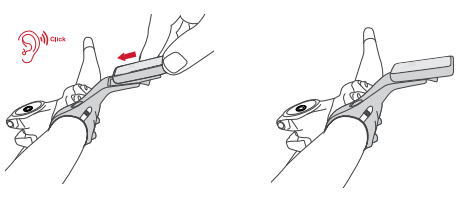
Install computer mount



1. Shim use: Determine the diameter of your handlebar.
   - Use the thin shim with a 31.8 mm handlebar.
   - Use the thick shim with a 25.4 or 26.0 mm handlebar.
   - Don't use shims with a 35 mm handlebar.
   - Use both shims with a 22.2 mm handlebar.
2. Remove the rubber cover over the mounting clamp bolt.
3. Use a 2.5 mm Allen key to torque the bolt to 0.8 N-m (7 in-lb).
4. Replace the rubber cover over the clamp bolt.

NOTE: The mount is not to be used with a mobile phone.

Mount computer



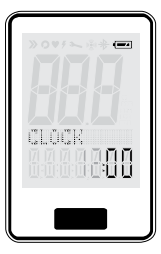
Understanding the instructions

Button location	Quick press	Multi press	Long press (2 seconds)
Front	▲	▲	▲
Rear	▶		▶

A The letters indicate the order in which to push the buttons.

▲ More than one arrow means that you should push the button until you see the value you want.

▲ Press and hold until next digit flashes to switch to the next digit or field.



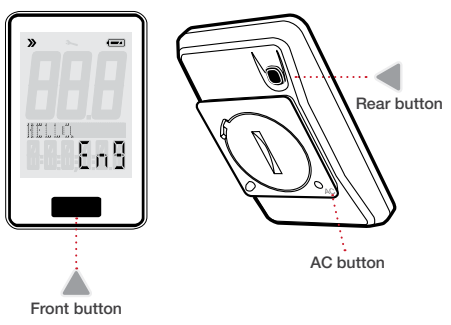
Selection note:

Grey colour represents flashing characters that show the selected value.

Shows the number of digits to be set.

Screen icon	Description
	Speed sensor is connected. Flashing if searching for sensor.
	Cadence sensor is connected. Flashing if searching.
	Heart rate monitor is connected. Flashing if searching.
	Power meter is connected. Flashing if searching.
	A service interval has been reached. Flashing is a prompt to clear.
	Transmitter signal when connected to compatible lights. Flashing if searching.'
	Battery life is sufficient. Replacement when only 1/3 indicated.

Enter and exit set-up modes



Rear button

- Press the rear button once to enter Primary set-up.
- Press and hold the rear button 5 seconds to enter Pairing and Advanced set-up.
- Press the rear button for 5 seconds to exit either set-up mode.
- In Ride mode you can press the rear button for 5 seconds to return you to the beginning of the Primary set-up without changing any previously entered settings.

NOTE: Do not use the rear button while riding. It will restart set-up mode.

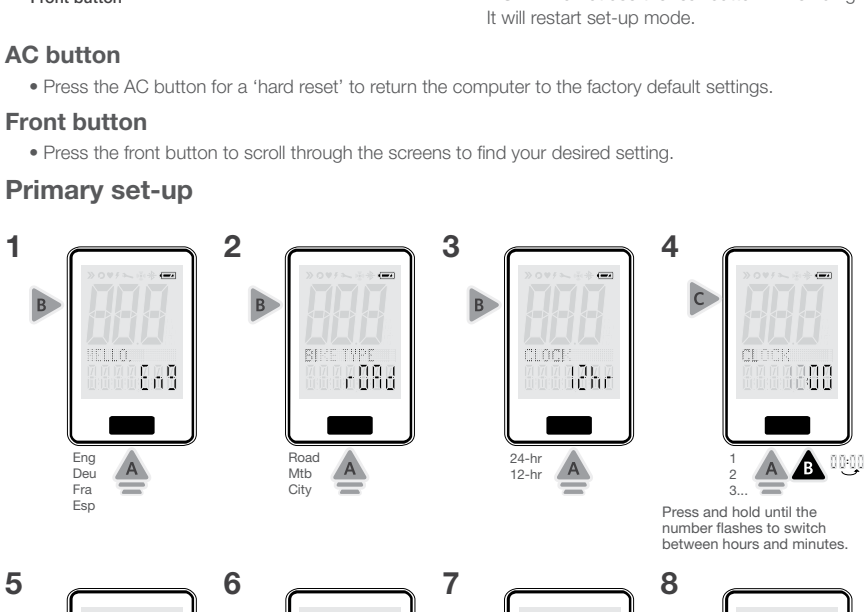
AC button

- Press the AC button for a 'hard reset' to return the computer to the factory default settings.

Front button

- Press the front button to scroll through the screens to find your desired setting.

Primary set-up

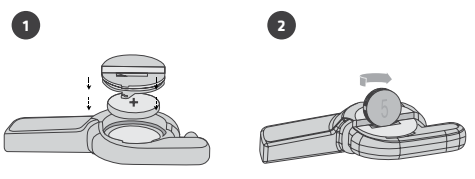


NOTE: Custom wheel size is the circumference of the wheel in mm. See the wheel size chart.

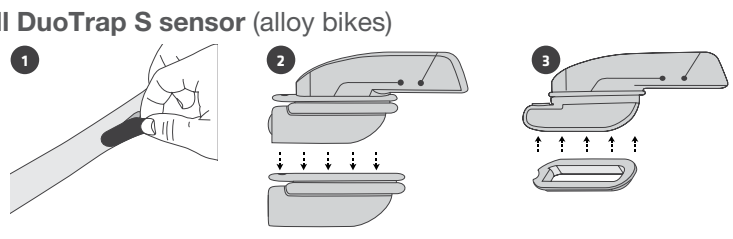
Road		Mountain		Town/City	
Size	Code	Size	Code	Size	Code
700:23*	2,124	29:2.2*	2,340	700:28*	2,164
700:25	2,136	29:2.3 (2.35)	2,359	700:32	2,190
700:28	2,164	29:3.0	2,413	700:35	2,209
700:32	2,190	27.5:2.2	2,221	700:38	2,227
700:35	2,209	27.5:2.4	2,253	700:40	2,240
700:38	2,227	27.5:2.8	2,309	700:42	2,253
700:40	2,240	27.5:3.8	2,400	700:45	2,271
700:42	2,253	27.5:4.5	2,485	26:2.0	2,117
700:45	2,271	26:2.0	2,117	26:2.2	2,148
Custom	001-2,999	26:2.2	2,148	Custom	01-2,999
		26:3.8	2,322		
		26:4.7	2,403		
		Custom	01-2,999		

*Default

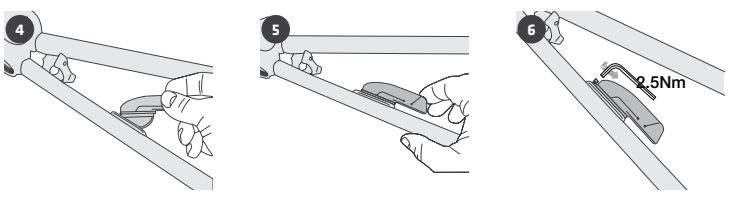
Install battery



Install DuoTrap S sensor (alloy bikes)

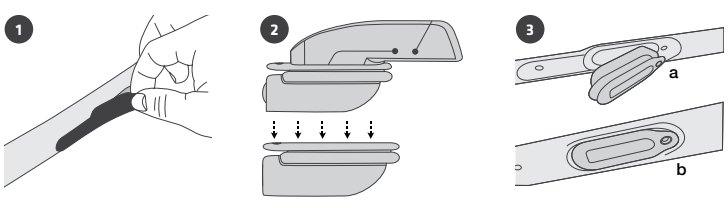


1. Remove the DuoTrap S cover from the chainstay.
2. Remove the grommet from the sensor.
3. Install the gasket onto the sensor with the notch facing forwards, as shown.

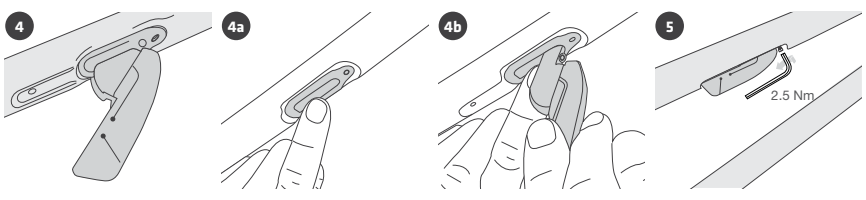


4. Install the sensor and gasket into the chainstay.
5. Hold the sensor in place and install the 8 mm screw.
6. Use a 2.5 mm Allen key to tighten the sensor.

Install DuoTrap S sensor (carbon bikes)



1. Remove the DuoTrap S cover from the chainstay.
2. Remove the grommet from the sensor.
3. Fully insert the grommet into the chainstay. Make sure the grommet is flush with the chainstay.



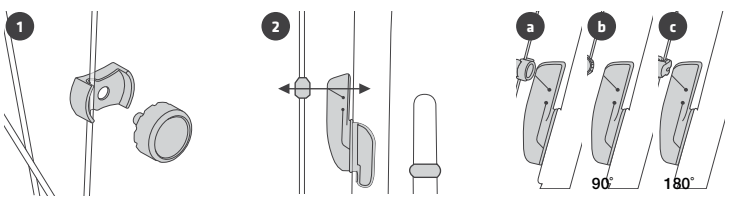
4. Install the sensor into the grommet in the chainstay.

HINT: Hold the grommet in place with one hand and insert the sensor with the other hand, as shown.

5. Hold the sensor in place and use a 2.5 mm Allen key to install and tighten the 8 mm screw.

NOTE: Make sure that the 2 mm spacer is installed in the grommet before you tighten the screw.

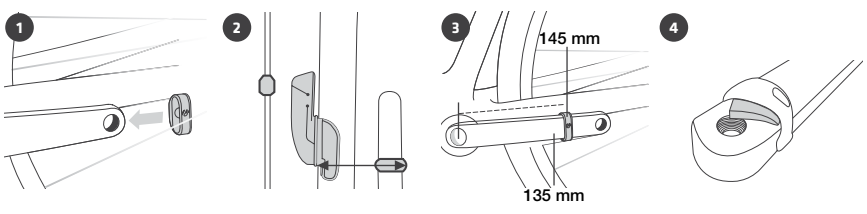
Mount speed magnet



1. Tighten the speed magnet on a spoke
2. Align the speed magnet with the marking on the sensor.
3. If necessary, rotate the magnet 90° or 180° to achieve sensor clearance.
4. **Rotate the wheel and look for a red LED in the sensor to verify that the magnet and sensor are in alignment.**

NOTE: The LED will only illuminate for the first 10 revolutions.

Install the small cadence magnet

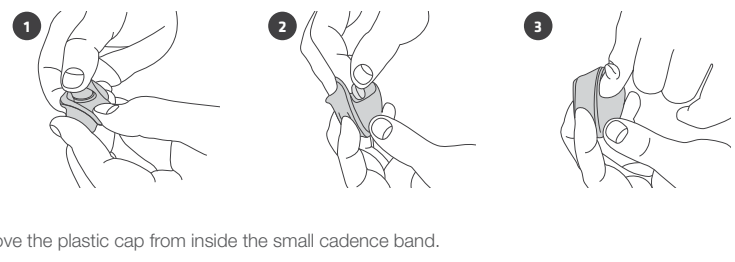


1. Remove the non-driveside pedal and install the small cadence magnet on the crank arm with the thick side nearest to the chainstay.
2. Align the magnet with the sensor.
   - Alloy bikes: Align the magnet with the line on the sensor.
   - Carbon bikes: Place the magnet 135 mm or 145 mm from the centre of the bottom bracket to the centre of the magnet
3. Rotate the crank backwards. Look for the green LED on the cadence sensor to verify that the magnet is correctly aligned.

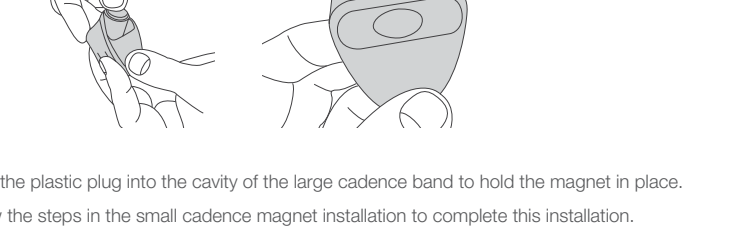
NOTE: The LED will only illuminate for the first 10 revolutions.

4. Optional: If the magnet is aligned but the LED does not illuminate, place a cadence band shim underneath the appropriate magnet.
5. If the small band does not fit between the crank and the chainstay, use the XS (4 mm) cadence band provided.

Install large cadence magnet



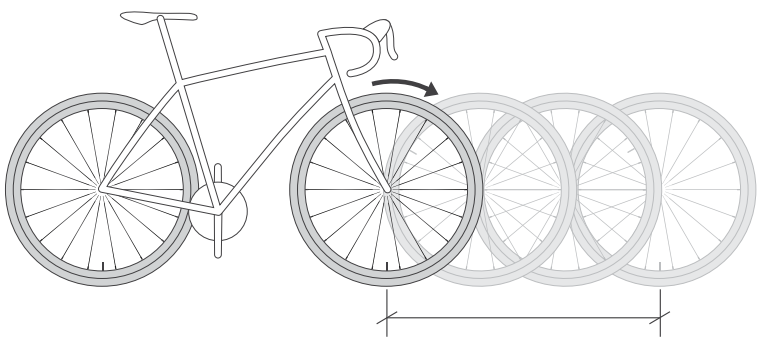
1. Remove the plastic cap from inside the small cadence band.
2. Remove the magnet from inside the small cadence band.
3. Insert the magnet fully inside the large cadence band so it is flush against the inside of the cavity.



4. Insert the plastic plug into the cavity of the large cadence band to hold the magnet in place.
5. Follow the steps in the small cadence magnet installation to complete this installation.

Measure your wheel size

1. With the valve stem of the wheel directly over the floor, mark the floor at the valve stem.
2. Roll the bike forward one revolution of the wheel so that the valve stem is again directly over the floor.
3. Mark the new location of the valve stem.
4. Measure the distance between the marks. Measurements in mm are required.



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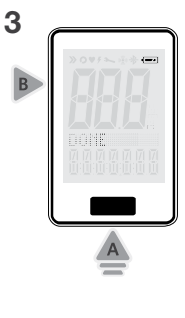


NOTE: If you have no paired sensors, you'll be taken to Pairing and Advanced set-up upon completion of Primary set-up.

NOTE: When Auto Clear is set, the number represents the amount of inactive time before the last ride's data is cleared.

Pairing and Advanced set-up

Pairing

1

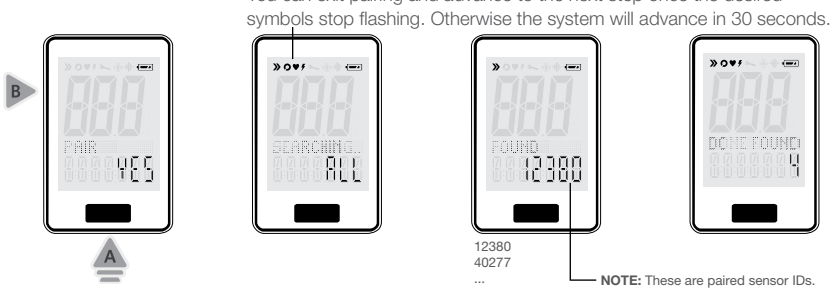
2

NOTES:

1. If you select ALL, the computer will look to pair all nearby devices. If you want to look for a specific type of sensor (speed, cadence, heart rate or power) then select that choice.
2. If you want to pair more than one sensor but not all, pair one sensor at a time. Repeat the procedure for each sensor.
3. To exit and advance to the Pair lights step, press the rear button.

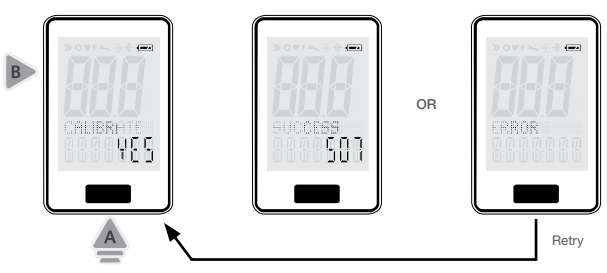
3

NOTE: Symbols flash during search and become steady once found. You can exit pairing and advance to the next step once the desired symbols stop flashing. Otherwise the system will advance in 30 seconds.



Power meter calibration (if a power meter sensor is not paired, the computer will advance to Step 5.)

4



Follow the power meter guidelines to calibrate your power meter for the most accurate reading.

Pair lights

5

Enable lights (if lights are not paired, the computer will advance to Step 6.)

1. If Pair Lights is enabled (YES), the computer will enter search mode, and the transmitter icon ((•)) will flash. Hold the computer close to the desired light to be paired.
2. If a light is detected:
   - The computer will display FOUND.
   - The light sensor ID and the transmitter icon will display for 2.5 seconds.
   - The light turns on for 2.5 seconds, then turns off.
3. The unit will continue to search for up to three lights. To exit the search, press the rear button.

NOTE: If you accidentally pair a light, press the AC button to delete all lights. Then pair to only the lights desired.

6

NOTES:

If Auto Lights is enabled (YES):

1. The computer will turn your paired light(s) on when speed is detected above 3 mph.
2. The lights will remain on until speed drops below 1 mph for longer than 3 minutes.
3. The computer will not override:
   - Manual input to the lights.
   - Input from a light pairing with another computer or a remote control.

If Auto Lights is disabled (NO):

4. The paired light(s) will remain stored as saved connections.
5. The computer does not try to form a connection with the lights.

There are three occurrences when a command is sent to the lights to change their settings:

- Turn ON when speed above 3 mph is detected.
- Turn OFF when speed below 1 mph is detected for longer than 3 minutes.
- Change mode when Night mode state is changed.

Light setting

NOTES:

1. The computer should turn the lights ON to the appropriate mode based on whether Night Mode is enabled or disabled.
2. See light mode table in Night mode section.
3. In ride mode, if the battery level of a connected light reaches critically low, the transmitter icon will flash and the display will flash LOW BATTERY LIGHTS.

Low battery detection

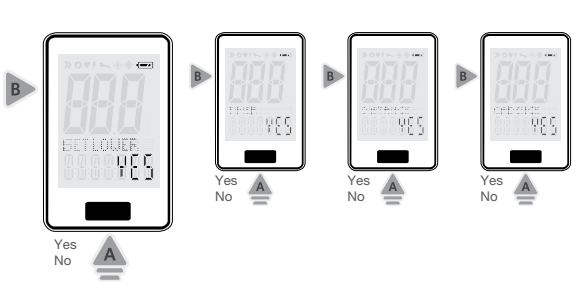
In ride mode, if the battery level reaches critically low:

- The transmitter icon will flash and the display will show LOW BATTERY LIGHTS for 2.5 seconds.
- This message will be repeated every 30 seconds.

Display

7

8



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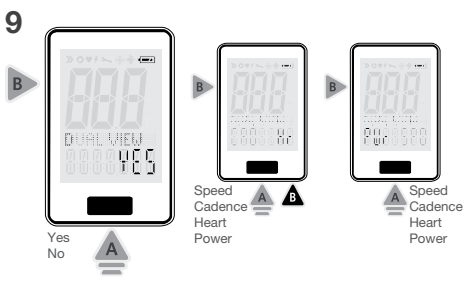
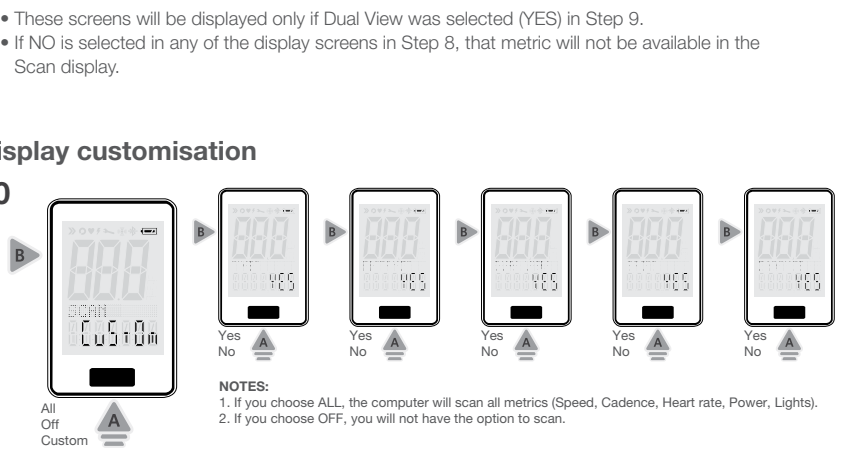


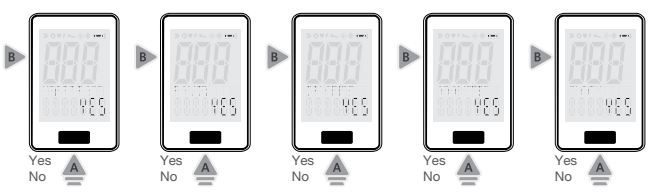
NOTES:

- These screens will be displayed only if Dual View was selected (YES) in Step 9.
- If NO is selected in any of the display screens in Step 8, that metric will not be available in the Scan display.

Display customisation

10





NOTE: Sensors disabled during Step 10 will not show either the instantaneous screen or the AVG/MAX screen.

11

Ride mode

To wake the computer: Push any button or spin the wheel.

The default Ride mode is shown with all sensors connected, and Speed is selected as the primary metric.

Sensors that are not connected or that are disabled will not be displayed and will be skipped.

The computer will turn off after 10 minutes of inactivity.

NOTE: If you do not have a speed sensor, the timer will still run if you have a cadence sensor or power meter.

To reset the timer, hold down the front button for 5 seconds from any Ride mode screen.


Distance


Dual View (only if Dual View is on)


Avg Max (speed)


Cadence


Avg Max (cadence)


Heart Rate


Avg Max (heart rate)


Power


Avg Max (power)


Calories


Odometer


Clock


Scan (if enabled)


If the spanner icon is displayed, advance to this screen, otherwise return to Ride mode.

No
Yes

Press the front button for 5 seconds to prompt the clear data question.


Back to Ride mode

Yes
No

Night mode

Press the front button for 10 seconds to prompt the Night mode OFF/ON question.

- Night mode will enable the backlight.
- In Night mode, the first button press activates the backlight for 5 seconds and does not advance the carousel.
- Each additional press extends the backlight for 5 seconds, and advances the carousel.
- When Night mode is OFF, the backlight is disabled.
- If lights are connected, Night Mode setting will determine Light Mode.

When paired with Bontrager lights, the following table shows what mode the lights are in:

	Night Mode ON	Night Mode OFF
Headlight	Medium steady	Day flash
Rear light	Night flash	Day flash

Trek Bicycle Corporation

Contact information:

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Statements of regulatory compliance

FCC Compliance

RIDEtime Elite Computer – FCC ID: O4GRTELITE
IC: 7666A-RTELITE

DuoTrap S – FCC ID: O4GDUOTRAPS
IC: 7666A-DUOTRAPS

These devices comply with part 15 of the FCC Rules.

Operation is subject to the following 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.

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 experienced radio/TV technician for help.

NOTES: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORISED MODIFICATIONS TO THIS EQUIPMENT. ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER OF THIS DEVICE COULD VOID THE USER'S AUTHORITY TO OPERATE THE DEVICE.

Industry Canada Compliance

This device complies with Industry Canada licence-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.

This Bontrager equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. The radiated output power of the Transmitr Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Status of the listing in the Industry Canada's REL (Radio Equipment List) can be found at the following web address: http://www.ic.gc.ca/app/sitt/reltel/srch/nwRdSrch.do?lang=eng

Additional Canadian information on RF exposure also can be found at the following web address: http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html

European Union Compliance

Trek Bicycle Corporation and Bontrager hereby declare that the wireless devices identified as RIDEtime Elite Computer and Duotrap S Sensor are in compliance with the following European Directives:

- RED 2014/53/EU
- EMCD 2014/30/EU
- LVD 2014/35/EU
- RoSH Directive 2011/65/EU

The full text of the EU declaration of conformity is available from your bike shop, or at the following Internet address: http://www.bontrager.com/support