

trimmOne & trimmOne LITE User Manual



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trimmOne & trimmOne LITE User Manual

Caution

Please refer to the user manual for precautions and information on the product.
Specifications are subject to change without notice for performance improvement.

Video guide

The link below is the video guide page.



<https://trimm.bike/ko/support/guide>

Components

If any items are missing, please contact the store you purchased.

- Main unit
- Magnetic charging cable
- Mount and mounting bands
- (Optional) Solar charger and mounting rubber bands
- (Optional) Solar speed sensor and mounting rubber bands

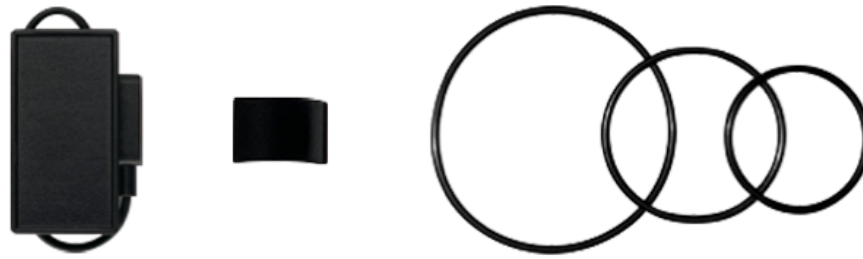
Base components



- ① Main unit*
- ② Magnetic charging cable
- ③ Mount (including screws and rubbers)

* Shape and color may vary depending on the purchased model.

Solar charger (optional)



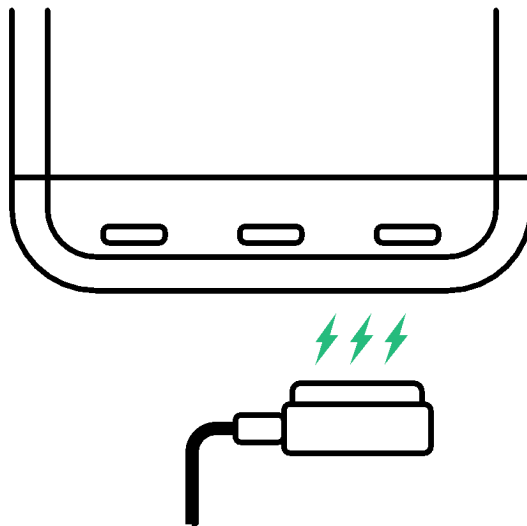
Solar charger and mounting rubber bands

Solar speed sensor (optional)



Solar speed sensor and mounting rubber bands

Charge



- This product has a magnetic charging cable to improve waterproof performance and convenience.
 - Magnets are used to connect the cable so that the charging cable does not come loose.
 - When riding with a solar charger connected, it cushions impact to prevent the cable from being disconnected.
- In case of contact with water, wipe the charging piece and dry it completely before use. Any moisture remaining on the cable may cause corrosion.

- This product uses a lithium-ion battery. Excessive impact or bending may damage the battery, causing fire.

Mounting

Mounting the mount

1. Prepare the mount and rubber bands.



2. Select an appropriate size rubber band and place it on the handle.



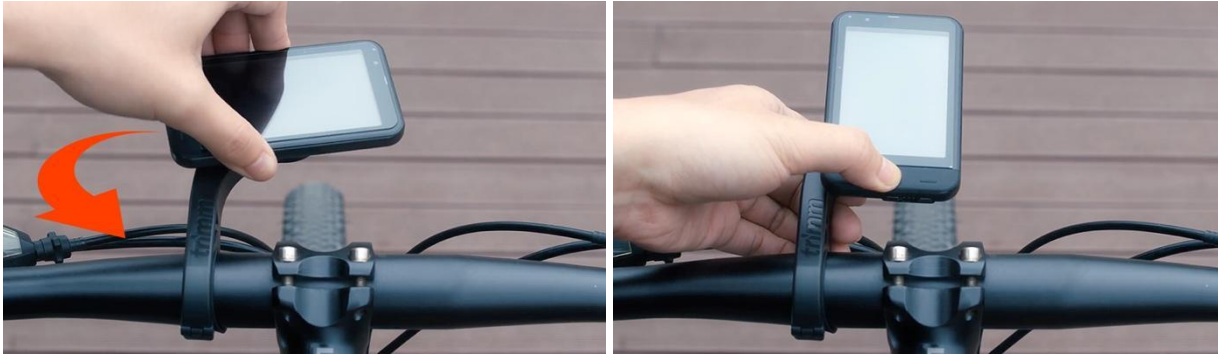
3. After fitting the mount to the groove of the rubber band, use a 2.5mm screw and a hexagon wrench to tighten the mount.



4. Check if the mount is properly tightened.

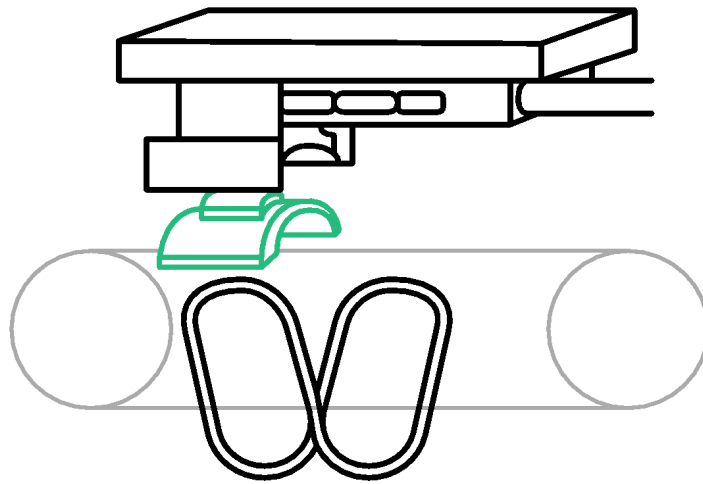


5. After inserting the device into the mount horizontally, turn it 90 degrees to affix it.



Mounting the solar charger

trimmOne is the first in the world to utilize a solar charger, so you don't have to worry about battery drain.



1. After inserting the rubber holder into the solar charger, place it on the stem.



2. Select an appropriate size rubber ring and hang it to the hooks on both sides of the solar charger.

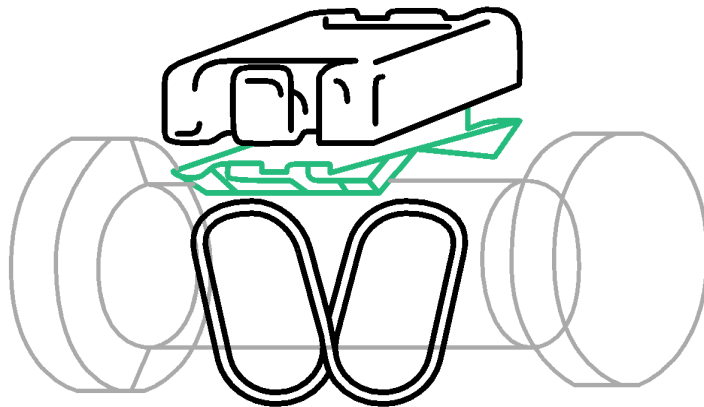


3. Connect the solar charger charging cable to the device.



Solar speed sensor mounting

The solar speed sensor is charged by sunlight while riding, so there is no need to charge the battery. Those who enjoy indoor riding or night riding, please expose the sensor to the sun at least once every 1~2 weeks.



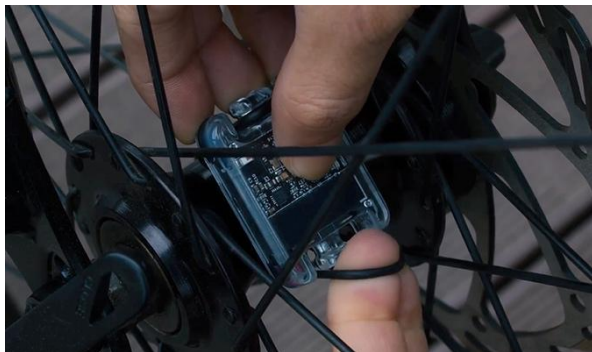
1. Place the rubber holder on the back of the speed sensor.



2. Hang an appropriate size rubber ring on the hook on one side of the speed sensor and place it at the wheel hub. The sensor may tilt when mounted on an asymmetric hub, but this will not affect its function.



3. With the rubber holder in contact with the wheel hub, attach the rubber ring on the opposite side to affix it.



Pairing

Download the trimm Cycling Center app

Search and download 'trimm Cycling Center' in the App Store or Google Play Store.
Simply scan the QR code below to go to the app download page.



<https://trimm.bike/app>

Device connection

1. Start the trimm Cycling Center app.
2. Tap the device pairing icon  in the lower right corner.



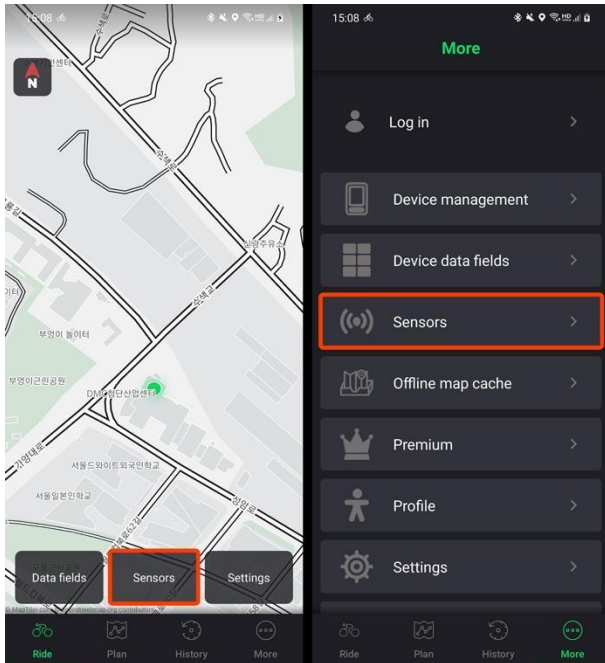
3. Tap the left and right buttons on the device at the same time.
4. After verifying the numbers of the device and the app are the same, confirm the Bluetooth connection.



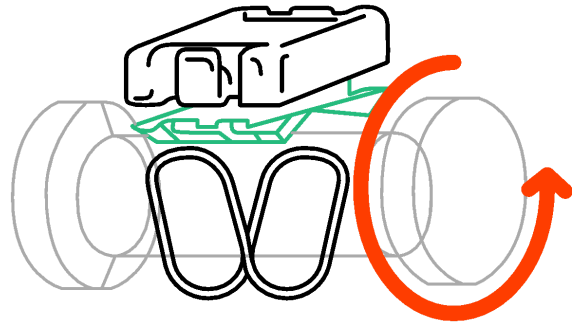
Speed sensor connection

1. Connect the device and the app.

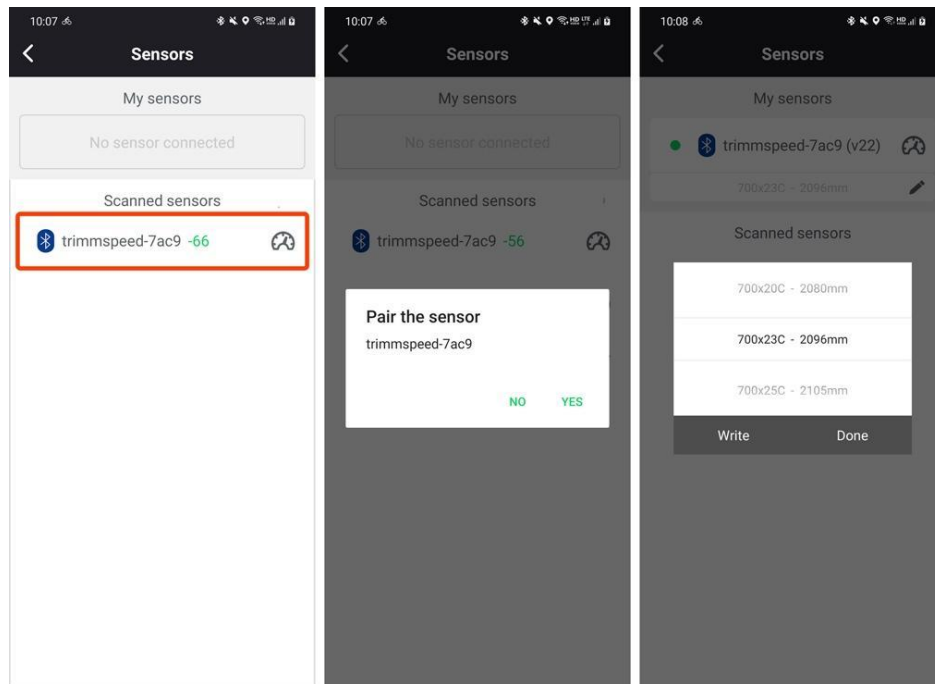
2. Tap the **Sensors** button at the bottom or the **More ▶ Sensors** button.



3. Turn it so the speed sensor starts working. The sensor is also detected when rolling a wheel equipped with a sensor.










4. Click the scanned sensor to connect and select the wheel size.
The wheel size is marked on the side of the tire. If the wheel size you want is not available, please enter it yourself.



5. When the sensor is connected, the speed sensor icon  will be displayed on the status bar at the top of the device.

Compatible sensors

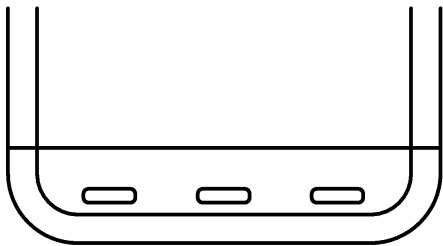
All Bluetooth and ANT+ sensors using standard protocols are compatible with this product.
If you have an incompatible sensor, please contact customer center.




Pairing method		Sensor type	
 Bluetooth		Speed sensor	
		Cadence sensor	
		Heart rate sensor	
 ANT+		Power meter	
		Electric drivetrain (SHIMANO Di2, SRAM eTAP, etc.)	

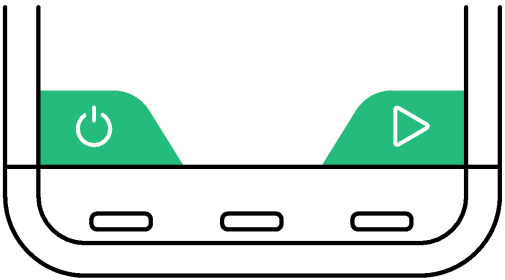
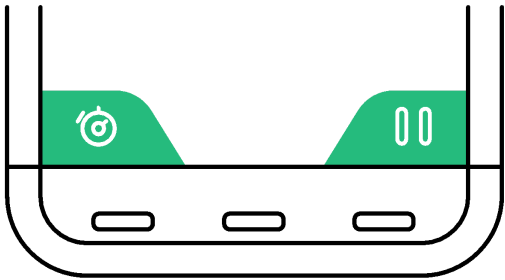
Device description

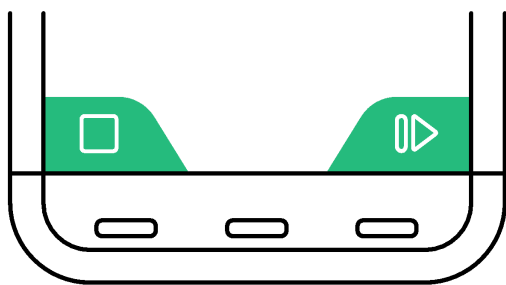
Button function

Refer to the icons displayed on the screen while using the device.

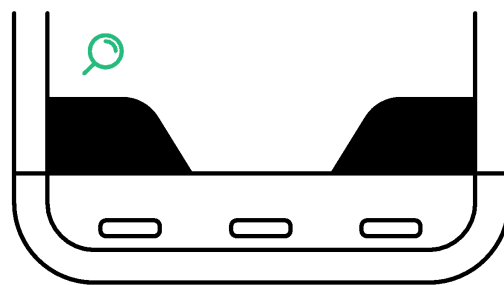


Power on		Center button
App pairing		Left button + right button
Reboot		Hold left button + center button at the same time for 10 seconds

Before riding			During riding		
					
Left button	Center button	Right button	Left button	Center button	Right button
Power off	Next screen	Start recording	Lap recording	Next screen	Pause
Pause			Map		



Left button	Center button	Right button
Stop recording	Next screen	Resume recording




**Left button
(long press)**


Map zoom in/out

Precautions before riding

Satellite signal detection

- When turning on, it takes about 1 minute to detect satellite signals.
- When GPS is detected, the GPS icon  is displayed in the status bar at the top of the device.
- **If GPS is not connected, the route will not be recorded.**
- GPS data is automatically updated when paired with a mobile phone for fast GPS connection.

Start ride recording






- Be sure to tap the start button  before riding.
- **If you do not tap the start button, your ride will not be recorded.**






Precautions after riding

Synchronization of ride recording

- After riding, sync your records with your smartphone.
- **Unsynchronized records are compressed and saved for the next ride.**
- You can check and share your riding records in the trimm Cycling Center app.

Status icon

Icon	Description
	Backlight on
	Electric drivetrain (Di2, e-Tap, etc.) connected
	Solar charging
	GPS connected
	Indoor riding mode

Icon	Description
	Power meter connected
	Heart rate sensor connected
	Speed sensor connected
	Smartphone connected
	Not in charging

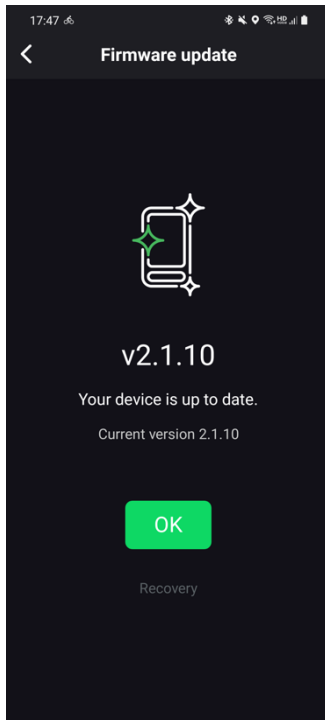


Cadence sensor connected



Charging via USB or solar power

Firmware update



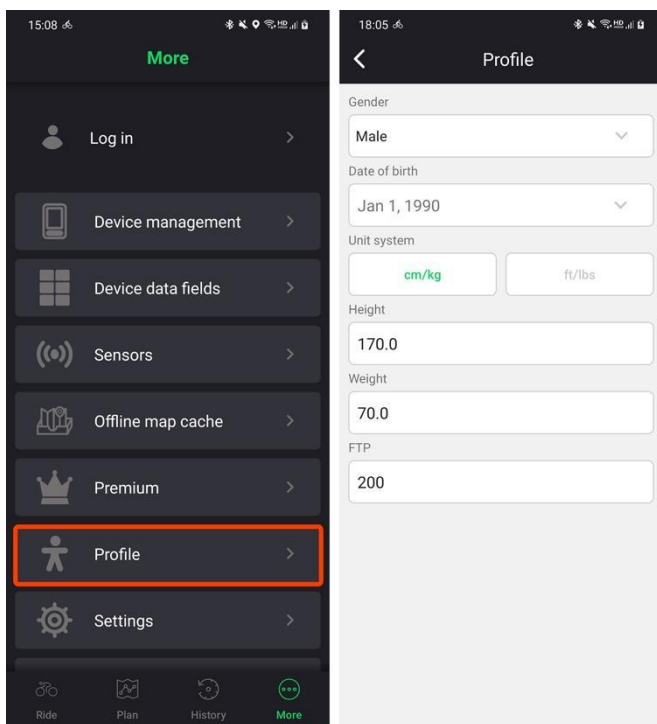
This product periodically releases new firmware with new functions or bug fixes.

- There is no need to download a separate program or connect to a PC for firmware update.
- The trimm Cycling Center app automatically checks for new firmware and updates.
- Firmware update takes only about 2 minutes.

Settings

You can easily switch settings in the trimm Cycling Center app.

Profile settings

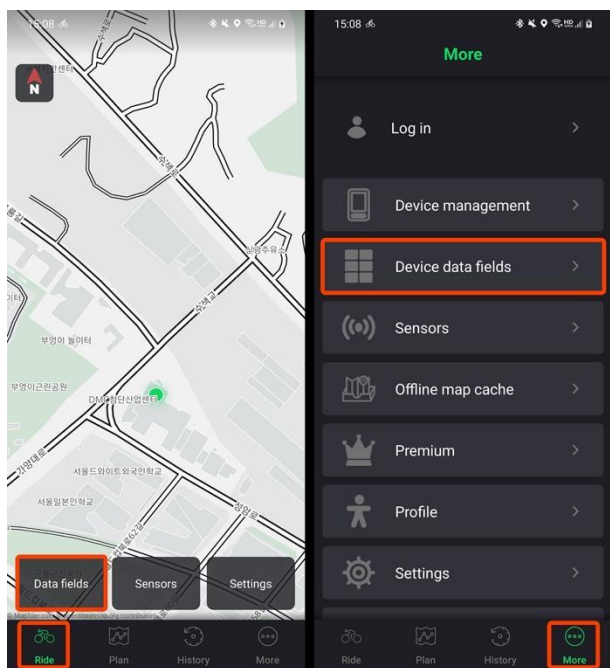


Bottom of the app **More ▶ Profile**

Enter user information and customized calorie and power analysis is provided.

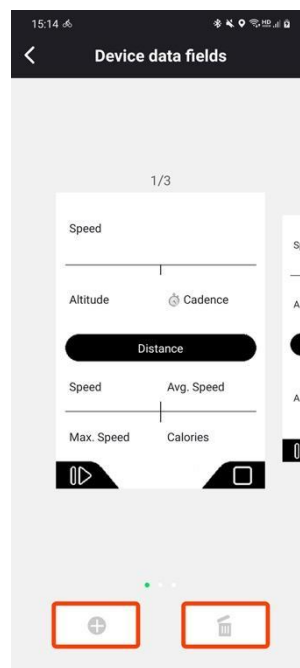
Data field settings

1. Connect your device and the app.
2. Tap **Data fields** in the lower left corner or **More ▶ Tap Device data fields**.

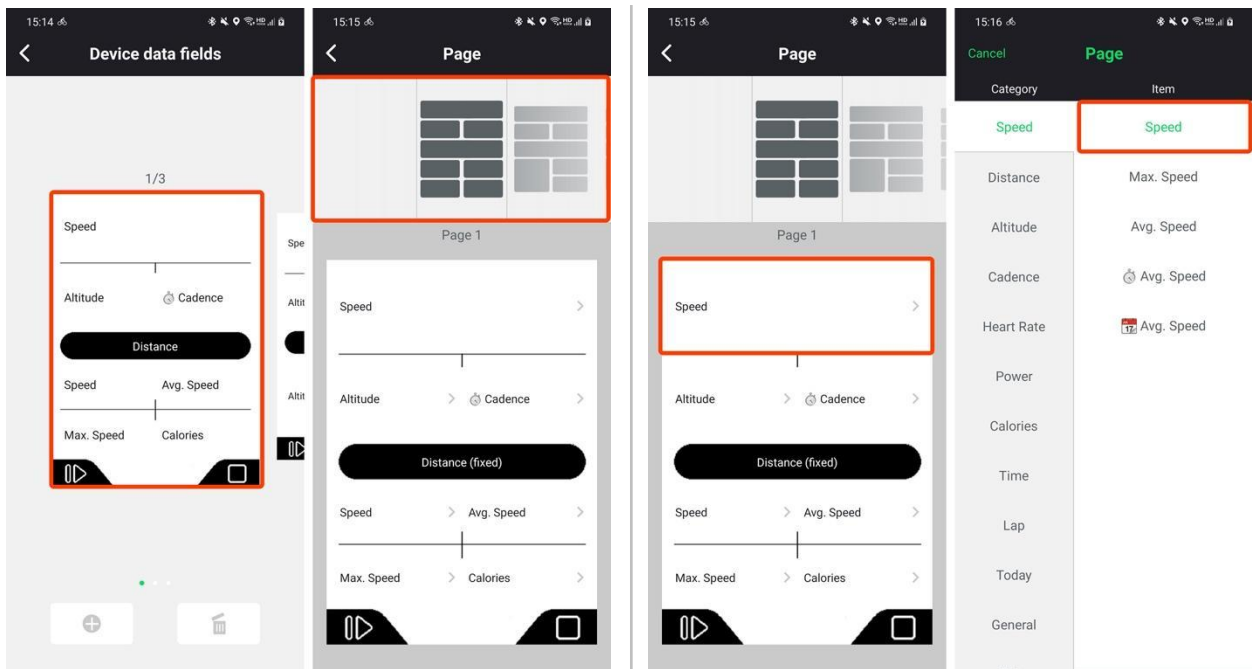


4. Tap the page you want to edit, and then select the layout you want from the five options.

3. You can set up to 10 pages with the Add button. You can delete a page using the Delete button while on the page you want to delete.



5. Tap the category you want to edit and select the item you want to change.




6. You can check the changed items immediately on the device.

Data field items

Category	Item	Description
Speed	Speed	Current speed
	Maximum speed	Maximum speed of the current record
	Average speed	Average speed of the current record
	Average lap speed	Average speed of the current lap
	Today's average speed	Average speed for a day
Distance	Distance	Distance of the current record
	Lap distance	Distance of the current lap
	Today's distance	Distance for a day
Altitude	Altitude	Current altitude
	Ascent altitude	Cumulative ascent altitude of the current record
	Descent altitude	Cumulative descent altitude of the current record
	Slope	Current slope
	Lap ascent altitude	Cumulative ascent altitude of the current lap
	Lap descent altitude	Cumulative descent altitude of the current lap
	Today's ascent altitude	Cumulative ascent altitude for a day
	Today's descent altitude	Cumulative descent altitude for a day
Cadence	Cadence	Current cadence (pedaling rate per minute)
	Average cadence	Average cadence of current record
	Lap cadence	Average cadence of the current lap
	Today's cadence	Average cadence for a day
	Amount of pedaling	Total number of pedal revolutions in current record

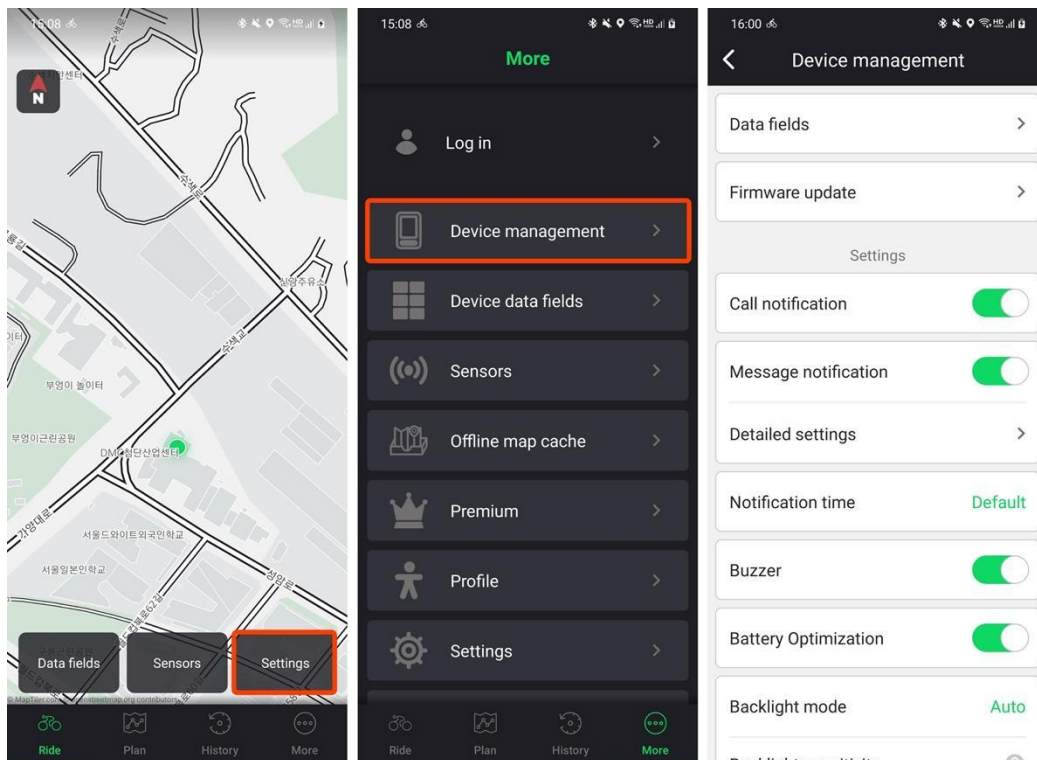
	Amount of lap pedaling	Total number of pedal revolutions in the current lap
	Today's amount of pedaling	Total number of pedal revolutions for a day
Heart rate	Heart rate	Current heart rate (number of heart beats per minute)
	Average heart rate	Average heart rate of the current record
	Lap heart rate	Average heart rate of the current lap
	Today's average heart rate	Average heart rate for a day
Power	Power	Current power to rotate the pedal (W)
	Average power	Average power of the current record
	Maximum power	Maximum power of the current record
	Lap average power	Average power of the current lap
	Lap maximum power	Maximum power of the current lap
	Power to weight	Power-to-weight ratio
	3 second power	Average power for 3 seconds
	5 second power	Average power for 5 seconds
	10 second power	Average power for 10 seconds
	30 second power	Average power for 30 seconds
	60 second power	Average power for 60 seconds
	Torque	Current pedaling force (Nm)
	Average torque	Average torque of the current record
	Lap average torque	Average torque for the current lap
	3 second torque	Average torque for 3 seconds
	5 second torque	Average torque for 5 seconds
	10 second torque	Average torque for 10 seconds
	30 second torque	Average torque for 30 seconds
	60 second torque	Average torque for 60 seconds
	Balance	Power percentage of both feet (%)
	Average balance	Average balance of the current record
	3 second balance	Average balance for 3 seconds
	5 second balance	Average balance for 5 seconds
	10 second balance	Average balance for 10 Seconds
	30 second balance	Average balance for 30 seconds
	60 second balance	Average balance for 60 Seconds
	TSS®	Training Stress Score Measurement of the stress applied to the body while riding
	NP®	Normalized Power Estimated average power considering resistance that changes due to riding conditions (altitude, terrain, wind, etc.)
	IF®	Intensity Factor An indicator of how hard the ride was in relation to overall fitness
	Power to FTP	Percentage (%) of current power divided by FTP (Functional Threshold Power)
Calorie	Calorie	Calories burned in the current record
	Lap calorie	Calories burned in the current lap

	Today's calorie	Calories burned for a day
Time	Exercise time	Riding time of the current record
	Lap time	Riding time of the current lap
	Today's riding time	Total riding time for a day
	Elapsed time	Total riding time including pause time of the current record
	Current time	Current time
General	 Smartphone	Battery level of connected smartphone
	Temperature	Temperature measured by internal sensor
Electric drivetrain	Gear	The gear position of the front and rear drive chain
	Gear battery	Displays the gear battery level alternately
	Front gear battery	Battery level of front gear
	Rear gear battery	Battery level of rear gear
	Left gear battery	Battery level of left gear
	Right gear battery	Battery level of right gear
	Di2 battery	Shimano Di2 battery level
	Di2 shift mode	Shimano Di2 current shift mode

* Items may be added through updates.

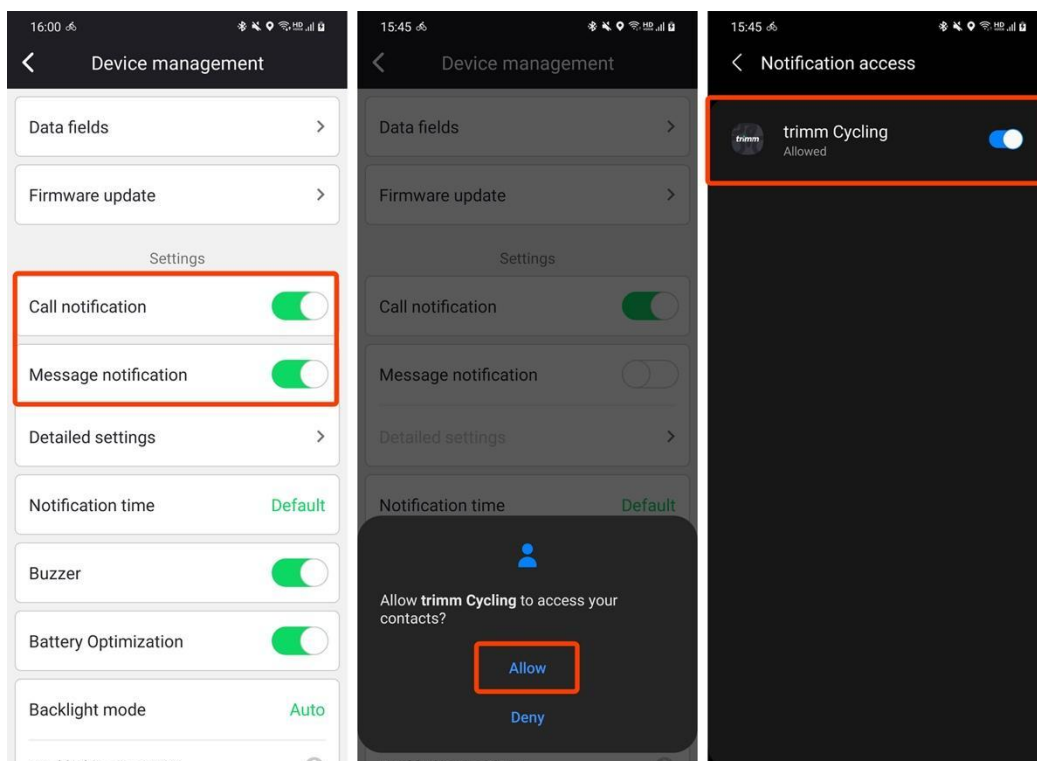
Device settings

1. Connect your device and the app.
2. Tap **Settings** in the lower left corner or **More ▶** Tap **Device management**

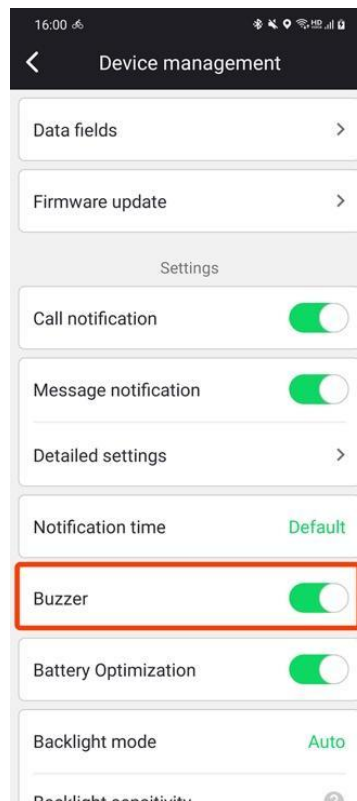


Notification settings

1. Turn on **Call and message notifications**. If your phone asks for access, please allow it.

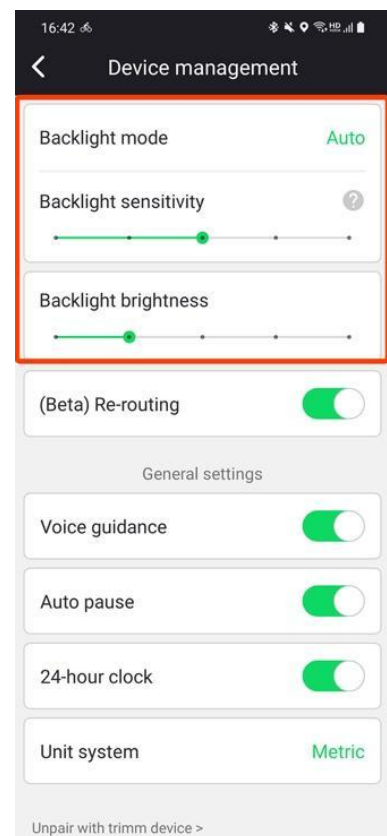


2. Turn **Buzzer** on/off. It goes off in various situations such as call and message notifications as well as navigation.

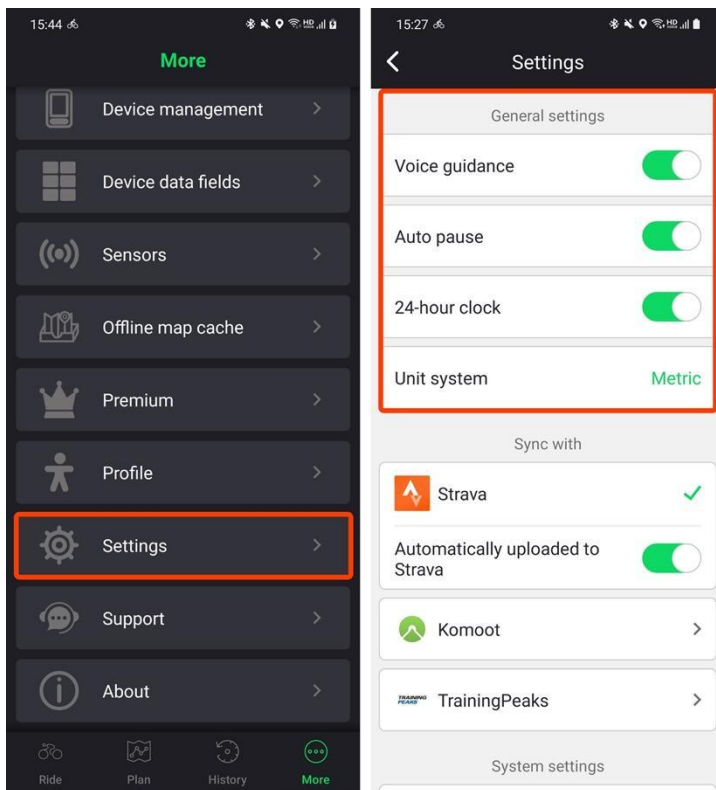


Backlight settings

1. Select **Auto**, **On**, or **Off** in **Backlight mode**.
When selecting **Auto**, the backlight is automatically adjusted through the sensor.
2. When selecting **Auto**, you can set the **backlight sensitivity**.
If you increase the backlight sensitivity, the backlight will turn on even in brighter places.
If you lower the backlight sensitivity, it will help reduce battery consumption.
3. When selecting **Auto** or **On**, you can set the **backlight brightness**.
If you lower the backlight brightness, it will help reduce battery consumption.



General settings



You can change general settings in **More** ► **Settings**.

- **Voice guidance**

Navigation voice guidance on your smartphone.

- **Auto pause**

Recording is automatically paused when the speed is below a certain level.

- **24-hour clock**

Choose from 12-hour or 24-hour clock.

- **Unit system**

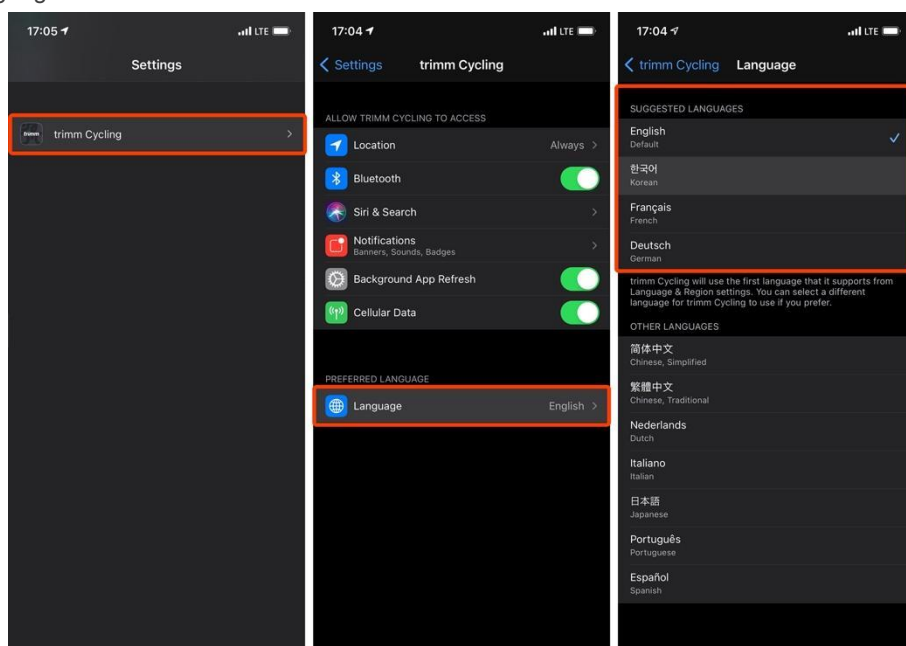
Choose between imperial (ft/lbs) or metric (cm/kg).

Language settings

The language setting of trimm Cycling Center is the same as the smartphone language setting. If you want to set a different language between the smartphone and the app, refer to the following instructions. Languages not available inside the app are displayed in English.

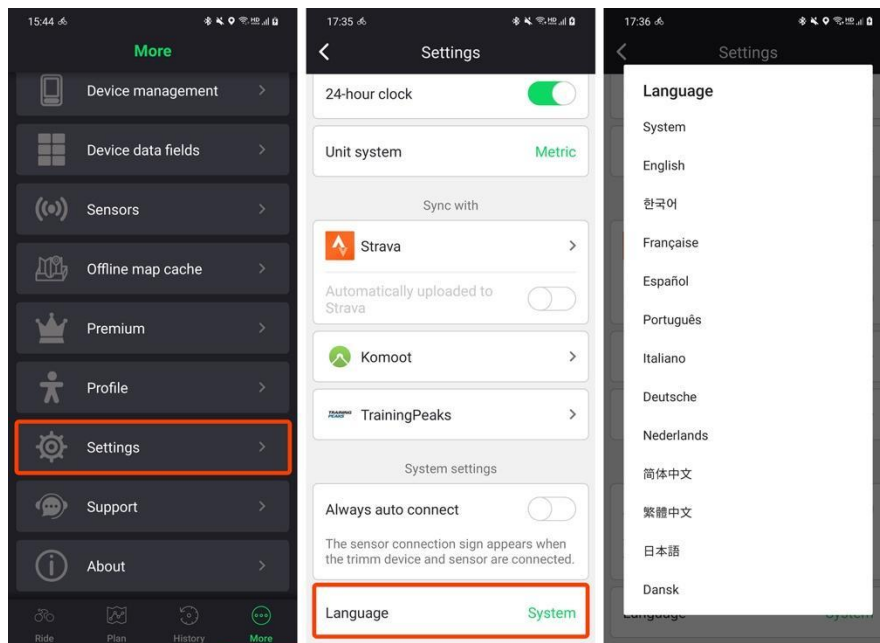
iOS

1. In your phone settings, select trimm Cycling.
2. Select the language.



Android

1. Tap the Settings button at the bottom of the screen under More.
2. Tap Language at the bottom of the list.
3. Select the language.

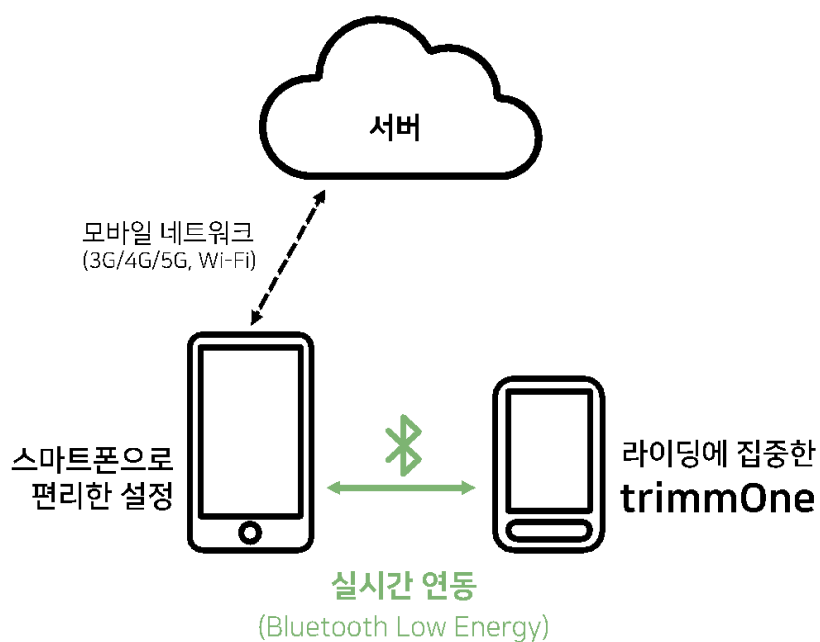


Route plan and navigation

Smartphone pairing and map function

This product provides excellent map and navigation functions that were previously only available with expensive bicycle computers using your smartphone.

By connecting the device to a smartphone via Bluetooth, it performs various complex tasks, such as receiving the latest map data in real time or backing up riding records in real time.



		Default function (speed, altitude, etc.)	Offline maps and navigation	Real-time maps and navigation	Re-routing	GPX navigation
Bluetooth (smartphone pairing)	On	Y	Y	Y	Y	Y
Mobile network (3/4/5G, Wi-Fi)	On					
Bluetooth (smartphone pairing)	On	Y	Y	N	N	Y
Mobile network (3/4/5G, Wi-Fi)	Off					
Bluetooth (smartphone pairing)	Off	Y	N	N	N	N
Mobile network (3/4/5G, Wi-Fi)	-					

Limit of responsibility for route guidance

Route guidance is for reference only. Please remember that you are wholly responsible for your own route. The route may contain incorrect directions. trimm takes no responsibility for the route plans and guidance.

OpenStreetMap¹



trimm Cycling Center guides routes based on OpenStreetMap (hereinafter OSM). OSM is an open source, free wiki map service that anyone can edit and use.

Since many users around the world directly edit new map information, you do not have to wait for a specific company or country to update the map data.

Contribute map information to OSM and get route guidance on up-to-date maps.


¹ Image source: https://wiki.openstreetmap.org/wiki/File:Public-images-osm_logo.svg

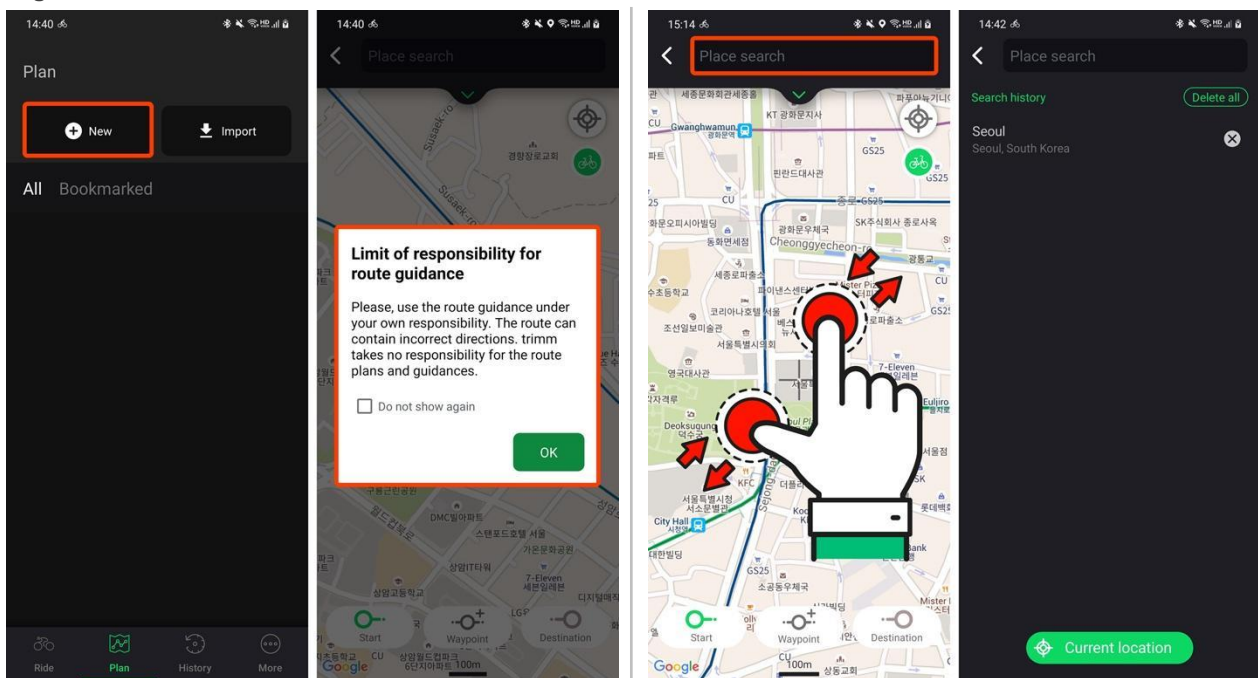




<https://www.openstreetmap.org>

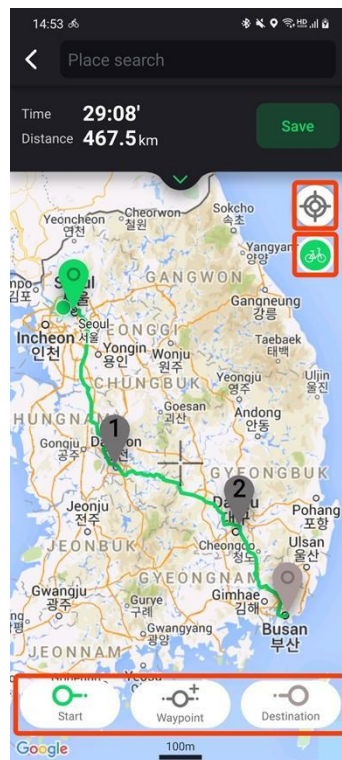
Plan route

Create a new route

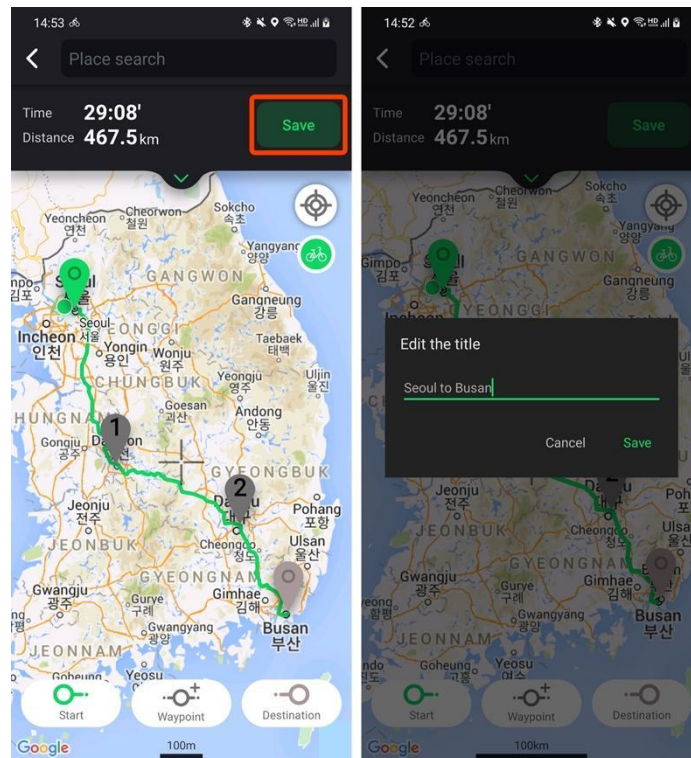
1. Tap the New button  at the top of the **Plan** screen.
2. Please check the **Limit of responsibility for route guidance**.
3. Move the map or search for a location.



4. To add a destination, tap the **Start**, **Waypoint**, and **Destination** buttons at the bottom. You can specify up to 30 points including Start and Destination. For details on how to edit, refer to **Edit route** below.
5. Tap the Current Location button  to return to the current location.
6. You can set whether to give priority to bicycle roads with the bicycle road option button. . Please refer to the **bike road options** below for more details.



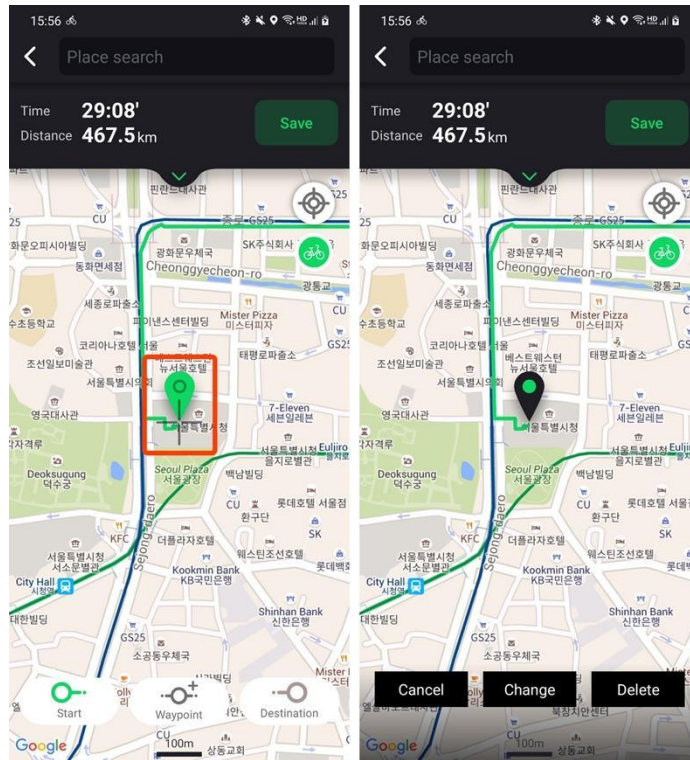
7. Tap the **Save** button to enter a title and save.
8. Saved routes are automatically synced to your account.



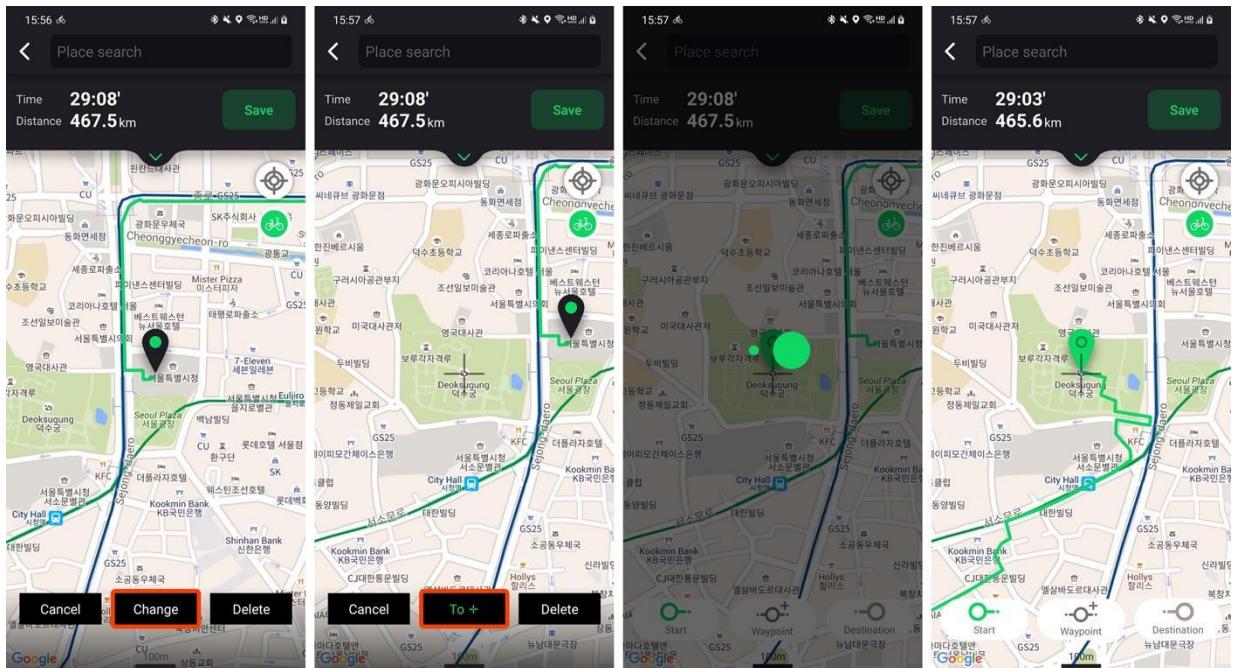
Edit route

Edit marker

1. Click the marker  you want to edit.





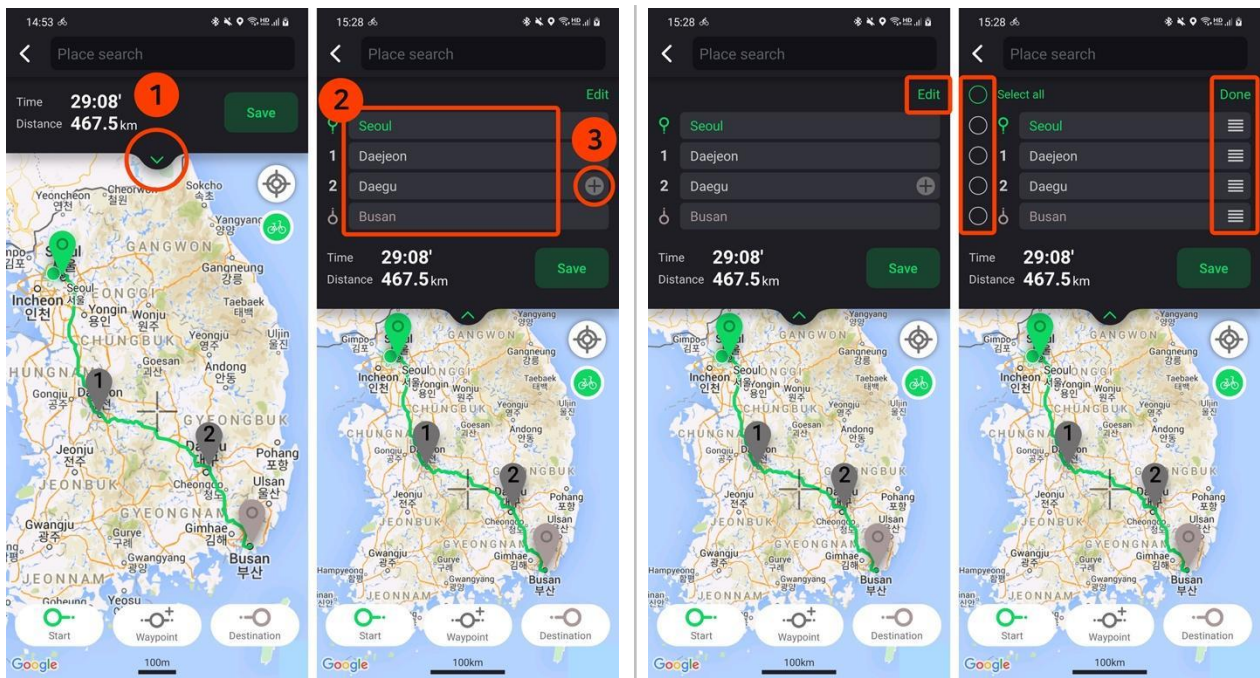
2. Tap the **Change** button, move the map to the desired location, and tap the **To+** button to change the location.





3. Tap the **Delete** button to delete the point.

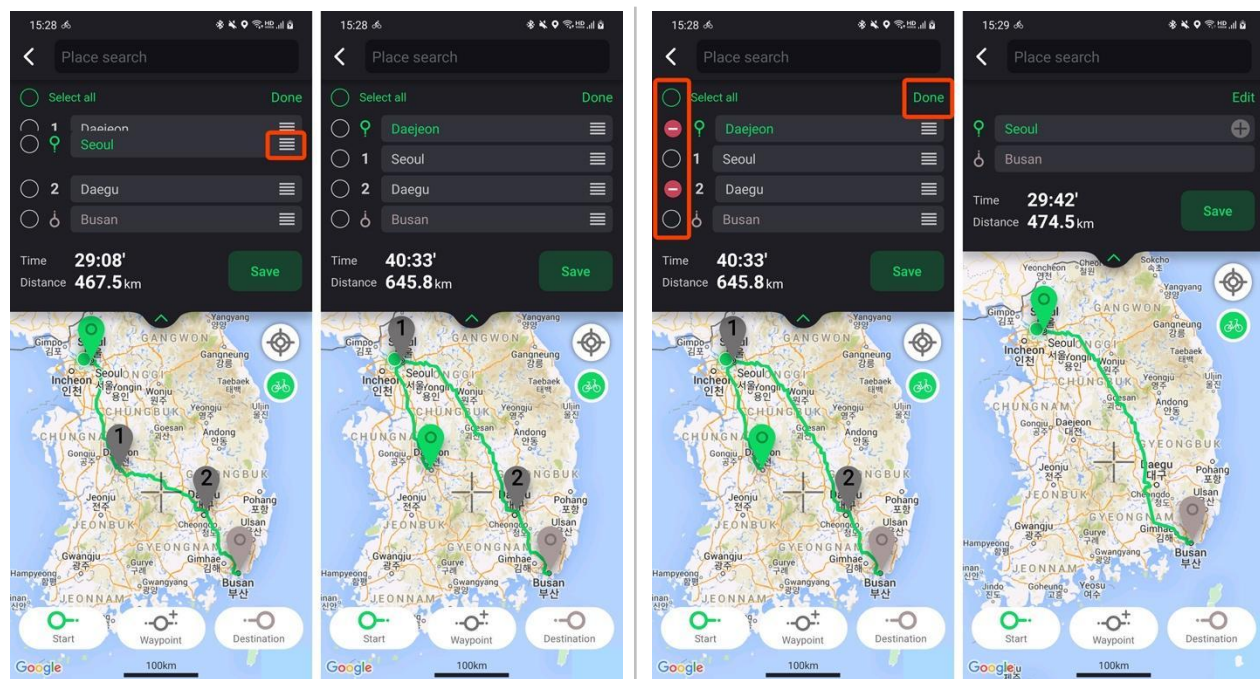
Edit list

1. Tap the down arrow  to open the list.
2. If you tap the address, you can search for a place and change the location.
3. Tap the Add waypoint button  to add a list.
4. Tap the Edit button to change the order or delete points.

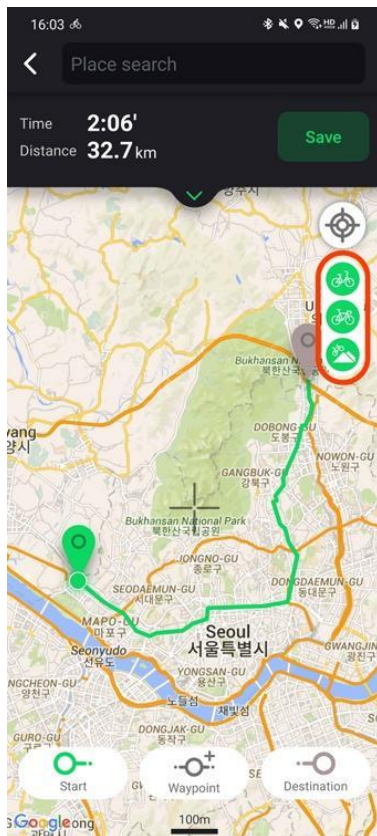


a. You can change the order by pressing and holding the drag button  on the right.

b. Select the delete button  on the left and tap Done to delete the selected point.



Bike road options



Priority on bicycle roads
Plan the route with priority on bike roads.

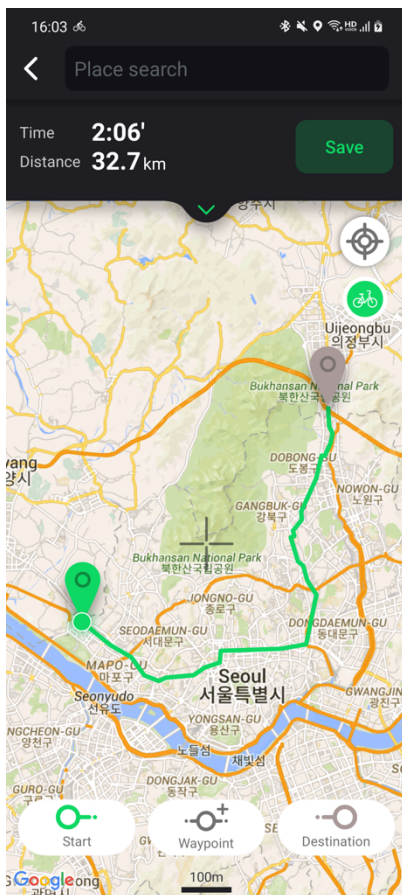


Shortest distance
Plan the route with the fastest route in general roads.

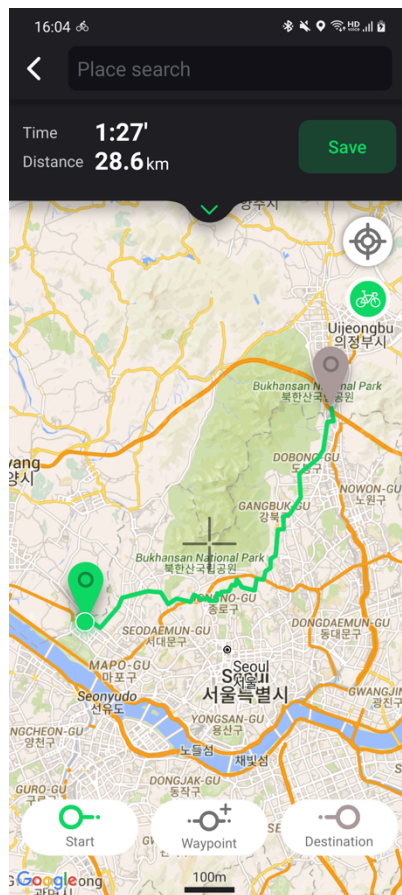


Mountain bike roads
Plan the route with mountain trails.

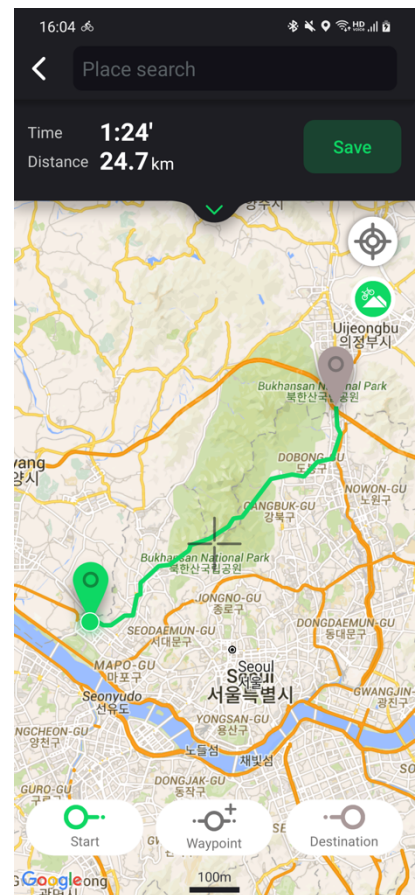
Examples of bike road options



Priority on bicycle roads

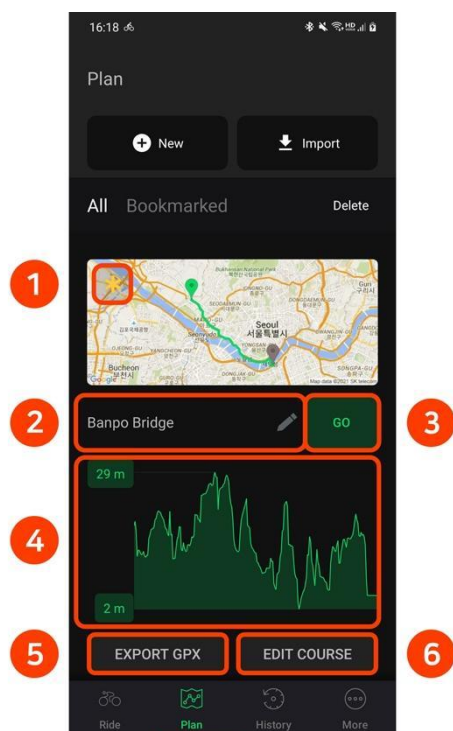


Shortest distance



Mountain bike roads

Route check and navigation

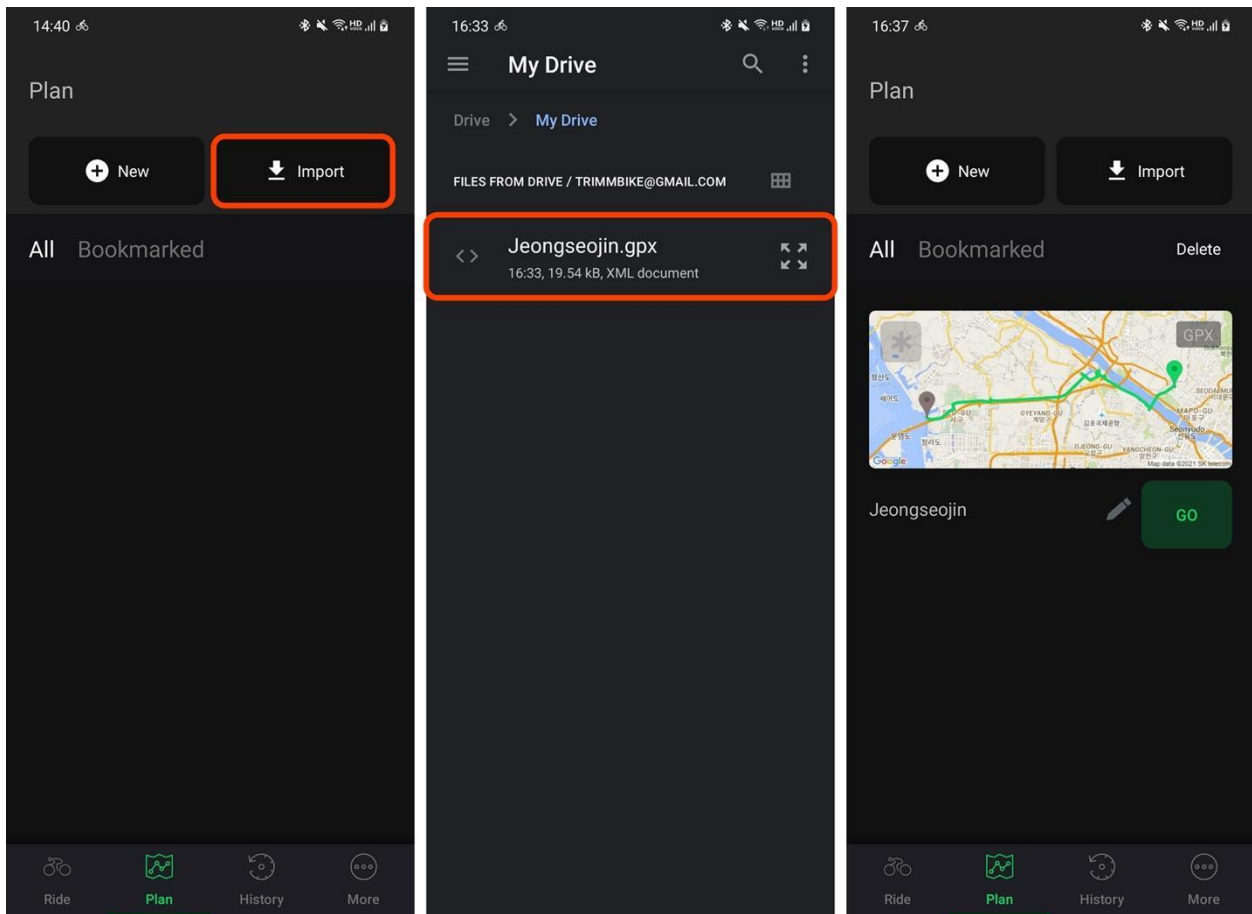


1. Add to bookmark.
2. Edit the name.
3. Start navigation.
 - If the starting point is far away, you can add route guidance from your current location to the starting point. (Internet connection required)
4. You can check the altitude of the route at a glance.
5. Export the route to a GPX file.
6. Edit the route.

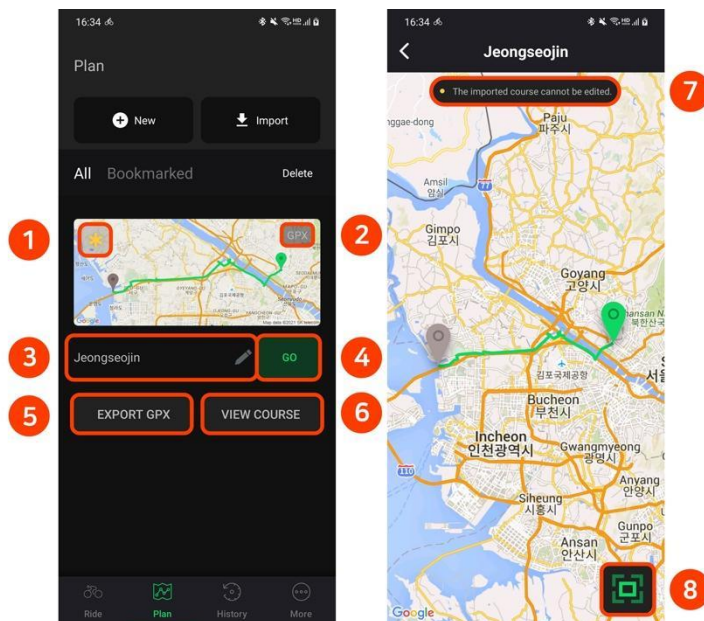
Route guidance with GPX, TCX, FIT

Import route

1. Tap the **Import** button in the upper right corner of the screen.
2. Import a saved GPX, TCX, FIT file.

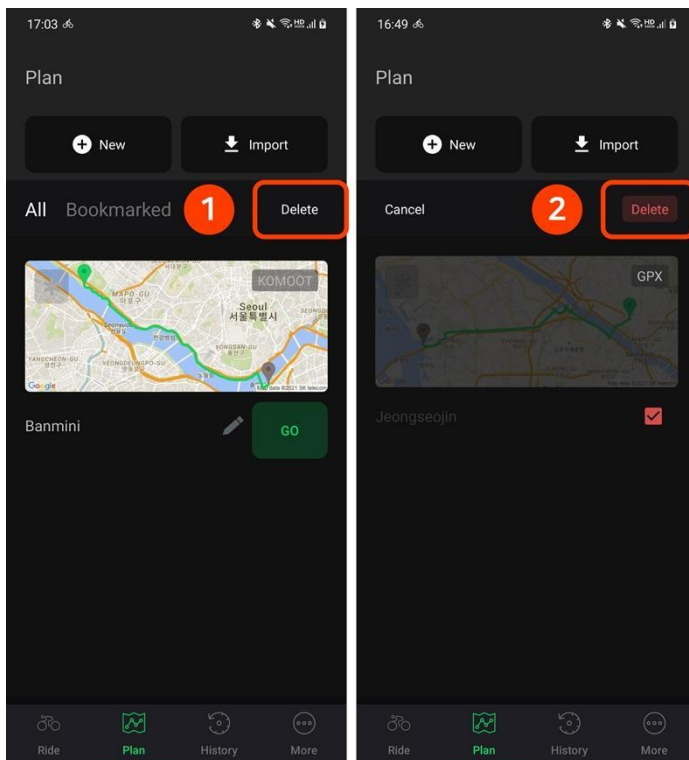


Imported route check and navigation




1. Add to **bookmark**.
2. Display the extension of the imported route.
3. Edit the name.
4. Start navigation.
 - a. If there is no turn-by-turn information in the imported route, only the route is shown.
5. Export the route to a GPX file.
6. Check the route.
7. The imported route cannot be edited.
8. Adjust the map to see the route at a glance.

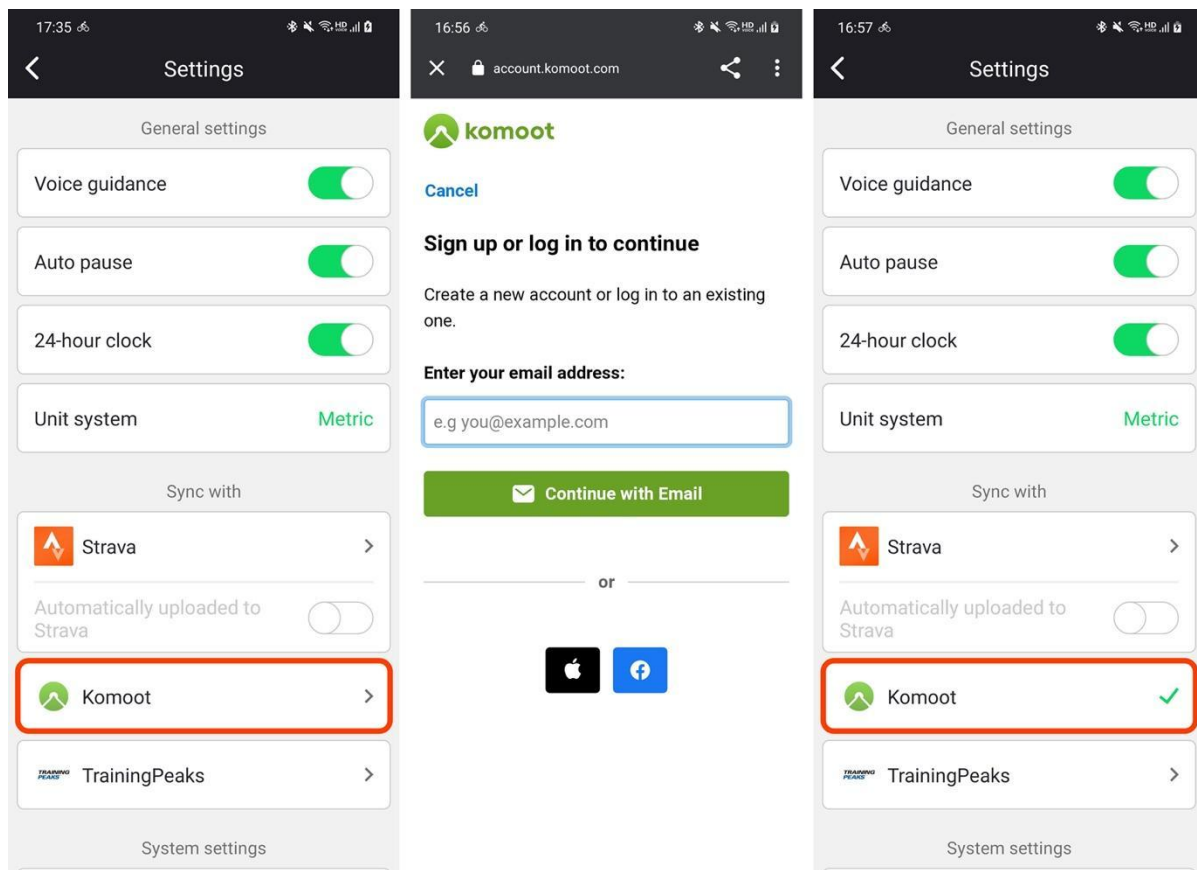
Delete route



1. Tap the **Delete** button at the top right of the list.
2. Select the item you want to delete and tap the **Delete** button once more.
3. Deleted routes are automatically synchronized and cannot be recovered.

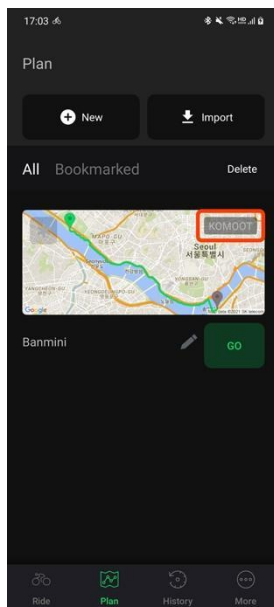
Sync with Komoot

1. **More ▶ Setting ▶ Sync with** Tap the **Komoot** button . Log in to moot and log in to your accounts.



2. Routes in unlocked areas in Komoot are automatically synced. You can check the synchronized route on the route

plan screen.

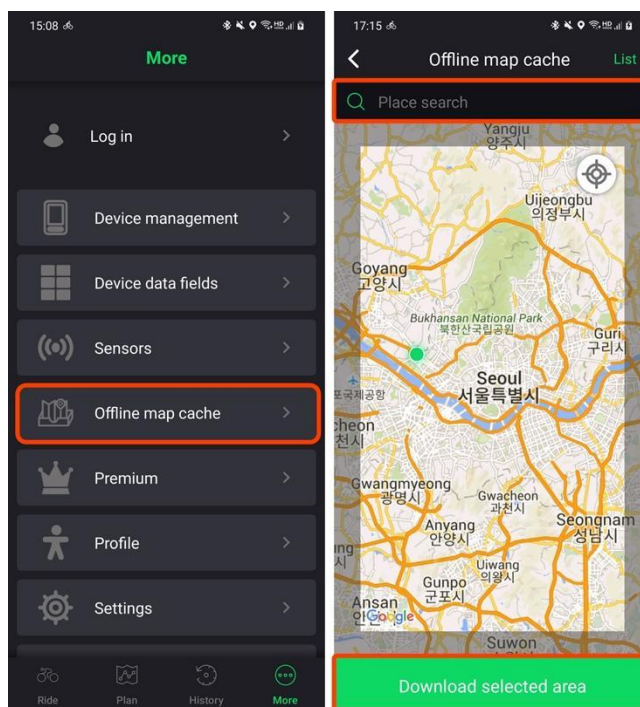




Offline map

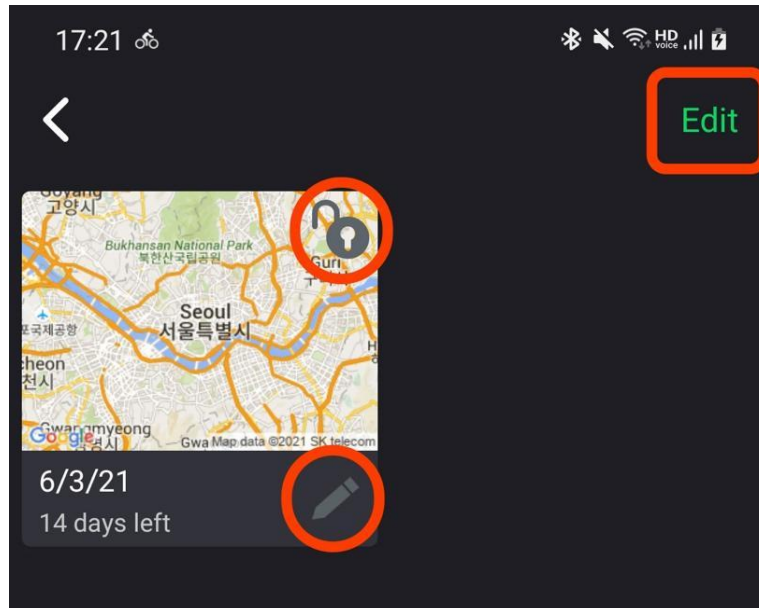
Offline map download

If you download the map before riding, you can use the map even when there is no internet. This is useful in places where Wi-Fi and data reception are not sufficient.

1. Tap **Offline map cache** under **More**.
2. Select the place by moving the map or searching for a place.
3. You can specify the area by zooming in or zooming out the map.
4. Tap **Download selected area**.



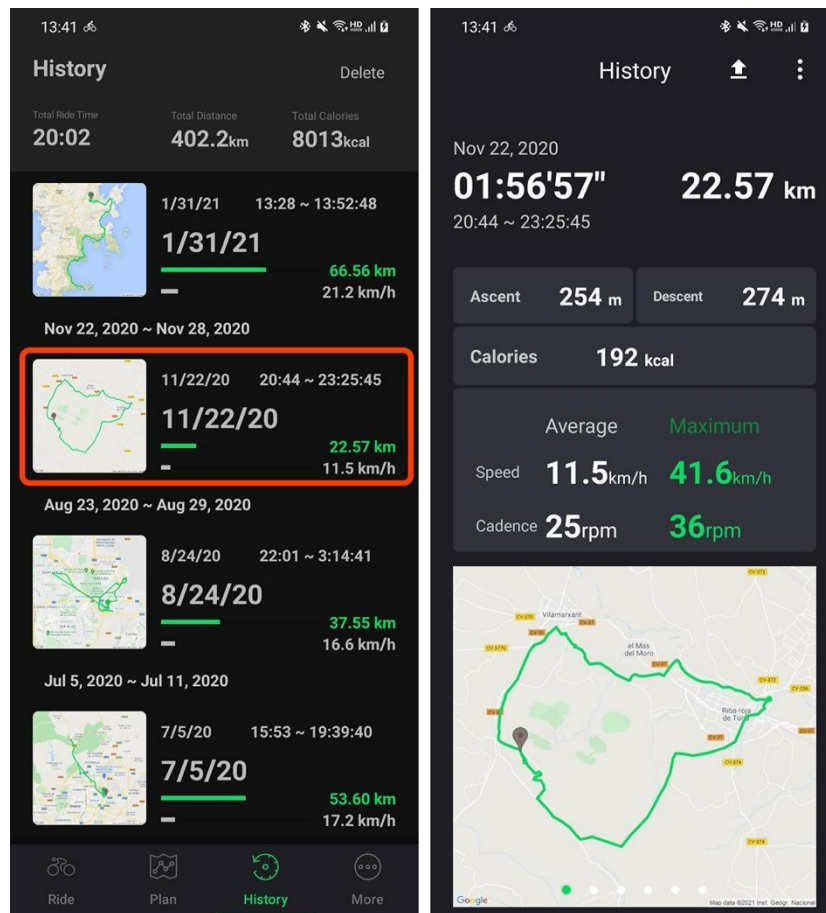
5. Saved offline maps will be deleted after 14 days. If you do not want it to be deleted, tap the lock button . 
6. You can edit the name by tapping the change button . 
7. You can delete the item by tapping the **Edit** button.



History

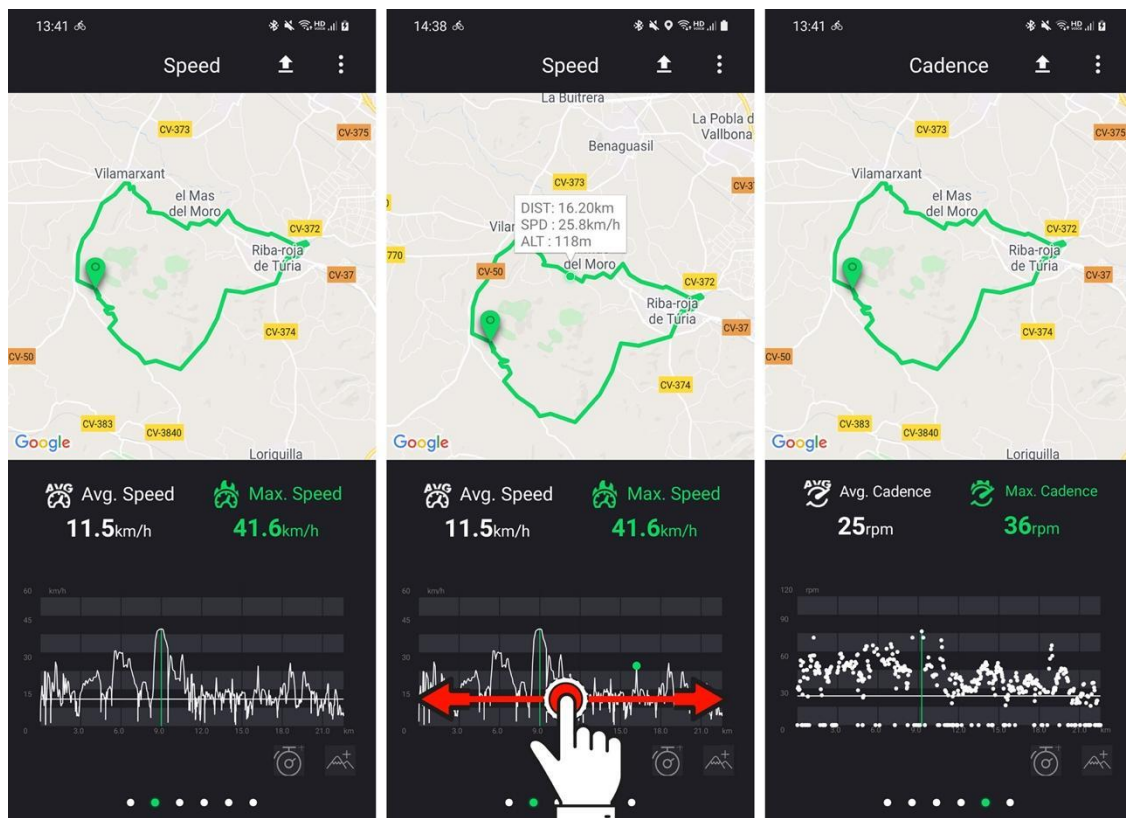
History check



1. Under **History**, tap the record to view details.
2. On the first page, you can see a summary of the record.

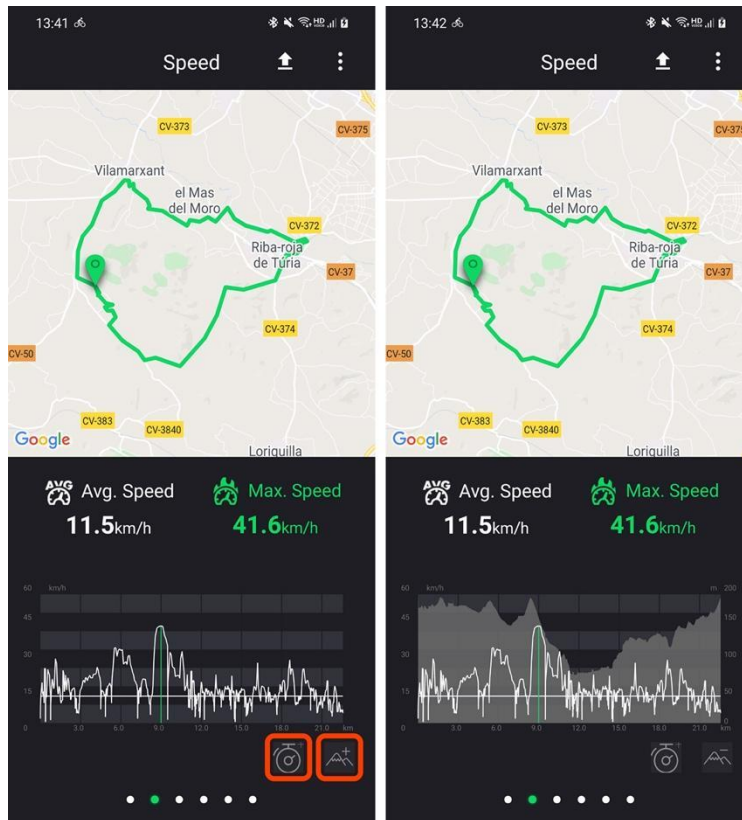


3. It displays information such as speed, altitude, cadence, heart rate, power, and calories in a graph.

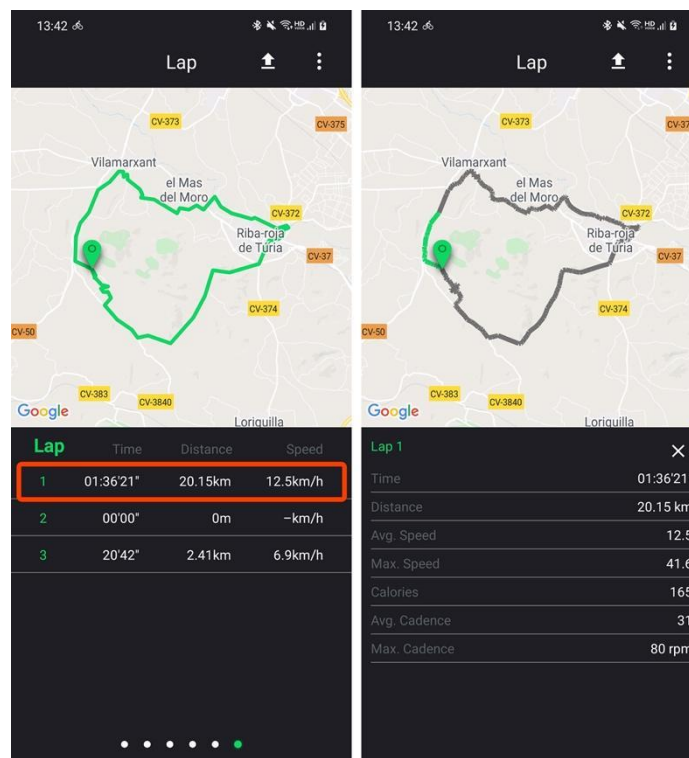
- You can check the history at a specific point by dragging the graph.
- Cadence, heart rate, power, etc. are recorded when the sensor is connected.



4. Tap the altitude button  at the bottom of the graph to check the altitude graph overlay.
5. Tap the clock button  at the bottom of the graph to convert the x-axis of the graph to time.



6. If you have a lap record, you can check it on the last page. If you select a lap, you can check the history of that lap in detail.



Sync with Strava

Sync with Strava and automatic upload settings

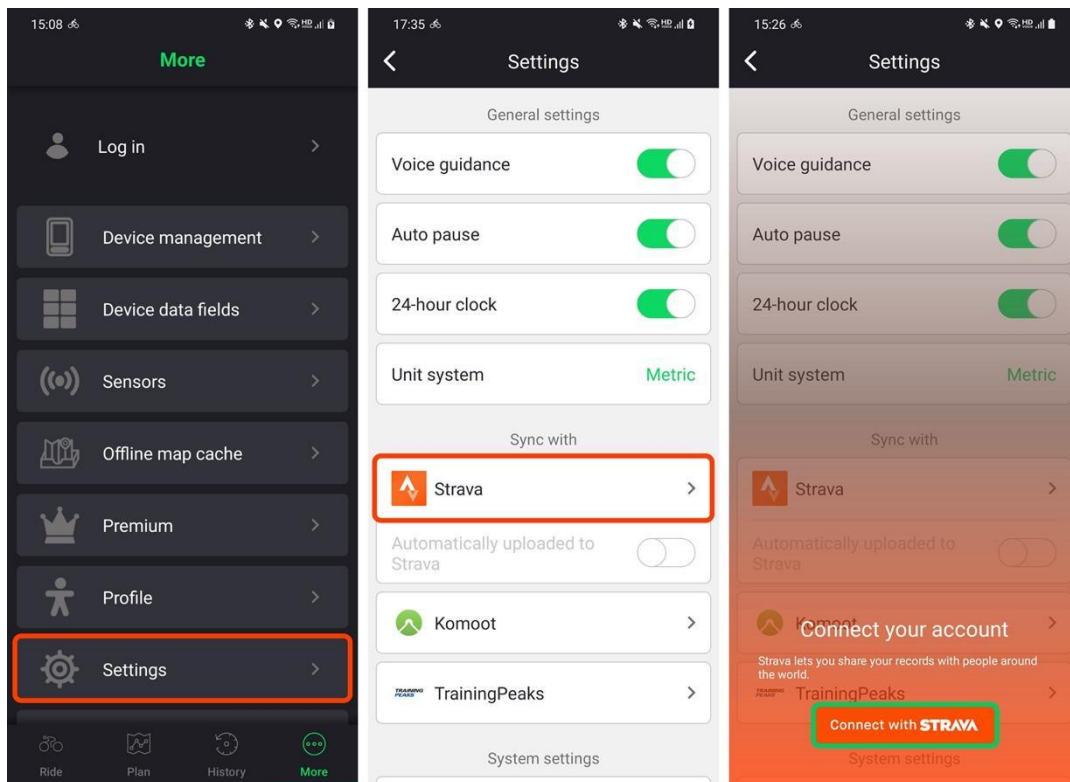
1. More ▶ Setting ▶ Sync with

Tap the **Strava** button

and

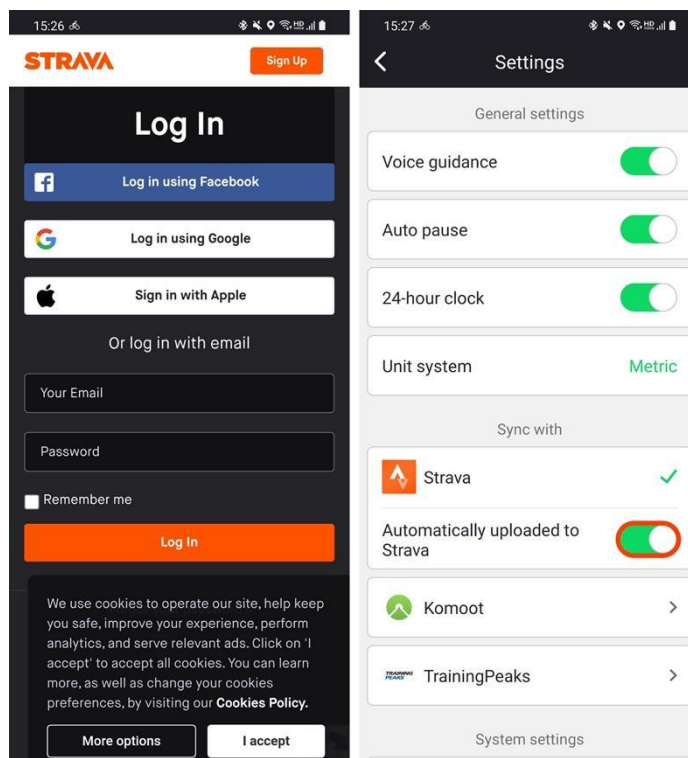


Connect with STRAVA



2. Follow the instructions to log in. If you do not allow some permissions, you may not be able to sync.

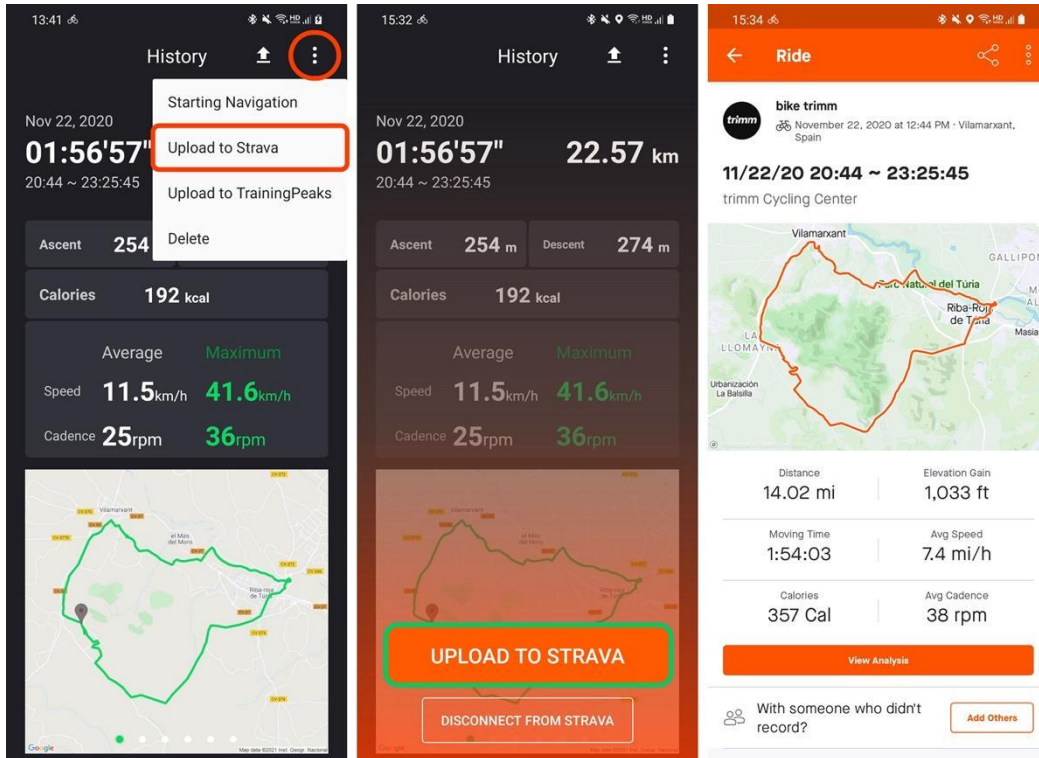
3. When turning on Strava auto-upload, records are automatically uploaded to Strava at the end of the ride.



4. If you would like to manually upload your records, please see the instructions below.

Strava upload

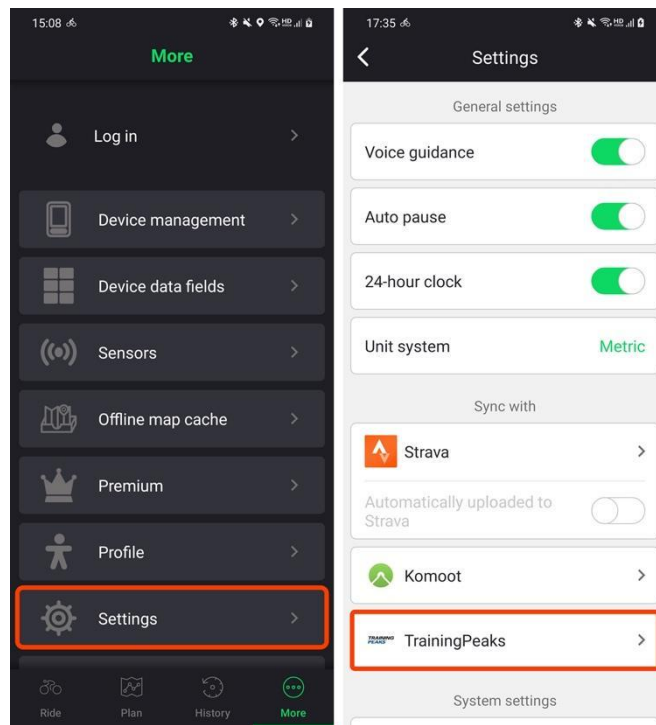
1. In the History, tap the **Upload to Strava** button in the menu in the upper right corner.
2. Tap the Upload to Strava button once more to upload your record to Strava.
(Records that have already been uploaded will not be uploaded.)



Sync with TrainingPeaks


1. **More ▶ Setting ▶ Sync with** Tap the TrainingPeaks button

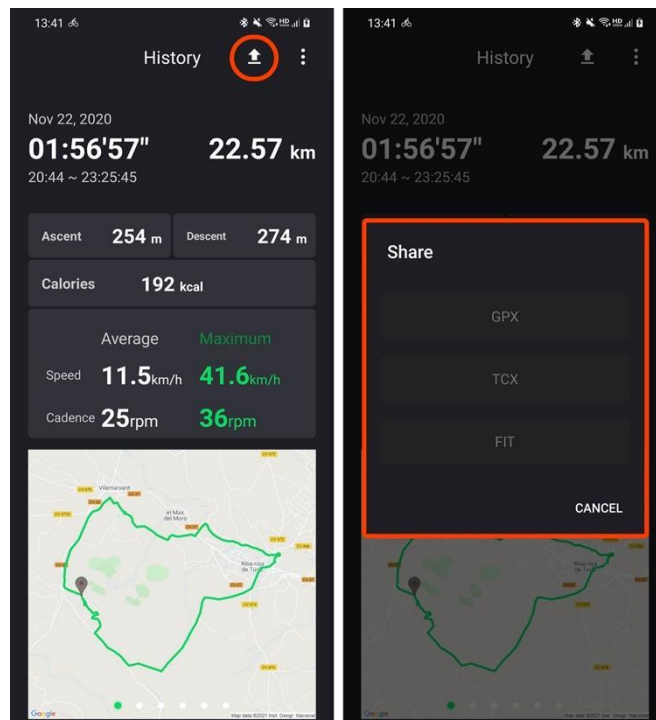




2. Log in to TrainingPeaks and connect your account.
3. It is automatically synced in the **History** screen.

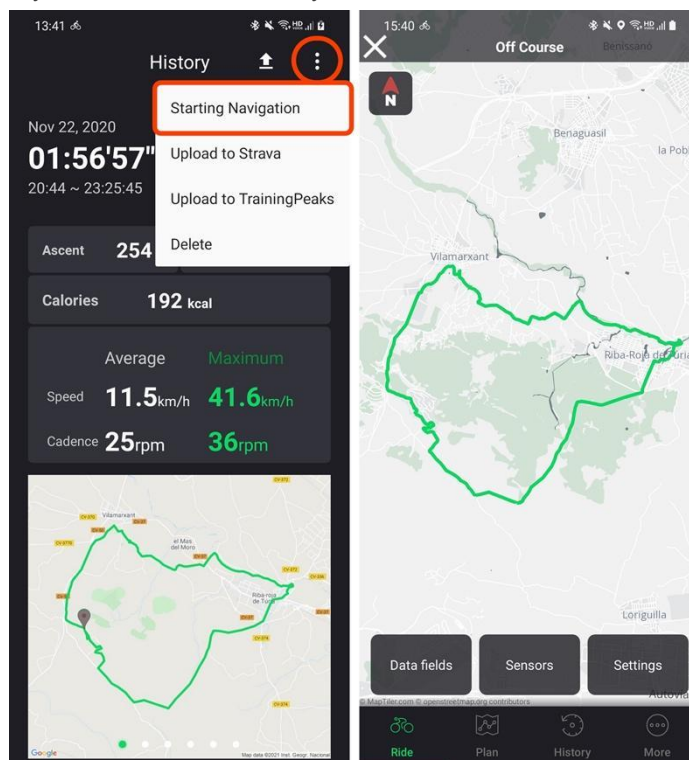
Share history (export to file)

1. Tap the Share button  at the top of the History.
2. You can export as a file of your choice among GPX, TCX, and FIT.



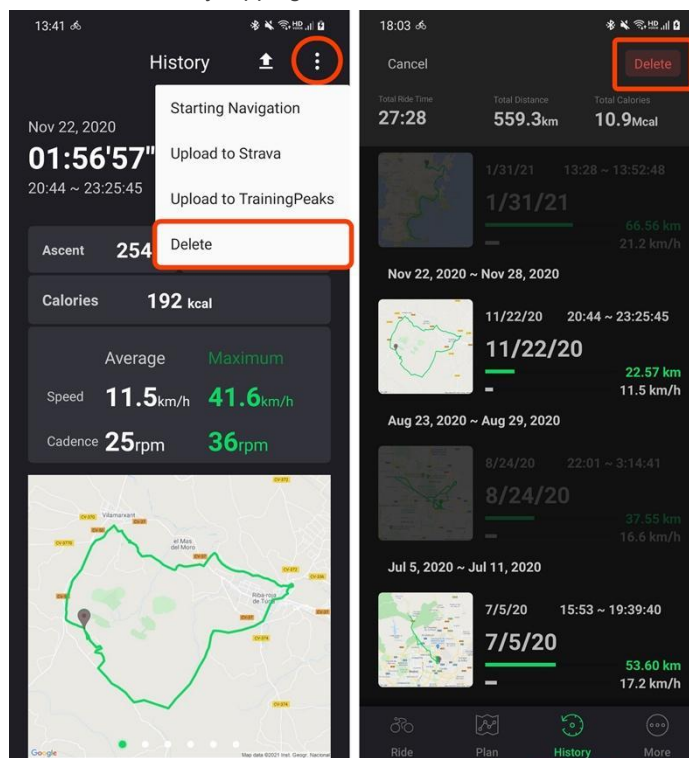
Navigation with history

1. In the History, tap the **Starting Navigation** button in the menu at the top right.
2. Navigates to the previously traveled route. No turn-by-turn information.



Delete history

1. In the History, tap the Delete button in the menu at the top right.
2. You can delete multiple histories at once by tapping the Delete button in the list.



PC version (Web App)



The trimm Cycling Center is also available on the web. This is a web application where you can plan a riding route and upload various files, as well as analyze the history in detail.

Work done on the PC version is **synchronized in real time**, so you can check it directly on your smartphone without any extra work. You no longer need to connect your computer to your device physically to transfer data. Enjoy smart riding with trimm Cycling Center!



<https://cc.trimm.bike>

Frequently Asked Questions

Device

Q. Can I use it without a smartphone?

A. Yes, you can. However, we strongly recommend that you use smartphone pairing. When using the pairing mode, you can use online functions such as maps and navigation. All your data is safe even when the device is turned off. In addition, the GPS reset time is shortened by up to 5 times in the pairing mode. In standalone mode, you can use it 30 seconds after turning on the device with the Bluetooth of the mobile phone turned off. However, the map function is limited. Log records when riding in a standalone mode are transmitted when connected to a mobile phone.

Q. Doesn't the battery of the smartphone drain a lot when paired with a smartphone?

A. There is no need to worry because only the Bluetooth low energy function is used when paired with a smartphone. Except for a short time when the smartphone and device are initially connected, the location tracking function also does not use the mobile phone. However, the map screen may consume a little more battery than other screens, and this will be further optimized.

Q. Is this using the smartphone's GPS?

A. The GPS of the smartphone is only used until the trimmOne receives its own GPS signal. Once the device uses its own GPS, the smartphone's GPS is no longer used.

Q. Is there a backlight function?

A. Yes, there is. You can choose to turn the backlight on, off, or auto through the trim Cycling Center app. When set to auto, the trimmOne device sensor detects the surrounding brightness and automatically adjusts the backlight. At this time, you can also adjust the degree of light response through the sensitivity setting.

Q. Is the screen visible even under direct sunlight?

A. The trimmOne's LCD is a reflective type, so it can be seen well even under sunlight.

Q. Are other languages available?

A. Currently, 11 languages are available, English, French, Spanish, German, Portuguese, Italian, Dutch, Korean, Chinese, Japanese, and Danish. We plan to add more in the future.

Q. What is the power saving mode function?

A. Power saving mode turns off the sensor search, GPS, and backlight for the purpose of saving trimmOne battery. It automatically switches to power saving mode after 10 seconds of pressing the stop button. If you don't want this function, tap the center button within 10 seconds. In this case, it switches to power saving mode after 30 minutes. In case of automatic stop, it will switch to power saving mode after 30 minutes.

Q. Is it waterproof?

A. It is waterproof for daily activities.

trimm Cycling Center App

Q. Do I need a premium subscription?

A. Premium subscription is a service for those who use the app alone without purchasing a device. If you pair your device with the app, you can use all the features without a premium subscription.

Q. I want to cancel the premium service.

iOS user

A. Subscription is paid through your iTunes account. This service is provided in the form of a subscription - auto-renewing service, which can be managed in the Settings app. Subscriptions automatically renew monthly and you must cancel your subscription at least 24 hours prior to renewal to avoid auto-renewing. You will be charged 24 hours prior to subscription renewal.

Android user

A. Subscription services are managed by the Google Play Store, so they are billed separately regardless of trimmOne connection. If you no longer want the service, please 'Cancel Subscription' in 'Google Play Store > Menu > Subscription'.

Q. Does it consume a lot of data?

A. The biggest part of data transmission and reception is when receiving map data in real time. Map data received once is stored for a certain period of time resulting in low consumption of data. For those who need a large amount of map data, you can enjoy riding without worrying about data if you receive an offline map at a Wi-Fi connected location.

Q. I changed the data field in the app, but it is not changed on the device.

A. Change the data field after pairing the device and the trimm app.

Q. Where are route plan and history saved?

A. If you log in to the app, the route plan and history saved in the smartphone are uploaded to the server when the Internet is connected. If you log in with the same account on another smartphone or the trimm Cycling Center web version (<https://cc.trimm.bike>), you can check the automatically synchronized history.

Map and navigation

Q. What kind of map does this use?

A. OpenStreetMap map is used. In addition to being able to use the map in real time online, you can download a map of the desired area in advance and use it offline.

Q. Navigation does not work the way I want. Can I edit it?

A. If you edit the map in OpenStreetMap, you can navigate with the edited route in the trimm Cycling Center after a certain period of time.

Q. Is navigation possible with GPX files?

A. Yes, it is. However, there is no turn-by-turn information provided when navigating with GPX files.

Q. What is the magnifying glass icon in the lower left corner of the map screen?

A. It is the map zoom in/out function. Press and hold the left button on the map screen to zoom in/out the map in 3 steps.

Q. Can I use the map function without a smartphone?

A. It must be connected to a smartphone to use the map and navigation functions. If you use the offline map storage function, you can use the map and navigation functions without worrying about data consumption.

Q. If I am off the course while riding, does it perform the route search again?

A. Yes. When you connect your device with the app and turn on 're-routing' in settings, it will search the route again if you are off course.

Re-route requires your smartphone to be connected to a mobile network.

Sensor

Q. Is it compatible with power meters?

A. Yes, it is.

Q. Is it a must to use a speed sensor?

A. We recommend using a speed sensor because it not only measures the speed but also saves battery through the smart battery management system. You can also use a speed sensor other than the trimm speed sensor.

Q. How useful is the solar charger?

A. Solar chargers are designed to charge approximately twice as fast as the discharge rate on a sunny day. On sunny days, you can charge while riding. Charging can be slower on cloudy days but it helps the battery drain much more slowly.

Q. The solar charger does not seem to work well.

A. If there is a sun icon on the top of the device, it means that solar charging is running smoothly. However, charging may be slow on cloudy days.

Q. Is it compatible with ANT+ and Bluetooth sensors?

A. Yes. They are compatible.

Q. Is it compatible with sensors made by other companies?

A. It is compatible with all speed, cadence, heart rate and power sensors with standard protocols. If you have incompatible sensors, please contact customer center.

Service

Q. How long is the warranty period?

A. Unless it falls under user error, the warranty period of the device is 1 year and the warranty period of the battery is 6 months.

Troubleshooting

If a problem occurs, please try the solutions below.

If the problem is not resolved after following the instructions, please contact the customer center.



<https://trimm.bike/support>

Device

1. When not charging using USB cable.
 - Remove foreign substances from the charging connector and try charging again.
 - Try charging with a different charging cable.
2. When not charging using solar charger.
 - Remove foreign substances from the charging connector.
 - After connecting to the device, put the solar charger under sunlight or strong light. If it shows charging within 1 minute, it is operating normally.
3. When the button is not pressing down.
 - The rubber covering the button may be stuck between the buttons causing difficulty in pressing the button. Press the buttons around the one having difficulty to release it.
4. When the button is sticking out too much.
 - Please contact customer center.
5. When the device does not turn on.
 - After charging for more than 10 minutes, press the button to check if the device works.
 - After resetting by pressing the left and center buttons at the same time for 10 seconds, check if the device works.
6. When it's frozen with the trimm logo displayed. (When it's frozen during firmware update.)
 - In the trimm app, go to the 'Connect with trimm device' screen and wait for a while to automatically restart the firmware update.
 - If the update does not restart automatically, reset by pressing the left and center buttons at the same time for 10 seconds and try again.
7. When the battery drains too quickly.

- Check if it charges to 100% after 3 hours of charging using a genuine cable and a charger with a rated voltage within the required range.
 - Reset by pressing the left and center buttons at the same time for 10 seconds.
 - After charging to 100%, connect the device and the trimm app, set the backlight 'on', backlight brightness 'maximum', and auto pause 'off' in the device settings. If the device works without charging for more than 6 hours after pressing the start button (▷), it is operating normally. There may have been a software error in the battery level display, so please notify the customer center.
8. When backlight is not working.
 - After connecting the device and the trimm app, set the backlight to 'On' in the device settings to see if the backlight works.
 9. When water penetrates the screen.
 - If there is proof such as photos, we will exchange it within the warranty period. Please contact customer center.
 - If there is no proof, please dry it in direct sunlight. The plastic may be damaged if dried with a fire or excessive heat.
 10. When the buzzer is not working.
 - After connecting the device and the trimm app, turn the notification setting off and on in the device settings to check whether the buzzer works normally.

Function

1. When the ride was not recorded.
 - Tap the start button (▷) on the device.
2. When a part of the riding history disappeared.
 - Please contact customer center.
3. When GPS does not work.
 - Please contact customer center.

Speed sensor

1. When the speed becomes 0 during riding.
 - Please contact customer center.
1. When the sensor is not detected.
 - Turn off the device and turn off Bluetooth on the smartphone.
 - Touch the magnet to the piece (reset pin) shown in the picture below 2~3 times.



- If the LED is on and blinks, search for the sensor again in the trimm app.

Damage

1. When there are scratches on the protective film.
 - The protective film is part of the packaging to protect against scratches that may occur during delivery and is not considered as a defect.
 - You can purchase special tempered glass film on our website or at some retailers.
1. When you need repairs for exterior damage.

- Damage to the exterior may be a paid or free under the warranty policy. Please contact customer center.

Specifications

Model	trimmOne
Color	Black, Grey, Orange, Red, Pink, Green, Irish Green, Navy
Thickness (without mount)	8.9mm
Width (including mount)	55.0 × 94.0 × 12.5 (mm)
Display size	3.16", 42.6 × 68.0 (mm)
Weight	62g
Waterproof	Waterproof for daily activities
Usage time	Max. 50 hours (with speed sensor) Max. 15 hours (without speed sensor)
Map	Online map, offline save
GPX tracking	Available
Solar charging	Optional
Android	≥ Lollipop
iOS	≥ 10.3

Model	trimmOne LITE
Color	Asphalt Gray
Thickness (without mount)	9.9mm
Width (including mount)	56.1 × 96.9 × 13.5 (mm)
Display size	3.16", 42.6 × 68.0 (mm)
Weight	59g
Waterproof	Waterproof for daily activities
Usage time	Max. 50 hours (with speed sensor) Max. 15 hours (without speed sensor)
Map	Online map, offline save
GPX tracking	Available
Solar charging	Optional

Android	≥ Lollipop
iOS	≥ 10.3

Safety guide

Caution

This product information guide contains safety and handling, regulatory, and warranty information. Failure to comply with the following warnings could result in an accident that may result in death or serious injury, or a medical accident and/or damage to other property.

Battery warning

The device is powered by a built-in lithium-ion battery that can be charged using the USB port.

※ Note: The device may not be charged outside the approved temperature range (-20o~ 60oC / -4o ~ 140oF). (Operating temperature, storage temperature, relative humidity, operating altitude)

- When connecting a device, check if the port is free of dust or debris, if the connector fits the port, if there is no moisture around it, and if the connector is correctly positioned for use with the port.
- Do not replace or remove the battery yourself. It may damage the battery, which may cause overheating or injury. The built-in battery can only be replaced by trimm One or an authorized service provider.
- Do not use power or data cables that are not approved or supplied by the manufacturer.
- When using an external battery charger, use only trimm One accessories approved for that product.
- If you use damaged cables or chargers, or charge when it's wet, it may cause fire, electric shock, injury, or damage to the device and other property.

Handling warning

- Do not disassemble, modify, reassemble, break, or damage the device.
- Do not expose the device to water, shock, liquid, fire, explosion, or other hazards.
- Prolonged exposure to humid environments such as rain, snow, and fog is not recommended.
- Do not use the device in a potentially explosive environment, especially in the presence of fuel or in an atmosphere containing chemicals or particles (grains, dust, or metal powder).
- Exposure of the device to environments with high concentrations of industrial chemicals, including volatile liquefied gases such as helium, may impair the functionality of the device. Please comply with all signs and instructions at all times.
- Store it within the approved temperature range (-20o~ 60oC / -4o ~ 140oF).
- Keep the device out of reach of children or pets.
- Do not use a damaged device such as one with a broken screen. There is a risk of injury.
- Never put the device in your mouth. Swallowing the device can result in chemical burns, perforation of soft tissue, and even death. Severe burns may occur within 2 hours of swallowing. Seek medical help immediately.
- Contact your local waste disposal agency and dispose of the device/battery in accordance with local laws and regulations. - When cleaning the exterior or parts of the device, first turn off the trimm One and disconnect the power adapter. Then wipe the exterior of the trimm One with a clean, soft, lint-free cloth dampened with water. Be careful not to let water get inside the device. Do not spray water directly on it, and do not use chemical cleaners such as aerosol sprays, solvents, abrasives, hydrogen peroxide, or cleaners that contain insect repellents that may damage the exterior.

Health warning

trimm One contains parts (including magnets) and radio communications devices that emit electromagnetic fields which can interfere with pacemakers, defibrillators, and other medical devices.

- If you have a pacemaker or other electronic device implanted in your body, consult your doctor before using a heart rate meter.
- Always consult your doctor before starting or changing an exercise program.
- Maintain a safe distance between the medical device and the trimm One. For information related to medical devices, contact your physician and medical device manufacturer.
- This device and other trimm One accessories are consumer devices, not medical devices, and may experience interference from external electrical devices.
- The displayed heart rate is for reference only, and we are not responsible for the results of incorrect display.
- The trimm One activity tracker has sensors that track your actions and other measurements. The data and information provided by the device are only approximate estimates of your tracked activity, and data regarding steps, distances, or calories do not guarantee perfect accuracy.

Navigation warning

- Always use common sense and be careful when making your decisions. This trimm One device is designed for route presentation only. It is not intended to be a substitute for proper preparation for outdoor activities and it is the user's responsibility to exercise caution. If it presents a course that will put you in an inappropriate or dangerous situation, do not follow that route.
- Always carefully compare the information displayed on your device with all navigation information, including trail signs, trail conditions, weather conditions, and other factors that may affect your safety while navigating. For safety, always resolve conflicting information before using navigation, follow appropriate signs, and monitor the current situation.
- Always bear in mind the environmental impacts and risks inherent in any activity before starting it. Pay particular attention to weather and weather-related trail conditions that may affect the safety of your activity.
- Before navigating unfamiliar routes and trails, prepare the appropriate gear and supplies for the activity.

FCC compliance

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 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.

This product does not have any parts that can be repaired by a user. Repairs must be undertaken at a service center and by a technician authorized by Ratio. Unauthorized repairs or modifications could result in permanent damage to the device and could void your rights and warranty regarding this device under part 15.

Software license agreement

You agree to the terms and conditions of the Software License Agreement below using this device. Please read the agreement below carefully.

Ratio grants you a limited license to use the software embedded in this device (the 'software') in binary format which runs during the normal operation of the product. Ratio and its third party suppliers maintain all rights not explicitly granted to you in this agreement. Ratio and its third party suppliers own title, copyright, and intellectual property rights of the

software. This software is licensed but not sold.

You agree that the software is the property of Ratio or its third party suppliers and is protected by United States copyright laws and international copyright treaties. In addition, you acknowledge that the code, structure, and components of the software, for which no source code is provided, are important trade secrets of Ratio or its third party suppliers, and that the software in source code format is an important trade secret of Ratio and its third party suppliers. You agree not to decompile, disassemble, modify, reverse assemble, reverse engineer, or reduce any part of the software to a human readable form, or create derivative works based on the software, in whole or in part. You may not rent, transfer, or sublicense the software or provide commercial hosting services with the software. You agree not to export or re-export the software to any country in violation of US export control laws or any other export control laws of any applicable country.

This agreement shall be governed by the laws of the jurisdiction in which you reside, without conflict with laws or provisions. This agreement is not governed by the United Nations Convention on Contracts for the International Sale of Goods. This application is expressly excluded.

Map data information

trimmOne uses both government and private data sources. Any data source has the potential to contain inaccurate or partial data. Accurate and complete map information may not be available in some countries.

Limited warranty

Ratio's non-aeronautical products are warranted to be free from defects in material and technology for one year from the date of purchase. If any part fails within this period, Ratio will provide repair or replacement service at its discretion. Shipping costs for such repairs or replacements will be borne by the customer, but parts or labor for such repairs or replacements will be provided free of charge. This warranty does not cover damage stated below.

- Superficial damage such as scratches, chips, and dents
- Consumables, such as batteries, except for product damage caused by defects in materials or technology
- Damage caused by accidents, abuse, misuse, water, flooding, fire, or other natural disasters or external causes
- Damage caused by repairs by persons other than service technicians authorized by Ratio
- Damage caused by product changes or modifications not approved in writing by Ratio
- Damage caused by connecting power and data cables other than those provided by Ratio

In addition, Ratio has the right to refuse warranty claims for products or services obtained or used in violation of law in any country.

Ratio navigation products are intended for mobility assistance only and should not be used for applications requiring accurate bearing, distance, location, and terrain measurements. Ratio does not guarantee the accuracy or completeness of the map data.

Repairs come with a 90-day warranty. If the device under repair is still under the original warranty period, the new warranty period will be either 90 days or the end of the original 1-year warranty, whichever is longer. Warranties and action plans are exclusive and in lieu of all other warranties, explicitly, implicitly, or statutory, including any statutory or other warranties of merchantability or fitness for a particular purpose. This warranty gives the user specific legal rights that may vary by country or region.

Ratio shall not be liable for any incidental, special, indirect, or consequential damages such as any traffic fines or traffic tickets arising out of its use, misuse, or inability to use this product or any defect in the device. Some countries or regions do not allow the exclusion of incidental or consequential damages. In this case, the above limitation may not apply in such states. You should refer to the laws or ordinances of your country or region to fully understand your rights.

The manufacturer has the exclusive right to substitute the warranty by replacing the original product with a new refurbished product or refunding the full purchase price. This action plan is your sole and exclusive measure if the manufacturer fails to provide a warranty. For warranty service, contact the place of purchase or the authorized dealer that supplied the product, or if this is not possible, contact the manufacturer's service center. Please prepay the delivery cost and return the device to the manufacturer's warranty service center along with an original or a copy of your purchase receipt. Warranty service requires an original or copy of the purchase receipt from the dealer from whom the product was

purchased.