

Swimming App Professional

User Manual

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RH-SPORTS



Contents

1	Disclaimers	2
1.1	Software disclaimer	2
1.2	User data protection according to DSGVO	2
1.3	Activity tracking and fitness metric accuracy	3
1.4	Accuracy of wrist-based heart rate (Elevate)	3
1.5	White background on AMOLED displays	3
2	Requirements	3
2.1	Supported Garmin devices	3
2.2	Garmin device Firmware requirements	5
2.3	Garmin software requirements	7
2.4	Sensor requirements	7
3	Getting started	7
3.1	Install application	7
3.2	How to change the user settings	8
3.2.1	Change user settings on PC or MAC	8
3.2.2	Change user settings on mobile phone	14
3.3	Start application	23
3.3.1	Find application on Garmin device	23
3.3.2	Application start	24
3.4	User Settings	25
3.4.1	Registration key for PREMIUM version	26
3.4.2	Activity type	26
3.4.3	Background color	26
3.4.4	Auto screen lock	28
3.4.5	Auto scroll time	28
3.4.6	Pool length	28
3.4.7	Distance for PACE Calculation	28
3.4.8	LAP features	28
3.4.9	ALERT features	29
3.4.10	Show/hide data pages	30
3.4.11	2-field data pages	30
3.4.12	4-field data pages	30
3.4.13	7-field data pages	31



4	Data fields	31
4.1	Notes	33
5	Features	33
5.1	Session features	33
5.2	ALERT features	35
5.2.1	Distance alerts	35
5.2.2	Heart rate alerts	36
5.2.3	GPS fix alerts	36
5.2.4	Timer alerts	36
5.3	LAP features	37
5.4	Key lock feature	38
5.5	Workout summary	38
6	Sensors	38
6.1	Satellite quality	38
6.2	ANT+ sensors	39
7	Frequently Asked Questions	39
7.1	Wrong distance information	39
7.2	What is the purpose of the FREE version?	40
7.3	How to upgrade to the PREMIUM version?	40
7.4	I did not received the unlock keys for the PREMIUM Version after donation?	40
7.5	What to do if after entering the key, still the FREE version is active?	41
7.6	What to do if GPS is not found upon start?	41
7.7	How to enable GPS, GLONASS or GALILEO?	41
7.8	What to do in case of a app or data field crash upon start?	42
7.9	What to do if settings cannot be changed?	42
7.10	User settings lost after update?	42
7.11	Activity not visible on Garmin Connect?	43
7.12	Activity tracking and fitness metric accuracy	43
7.13	Accuracy of wrist-based heart rate (Elevate)	43
7.14	Is there a way to enable/disable GLONASS?	44
7.15	Why is an update of the firmware required?	44
7.16	What to do if the application does not work?	44
8	Backlog	44
9	Version history	44



Swimming App Professional



The **Swimming App Professional**, running on most Connect IQ™-compatible Garmin devices, supports you in improving your swimming performance by tracking the most important parameters like distance, speed, pace and time with high sensitivity GPS. Additionally ANT+™ compatible sensors for heart rate and temperature monitoring are supported. It is designed as a watch app (and not a data field) for following reasons:

- Simple to install and use.
- Arbitrary feature enhancement possible.
- Circumvent that some watches (e.g. vivoactive™) can only display two Connect IQ™ data fields.



[Link to **Swimming App Professional** on Garmin App Store](#)

This website provides further information regarding requirements, installation, getting started, supported data fields and features as well as frequently asked questions.

You can also download the documentation as compressed HTML help file (.chm) or PDF by using the links below:



[Download compressed HTML help file as ZIP](#)
[Download PDF](#)



1 Disclaimers

1.1 Software disclaimer

Our offered applications, widgets and data fields (further on simply called software), which can be downloaded from the Garmin App Store, are provided 'as is' without warranty of any kind, either express or implied, including, but not limited to, the implied warranties of fitness for a purpose, or the warranty of non-infringement. Without limiting the foregoing, Robert Hofer (RH-SPORTS) makes no warranty that:

- the software will meet your requirements.
- the software will be uninterrupted, timely, secure or error-free.
- the results that may be obtained from the use of the software will be effective, accurate or reliable.
- the quality of the software will meet your expectations.

Software and documentation on our web site:

- could include technical or other mistakes, inaccuracies or errors.
- may be out of date where we make no commitment to update the it right away.
- we assume no responsibility for errors or omissions in the software or documentation available from our web sites.
- Robert Hofer (RH-SPORTS) has the right to change the software or documentation anytime.

In no event shall we be liable to you or any third parties for any special, punitive, incidental, indirect or consequential damages of any kind, or any damages whatsoever, including, without limitation, those resulting from loss of use, data or profits, whether or not we have been advised of the possibility of such damages, and on any theory of liability, arising out of or in connection with the use of this software.

The use of the software downloaded is done at your own discretion and risk and with agreement that you will be solely responsible for any damage to your computer system, watch or navigation device or loss of data that results from such activities. No advice or information, whether oral or written, obtained by you from us by mail or from our web sites shall create any warranty for the software.

1.2 User data protection according to DSGVO

RH-SPORTS clearly wants to state that we do not collect or save user information of any kind. If you are using our applications or data fields and save the recorded session afterwards then the data will be fully processed by Garmin Ltd. or its subsidiaries. This might include that the recorded data is sent to servers hosted or paid for by Garmin. Please read the user data protection rules from Garmin for further details.

Following applications offer map support:

- Cycling App Professional
- Hiking App Professional
- MTB App Professional
- SkiTour App Professional

These applications do not directly track personal information but makes use of a 3rd party API provided by dynamicWatch which does store personal information on every data request. You can read the detailed privacy policy of dynamicWatch [here](#).



1.3 Activity tracking and fitness metric accuracy

1.3 Activity tracking and fitness metric accuracy

Our applications and data fields use the Garmin API's to retrieve most of the information and cannot be more precise than the data delivered from there. Garmin states following about activity tracking and accuracy:

- "Garmin devices are intended to be tools to provide you with information to encourage an active and healthy lifestyle. Garmin wearables rely on sensors that track your movement and other metrics. The data and information provided by these devices is intended to be a close estimation of your activity and metrics tracked, but may not be precisely accurate. Garmin wearables are not medical devices, and the data provided by them is not intended to be utilized for medical purposes and is not intended to diagnose, treat, cure, or prevent any disease. Garmin recommends you consult your doctor before engaging in any exercise routine."

1.4 Accuracy of wrist-based heart rate (Elevate)

Our applications and data fields use the Garmin API's to retrieve heart rate related data cannot be more precise than the data delivered from there. Regarding wrist-based accuracy, Garmin states following:

- "The optical wrist heart rate (HR) monitor for Garmin wearables is a valuable tool that can provide an accurate estimation of the user's heart rate at any given point in time. The optical HR monitor is designed to attempt to monitor a user's heart rate 24 hours a day, 7 days a week. The frequency at which heart rate is measured varies, and may depend on the level of activity of the user. When you start an activity with your Garmin optical HR device, the optical HR monitor measures more frequently. The intent is to provide the user with a more frequent and accurate heart rate reading during a given activity." - "While our wrist HR monitor technology is state of the art, there are inherent limitations with the technology that may cause some of the heart rate readings to be inaccurate under certain circumstances. These circumstances include the user's physical characteristics, the fit of the device and the type and intensity of the activity as outlined above. The HR monitor data is not intended to be used for medical purposes, nor is it intended to diagnose, treat, cure or prevent any disease or condition." - "Wrist heart rate accuracy during swimming is very limited. Garmin does not recommend using wrist heart rate during swimming activities and on some products, wrist heart rate monitoring is disabled while swimming. Garmin recommends using HRM-Swim™ or HRM-Tri™ heart rate monitors with compatible devices to track heart rate while swimming."

1.5 White background on AMOLED displays

For devices with AMOLED display (e.g. Venu™ based devices) we strongly recommend to always select the black background to avoid damages due to burn-in effects and to save battery life time!

We take over no responsibility in case of damages due to burn-in effects.

10_Requirements

2 Requirements

2.1 Supported Garmin devices

The **Swimming App Professional** runs on following Garmin devices:



2.1 Supported Garmin devices

- Approach® S60
- Approach® S62
- Approach® S70 42mm
- Captain Marvel
- D2™ Air, D2™ Air X10
- D2™ Bravo
- D2™ Bravo Titanium
- D2™ Charlie
- D2™ Delta, D2™ Delta PX, D2™ Delta S
- D2™ Mach 1
- Darth Vader™
- Descent™ MK1, Descent™ MK2, Descent™ MK2s
- Descent™ Mk3 51mm
- Enduro™ and Enduro™ 3
- Epix™ 2, Epix™ Pro (Gen 2) 42mm and 47mm
- Fēnix® 3, Fēnix® 3 HR, Fēnix® Chronos
- Fēnix® 5, Fēnix® 5S, Fēnix® 5X
- Fēnix® 5 Plus, Fēnix® 5S Plus, Fēnix® 5X Plus
- Fēnix® 6/6 Pro
- Fēnix® 6s/6s Pro
- Fēnix® 6x Pro/6x Sapphire/6x Pro Solar/tactix® Delta Sapphire
- Fenix® 7, Fenix® 7s and Fenix® 7x
- Fenix® 7 Pro, Fenix® 7s Pro and Fenix® 7x Pro
- Fēnix® 7 Pro (no Wi-Fi) and Fēnix® 7x Pro (no Wi-Fi)
- Fenix® 8 43mm, 47mm, 51mm and Fenix® 8 Solar 47mm, 51mm
- Fenix® E
- First Avenger
- ForeAthlete® 230J, 235J, 630J, 735XTJ and 920XTJ
- Forerunner® 55, 165, 165 Music, 230, 235, 245, 245 Music, 255, 255 Music, 255s, 255s Music, 265 and 265s
- Forerunner® 630, 645, 645 Music, 735XT, 935, 945, 945 LTE, 955 / Solar and 965
- MARQ™ Adventurer, Athlete, Aviator, Captain, Commander, Driver, Expedition and Golfer
- MARQ® (Gen 2) Athlete / Adventurer / Captain / Golfer / Aviator
- Rey™
- Venu™ and Venu™ Mercedes-Benz® Collection
- Venu™ SQ and Venu™ SQ Music



2.2 Garmin device Firmware requirements

- Venu™ SQ 2 and Venu™ SQ 2 Music
- Venu™ 2, Venu™ 2 Plus, Venu™ 2s
- Venu® 3 and Venu® 3s
- Vivoactive™
- Vivoactive™ HR
- Vivoactive® 3, Vivoactive® 3 Music, Vivoactive® 3 Music LTE, Vivoactive® 3 Mercedes-Benz® Collection
- Vivoactive® 4s/4
- Vivoactive® 5

2.2 Garmin device Firmware requirements

Please install the latest firmware on your Garmin device. Here the information about the minimum required Connect IQ™ version depending on your device type:

- $\geq 1.3.0$
 - ForeAthlete® 230J, 235J, 630J and 920XTJ
 - Forerunner® 230, 235, 630 and 920XT
- $\geq 1.4.0$
 - Vivoactive™
- $\geq 1.4.1$
 - D2™ Bravo and D2™ Bravo Titanium
 - Fēnix® 3 and Fēnix® 3 HR
- $\geq 2.4.1$
 - Approach® S60
 - ForeAthlete® 735J
 - Forerunner® 735XT
 - Vivoactive® HR
- $\geq 3.0.0$
 - Approach® S62
 - D2® Charlie
 - D2® Delta, D2® Delta PX, D2® Delta S
 - Descent™ MK1
 - Vivoactive® 3 Mercedes-Benz® Collection
- $\geq 3.1.0$
 - Descent™ MK2
 - Fēnix® Chronos
 - Fēnix® 5, Fēnix® 5S, Fēnix® 5X and Fēnix® 5 Quatix
 - Fēnix® 5 Quatix
 - Fēnix® 5 Plus, Fēnix® 5S Plus, Fēnix® 5X Plus



2.2 Garmin device Firmware requirements

- Forerunner® 935
- Forerunner® 645 and 645 Music
- Vivoactive® 3
- $\geq 3.2.0$
 - Captain Marvel
 - Darth Vader™
 - D2™ Air
 - Descent™ MK2s
 - Enduro™
 - Fēnix® 6/6 Pro
 - Fēnix® 6s/6s Pro
 - Fēnix® 6x Pro/6x Sapphire/6x Pro Solar/tactix® Delta Sapphire
 - First Avenger
 - Forerunner® 55, 245, 245 Music, 745 and 945
 - MARQ™ Adventurer, Athlete, Aviator, Captain, Commander, Driver, Expedition and Golfer
 - Rey™
 - Venu™ SQ and Venu™ SQ Music
 - Venu™ and Venu™ Mercedes-Benz® Collection
 - Vivoactive® 3 Music, Vivoactive® 3 Music LTE
 - Vivoactive® 4s/4
- $\geq 3.3.0$
 - Forerunner® 945 LTE
- $\geq 4.0.0$
 - D2™ Air X10
 - D2™ Mach 1
 - Venu™ 2, Venu™ 2 Plus, Venu™ 2s $\geq 4.1.0$
 - Fenix® 7, Fenix® 7s and Fenix® 7x
 - Forerunner® 255, 255 Music, 255s and 255s Music
 - Forerunner® 955 / Solar
 - Venu™ SQ 2 and Venu™ SQ 2 Music
- $\geq 4.2.0$
 - Approach® S70 42mm and 47mm
 - Descent™ Mk3 51mm
 - Epix™ 2
 - Epix™ Pro (Gen 2) 42mm, 47mm and 51mm
 - Fenix® 7 Pro, Fenix® 7s Pro and Fenix® 7x Pro
 - Fēnix® 7 Pro (no Wi-Fi) and Fēnix® 7x Pro (no Wi-Fi)
 - Forerunner® 165 and 165m
 - Forerunner® 265 and 265s
 - Forerunner® 965
 - Venu® 3 and Venu® 3s
 - Vivoactive® 5



2.3 Garmin software requirements

- $\geq 5.0.0$
 - Fenix® 8 43mm
 - Fenix® 8 47 / 51mm
 - Fenix® 8 Solar 47mm
 - Fenix® 8 Solar 51mm
 - Fenix® E
 - Enduro™ 3

2.3 Garmin software requirements

- Please install the latest Garmin Connect App if you use the mobile phone for installation and configuration.
- Please install the latest Garmin Express Version if you use the PC/MAC for installation and configuration.

2.4 Sensor requirements

- Please enable GPS for speed, distance and location for open water swimming
- Please enable ANT+ sensors for heart rate and temperature information

20_GettingStarted

3 Getting started

This section describes everything you need to know to get **Swimming App Professional** up and running on your Garmin device.

Topics:

- [Install application](#)
- [Change user settings](#)
- [Start application](#)
- [User setting overview](#)

3.1 Install application

Please install the **Swimming App Professional** application by downloading it from the Garmin App Store via the Garmin Express Software on PC/MAC or via the Garmin Mobile app on your mobile phone.

[Link to **Swimming App Professional** on Garmin App Store](#)

Here a YouTube video describing the installation process:



[Click here to watch the video](#)



3.2 How to change the user settings

3.2 How to change the user settings

The **Swimming App Professional** in the PREMIUM version offers a huge amount of [configuration options](#) which can be changed on your PC/MAC your or on your mobile phone:

- [Change User Settings on PC/MAC](#)
- [Change User Settings on Mobile Phone](#)

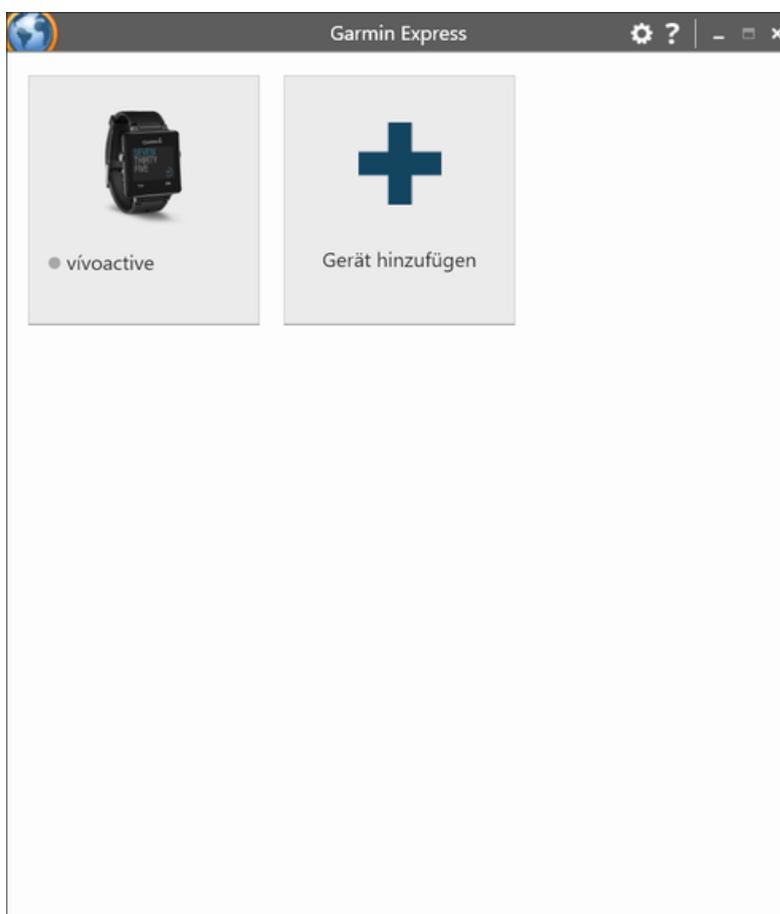
3.2.1 Change user settings on PC or MAC

All configurations can be changed on your PC or MAC by using the Garmin Express Software. Before changing configurations, please make sure that you have installed the latest software version. The software can be downloaded from the official Garmin web site.

Step 1: Start Garmin Express Software Look for the symbol as shown below and double-click it to start the Garmin Express software.



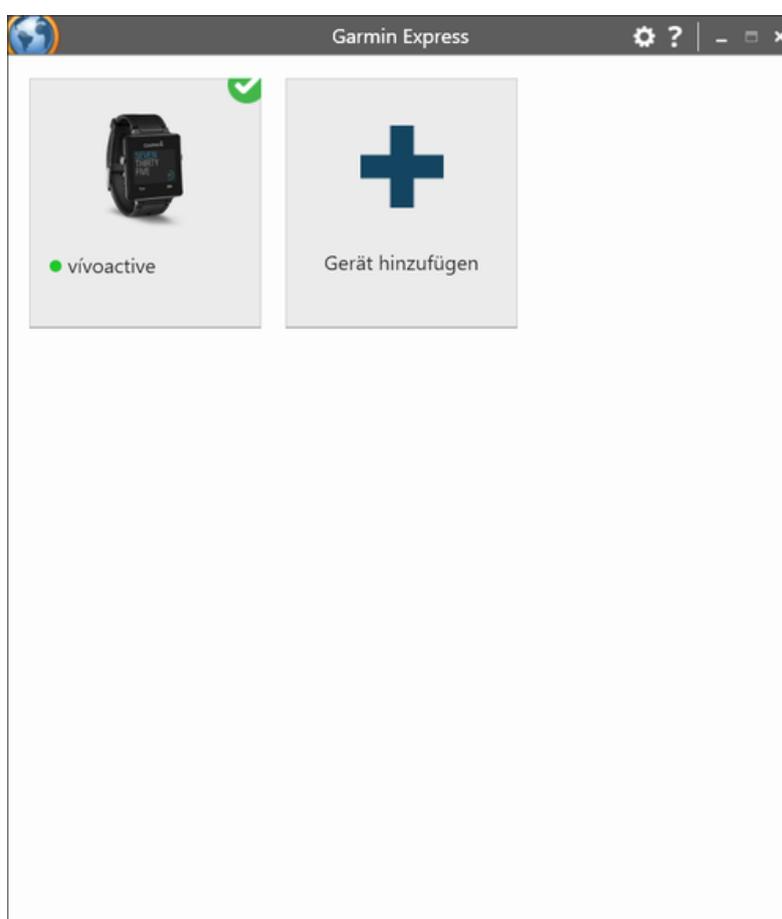
After that you should be able to see your Garmin device as shown in the picture below. If not, please add your device first. For details refer to the documentation provided by Garmin.





3.2 How to change the user settings

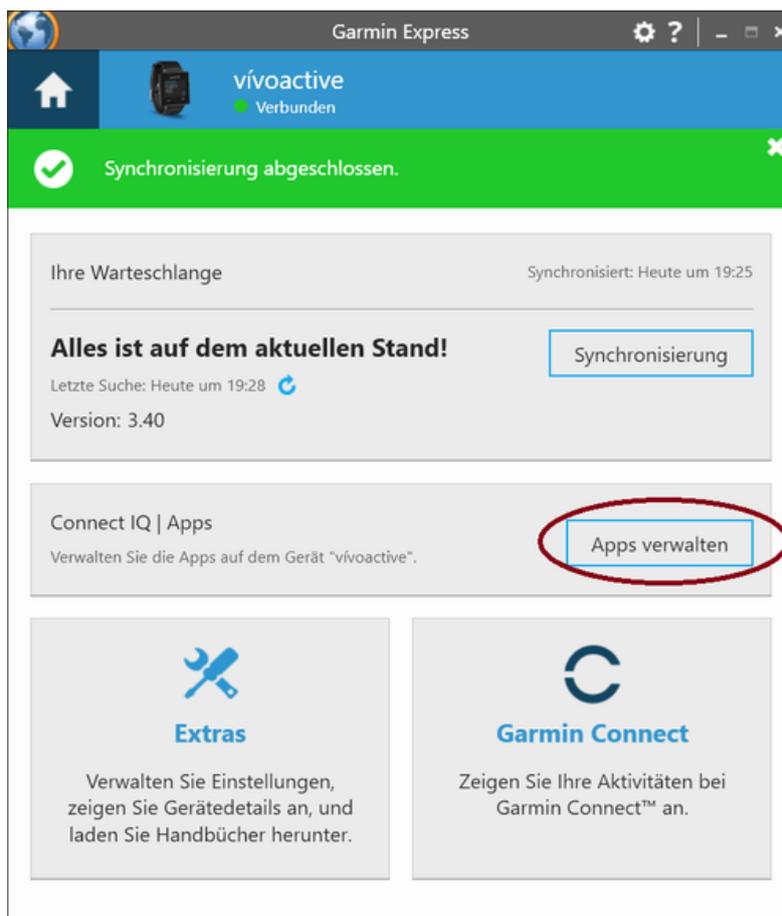
Step 2: Establish Connection between PC/MAC and the Garmin Device Connect your device via USB to your PC/MAC. Your device should be automatically detected and the Garmin Express software starts a synchronization process. When everything is ok, it is signaled via green lights as shown in the figure below. In case problems occur, please refer to the documentation provided by Garmin.



Step 3: Select Device Please click on the icon which shows your device. Following picture should appear:



3.2 How to change the user settings



Step 4: Find our Apps Please click the marked button in the picture above. A list of all installed applications on your device should appear. Please scroll up/down until you find the application you would like to configure as shown in the figure below:



3.2 How to change the user settings

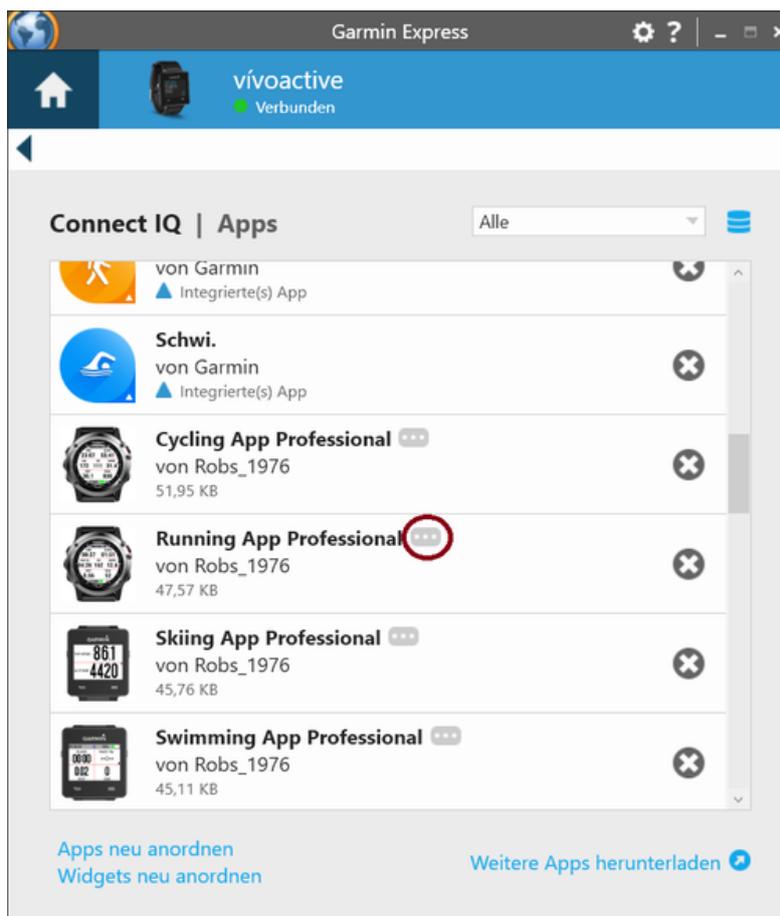


Figure 1 Default Garmin Express Software Version



3.2 How to change the user settings

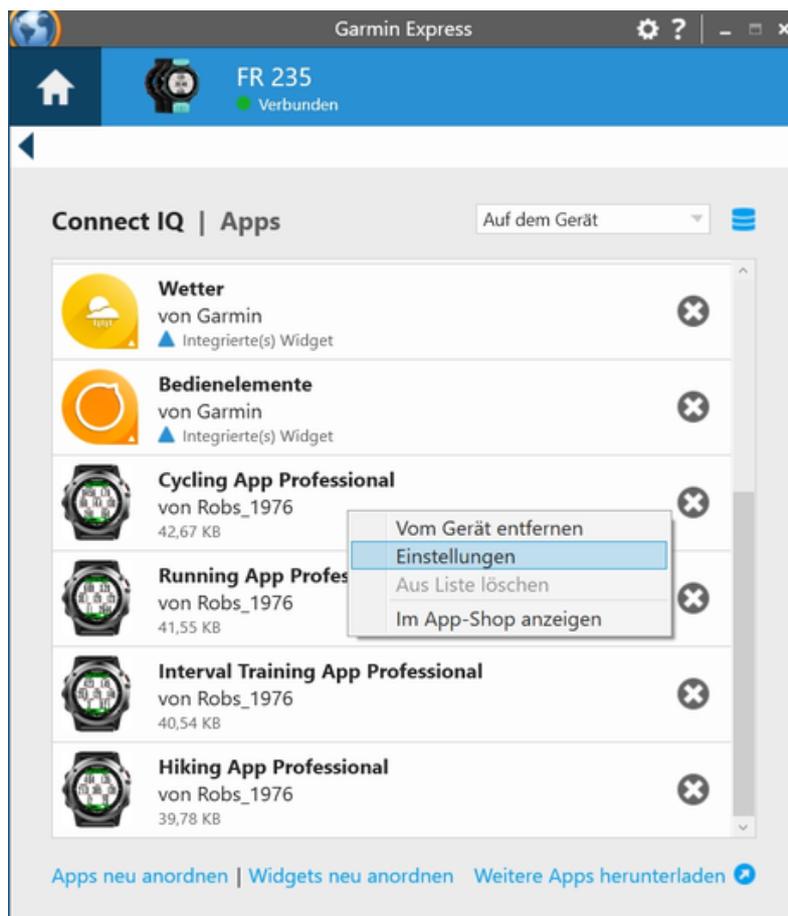


Figure 2 Some Garmin Express Software Versions

Step 5: Select App for Configuration Please select the application you would like to configure by clicking with the left mouse button to the three dots as marked in the left picture above to the app of your choice as shown in the right picture above. A context menu will be shown where you have to select "Settings"

Following screen should appear:



3.2 How to change the user settings

Garmin Express ✕

 **Cardio App Professional Einstellungen**

Registration Key for PREMIUM Version where ALL configurations apply. Get the registration key as EARLY BIRD by donating at www.rh-sports.at

Activity Type

Heart Rate Profile

Heart Rate Zone 1 (User-Defined Profile)

Heart Rate Zone 2 (User-Defined Profile)

Step 6: Change Configuration Please note that configuration changes ONLY apply on your Garmin device if you have entered the proper PREMIUM key in the field marked in the picture below. The key consists of two times four characters separated by a space in between. If the proper key is entered, please make the configurations according to your needs and press the "Save" button at the end. The Garmin Express Software will update the configurations on your device. In case of errors, please refer to the documentation provided by Garmin.



3.2 How to change the user settings

Step 7: Disconnect Device After the configuration changes were saved, disconnect your device from the PC/MAC.

Step 8: Start Application on Device Please start your application on your Garmin device. If you have the PREMIUM Version (key was correct), then your configuration changes should have been applied. If not, please refer to our Frequently Asked Questions.

3.2.2 Change user settings on mobile phone

All configurations can be changed on your mobile phone by using the Garmin Connect(TM) Mobile app which is available for Android-, iOS- and Windows-compatible devices. Before changing configurations, please make sure that you have installed the latest app version. The app can be downloaded from the appropriate App Store (e.g. Google Play, Apple Store, etc.)

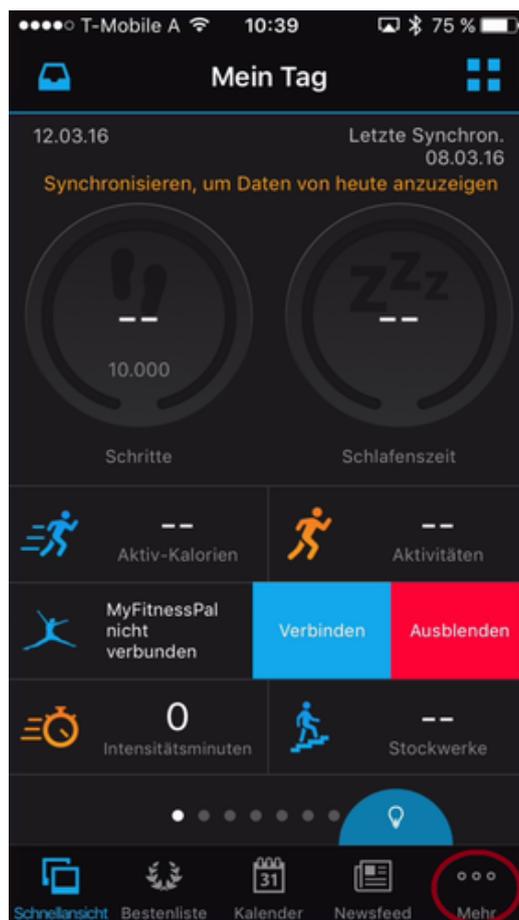
Step 1: Start Garmin Connect Mobile App Look on your mobile phone for the app with the symbol shown on the left side and click it to start the Garmin Connect™ Mobile app.



A similar window as shown below should appear.



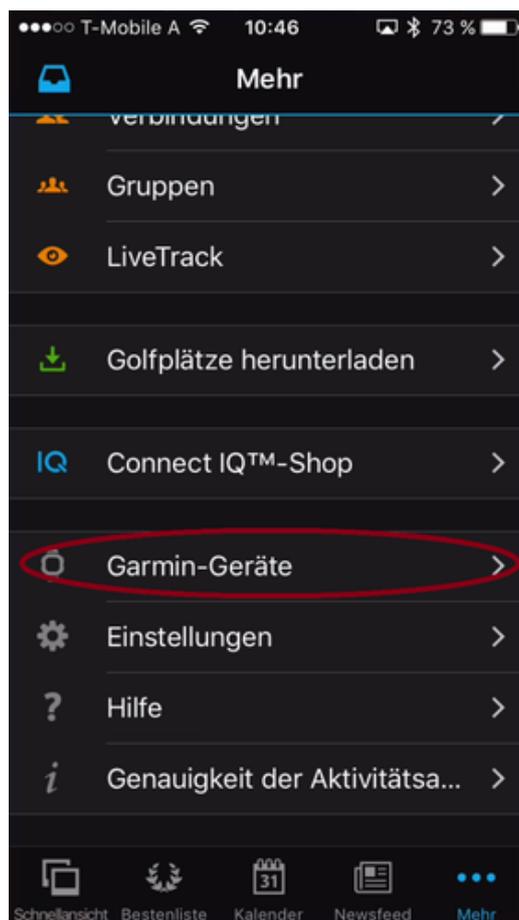
3.2 How to change the user settings



Step 2: Look for Garmin Devices List After pressing the button with the dots on the lower right side (as marked above) a new window appears. Please scroll down until you find the entry "Garmin Devices".



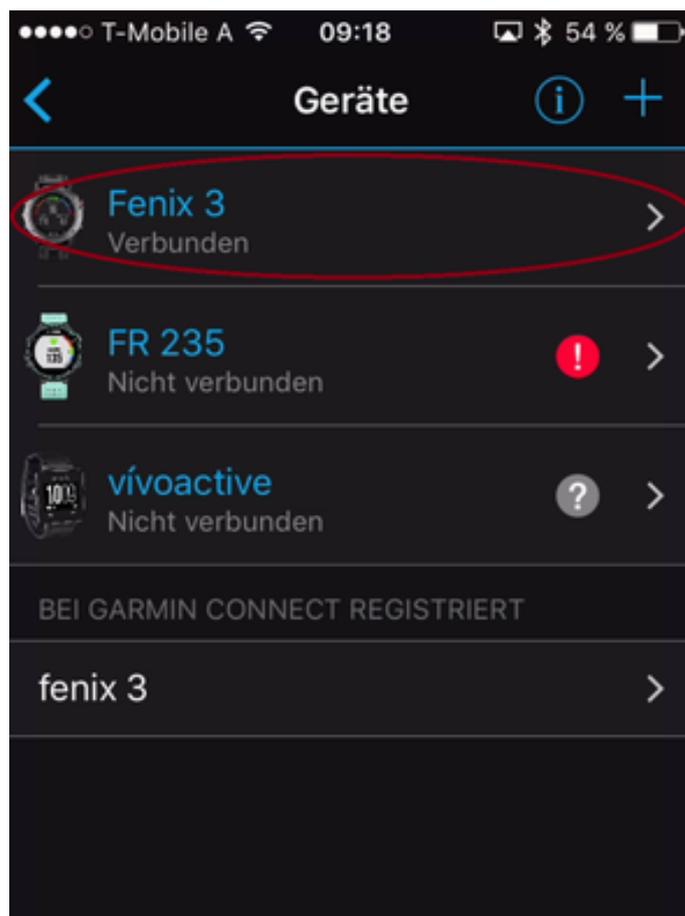
3.2 How to change the user settings



Step 3: Select your Garmin Devices After pressing the button marked above, a window with all your registered Garmin devices appears (see picture below). If you cannot find your device, please add it before by clicking on the upper right "+" sign. For further details, please refer to the documentation offered by Garmin. Then select one of your connected device.



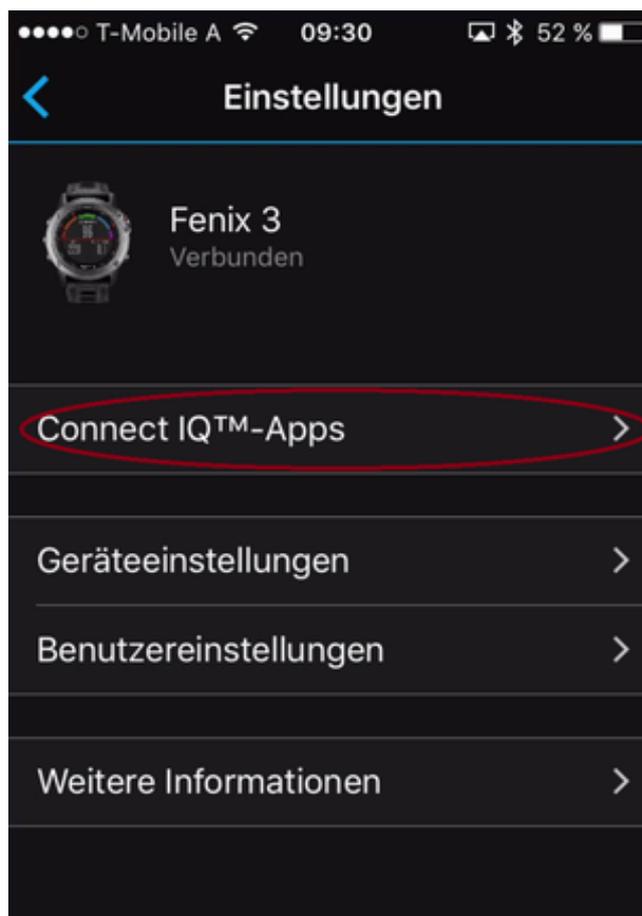
3.2 How to change the user settings



Step 4: Select Activities and Apps Please click the marked button in the picture below following by clicking to applications.

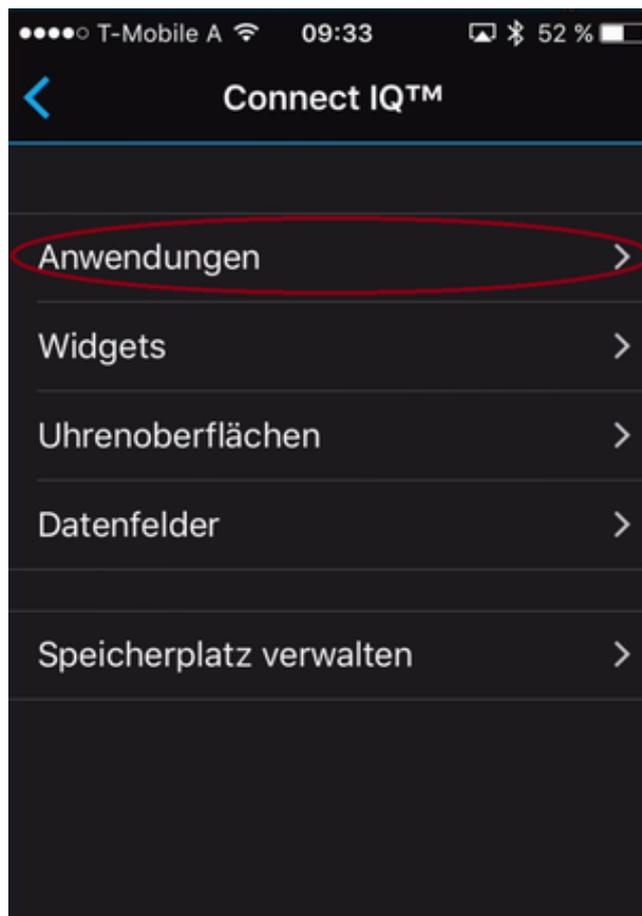


3.2 How to change the user settings





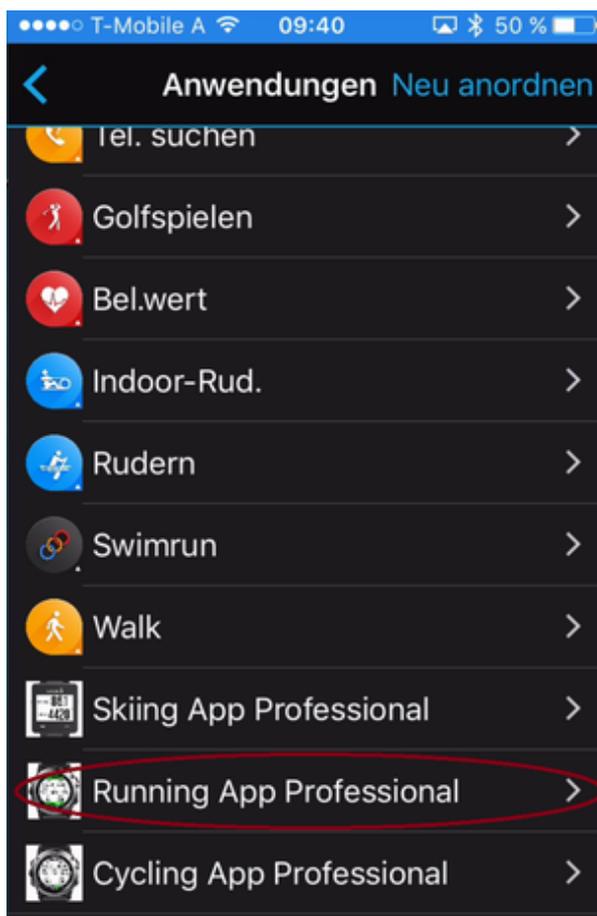
3.2 How to change the user settings



Step 5: Select an Application for Configuration A list of all applications appear. Please scroll up/down until you find the application you would like to configure as shown in the figure below:



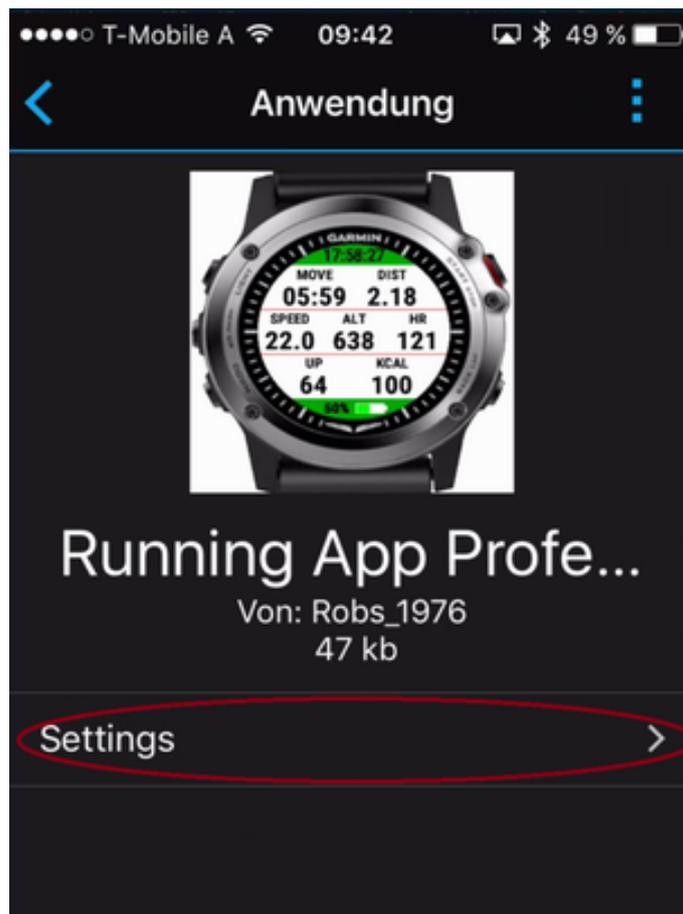
3.2 How to change the user settings



Step 6: Select Settings Please click on Settings as marked below.



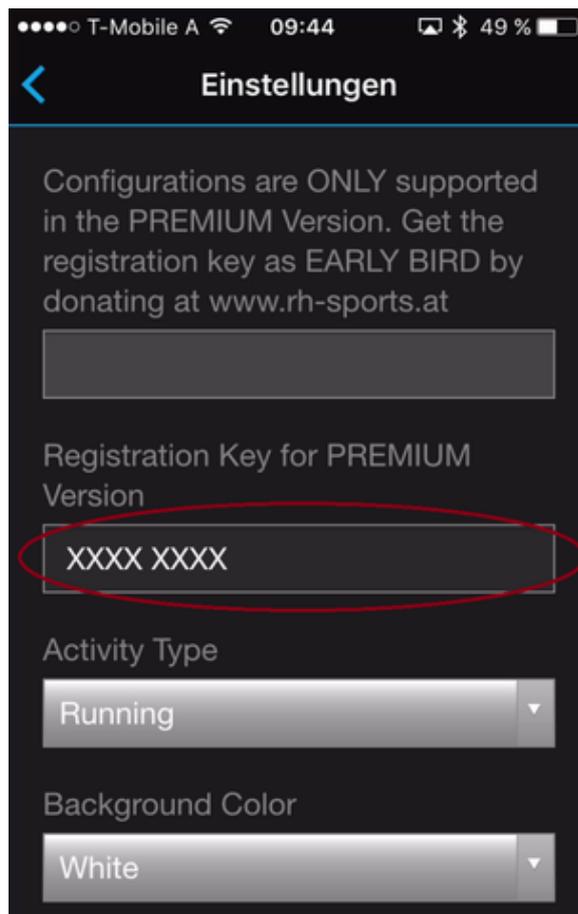
3.2 How to change the user settings



Step 7: Change Configuration Please note that configuration changes ONLY apply on your device if you have entered the proper PREMIUM key in the field marked in the picture below. The key consists of two times four characters separated by a space in between. If the proper key is entered, please make the configurations according to your needs.



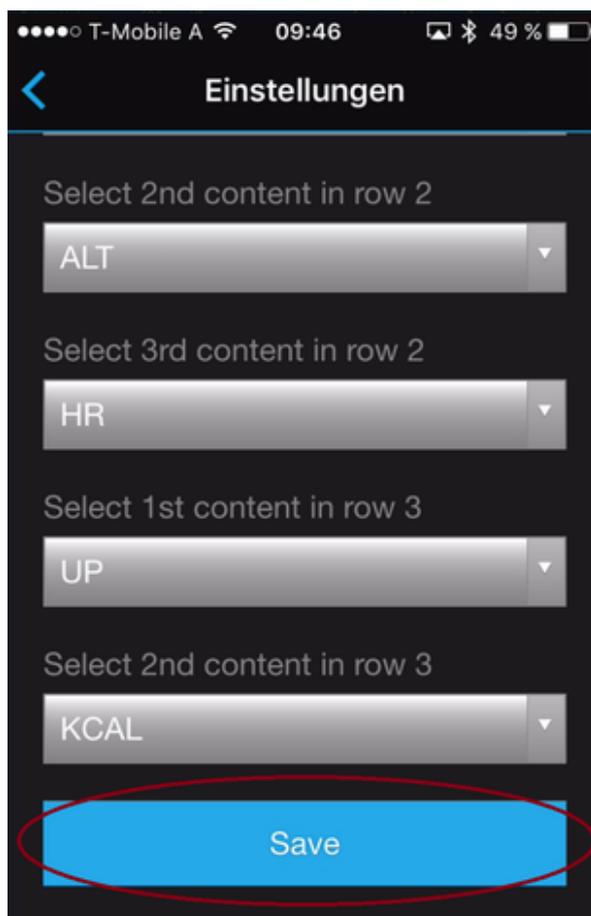
3.2 How to change the user settings



Step 8: Save Configurations Finally scroll down and press the "Save" button. The Garmin Mobile App will update your configurations on your device. In case of communication errors, please refer to the documentation provided by Garmin.



3.3 Start application



Step 9: Start Application on Device Please start your application on your device. If you have the PREMIUM Version (key was correct), then your configuration changes should have been applied. If not, please refer to our *Frequently Asked Questions*.

3.3 Start application

This section describes how to start Swimming App Professional on your Garmin device.

3.3.1 Find application on Garmin device

After installation the downloaded **Swimming App Professional** application can be found on the Garmin Watch by pressing the "Start" Button. Search for following icon and select it to start the application:





3.3 Start application

3.3.2 Application start

The application start process runs through following phases:

Phase 1:

In this phase the About screen with version information is shown for ~2 seconds (FREE version) respectively ~1 second (PREMIUM version). This phase cannot be aborted. On a D2™ Bravo is looks like that:



Phase 2:

In this phase information about your registration status is shown for ~6 seconds (FREE version). In the PREMIUM Version this screen is omitted for faster startup. This phase cannot be aborted. On a D2™ Bravo is looks like that:



Phase 3:

In this phase the sensor polling screen is shown as long as no proper GPS signal has been found or the timeout is reached. If a proper GPS signal is already available, then the screen is only visible for a short moment (~1 second). If not, then this screen is shown for at most ~35 seconds. During this phase the "BACK" button can be used to abort the polling sequence. On a D2™ Bravo is looks like that:



3.4 User Settings



Note

Please make sure that your GPS or ANT+ sensors are configured and enabled on your device. Otherwise certain data fields do not show useful/proper information.

Phase 4:

The application startup process is finished and the application can be used. On a D2™ Bravo it looks like that:



3.4 User Settings



Most configuration changes are **ONLY** possible in the **BETA** or **PREMIUM** version. Please donate first to get the registration key.



3.4 User Settings

3.4.1 Registration key for PREMIUM version

After successful donation you receive a mail with the PREMIUM activation key. Please copy the registration key exactly in the given format (XXXX XXXX) into this text field. The registration key evaluation is case sensitive.

Registration Key for PREMIUM Version where ALL configurations apply.
XXXX XXXX

Further registration hints can be found our [Frequently asked questions](#).

3.4.2 Activity type

This option allows you to select among different activity types. Depending on your selection the session data will be categorized. Please note that this configuration has to be done before manually starting a session the first time.

Following options are available:

- Open water swimming
- Open water swimming (with generic profile) to overcome Garmin limitation that build-in heart rate is not present during swimming on some devices.
- Lap swimming (GPS is disabled and manual LAP (= pool direction change) required)

Note

HR measurements are not supported for swimming activity type without external device by default from Garmin, therefore accuracy may be diminished while swimming!
This configuration feature is only available in the BETA and PREMIUM version!!!

3.4.3 Background color

This option allows you to select the background and text color.

Following options are available on devices with CIQ 1:

- White .. white background and black text color
- Black .. black background and white text color

Please refer to following picture for better illustration:



3.4 User Settings



On devices with CIQ2 and higher, following extended options are available:

- White background with black text color and grey header/footer
- Black background with white text and grey header/footer
- White background with black text and inverted colors in header/footer
- Black background with white text and inverted colors in header/footer

Please refer to following picture for better illustration:



Note

By default the option with "Black background with white header/footer" is used for best readability on all devices!
Devices with AMOLED display (e.g. Venu™ based devices) only support black background to save battery life time!



3.4 User Settings

3.4.4 Auto screen lock

This option allows you to enable the screen lock automatically when you start or resume a workout session. This is very helpful, especially on devices with touch screen, to avoid unintentional exits of the application.

Note

This configuration feature is only available in the BETA and PREMIUM version!!!

3.4.5 Auto scroll time

This option allows you to enable and configure the auto scroll feature (automatically cycles through data pages during workout) by entering the auto scroll time. This is the time in seconds when the application automatically scrolls to the next page.

Note

This configuration feature is only available in the BETA and PREMIUM version!!!

3.4.6 Pool length

This option allows you to configure the pool length in meters or yards depending on the unit settings for distance in your watch settings. This setting is only evaluated when the [activity type](#) "Lap Swimming" is selected.

Note

This configuration feature is only available in the BETA and PREMIUM Version!!!

3.4.7 Distance for PACE Calculation

This option allows you to configure the distance in meters or yard which is then used for PACE (=time until a given distance is achieved) calculations. E.g. if you would like to have the PACE for a 50 meter distance, please enter 50 in this field.

Note

This configuration feature is already available in the FREE version!!!

3.4.8 LAP features

The "LAP Mode" configuration option allows you to select the mode for the LAP feature. Following options are available:

- Feature disabled (no LAP support)
- Manual mode (new LAP has to be started manually)

For further details about the LAP features, please [click here](#).

Note

This configuration feature is only available in the BETA and PREMIUM version!!!



3.4 User Settings

3.4.9 ALERT features

The **ALERT1 mode** configuration option allows you to select a distance alert. Please note that this configuration has to be done before manually starting a session the first time. Following options are available:

- Feature disabled (no alerts is shown)
- Single distance alert (an alert is shown once when the user-defined distance is reached)
- Periodic distance alert (an alert is shown every time when the user-defined distance elapsed)

ALERT 1 Mode

Periodic Distance Alert

Distance value in km/miles for ALERT 1

1.0

The **ALERT2 mode** configuration option allows you to select a heart rate alert. Following options are available:

- Feature disabled (no alert is shown)
- Heart rate above limit (an alert is shown when the user-defined heart rate (in beats per minute) is exceeded).

ALERT 2 Mode

Heart Rate above Limit

Heart Rate Limit in bpm for ALERT 2

140

The **ALERT3 mode** configuration option allows you to select whether you would like to have an alert if no GPS fix was found for three minutes or not. This can help users to improve the accuracy of the distance measurement as this WILL NOT work if no GPS signal is found.

The **ALERT4 mode** configuration options allows you to select a timer alert. Please note that this configuration has to be done before manually starting a session the first time. Following options are available:

- Feature disabled (no alert is shown)
- Single timer alert (an alert is shown when the user-defined limit in minutes is reached)
- Periodic timer alert (an alert is shown every time when the user-defined limit in minutes is reached)

For further details about the ALERT features, please [click here](#).

Note

This configuration feature is only available in the BETA and PREMIUM version!!!



3.4 User Settings

3.4.10 Show/hide data pages

This option allows you to select whether data pages shall be visible or not to have a better overview about your really needed information.

Note

In the FREE Version the generic page with advertisement cannot be disabled!!!

3.4.11 2-field data pages

This option allows you to freely select the content of all 2-field data pages out of a huge list of all available data fields (even during the ongoing training session). This enables you to adjust all fields completely according to your personal preferences.

For an overview of available data fields, please [click here!](#)



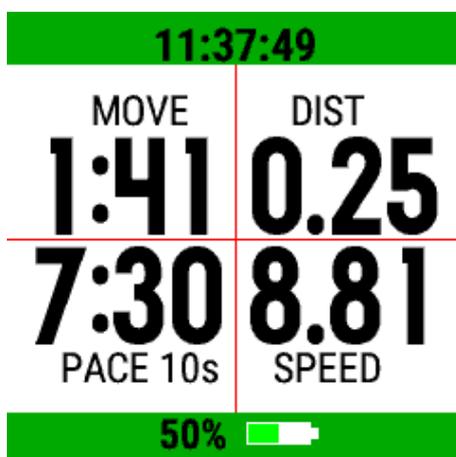
Note

This configuration feature is only available in the BETA and PREMIUM version!!!

3.4.12 4-field data pages

This option allows you to freely select the content of all 4-field data pages out of a huge list of all available data fields (even during the ongoing training session). This enables you to adjust all fields completely according to your personal preferences.

For an overview of available data fields, please [click here!](#)





4 Data fields

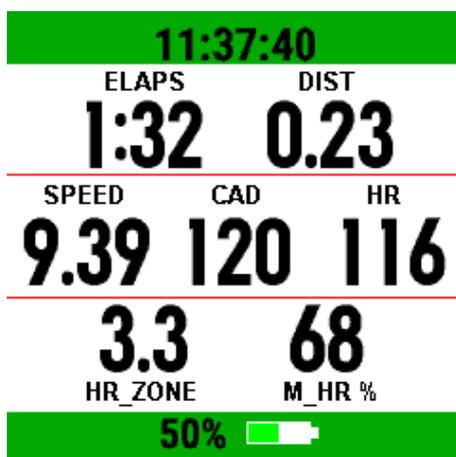
Note

This configuration feature is only available in the BETA and PREMIUM version!!!

3.4.13 7-field data pages

This option allows you to freely select the content of the 7-field data page out of a huge list of all available data fields (even during the ongoing training session). This enables you to adjust all fields completely according to your personal preferences.

For an overview of available data fields, please [click here!](#)



Note

This configuration feature is only available in the BETA and PREMIUM version!!!

30_DataFields

4 Data fields

The following table gives you an overview about all data fields of the **Swimming App Professional** application. Please note that some of them require the PREMIUM version.

Data field header	Data field description
A HR	Average heart rate information in bpm for the whole session.
A PACE	Average pace of the whole workout session for x meters or yards depending on your app settings for PACE calculation.
A SPEED	Average speed information of the whole session in meters or yards based on your watch unit settings for distance.
CL DIST	Current LAP distance in meters or yards based on your watch unit settings for distance.
CL PACE	Current LAP pace for x meters or yards depending on your app settings for PACE calculation.
CL SPEED	Current LAP speed information in m/s or y/s based on your watch unit settings for distance.
CL TIME	Current LAP time information in in the format mm:ss or m:ss.
DIST	Distance information in meters or yards based on your watch unit settings for distance.
ELAPS	Elapsed total session time in the format hh:mm, h:mm:ss or mm:ss.



4 Data fields

Data field header	Data field description
GPS FIX	Last detected GPS fix in the format hh:mm, h:mm:ss or mm:ss.
HR	Current heart rate information in bpm.
HR ZONE	<p>Current heart rate zone in the range of 0.0 to 6.0 with following meaning:</p> <ul style="list-style-type: none"> • 0.0 ... current heart rate below Zone 1 (minimum heart rate) • 1.0 - 1.9 ... current heart rate in Zone 1 • 2.0 - 2.9 ... current heart rate in Zone 2 • 3.0 - 3.9 ... current heart rate in Zone 3 • 4.0 - 4.9 ... current heart rate in Zone 4 • 5.0 - 5.9 ... current heart rate in Zone 5 • 6.0 ... current heart rate above Zone 5 (maximum heart rate). <p>The value is derived from your swimming heart rate profile settings configured at Garmin. Please click here and find further information in note 1.</p>
KCAL	Kilo-calories consumption for the whole session.
LAP	Current LAP number.
LL DIST	Last LAP distance in meters or yards based on your watch unit settings for distance.
LL PACE	Last LAP pace for x meters or yards depending on your app settings for PACE calculation..
LL SPEED	Last LAP speed information in m/s or y/s based on your watch unit settings for distance.
LL TIME	Last LAP time information in in the format mm:ss or m:ss.
M HR	Maximum heart rate information in bpm for the whole session.
M HR %	Current heart rate in percentage of maximum heart taken from the user settings depending on the application you are using. Please refer to HR ZONE for further details. Please click here and find further information in note 1.
M PACE	Maximum pace of whole workout session for x meters or yards depending on your app settings for PACE calculation.
M SPEED	Maximum speed information of the whole workout session in m/s or y/s based on your watch unit settings for distance.
PACE 10s	Current pace of the last 10 seconds (continuously calculated) for x meters or yards depending on your app settings for PACE calculation.
SPEED	Current speed information in m/s or y/s based on your watch unit settings for distance.
TEMP	Current temperature in celsius or fahrenheit depending on your watch unit settings for temperature. Please click here and find further information in note 2.
TEMP LOW	Lowest temperature in celsius or fahrenheit depending on your watch unit settings for temperature. Please click here and find further information in note 2.
TEMP AVG	Average temperature in celsius or fahrenheit depending on your watch unit settings for temperature. Please click here and find further information in note 2.
TEMP MAX	Maximum temperature in celsius or fahrenheit depending on your watch unit settings for temperature. Please click here and find further information in note 2.
TIME	Current time in 12/24h format based on your watch system settings.



5.1 Session features

4.1 Notes

Note 1

The EPIX watch does not support the Garmin SDK \geq 1.2.6. Thus it is not possible for an app to access the heart rate profiles. Therefore the heart rate zones are derived from the maximum heart rate configured by the user.

Note 2

Temperature sensor support in Garmin apps is only possible if either an ANT+ TEMPE sensor is available or the device itself has an internal temperature sensor. The ANT+ TEMPE has higher priority as the internal sensor. 40_Features

5 Features

This section describes the most important features of the **Swimming App Professional** in more detail. Here a short summary:

- [Session features](#)
- [Alert features](#)
- [LAP features](#)
- [Key lock feature](#)
- [Workout summary](#)

5.1 Session features

This section describes the workout session features which are very similar among all of our Garmin Connect IQ™ applications. The current workout session status is indicated by a specific sign. Following table provides an overview about all possible states of a workout session.

Session status	Visualization	Description
NOT STARTED	Blinking red border	Workout session (recording) was not started so far. This is the state after starting the app. Press the "START" button to start workout.
RUNNING	Constant grey header/footer	Workout session (recording) is running. This is the case after you manually pressed the "START" button. If the Auto-Stop feature is enabled, the speed must be above the specified limit, otherwise the app automatically enters AUTO-STOP mode.
PAUSED	Blinking red stop sign	Workout session (recording) was manually paused in the menu by selection of "Pause Session". It can be resumed at any point in time by entering the menu again and selecting "Resume Session". Please be aware that no session recording takes place in this state.

Start a workout session (NOT STARTED)

After starting the app the workout session status is "NOT STARTED" as the session has to be manually started by the user. This can be done by pressing the "START" button. This state is visualized by showing a blinking red boarder every two seconds as illustrates in following picture:



5.1 Session features



Workout session running (RUNNING)

After pressing the "START" button the first time after app start, the session status changes from "NOT STARTED" to "RUNNING". This is illustrated by a constant grey header/footer as shown in the following picture:



Manually paused session (PAUSED)

The user can manually pause the workout session at any time if the session status is in "RUNNING" or "AUTO-STOP" mode. This can be done by pressing the "START" button. A menu is shown where the user can select among following choices by either pressing the touch screen or by up/down or left/right buttons:

User selection	Description
Resume	Start or resume workout session
Pause	Pause workout session. This allows the user to navigate through the data pages. The workout session can be resumed again at any time by pressing "START" button and select "Resume".
Save and Exit	Save workout data and close the application. After synchronization with your watch or via Garmin Express Software the workout data will be uploaded to the Garmin cloud and will be visible via Garmin Connect.
Discard and Exit	Discard session data and close the application. Please note that all the collected workout data is lost!

A stopped session is indicated by a blinking red boarder and pause sign in the middle of the screen as shown in following figure:



5.2 ALERT features



5.2 ALERT features

Already the FREE Version of **Swimming App Professional** provides you basic ALERT features, e.g. to indicate the start and stop of the session recording.

Following figure illustrates how it looks on a Forerunner® 235:



In the BETA and PREMIUM Version of the **Swimming App Professional** following additional ALERT features are provided:

- [Distance alerts](#)
- [Heart rate alerts](#)
- [GPS fix alerts](#)
- [Timer alerts](#)

5.2.1 Distance alerts

In order to use this feature, please configure the proper "ALERT1 Mode" and "ALERT2 Mode" according to following tables:

ALERT1 mode	Description
Disabled	Feature is disabled.
Single distance alert	In this mode a distance alert is shown once when the user-defined distance (in km or miles) is reached.
Periodic distance alert	In this mode a distance alert is shown every time when the user-defined distance (in km or miles) elapsed.

Following figure illustrates how it looks on a Forerunner® 235:



5.2 ALERT features



5.2.2 Heart rate alerts

ALERT2 mode	Description
Disabled	Feature is disabled.
Heart rate above limit	In this mode a heart rate ALERT is shown when the user-defined limit (in beats per minute) is exceeded. If such an alert is shown then you have ~30 seconds time for reduce the heart rate below the limit, else a new alert is shown again.

Following figure illustrates how it looks on a Forerunner® 235:



5.2.3 GPS fix alerts

ALERT3 mode	Description
Disabled	Feature is disabled.
Enabled	An alert is shown if no GPS fix detected in the last three minutes.

5.2.4 Timer alerts



5.3 LAP features

ALERT4 mode	Description
Disabled	Feature is disabled.
Single timer alert	In this mode a timer alert is shown once when the user-defined time (in minutes) is reached.
Periodic timer alert	In this mode a timer alert is shown every time when the user-defined time (in minutes) is reached. In the alert the accumulated time is shown.

5.3 LAP features

This app offers different LAP features. In order to use them, please configure the proper LAP mode and freely assign the LAP specific data fields in the 2-, 4- or 7-Field data pages according to your personal needs.

Currently only the manual LAP mode is supported in LAP swimming.

Note

When the manual LAP feature is activated the user must press a button upon pool direction change in order to get metrics like distance, speed, etc.

Additionally the [pool length](#) must be configured properly in the app settings.

LAP mode	Description
Feature disabled	LAP feature is disabled.
Manual mode	In this mode the LAP number increases each time when you manually press the "BACK" or "LAP" button on your watch. The feature only works when the workout session is in running or auto-stop mode.
Auto mode (distance-based)	Currently in work and not working!!!

Following figure illustrates how it looks on a Forerunner® 235:



LAP-Related Data Fields Following LAP-related data fields are available which can be freely assigned via configuration in the PREMIUM Version to any data field of the 2-, 4- or 7-Field Data Pages:

Field	Description
LAP	Current LAP number



5.4 Key lock feature

Field	Description
CL DIST	Current LAP distance in meters or yards
CL PACE	Current LAP pace in the format mm:ss
CL SPEED	Current LAP speed (average) in km/h or mi/h
CL TIME	Current LAP time in the format hh:mm or mm:ss
LL DIST	Last LAP distance in meters or yards
LL PACE	Last LAP pace in the format mm:ss
LL SPEED	Last LAP speed (average) in m/s or y/s
LL TIME	Last LAP time in the format hh:mm or mm:ss

Additional information Following additional LAP-feature related information is provided:

- ALERT information when new LAP started

5.4 Key lock feature

When the session is started, the key lock feature can be activated by following sequence:

- Press "START" button.
- Move down until "Lock Keys" appears in the menu via "UP" and "DOWN" buttons.
- Select "Lock Keys" by pressing "START" button.

When the key lock feature is active, only the "START" button will be handled anymore, all other buttons and inputs are ignored.

To disable the key lock feature, please perform following steps:

- Press "START" button.
- Move down until "Unlock Keys" appears in the menu via "UP" and "DOWN" buttons.
- Select "Unlock Keys" by pressing "START" button.

5.5 Workout summary

After saving the workout session a workout summary is shown with following information:

- Duration in the format m:ss, mm:ss, h:mm:ss or hh:mm:ss.
- Distance in meter or yard.
- Average heart rate in bpm.
- Calories consumption in kcal.

50_Sensors

6 Sensors

This section gives an overview about the supported [GPS](#) and [ANT+](#) sensors in the **Swimming App Professional**.

6.1 Satellite quality

The number of green bars indicates the satellite signal quality.



6.2 ANT+ sensors



Following table describes the meaning in more detail:

Number of green bars	Meaning
0	No satellites available
1	Satellite quality is based on the last known fix
2	Satellite quality is poor (Only a 2-D fix is available, likely due to a limited number of tracked satellites)
3	Satellite quality is usable (A 3-D fix is available, with marginal HDOP (horizontal dilution of precision))
4	Satellite quality is good (A 3-D fix is available, with good-to-excellent HDOP)

6.2 ANT+ sensors

The **Swimming App Professional** supports following ANT+ sensors:

- ANT+ heart rate sensor
- ANT+ temperature Sensor

Note

Please pair the ANT+ sensor(s) before starting the application in your watch settings!
Some sensors support ANT+ and BLE. Please make sure you paired the sensors for ANT+!

60_FAQ

7 Frequently Asked Questions

7.1 Wrong distance information

This application uses GPS to derive information like speed, distance and pace when the [activity type](#) "Open Water Swimming" is selected. If you have your watch on your wrist then there are two main factors which influences especially the distance information:



7.2 What is the purpose of the FREE version?

- the watch is partly under water where the GPS does not provide reliable data.
- the watch moves forward and backward. The distance is a straight line between 2 GPS points. Therefore the distance can be significantly higher.

Our **Swimming App Professional** does not use the default Garmin algorithms for calculating distance, speed and pace because they are very unprecise. We use our own algorithms which filter the GPS information for more precise results. This should improve both of the above problems to an acceptable accuracy. Short-term we are confident to show a distance of acceptable precision in our app, but we can't influence all metrics which are stored on Garmin Connect as Garmin has the fingers on that.

Especially following is out of our control:

- **Summary:** After saving the workout data Garmin has full control on what they show in the summary in Garmin Connect. Here the data is derived from there algorithms.
- **GPS track:** completely controlled by Garmin. Due to instabilities under water very often a zick-zack track is visible.
- **Altitude information:** We know that this kind of information makes no sense for pool or open water swimming but Garmin somehow decided to store this information as well.

Our app shows the proper information in the app during the workout session and it stores the distance information in Garmin Connect. You can find that when looking there not in the summary but under Garmin IQ. In future further data (like pace) will be stored there as well.

Note

Garmin offers a feature (Fit contributor with native values) to overwrite values calculated by Garmin with other values in the FIT file format 2. But Garmin does not support their own invented feature in Garmin Connect. Strava currently does not support this feature either.

We know it is not convenient, but the best distance accuracy results can be achieved when putting the watch under your swim cap during the workout session.

7.2 What is the purpose of the FREE version?

The FREE Version is fully functional and offers you a basic feature set which allows you to test the application or data field intensively without any risk on your Garmin device. If you like it and would like to have a more advanced feature set, please donate to upgrade to the PREMIUM Version.

7.3 How to upgrade to the PREMIUM version?

If you like this application or data field and would like to have more advanced features as well, please donate to upgrade to the PREMIUM version. After donation we will sent you the unlock key immediately.

7.4 I did not received the unlock keys for the PREMIUM Version after donation?

After successful donation you immediately will get a mail to the mail address used in PAYPAL. It contains the unlock keys and the activation information for the selected PREMIUM version(s). The information is provided as attached PDF. If this is not the case, please do following:

- Check whether you used the right mail address. It is the one you are using in PAYPAL.
- Check whether the mail went to your JUNK or SPAM folder.
- Write a mail to rh-sports@gmx.at to request the keys.



7.5 What to do if after entering the key, still the FREE version is active?

7.5 What to do if after entering the key, still the FREE version is active?

The FREE version is active if you see the "Please donate as EARLY BIRD" message upon application start. Some users reported that the FREE version is still active after entering the registration key and synchronization. In all known cases the key was entered properly.

Here some important registration hints:

Hint 1: Please copy the registration key with 9 characters length exactly in the given format (XXXX XXXX) into this text field. The registration key is a hexadecimal number (numbers from 0 to 9 and big letters from A to F) and the evaluation is case sensitive. No spaces are allowed at the beginning or end. One space is mandatory after the fourth character.

Hint 2: Users reported that on some devices (e.g. Android-based mobile phones) more than one space is added when copying the key to the app settings field. Please make sure that there is exactly one space after the fourth character.

Hint 3: Please synchronize the settings with your watch afterwards. If you use Garmin Express software on PC or M↔AC, please disable the bluetooth connection between your mobile phone and watch during configuration as otherwise the settings might be overwritten again.

Hint 4: Sometimes it is necessary to reboot the watch once (for whatever reason).

Hint 5: Please use the right key for the selected application or data field.

Hint 6: Please make sure that there are no floating point values in the app settings anymore (except for Swimming App where they are allowed).

7.6 What to do if GPS is not found upon start?

Sometimes it happens that GPS is not found during app startup and the app polls infinitely for a proper GPS signal. According to customer feedback this happens when the Garmin (sensor) firmware was updated. This is out of our control. Following workaround seems to do the trick:

- Once start a Garmin native app like running, cycling, etc.
- Wait until GPS is found.
- Stop the Garmin native app and start one of our apps.
- GPS should be found soon.

Note

Indoor it is sometimes very difficult for a device to find a proper GPS signal. So please make sure you do it outdoor.

7.7 How to enable GPS, GLONASS or GALILEO?

Garmin does not allow Connect IQ applications to controll that. Following steps seems to do the trick:

- Once start a Garmin native app like running, cycling, etc.
- Select the required positioning sources in the settings of the native app.
- Stop the Garmin native app and start one of our apps.
- According to our information the selected sources of the native app are then used for our apps as well.



7.8 What to do in case of a app or data field crash upon start?

7.8 What to do in case of a app or data field crash upon start?

If you see following icon on your Garmin device upon application start or when you add a data field:



please completely uninstall and reinstall the application or data field. The setting file changed and the automated Garmin install is not replacing the setting file.

7.9 What to do if settings cannot be changed?

Currently there is a show stopper problem in the Garmin mobile app for iOS that user settings cannot be changed. Garmin is aware of the problem and made an official statement with a possible work-around. [For further details, please click here.](#)

We have tested the workaround with following sequence on an iPhone 7 and it worked properly:

- Delete app with Garmin Connect app.
- Synchronize.
- Once reboot the watch.
- Install the app again with the new Connect IQ app.
- Configure it with the new Connect IQ app.

Note

Unfortunately this is out of our control and we have to wait until Garmin fixed that problem.

7.10 User settings lost after update?

Unfortunately Garmin might reset the user settings when updating the Garmin firmware version of the application or data field. This leads to the problem that all configurations are lost and the FREE Version is active again. I'm testing some work-arounds but so far I was not successful. As soon as I have updates, I will publish them here.



7.11 Activity not visible on Garmin Connect?

7.11 Activity not visible on Garmin Connect?

There could be several reasons why an activity is not visible on Garmin Connect:

- Activity recording was never started.
- Activity recording was not saved upon leaving the Garmin native app.
- No synchronization between device and Garmin Connect happened.
- Especially in indoor sessions it can happen that the device stays in Auto-Stop Mode. Please deactivate this feature in the user settings.
- Especially in indoor sessions no movements might be detected by the device. Thus distance stays 0. In such a case no activity results are stored on Garmin Connect.

7.12 Activity tracking and fitness metric accuracy

The app uses the Garmin API's to retrieve most of the information and cannot be more precise than the data delivered from there. Garmin states following about activity tracking and accuracy:

- "Garmin devices are intended to be tools to provide you with information to encourage an active and healthy lifestyle. Garmin wearables rely on sensors that track your movement and other metrics. The data and information provided by these devices is intended to be a close estimation of your activity and metrics tracked, but may not be precisely accurate. Garmin wearables are not medical devices, and the data provided by them is not intended to be utilized for medical purposes and is not intended to diagnose, treat, cure, or prevent any disease. Garmin recommends you consult your doctor before engaging in any exercise routine."

7.13 Accuracy of wrist-based heart rate (Elevate)

The app uses the Garmin API to retrieve heart rate related data cannot be more precise than the data delivered from there. Regarding wrist-based accuracy, Garmin states following:

- "The optical wrist heart rate (HR) monitor for Garmin wearables is a valuable tool that can provide an accurate estimation of the user's heart rate at any given point in time. The optical HR monitor is designed to attempt to monitor a user's heart rate 24 hours a day, 7 days a week. The frequency at which heart rate is measured varies, and may depend on the level of activity of the user. When you start an activity with your Garmin optical HR device, the optical HR monitor measures more frequently. The intent is to provide the user with a more frequent and accurate heart rate reading during a given activity."
- "While our wrist HR monitor technology is state of the art, there are inherent limitations with the technology that may cause some of the heart rate readings to be inaccurate under certain circumstances. These circumstances include the user's physical characteristics, the fit of the device and the type and intensity of the activity as outlined above. The HR monitor data is not intended to be used for medical purposes, nor is it intended to diagnose, treat, cure or prevent any disease or condition."
- "Wrist heart rate accuracy during swimming is very limited. Garmin does not recommend using wrist heart rate during swimming activities and on some products, wrist heart rate monitoring is disabled while swimming. Garmin recommends using HRM-Swim™ or HRM-Tri™ heart rate monitors with compatible devices to track heart rate while swimming."



7.14 Is there a way to enable/disable GLONASS?

7.14 Is there a way to enable/disable GLONASS?

The GPS/GLONASS setting is based on what was last used in the Garmin native apps (like cycling, running). Garmin does not allow Connect-IQ apps or data fields to change this setting.

7.15 Why is an update of the firmware required?

Some users reported that an update of the firmware is requested even though the latest firmware is already installed. In such a case, please try out following options:

- Update your Garmin Express or Garmin Mobile software (if you don't have the latest versions installed).
- Reboot your device once.

7.16 What to do if the application does not work?

We do our best to test the application as good as possible. As we do not have all physical available devices and all ANT+ sensors with all combinations of Garmin firmware versions, we have to do most of the tests on the simulator provided by Garmin. If you detect problems with our application on your Garmin watch, please provide us detailed feedback via the official bug report form in order we are able to understand and reproduce your problem. This gives us a fair chance to provide a fix as soon as possible.

Please [press here](#) to get the bug report dialog.

THANK YOU VERY MUCH for YOUR SUPPORT!!!! 98_Backlog

8 Backlog

This section shows the backlog with potential features planned for upcoming releases:

- Allow triggering new lap on button press
- Set pool length (:poolLength) when creating a session in LAP swimming
- Store further metrics in FIT file
- Allow user to directly configure certain options on watch

Note

Please note that there is no guarantee if and when the feature will be implemented!

99_ChangeHistory

9 Version history

This section lists the version history of the latest already released versions.



Table 13 Version history

Version	Date	Change description
3.7.1	23.12.2024	Several GUI improvements
3.7.0	07.10.2024	Support for Fenix® 8 43mm added Support for Fenix® 8 47 / 51mm added Support for Fenix® 8 Solar 47mm added Support for Fenix® 8 Solar 51mm added Support for Fenix® E added Support for Enduro™ 3 added
3.6.1	12.05.2024	Stability improvements
3.6.0	24.04.2024	Hotfix for app setting problems on newer devices Hotfix for language problems Build with latest SDK 7.1.1
3.5.5	06.04.2024	Support for Forerunner® 165 and 165 Music added
3.5.0	29.03.2024	Additional satellite configurations added Several GUI improvements
3.4.5	19.12.2023	Support for Descent™ Mk3 43mm added Add support for configuration options in german language Improve configuration description in english language
3.4.0	02.12.2023	Support for Venu® 3 added Support for Descent™ Mk3 51mm added Support for Fēnix® 7 Pro (no Wi-Fi) added Support for Fēnix® 7x Pro (no Wi-Fi) added
3.3.5	01.11.2023	Support for Venu® 3s added Support for Vivoactive® 5 added
3.3.1	23.09.2023	GUI improvements
3.3.0	08.08.2023	Support for Approach® S70 47mm added Support for Epix™ Pro (Gen 2) 51mm added Support for Forerunner® 265 and 265s added Support for Forerunner® 965 added
3.2.1	27.07.2023	GUI improvements
3.2.0	22.07.2023	Change background color to "Black with white header/footer" for better visibility on some devices Background color can be configured in the FREE version as well Support for Approach® S70 42mm added Support for Epix™ Pro (Gen 2) 42mm and 47mm added Support for MARQ® (Gen 2) Athlete / Adventurer / Captain / Golfer / Aviator added
3.1.1	11.07.2023	Support for Fenix® 7 Pro, Fenix® 7s Pro and Fenix® 7x Pro added
3.1.0	04.03.2023	Several adaptations to work with new Garmin SDK 4.2.1 Workaround implemented for FR645 and FR645m to avoid app crashes upon start due to font problems GPS polling improvements for some older CIQ1 devices
3.0.5	14.10.2022	Support for Venu™ SQ 2 and Venu™ SQ 2 Music added GPS acquisition improvements upon startup GUI improvements
3.0.2	12.08.2022	Several GUI and stability improvements
3.0.1	19.07.2022	Hotfix to avoid app crashes on VenuSQ
3.0.0	09.07.2022	Support for Forerunner® 255, 255 Music, 255s and 255s Music added Support for Forerunner® 955 / Solar added



9 Version history

Version	Date	Change description
2.9.0	29.05.2022	Add calories information in workout summary Avoid disabling of GPS on session pause Support for D2™ Mach 1 added Support of german language in app settings Several GUI and stability improvements
2.8.0	26.03.2022	Allow user of devices with CIQ2 or higher to select more background and header color schemes GUI improvements

Note

The version history for older releases is available on request only!