



Swimming App Professional User Manual

A Comprehensive Guide

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1. User documentation

Welcome to the **Swimming App Professional** user documentation



[Download PDF](#)

2. English

2.1 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.

2.2 Disclaimer

2.2.1 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- may be out of date where we make no commitment to update the it right away.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 of 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.

2.2.2 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](#).

2.2.3 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."

2.2.4 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."

2.2.5 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!

Note:

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

2.3 Requirements

Supported Garmin devices

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

- Approach® S50, S60 and S62
- Approach® S70 42mm
- Captain Marvel
- D2™ Air and Air X10
- D2™ Bravo
- D2™ Bravo Titanium
- D2™ Charlie
- D2™ Delta, Delta PX and Delta S
- D2™ Mach 1 and Mach 2
- Darth Vader™
- Descent™ G2
- Descent™ MK1, MK2 and MK2s
- Descent™ Mk3 51mm
- Enduro™ and 3
- Epix™ 2, Pro (Gen 2) 42mm and 47mm
- Fēnix® 3, HR and Chronos
- Fēnix® 5, 5S and 5X
- Fēnix® 5 Plus, 5S Plus and 5X Plus
- Fēnix® 6 and 6 Pro
- Fēnix® 6s and 6s Pro
- Fēnix® 6x Pro, 6x Sapphire, 6x Pro Solar and tactix® Delta Sapphire
- Fenix® 7, 7s and 7x
- Fenix® 7 Pro, 7s Pro and 7x Pro
- Fēnix® 7 Pro (no Wi-Fi) and 7x Pro (no Wi-Fi)
- Fenix® 8 43mm, 47mm and 51mm
- Fenix® 8 Solar 47mm and 51mm
- Fenix® 8 Pro 47mm
- 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® 570 42mm and 47mm, 630, 645, 645 Music, 735XT, 935, 945, 945 LTE, 955 and 955 Solar, 965 and 970
- Instinct® 3 AMOLED 45mm and 50mm
- Instinct® Crossover AMOLED
- MARQ™ Adventurer, Athlete, Aviator, Captain, Commander, Driver, Expedition and Golfer
- MARQ® (Gen 2) Athlete, Adventurer, Captain, Golfer and Aviator
- Rey™
- Venu™ and Mercedes-Benz® Collection
- Venu™ SQ and SQ Music
- Venu™ SQ 2 and SQ 2 Music
- Venu™ 2, 2 Plus and 2s
- Venu® 3 and 3s
- Venu® 4 41mm and 45mm

- Vivoactive™
- Vivoactive™ HR
- Vivoactive® 3, 3 Music, 3 Music LTE and 3 Mercedes-Benz® Collection
- Vivoactive® 4 and 4s
- Vivoactive® 5 and 6

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:

- V1.3.0
 - ForeAthlete® 230J, 235J, 630J and 920XTJ
 - Forerunner® 230, 235, 630 and 920XT
- V1.4.0
 - Vivoactive™
- V1.4.1
 - D2™ Bravo and Bravo Titanium
 - Fēnix® 3 and 3 HR
- V2.4.1
 - Approach® S60
 - ForeAthlete® 735J
 - Forerunner® 735XT
 - Vivoactive® HR
- V3.0.0
 - Approach® S62
 - D2® Charlie
 - D2® Delta, Delta PX and Delta S
 - Descent™ MK1
 - Vivoactive® 3 Mercedes-Benz® Collection
- V3.1.0
 - Descent™ MK2
 - Fēnix® Chronos
 - Fēnix® 5, 5S, 5X and 5 Quatix
 - Fēnix® 5 Quatix
 - Fēnix® 5 Plus, 5S Plus and 5X Plus
 - Forerunner® 935
 - Forerunner® 645 and 645 Music
 - Vivoactive® 3

• V3.2.0

- 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 and 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 SQ Music
- Venu™ and Mercedes-Benz® Collection
- Vivoactive® 3 Music and 3 Music LTE
- Vivoactive® 4s and 4

• V3.3.0

- Forerunner® 945 LTE

• V4.0.0

- D2™ Air X10
- D2™ Mach 1
- Venu™ 2, 2 Plus and 2s

• V4.1.0

- Fenix® 7, 7s and 7x
- Forerunner® 255, 255 Music, 255s and 255s Music
- Forerunner® 955 and Solar
- Venu™ SQ 2 and SQ 2 Music

• V4.2.0

- Approach® S70 42mm and 47mm
- Descent™ Mk3 51mm
- Epix™ 2
- Epix™ Pro (Gen 2) 42mm, 47mm and 51mm
- Fenix® 7 Pro, 7s Pro and 7x Pro
- Fēnix® 7 Pro (no Wi-Fi) and 7x Pro (no Wi-Fi)
- Forerunner® 165 and 165m
- Forerunner® 265 and 265s
- Forerunner® 965
- Venu® 3 and 3s
- Vivoactive® 5

- V5.0.0
 - Approach® S50
 - Descent™ G2
 - Enduro™ 3
 - Fenix® 8 43mm
 - Fenix® 8 47mm and 51mm
 - Fenix® 8 Solar 47mm and 51mm
 - Fenix® E
 - Instinct® 3 AMOLED 45 and 50mm
 - Vivoactive® 6
- V5.1.0
 - Fenix® 8 Pro 47mm
 - Fenix® 8 Pro 47mm, 51mm and MicroLED
 - Forerunner® 570 42mm and 47mm
 - Forerunner® 970
 - Instinct® Crossover AMOLED
- V5.2.0
 - D2™ Mach 2
 - Venu® 4 41mm and 45mm

Note:

Please also take a look to the [Garmin feature set description for your device](#).

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.

2.3.1 Sensor requirements

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

2.4 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](#)

2.4.1 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 ConnectIQ mobile app on your mobile phone.

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

Here a YouTube video describing the installation process in more detail:



[Click here to watch the video](#)

2.4.2 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 or on your mobile phone:

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

Change user settings on PC or MAC

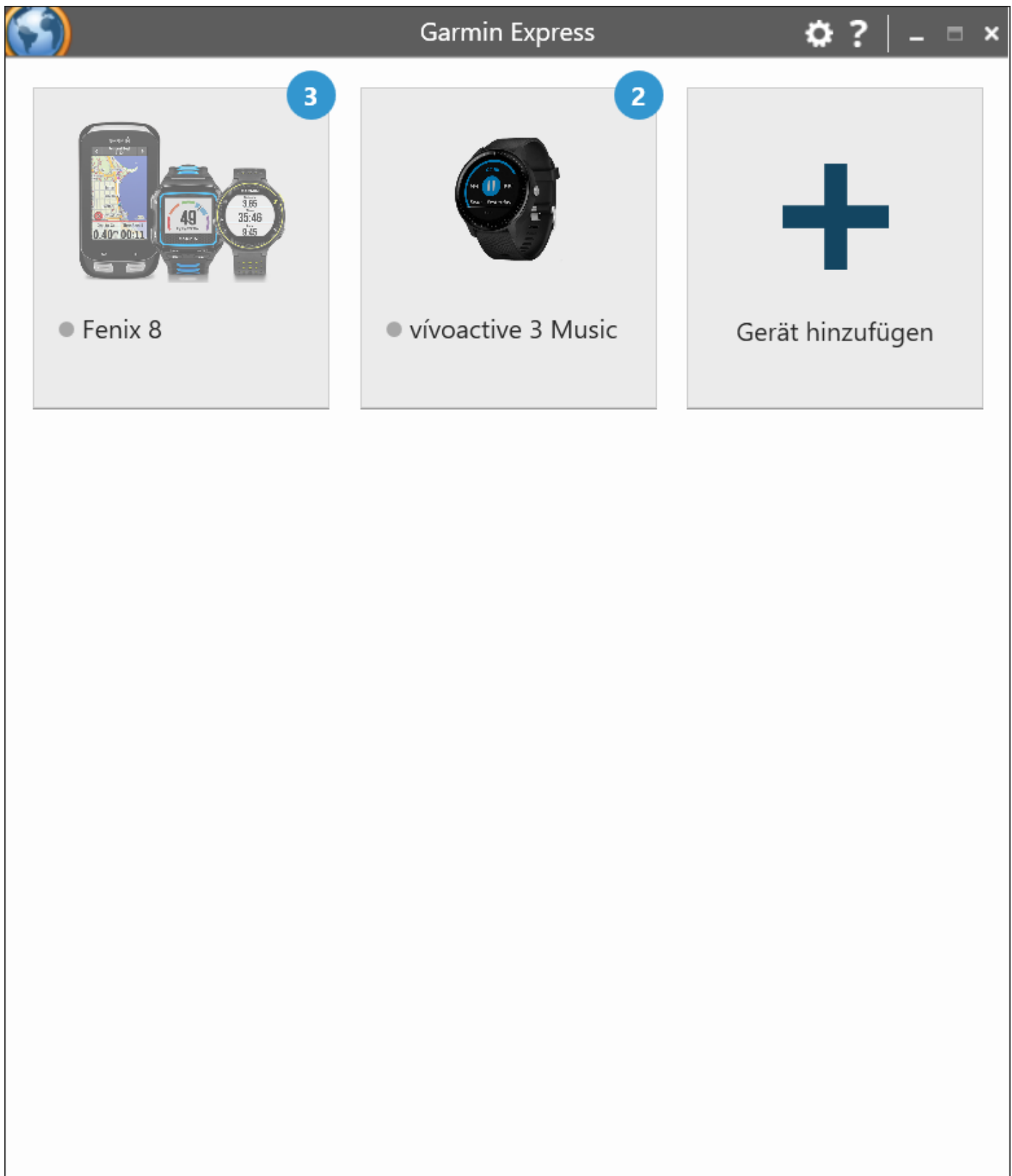
All configurations can be changed on your PC or MAC by using the Garmin Express Software. Before changing configurations, please make sure that you have installed the latest software version. The software can be downloaded from the official Garmin web site.

Note The pictures in the following sections are taken from the Garmin Express Software V7.28.0 running on Windows 11 and may be subject of change in future Garmin versions.

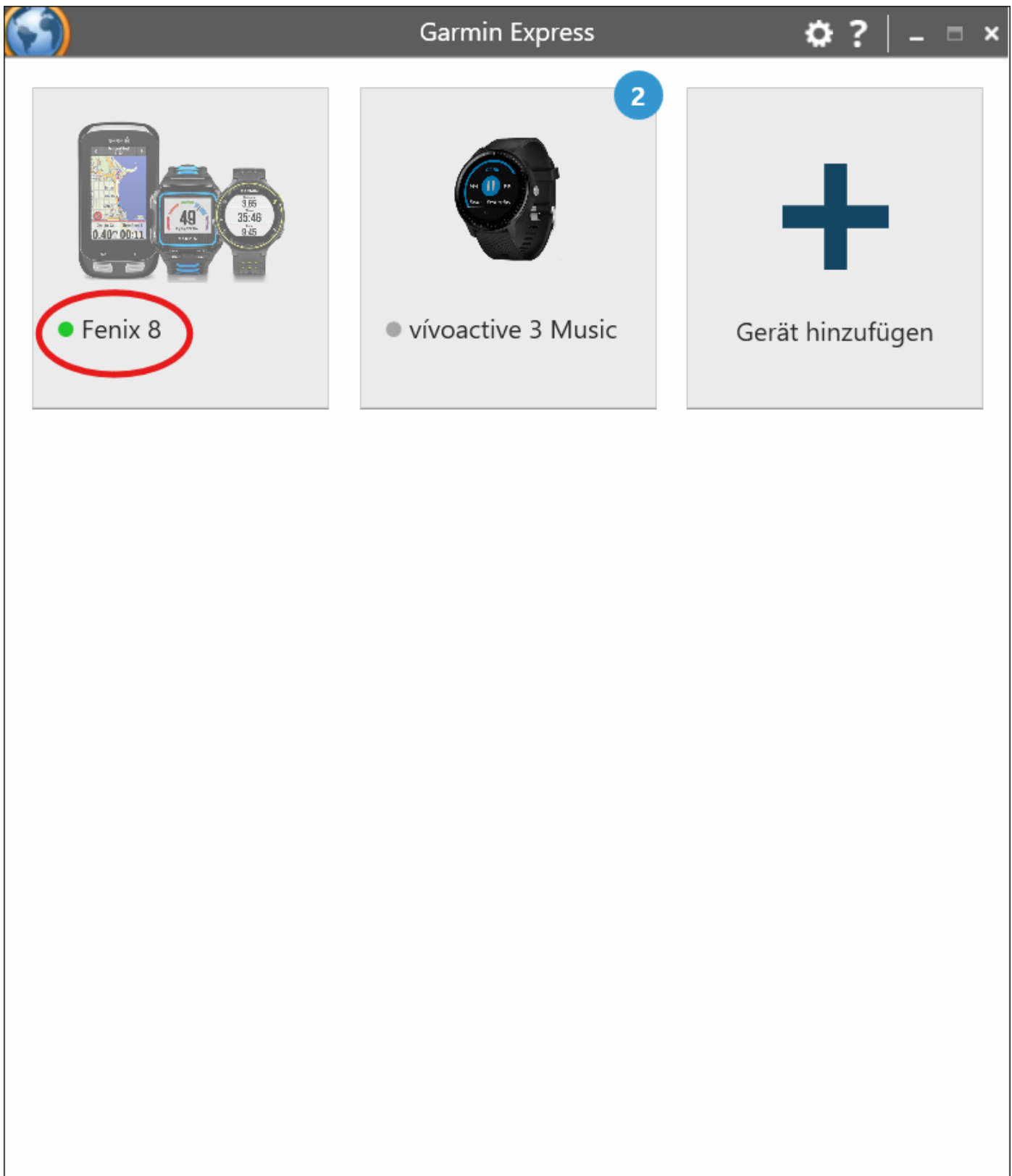
Step 1: Start Garmin Express Software Look for the symbol as shown below and double-click it to start the Garmin Express software.



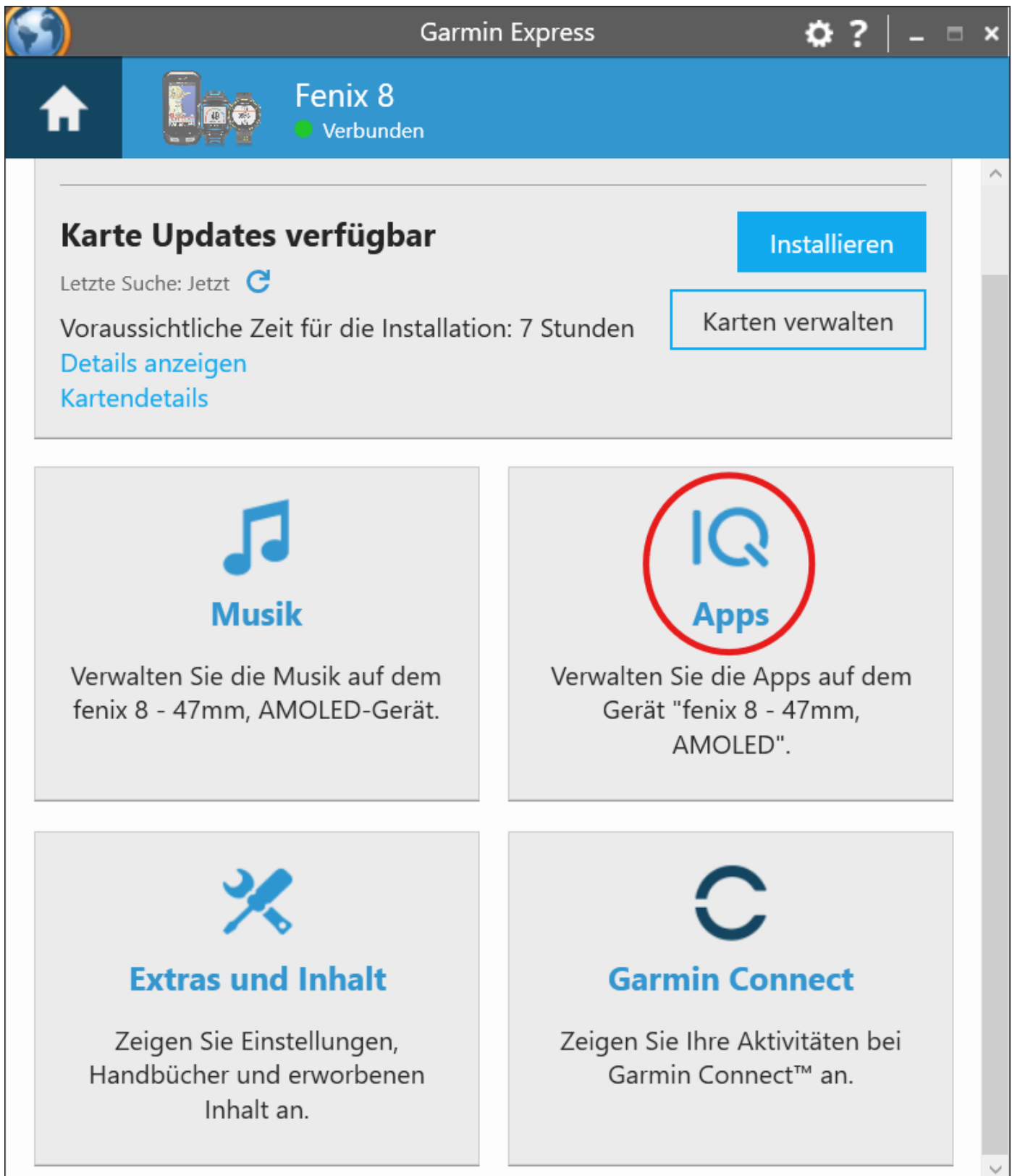
After that you should be able to see your Garmin device as shown in the picture below. If not, please add your device first. For details refer to the documentation provided by Garmin.



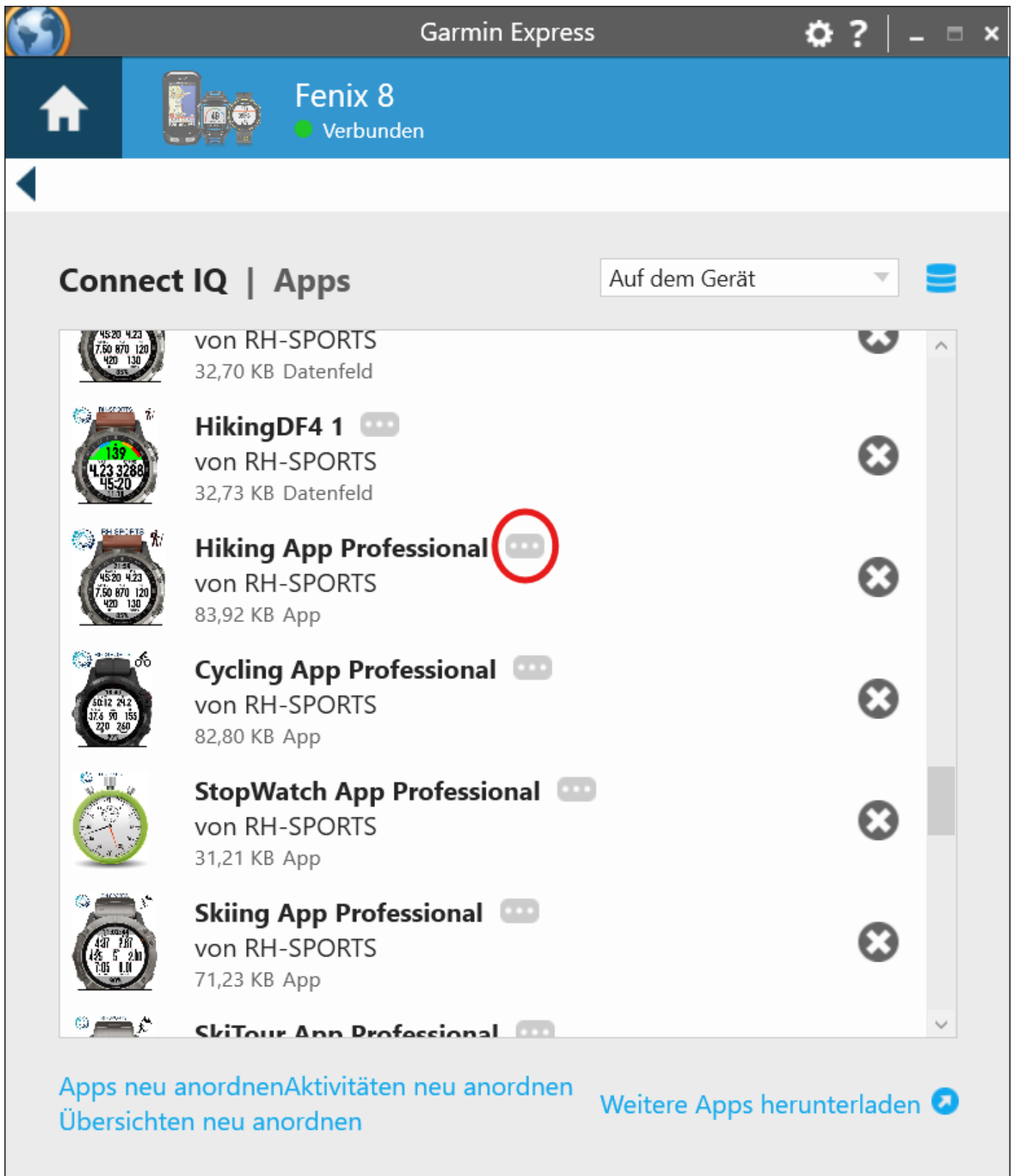
Step 2: Establish Connection between PC/MAC and the Garmin Device Connect your device via USB to your PC/MAC. Your device should be automatically detected and the Garmin Express software starts a synchronization process. When everything is ok, it is signalized via green lights as shown in the figure 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:



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



Step 5: Select Application or Data Field for Configuration Please select the RH-SPORTS application or data field you would like to configure by clicking with the left mouse button to the three dots as marked in the left picture above for your application or data field of choice. A context menu will be shown where you have to select "Settings"

A similar screen like shown below should appear:

Garmin Express

 **Hiking App Professional**

Registrierungsschlüssel

für Hiking App
PREMIUM wo ALLE
Konfigurationsänderungen
gespeichert werden.
Sie erhalten den
Schlüssel über
www.rh-sports.at

Partner-Zugriffscod
um diese App mit der
Mappenunterstützung
von dynamicWatch
zu verlinken

Satellitenkonfiguration

(Nächste
Konfiguration wird

Abbrechen

Speichern

Step 6: Change Configuration Please note that configuration changes **ONLY** apply on your Garmin device if you have entered a proper PREMIUM activation key in the field marked in the picture below. For details about the possible key types, please refer to the [registration key details](#). If a proper activation key is entered, you can change **ALL** configurations according to your needs. Finally press the "Save" button at the bottom of the dialog. The Garmin Express Software will update the configurations on your device. In case of errors, please refer to the documentation provided by Garmin.

Garmin Express

Hiking App Professional

Registrierungsschlüssel

für Hiking App
PREMIUM wo ALLE
Konfigurationsänderungen
gespeichert werden.
Sie erhalten den
Schlüssel über
www.rh-sports.at

Partner-Zugriffscode

um diese App mit der
Mappenunterstützung
von dynamicWatch
zu verlinken

Satellitenkonfiguration

(Nächste
Konfiguration wird

Abbrechen Speichern

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

Step 8: Start Application or Data Field on Device Please start our RH-SPORTS application or data field on your Garmin device. If you have the PREMIUM Version (key was correct), then all your configuration changes should have been applied. If not, please refer to our [Frequently Asked Questions](#).

Change user settings on mobile phone

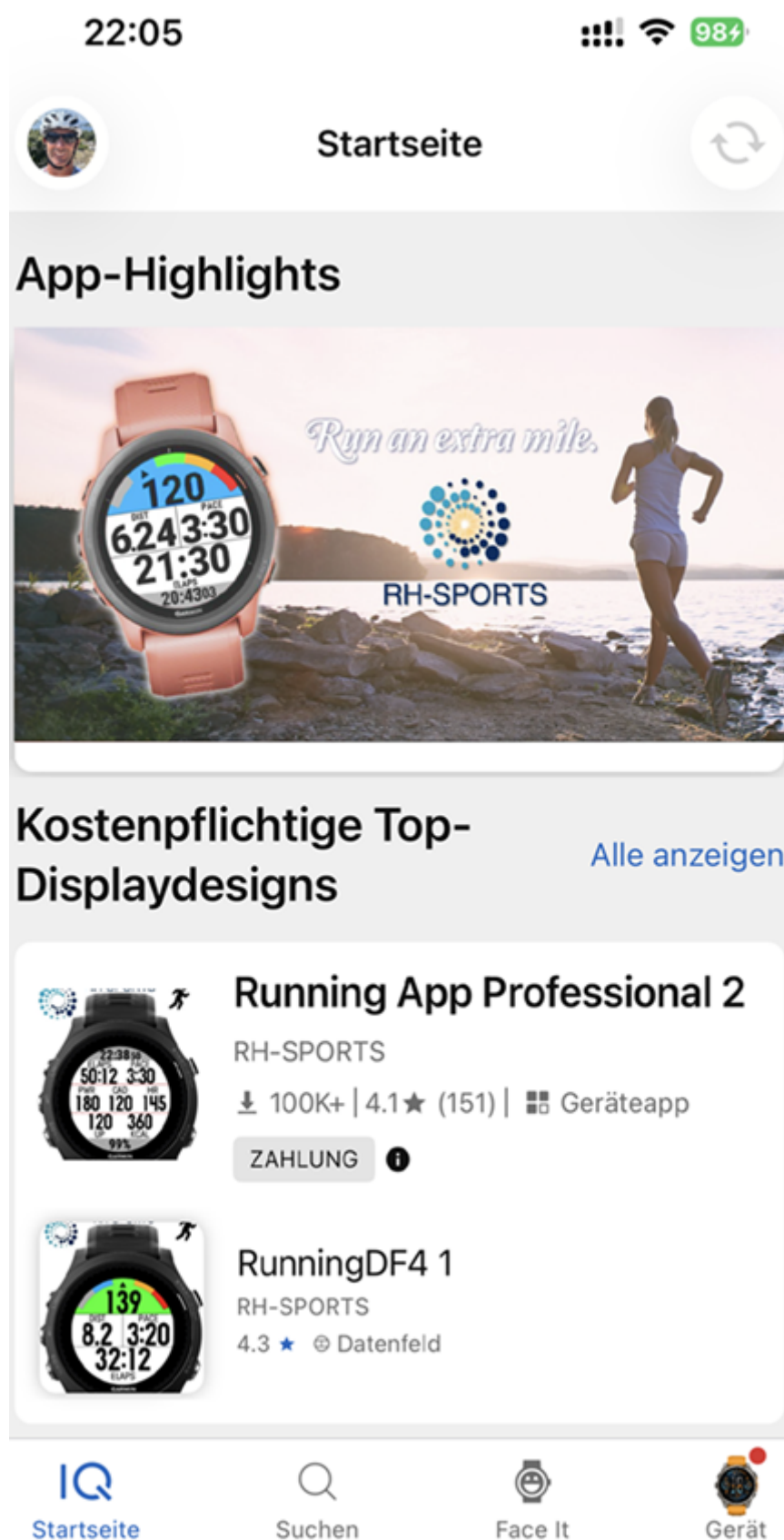
All configurations can be changed on your mobile phone by using the Garmin ConnectIQ™ mobile app which is available for Android- and iOS-compatible devices. Before changing configurations, please make sure that you have installed the latest mobile app version. The app can be downloaded from the appropriate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

Note The pictures in the following sections are taken from the Garmin ConnectIQ™ mobile app V2.43 running on an iPhone 14 Pro with iOS 26.2 and may be subject of change in future Garmin versions.

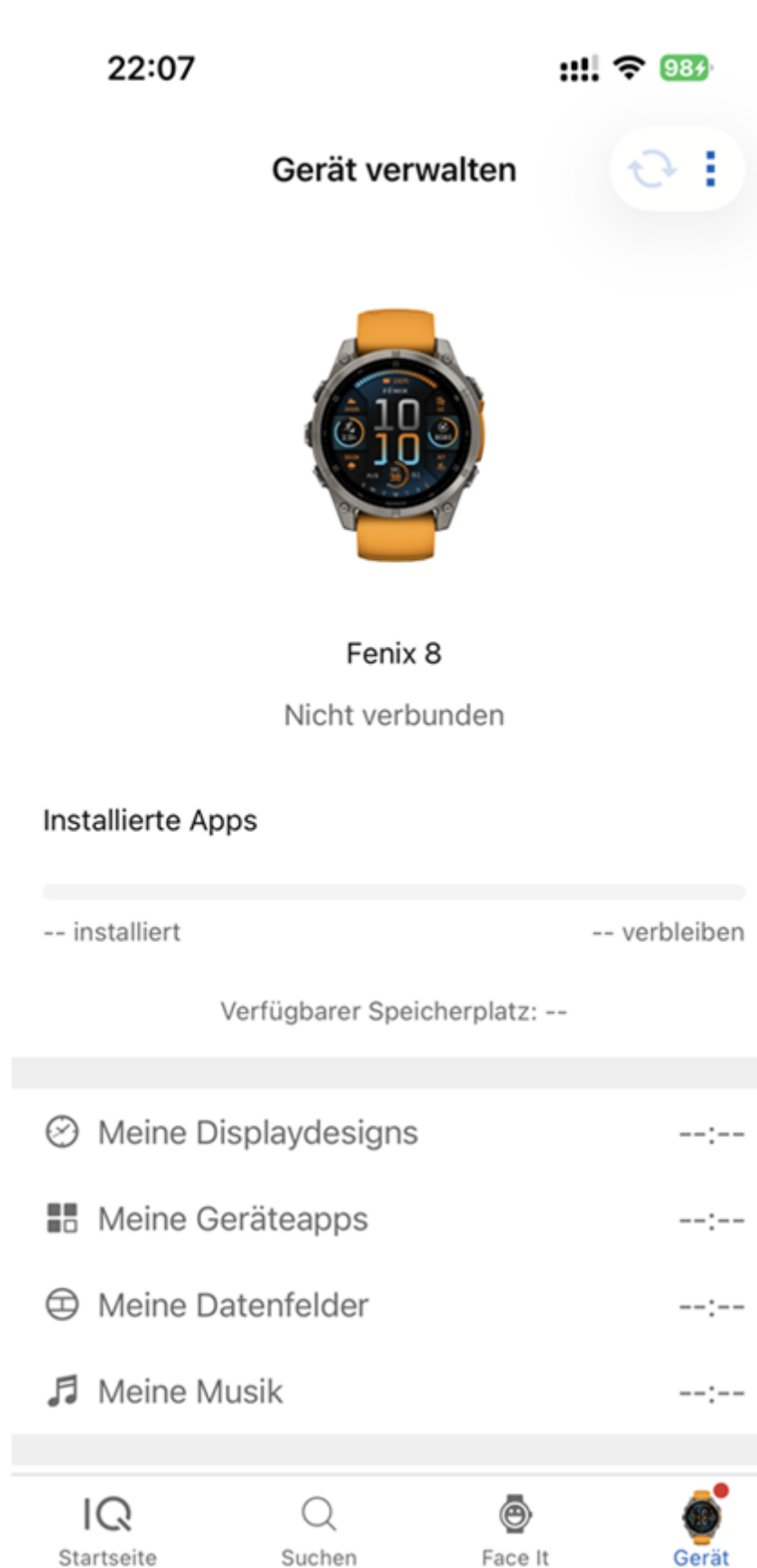
Step 1: Start Garmin ConnectIQ™ mobile app Look on your mobile phone for the app with the symbol shown below and click it to start the Garmin ConnectIQ™ mobile app.



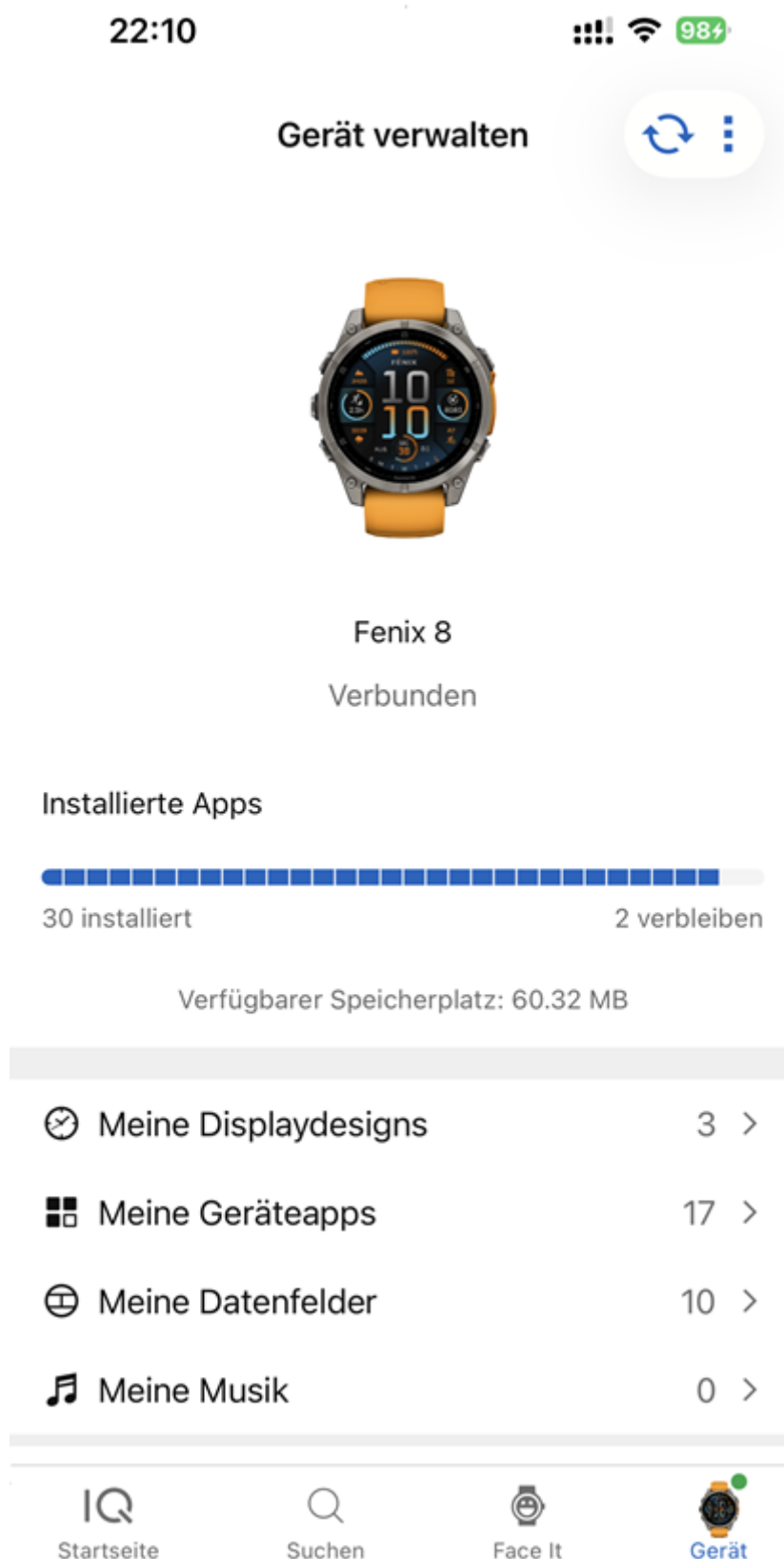
A similar window as shown below should appear.



Step 2: Press device button The device button is located at the bottom on the right side. Please press it and following picture should appear if the device is not connected so far:

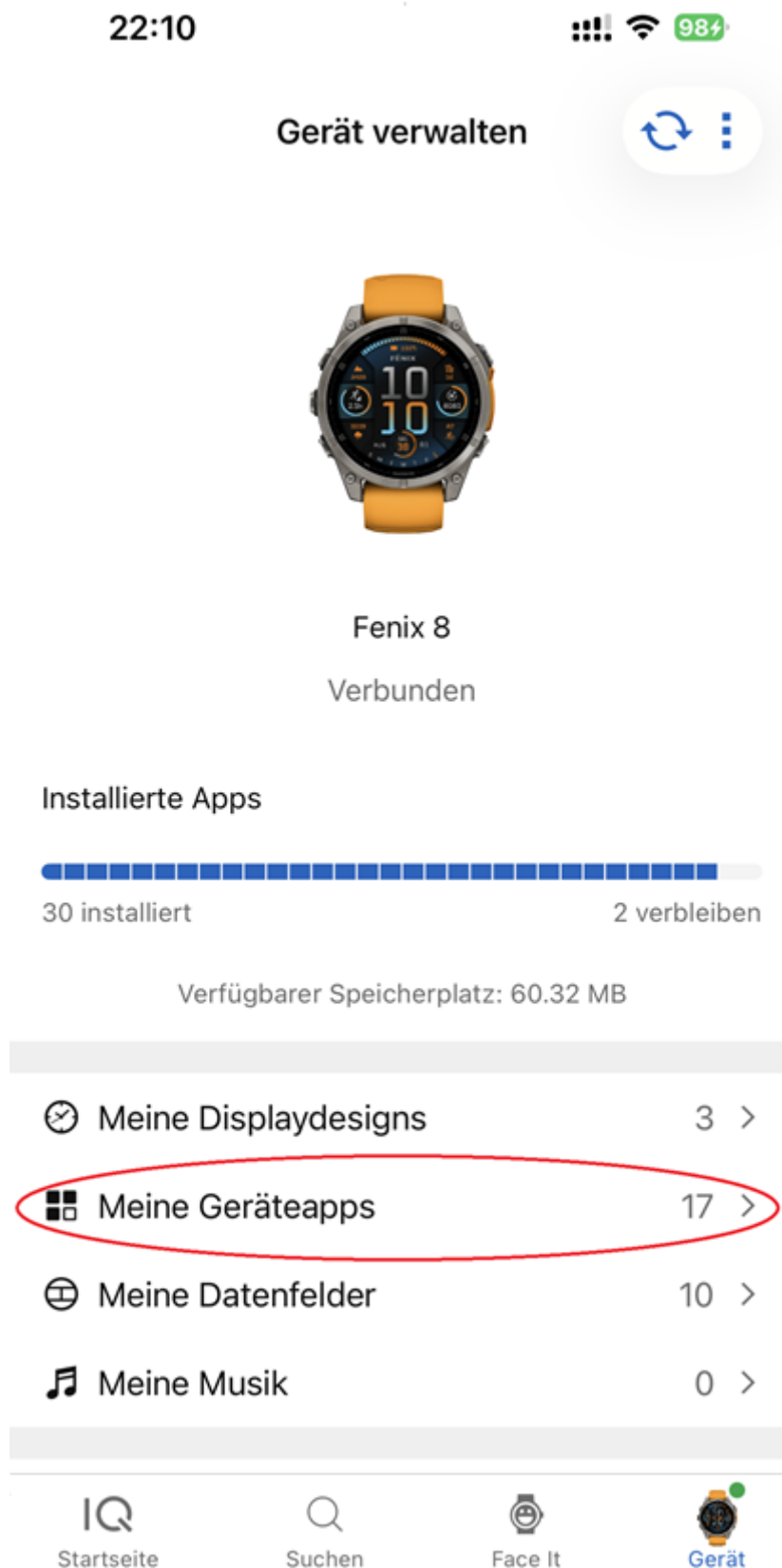


If the device is already connected with your mobile phone via Bluetooth, then the proper connection status is shown as illustrated in following picture:

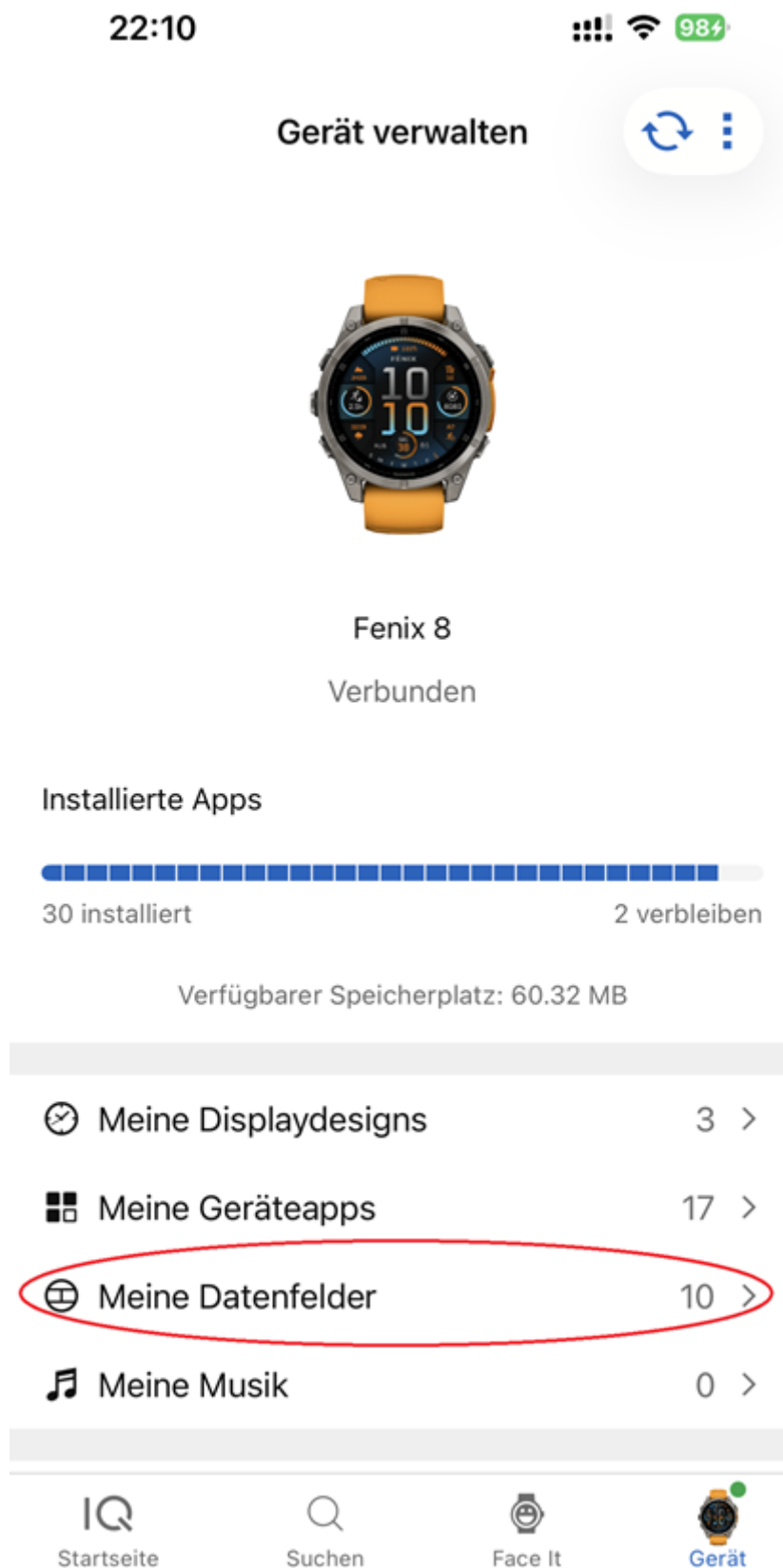


Step 3: Select your Garmin Devices If you have multiple Garmin devices and the wrong device is selected by default, please select a proper device via the button on the top on the left side.

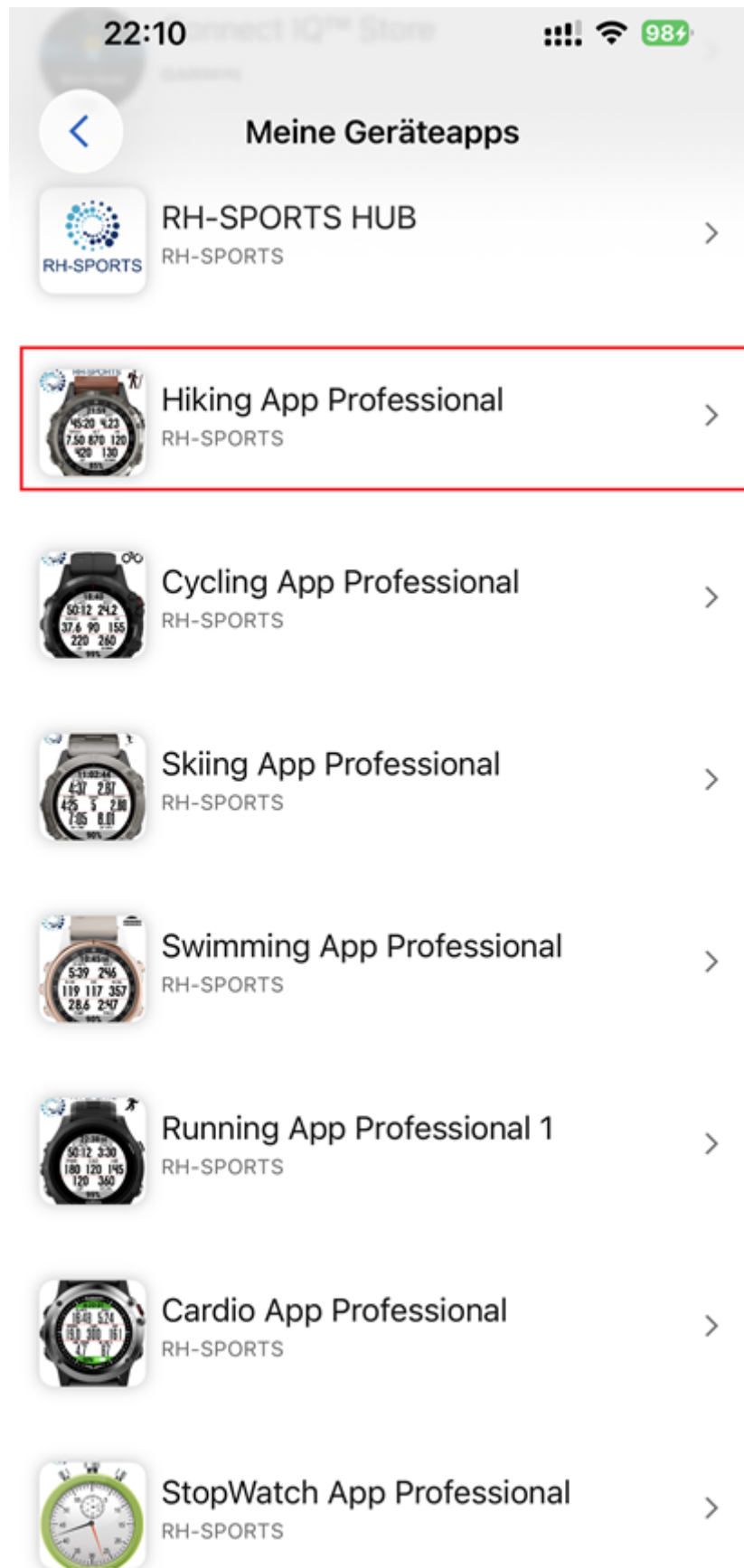
Step 4: Select RH-SPORTS product If you would like to change the settings for a RH-SPORTS application, please click the marked button **My device apps** as shown in the pictures below:



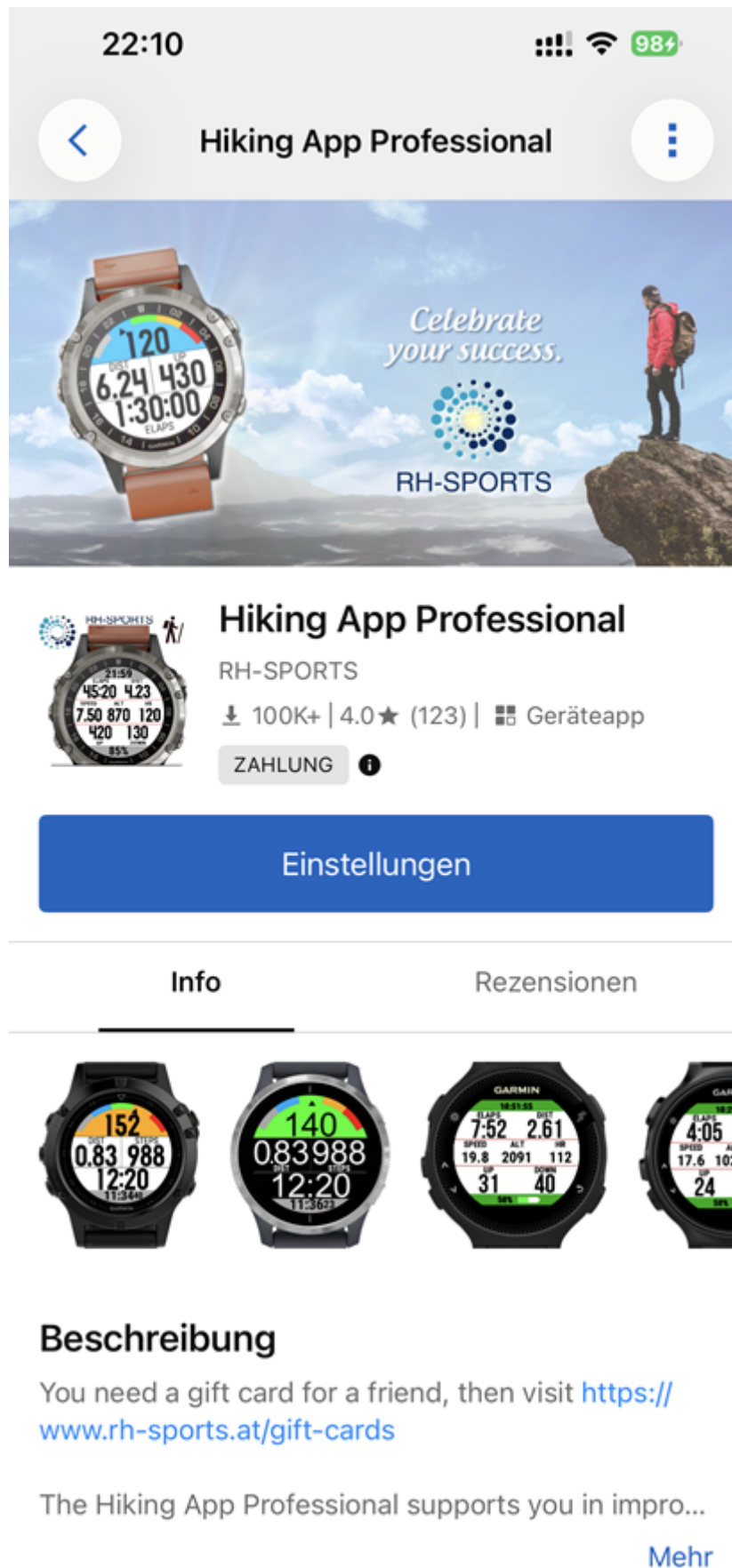
If you would like to change the settings for a RH-SPORTS data field, please click the marked button **My data fields** as shown in the pictures below:



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



Step 6: Select Settings Please click on the **Settings** button as shown in the picture below:



Step 7: Change Configuration Please note that the configuration changes **ONLY APPLY** on your device if you have entered the proper PREMIUM activation key in the field marked in the picture below. For details about the possible key types, please refer to the [registration key details](#). If a proper activation key is entered, you can change **ALL** configurations according to your needs.

22:15

⌵ Wi-Fi 98%

< Einstellungen Speichern

Registrierungsschlüssel für Hiking App PREMIUM
wo ALLE Konfigurationsänderungen gespeichert
werden. Sie erhalten den Schlüssel über www.rh-sports.at

XXXXXXXX

Partner-Zugriffscode um diese App mit der
Mappenunterstützung von dynamicWatch zu
verlinken

XXXXXXX

Satellitenkonfiguration (Nächste Konfiguration wird
verwendet falls ausgewählte Konfiguration auf
ihrem Gerät nicht verfügbar ist)

AutoGNSS (SatIQ)

Stromspareinstellungen

Aus (Displayupdate alle Sekunden)

Farbschema

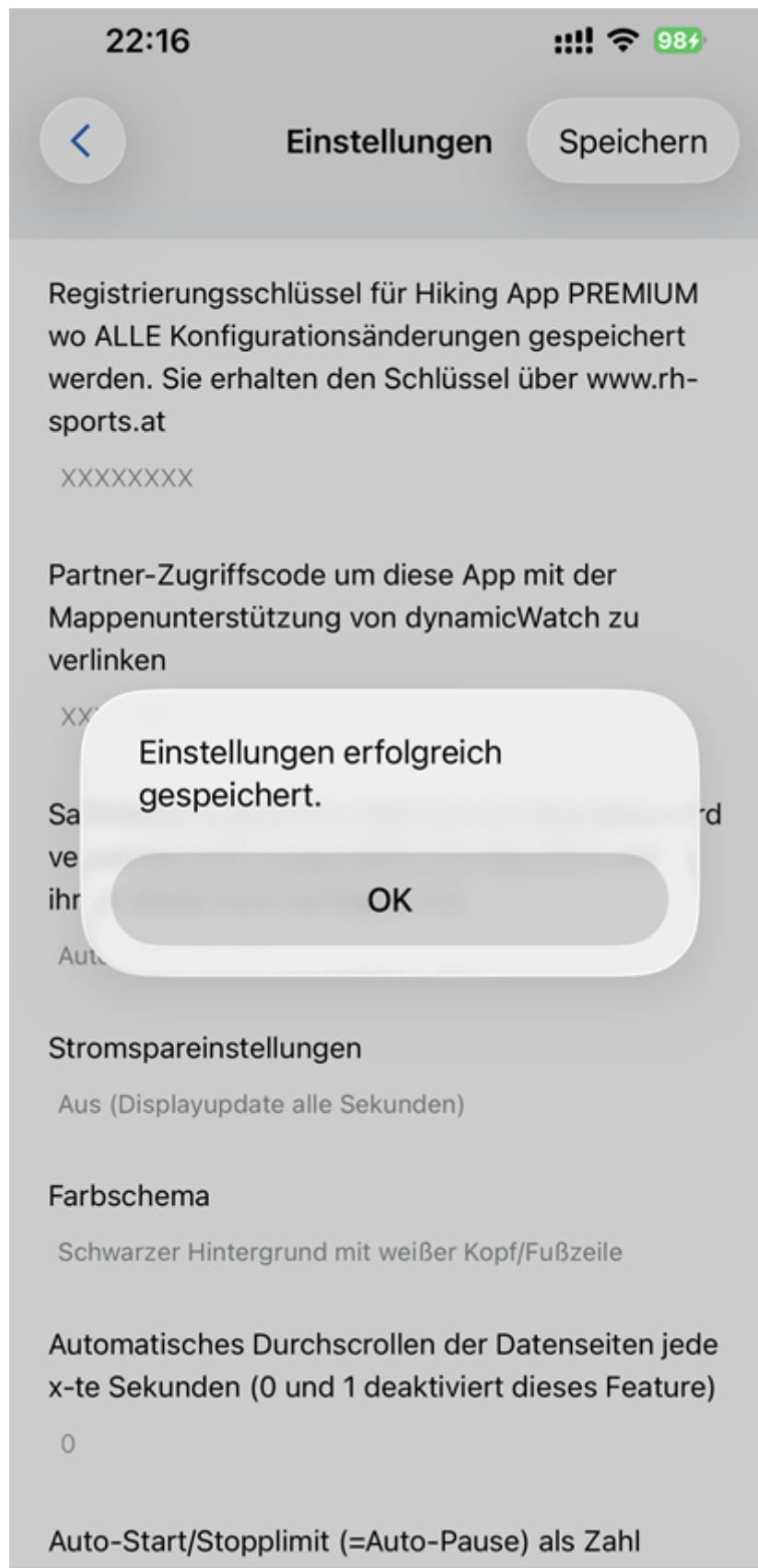
Schwarzer Hintergrund mit weißer Kopf/Fußzeile

Automatisches Durchscrollen der Datenseiten jede
x-te Sekunden (0 und 1 deaktiviert dieses Feature)

0

Auto-Start/Stopplimit (=Auto-Pause) als Zahl

Step 8: Save Configurations Finally press the **Save** button at the top on the right side. The Garmin mobile app will update your configurations on your device. In case of communication errors, please refer to the documentation provided by Garmin.



Step 9: Start Application or Data Field on Device Please start our RH-SPORTS application or data field on your Garmin device. If you have the PREMIUM Version (key was correct), then all your configuration changes should have been applied. If not, please refer to our [Frequently Asked Questions](#).

2.4.3 Start application

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

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:



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 it 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 it 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 it looks like that:

**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:



2.4.4 Change user settings



Most configuration changes only APPLY in the **PREMIUM Version** after storing the settings. Please donate first to get the registration key.

Registration key for PREMIUM version

There are following ways to get a registration key in order to activate the PREMIUM version:

- **Method 1:** After successful donation, you receive a mail from RH-SPORTS with the PREMIUM registration key(s) as PDF.
 - If you donated for the **Complete application and data field package**, you get:
 - a master key in the format "RH-SPORTS-Nxxxx", which can be used in:
 - the [RH-SPORTS HUB](#) application to start from there all other standalone applications.
 - each individual standalone app and data field.
 - If you donated for an individual application or data field or a package includes more applications and/or data fields, you get a key in the format "XXXX XXXX" for each included product.
- **Method 2:** If you have received an RH-SPORTS gift card then you can use the code on the gift card as master key (in the format "RH-SPORTS-xxxxxxx") in:
 - the [RH-SPORTS HUB](#) application to start from there all other standalone applications.
 - each individual standalone app and data field.

Please copy the registration key exactly in the given format (e.g. XXXX XXXX) into this text field. The registration key evaluation is case sensitive.

Registration Key for PREMIUM Version where ALL configurations apply.

XXXX XXXX

Here some important registration hints:

Hint 1: Please copy the registration key exactly in the given format (e.g. XXXX XXXX) into this text field:

- The registration key for individual applications or data fields is a hexadecimal number (numbers from 0 to 9 and big letters from A to F).
- The master key has the format "RH-SPORTS-xxxxxxx" where x must be a capital letter or a number.

The evaluation of the code is case-sensitive!

Hint 2: Please synchronize the settings with your watch afterwards. If you use Garmin Express software on PC or MAC, please disable the bluetooth connection between your mobile phone and watch during configuration as otherwise the settings might be overwritten again.

Hint 3: Sometimes it is necessary to reboot the watch once (for whatever reason).

Hint 4: Please use the proper key for the selected standalone application or data field.

Hint 5: Please make sure that there are no floating point values in the app settings anymore (except for Swimming App where they are allowed).

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!

Note:

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

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:



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!

Note:

Devices with AMOLED display (e.g. Venu™ based devices) only support black background to avoid burn-in damages and to save battery life time!

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!

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:

A value of 0 (default) or 1 deactivates this feature!

Note:

This configuration feature is available in the FREE version as well.

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!

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!

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](#).

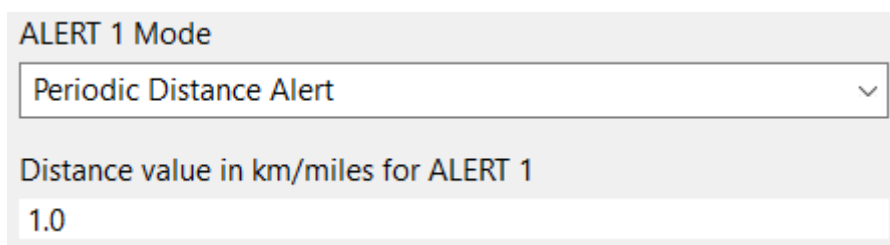
Note:

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

ALERT features

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

- Feature disabled (no user-defined ALERT support)
- 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

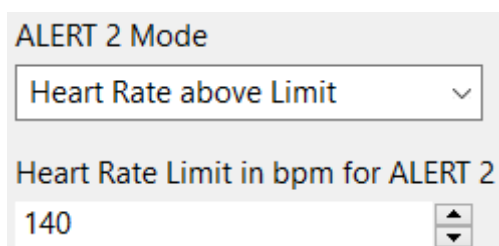
Periodic Distance Alert

Distance value in km/miles for ALERT 1

1.0

The **ALERT2 mode** configuration option allows you to select the mode for the ALERT2 feature. Please note that this configuration has to be done before manually starting a session the first time. Following options are available:

- Feature disabled (no user-defined ALERT support)
- Heart rate above limit where 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 PREMIUM version!

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.

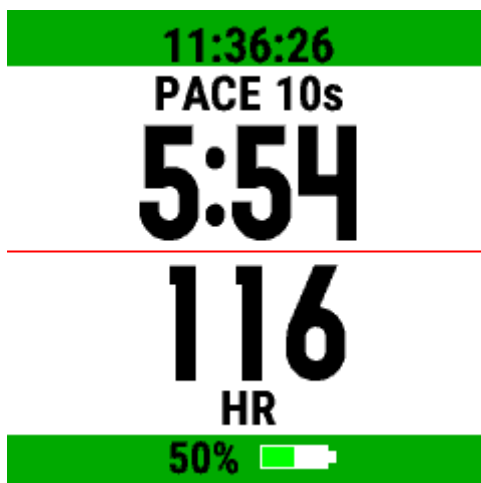
Note:

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

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!](#)



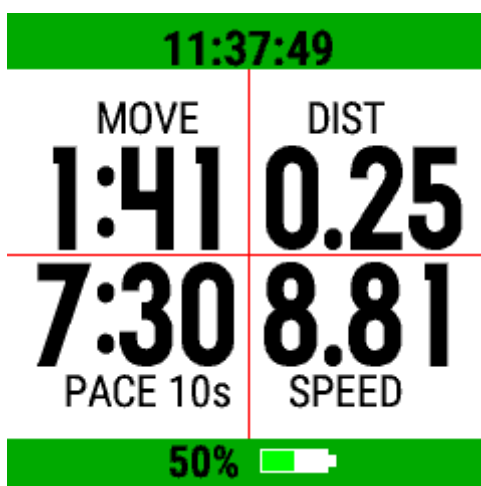
Note:

This configuration feature is only available in the PREMIUM version!

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!](#)



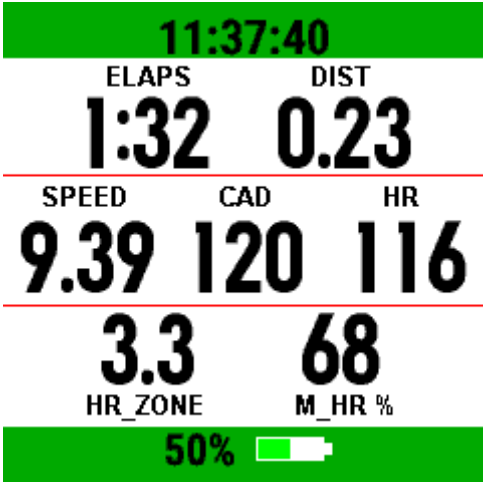
Note:

This configuration feature is only available in the PREMIUM version!

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 PREMIUM version!

2.5 Data fields

This section gives you an overview about all data fields of the **Swimming App Professional** application.

2.5.1 Data field table

Below the table with all available data fields:

Note:
Please note that some of them require the **PREMIUM Version** to be active so that they are visible!

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.
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	Current heart rate zone in the range of 0.0 to 6.0 with following meaning: * 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). The value is derived from your swimming heart rate profile settings configured at Garmin. Please click here and find further information in note 1.
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.

2.5.2 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.

2.6 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](#)

2.6.1 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:



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:



2.6.2 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](#)

Distance alert feature

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:



Heart rate alert feature

ALERT2 mode	Description
Disabled	ALERT2 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:



2.6.3 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.

2.6.4 Timer alerts

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.

2.6.5 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.

Note:

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
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

2.6.6 Screen lock feature

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

- Press "START" button.
- Scroll down until "Lock Screen" appears in the menu.
- Select "Lock Screen".

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

To disable the screen lock again, please perform following steps:

- Press "START" button.
- Scroll down until "Unlock Screen" appears in the menu.
- Select "Unlock Screen".

2.6.7 Workout summary

After saving the workout session a workout summary is shown on devices with CIQ2 and later with following information:

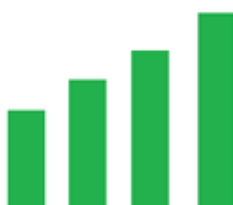
- Duration in the format m:ss, mm:ss, h:mm:ss or hh:mm:ss.
- Distance in meter or yard.
- Average heart rate in bpm.
- Calories consumption in kcal.

2.7 Sensors

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

Satellite quality

The number of green bars indicates the satellite signal quality.



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)

2.7.1 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!

Note:

Some sensors support ANT+ and BLE. Please make sure you paired the sensors for ANT+!

2.8 Frequently asked questions

2.8.1 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:

- 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.

Note:

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.

2.8.2 What to do if the app or data field does not work?

We do our best to test the applications and data fields as good as possible. As we do not have all physical available Garmin 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 or data field on your Garmin device, 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!!

2.8.3 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.

2.8.4 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.

Note:

In our standalone applications some more advanced features (e.g. alerts) cannot be activated in the FREE version and a periodic **FREE Version** notification is shown.

Note:

In our data fields all features are available even in the FREE version but still a periodic **FREE Version** notification is shown.

If you like our application or data field we would be very happy if you donate to upgrade to the **PREMIUM Version**.

2.8.5 How to upgrade to the PREMIUM version?

If you like our application or data field and would you like to benefit of following further advantages:

- support our further development or
- unlock all (more advanced) features or
- get ride of the periodic **FREE Version** notification

we would be very happy if you donate to upgrade to the **PREMIUM Version**.

Note:

The **PREMIUM version** is a **lifetime license** which is valid for ALL future updates and can be used on as many devices you personally own, even at the same time!

Here two links for further details how to donate for the **PREMIUM Version**:

- [RH-SPORTS website](#)
- [Online shop](#) with additional payment options like:
 - stripe credit card
 - PayPal (including credit card, debit card and bank transfer)
 - Payment in advance (useful for countries where stripe or PayPal do not work)

2.8.6 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.

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

You can detect whether the **FREE version** is still active or not in following way:

- In standalone applications (e.g. Running App Professional) the **FREE version** is active, if you see a "Please donate as EARLY BIRD" message upon application start.
- In data fields (e.g. RunningDF4 1), which have to be integrated into one of the Garmin native apps, the **FREE version** is active if you get a "FREE Version" notification upon session start and regularly after some minutes.

Some users reported that the **FREE version** is still active after entering the registration key and after synchronization. In all known cases, the wrong key has been entered. Please make sure that you enter the proper key and following the instructions below:

Here some important registration hints:

Hint 1: Please copy the registration key exactly in the given format (e.g. XXXX XXXX) into this text field:

- The registration key for individual applications or data fields is a hexadecimal number (numbers from 0 to 9 and big letters from A to F).
- The master key has the format "RH-SPORTS-xxxxxxx" where x must be a capital letter or a number.

The evaluation of the code is case-sensitive!

Hint 2: Please synchronize the settings with your watch afterwards. If you use Garmin Express software on PC or MAC, please disable the bluetooth connection between your mobile phone and watch during configuration as otherwise the settings might be overwritten again.

Hint 3: Sometimes it is necessary to reboot the watch once (for whatever reason).

Hint 4: Please use the prooper key for the selected standalone application or data field.

Hint 5: Please make sure that there are no floating point values in the app settings anymore (except for Swimming App where they are allowed).

2.8.8 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.

2.8.9 How to enable GPS, GLONASS or GALILEO?

On Garmin devices with CIQ below 3.3.6, Garmin does not allow Connect IQ applications to controll which satellites are used. Following steps seem to help here as workaround:

- 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.

2.8.10 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 into a Garmin native app:



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.

2.8.11 How to change the language?

Even though the main supported language is english we are working on supporting other languages as well. German language is currently available

- in some applications (e.g. RH-SPORTS HUB):
 - selected language on your [Garmin device](#) is used.
- for all applications and data fields for the settings you can change via Garmin mobile app or Garmin Express on PC/MAC:
 - selected system language in [Windows](#) or on [MAC](#) is used.

Changing language on your smart watch

Changing the language on your Garmin watch can be done in two ways:

- **Method 1:** through the Garmin Connect app on your phone (easiest, especially if you can't read the current language on the watch) via following sequence (this requires an active Bluetooth connection between mobile phone and Garmin device):
 - Open the Garmin Connect app on your smartphone.
 - Open the menu:
 - Android: Tap the Menu icon (3 lines) in the top left.
 - iOS (iPhone): Tap More (3 dots) in the bottom right.
 - Tap Garmin Devices.
 - Select your specific watch image/name.
 - Select System (or General on some older models).
 - Tap Language (or Text Language).
 - Choose your desired language from the list.
 - Crucial Step: Go back to the main screen of the app and Sync your watch. The language on the watch will update once the sync finishes.
- **Method 2:** directly on the watch itself via menu by selecting 'System' and then 'Language'.

Changing language on a windows system

Here the step-by-step guidance how to change the display language (menus, windows, settings) on a Windows system:

- For Windows 11:
 - Click Start (Windows icon) and select Settings (Gear icon).
 - On the left sidebar, click Time & language.
 - Click Language & region on the right.
 - Look for "Windows display language" at the top.
 - If your language is listed: Select it from the dropdown menu.
 - If your language is NOT listed:
 - Click the Add a language button next to "Preferred languages."
 - Search for your language (e.g., "Spanish") and select it. Click Next.
 - Important: Check the box that says "Set as my Windows display language."
 - Click Install.
 - Sign Out Required: Windows will ask you to sign out for changes to take effect. Click Sign out. When you sign back in, the language will be changed.
- For Windows 10:
 - Click Start and then Settings (Gear icon).
 - Click Time & Language.
 - Click Language on the left menu.
 - Look for "Windows display language" at the top.
 - If your language is listed: Select it from the dropdown menu.
 - If your language is NOT listed:
 - Click Add a language under the "Preferred languages" section.
 - Search for the language you want and select it. Click Next.
 - Check the box "Set as my Windows display language" (or "Install language pack").
 - Click Install.
 - Sign Out: You will see a prompt to sign out. Do so, and sign back in to see the changes.

Changing language on a MAC system

Here the step-by-step guidance how to change the display language (menus, windows, settings) on a MAC system for macOS Ventura, Sonoma, Sequoia (Newer Models):

- Click the Apple Menu ( logo) in the top-left corner.
- Select System Settings.
- In the left sidebar, click General.
- Click Language & Region on the right.
- Under "Preferred Languages," click the (+) plus button.
- Select your desired language from the list and click Add.
- A pop-up will ask if you want to use this as your primary language. Click "Use [New Language]".
- Restart Required: You will be prompted to restart your Mac. Do this to apply the changes system-wide.

2.8.12 What to do if settings cannot be changed?

Setting changes always work in the Garmin eco-system and a valid connection to Garmin servers are necessary. Sometimes these servers are down and settings cannot be changed.

Note:

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

In case the settings are corrupted, then following sequence may help:

- Delete app
- Synchronize
- Once reboot your device (e.g. watch)
- Install the app again
- Change settings

2.8.13 User settings lost after update?

Unfortunately Garmin may 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.

2.8.14 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.

2.8.15 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."

2.8.16 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."

2.8.17 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.

2.8.18 Why is info derived from altitude (e.g, UP, DOWN, PWR, GRADE in %) not accurate?

People with Garmin devices (e.g. watches) are frequently concerned about the accuracy (or lack of it) of the altitude data (or from altitude derive data) if the info is derived from GPS and not from a barometric altimeter. Many suspect their equipment or the app may even be defective or buggy when they see the altitude data. Unfortunately this is NORMAL as GPS is not accurate enough regarding altitude information. Following Garmin devices have no barometric altimeter and are thus affected (list might not be complete):

- ForeAthlete® 230J, ForeAthlete® 235J, ForeAthlete® 630J.
- Forerunner® 735XTJ, ForeAthlete® 920XTJ, Forerunner® 230, Forerunner® 235, Forerunner® 630, Forerunner® 735XT.
- Vivoactive™ series.
- Others: [Please take a look to the Garmin feature set description for your device.](#)

With the integrated GPS receivers, the horizontal error is specified to be within about +/- 15 meters (50 feet) 95% of the time. Most users find this is a conservative specification and that their modern GPS receivers routinely perform better than this worst case specification. But users should expect that SOMETIMES they may see the error approach the specification limits. AND 5% of the time, the error may be "any value" from zero to whatever. Note: Unless you have a CLEAR AND UNOBSTRUCTED view of the sky you can count on your error excursions to be much greater than the above numbers. Your GPS depends on this clear and unobstructed view or it cannot make accurate range measurements to the satellites. Generally, altitude error is specified to be 1.5 times horizontal error specification. This means that the user of standard consumer GPS receivers should consider +/-23meters (75ft) with a DOP of 1 for 95% confidence. Altitude error is always considerably worse than the horizontal (position error). Much of this is a matter of geometry. If we (simplistically) consider just four satellites, the "optimum" configuration for best overall accuracy is having the four SVs at 40 to 55 degrees above the horizon and one (for instance) in each general direction N, E, W, and S.

Note:

You will get a very BAD DOP if the SVs are at the exact same elevation. Luckily, this is a rare occurrence. The similar "best" arrangement for vertical position is with one SV overhead and the others at the horizon and 120 degrees in azimuth apart. Obviously, this arrangement is very poor from a signal standpoint. As a result, of this geometry the calculated solution for altitude is not as accurate as it is for horizontal position. Almost any calibrated altimeter will be more stable at reading altitude than a GPS. GPS altitude measures the user's distance from the center of the SVs orbits. These measurements are referenced to geodetic altitude or ellipsoidal altitude in some GPS equipment. Garmin and most equipment manufacturers utilize a mathematical model in the GPS software which roughly approximates the geodetic model of the earth and reference altitude to this model. As with any model, there will be errors as the earth is not a simple mathematical shape to represent. What this means is that if you are walking on the seashore, and see your altitude as -15 meters, you should not be concerned. First, the geodetic model of the earth can have much more than this amount of error at any specific point and Second, you have the GPS error itself to add in. As a result of this combined error, I am not surprised to be at the seashore and see -40 meter errors in some spots.

Following data fields are affected if you have no watch with barometric altimeter:

- UP
- DOWN
- GRADE in %
- PWR, A PWR, M PWR (if not derived from a compatible ANT+ power sensor)
- VSPD xs, A VSPD, M VSPD

2.9 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!

2.10 Version history

The following table lists the version history of the latest released **Swimming App Professional** versions:

Version	Date	Change description
4.0.0	29.12.2025	Support for Instinct® 3 AMOLED 45mm added Support for Instinct® Crossover AMOLED added
3.9.5	15.12.2025	Support for Forerunner® 570 42mm and 47mm added Support for Forerunner® 970 added
3.9.1	11.12.2025	Support master key also on CIQ1 devices Support gift card keys on all devices
3.9.0	09.11.2025	Support for D2™ Mach 2 added Support for Fenix® 8 Pro 47mm added Support for Venu® 4 41mm and 45mm added
3.8.5	09.06.2025	Several GUI improvements Support for Vivoactive® 6 added
3.8.0	08.04.2025	Several GUI improvements Support for Approach® S50 added Support for Descent™ G2 added
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 Venu SQ
3.0.0	09.07.2022	Support for Forerunner® 255, 255 Music, 255s and 255s Music added Support for Forerunner® 955 / Solar added
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

3. Deutsch

3.1 Deutsche Dokumentation

Diese Seite beinhaltet die deutschen Dokumente für alle Garmin Connect-IQ-kompatiblen Applikationen und Datenfelder von RH-SPORTS.



Aktuell ist nur eine Liste aller Datenfelder in deutscher Beschreibung verfügbar.

Note:

Die Dokumentation in deutscher Sprache ist in Arbeit und kommt in den nächsten Monaten sukzessive für alle verfügbaren Applikationen.

3.1.1 Datenfelder

Folgende Tabelle beschreibt alle Datenfelder unserer Garmin Connect-IQ kompatiblen Apps (mit Ausnahme der Skiing App). Bitte berücksichtigen Sie folgende zwei Punkte:

- Einige Datenfelder sind nur in der **PREMIUM Version** verfügbar.
- Nicht jedes Datenfeld ist in jeder angebotenen Applikation oder Datenfeld verfügbar.

Datenfeld	Beschreibung
AHEAD	Aktuelle Zeit die Sie vor (bei positivem Wert) oder hinter (bei negativem Wert) dem konfiguriertem Rennziel liegen. Die Angabe ist im Format hh:mm, h:mm:ss, mm:ss oder m:ss.
ALT	Aktuelle Höhe in Meter oder Fuß, abhängig von den Einstellungen auf der Uhr für Höhe.
A CAD	Durchschnittliche Trittfrequenz in Umdrehungen pro Minute, gemittelt über die gesamte Trainingseinheit. Anmerkung: In der Cycling App Professional werden nur jene Zeiten berücksichtigt, wo auch wirklich getreten wird. In Garmin Connect ist allerdings der Wert gespeichert, der auch die Zeiten ohne Treten beinhaltet.
A HR	Durchschnittliche Herzfrequenz in Schläge pro Minute gemittelt über die gesamte Trainingseinheit.
A PACE	Durchschnittliche Pace der aktuellen Trainingseinheit für einen Kilometer oder eine Meile, abhängig von den Einstellungen auf der Uhr für Pace/Geschwindigkeit.
A PWR	Durchschnittliche Power in der aktuellen Trainingseinheit in Watt. Bitte berücksichtigen Sie auch Anmerkung 4
A SPEED	Durchschnittliche Geschwindigkeit der aktuellen Trainingseinheit in Kilometer/Stunde oder Meilen/Stunde, abhängig von den Einstellungen auf der Uhr für Distanz.
A VSPD	Durchschnittliche vertikale Geschwindigkeit in der aktuellen Trainingseinheit in Meter/Stunde oder Fuß/Stunde, abhängig von den Einstellungen auf der Uhr. Bitte berücksichtigen Sie auch Anmerkung 1
CAD	Aktuelle Trittfrequenz in Umdrehungen pro Minute.
CL DIST	Distanz der aktuellen Runde in Kilometer oder Meilen, abhängig von den Einstellungen auf der Uhr für Distanz.
CL PACE	PACE der aktuellen Runde für einen Kilometer oder eine Meile, abhängig von den Einstellungen auf der Uhr für Distanz.
CL SPEED	Durchschnittsgeschwindigkeit der aktuellen Runde in Kilometer/Stunde oder Meilen/Stunde, abhängig von den Einstellungen auf der Uhr für Distanz.
CL TIME	Aktuelle Rundenzeit im Format hh:mm, h:mm:ss, mm:ss oder m:ss.
CR AHR	Durchschnittliche Herzfrequenz während der aktuellen Abfahrt in Schläge pro Minute.
CR DOWN	Aktuelle negative Höhenmeter während der aktuellen Abfahrt in Meter oder Fuß, abhängig von den Einstellungen auf der Uhr für Höhe.
CR DIST	Zurückgelegte Strecke der aktuellen Abfahrt in Kilometer oder Meilen, abhängig von den Einstellungen auf der Uhr für Distanz.
CR MHR	Maximale Herzfrequenz während der aktuellen Abfahrt in Schläge pro Minute.
CR MSPD	Maximale Geschwindigkeit der aktuellen Abfahrt in Kilometer/Stunde oder Meilen/Stunde, abhängig von den Einstellungen auf der Uhr für Distanz.
DBG1	Debug Datenfeld das aktuell den minimalen freien Speicher anzeigt.
DIST	Aktuell zurückgelegte Strecke in Kilometer oder Meilen, abhängig von den Einstellungen auf der Uhr für Distanz.
DIST REM	Noch zu laufende Strecke in Kilometer oder Meilen, abhängig von den Einstellungen auf der Uhr für Distanz.
DOWN	Absteigende Höhenmeter in der aktuellen Trainingseinheit in Meter oder Fuß, abhängig von den Einstellungen auf der Uhr für Höhe. Bitte berücksichtigen Sie auch Anmerkung 1
ELAPS	Vergangene Zeit in der aktuellen Trainingseinheit (inkl. Standzeiten bei eingeschaltetem Auto Start/Stop Feature) im Format hh:mm, h:mm:ss, mm:ss oder m:ss.
ETA	Geschätzte Ankunftszeit auf Basis Ihrer Konfigurationen im Format hh:mm, h:mm:ss, mm:ss oder m:ss.
GRADE %	Aktuelle Steigung in Prozent. Diese Information wird abgeleitet von der zurückgelegten Strecke und Höhe gemittelt über die letzten 10 Sekunden. Bitte berücksichtigen Sie auch Anmerkung 2

HR	Aktuelle Herzfrequenz in Schläge pro Minute.
HR GOAL	Herzfrequenzziel in Schläge pro Minute.
HR ZONE	Aktuelle Herzfrequenzzone im Bereich 0.0 bis 6.0 mit folgender Bedeutung: * 0.0 ... aktuelle Herzfrequenz unterhalb der Zone 1 (= Minimale Herzfrequenz) * 1.0 - 1.9 ... aktuelle Herzfrequenz in Zone 1 * 2.0 - 2.9 ... aktuelle Herzfrequenz in Zone 2 * 3.0 - 3.9 ... aktuelle Herzfrequenz in Zone 3 * 4.0 - 4.9 ... aktuelle Herzfrequenz in Zone 4 * 5.0 - 5.9 ... aktuelle Herzfrequenz in Zone 5 * 6.0 ... aktuelle Herzfrequenz oberhalb der Zone 5 (= Maximale Herzfrequenz). Dieser Wert wird von den Herzfrequenzzoneneinstellungen des Users abgeleitet. Auf der Epix hat man darauf über die Garmin API keinen Zugriff. Deswegen werden die Zonen dort von der maximalen Herzfrequenz abgeleitet.
IDLE	Standzeit in der aktuellen Trainingseinheit wo die Geschwindigkeit unterhalb dem eingestellten Limit für den Auto Start/ Stop Modus liegt.
INT LEFT	Anzahl der offenen Intervalle.
INT NEXT	Ausständige Distanz oder Zeit bis das nächste Intervall startet.
KCAL	Aktuell verbrauchte Kilo-Kalorien in der aktuellen Trainingseinheit.
KCAL_DAY	Kilo-calories consumption of today.
LAP	Aktuelle Rundenzahl.
LL DIST	Distanz der letzten Runde in Kilometer oder Meilen, abhängig von den Einstellungen auf der Uhr für Distanz.
LL PACE	PACE der letzten Runde für einen Kilometer oder eine Meile, abhängig von den Einstellungen auf der Uhr für Distanz.
LL SPEED	Durchschnittsgeschwindigkeit der letzten Runde in Kilometer/Stunde oder Meilen/Stunde, abhängig von den Einstellungen auf der Uhr für Distanz.
LL TIME	Letzte Rundenzeit im Format hh:mm, h:mm:ss, mm:ss oder m:ss.
MOVE	Zeit in Bewegung (ELAPS - IDLE) in der aktuellen Trainingseinheit im Format hh:mm, h:mm:ss, mm:ss oder m:ss.
M CAD	Maximale Trittfrequenz in Umdrehungen pro Minute in der aktuellen Trainingseinheit.
M HR	Maximale Herzfrequenz in der aktuellen Trainingseinheit in Schläge pro Minute.
M HR %	Aktuelle Herzfrequenz in Prozent der maximalen Herzfrequenz, die von den User-Settings ausgelesen wird.
M PACE	Maximale PACE in der aktuellen Trainingseinheit für einen Kilometer oder eine Meile, abhängig von den Einstellungen auf der Uhr für Distanz.
M PWR	Maximale Power in der aktuellen Trainingseinheit in Watt. Bitte berücksichtigen Sie auch Anmerkung 4
M SPEED	Maximale Geschwindigkeit in der aktuellen Trainingseinheit in Kilometer/Stunde oder Meilen/Stunde, abhängig von den Einstellungen auf der Uhr für Distanz.
M VSPD	Maximale vertikale Geschwindigkeit in der aktuellen Trainingseinheit in Meter/Stunde oder Fuß/Stunde, abhängig von den Einstellungen auf der Uhr. Bitte berücksichtigen Sie auch Anmerkung 1
PACE	Aktuelle PACE gemittelt über die letzten x Sekunden für einen Kilometer oder eine Meile, abhängig von den Einstellungen auf der Uhr für Distanz.
PACE xs	Aktuelle PACE gemittelt über die letzten x Sekunden für einen Kilometer oder eine Meile, abhängig von den Einstellungen auf der Uhr für Distanz.
PACE REQ	Benötigte PACE um das konfigurierte Rennziel zu erreichen.
PHASE	Aktuelle Phase, entweder Run (=Abfahrt) oder Up (Liftfahrt).

PRESSURE	Barometrischer Druck in Pascal.
PWR	Aktuelle Leistung in Watt. Bitte berücksichtigen Sie auch Anmerkung 4
PWR xs	Leistung in Watt gemittelt über die letzten x Sekunden. Bitte berücksichtigen Sie auch Anmerkung 4
RUNS	Gesamtanzahl der bereits getätigten Abfahrten.
R AHR	Durchschnittliche Herzfrequenz in Schläge pro Minute gemittelt über alle Runs (=Abfahrten).
R ASPD	Durchschnittlich Geschwindigkeit aller Abfahrten in Kilometer/Stunde oder Meilen/Stunde, abhängig von den Einstellungen auf der Uhr für Distanz.
R AVSPD	Durchschnittlich vertikale Geschwindigkeit aller Abfahrten in Meter/Stunde oder Fuß/Stunde, abhängig von den Einstellungen auf der Uhr. Bitte berücksichtigen Sie auch Anmerkung 1
R DIST	Aktuell zurückgelegte Abfahrtsstrecke in Kilometer oder Meilen, abhängig von den Einstellungen auf der Uhr für Distanz.
R TIME	Vergangene Zeit aller Abfahrten im Format hh:mm, h:mm:ss, mm:ss oder m:ss.
R MHR	Maximale Herzfrequenz aus allen Abfahrten in Schläge pro Minute.
R MSPD	Maximale Geschwindigkeit aller Abfahrten in Kilometer/Stunde oder Meilen/Stunde, abhängig von den Einstellungen auf der Uhr für Distanz.
R MVSPD	Maximale vertikale Geschwindigkeit aller Abfahrten in Meter/Stunde oder Fuß/Stunde, abhängig von den Einstellungen auf der Uhr für Distanz.
SPEED	Aktuelle Geschwindigkeit in Kilometer/Stunde oder Meilen/Stunde, abhängig von den Einstellungen auf der Uhr.
STEPS	Anzahl der zurückgelegten Schritte in der aktuellen Trainingseinheit.
STEPS T	Anzahl der zurückgelegten Schritte am heutigen Tag.
STEP G	Schrittziel für den heutigen Tag.
STEP G%	Aktueller Prozentsatz für die Zielerreichung der Schritte für den heutigen Tag.
TEMP	Aktuelle Temperatur in Celsius oder Fahrenheit, abhängig von den Einstellungen auf der Uhr für Temperatur. Bitte berücksichtigen Sie auch Anmerkung 3
TIME	Aktuelle Tageszeit 12- oder 24-Stundenformat, abhängig von den Einstellungen auf der Uhr.
UP	Aufsteigende Höhenmeter in der aktuellen Trainingseinheit in Meter oder Fuß, abhängig von den Einstellungen auf der Uhr für Höhe. Bitte berücksichtigen Sie auch Anmerkung 1
VSPD xs	Aktuelle vertikale Geschwindigkeit in der aktuellen Trainingseinheit in Meter/Stunde oder Fuß/Stunde gemittelt über die letzten x Sekunden, abhängig von den Einstellungen auf der Uhr. Bitte berücksichtigen Sie auch Anmerkung 2

3.1.2 Anmerkungen

Anmerkung 1

Diese Information ist nur dann genau genug wenn die Uhr über einen barometrischen Höhenmesser verfügt. Eine Ableitung der Höheninformation über GPS ist zwar möglich aber ungenau.

Anmerkung 2

Diese Information ist nur dann genau genug wenn Sie über einen ANT+ Geschwindigkeitssensor und eine Uhr mit barometrischem Höhenmesser verfügen. Speziell die Höheninformation ist aufgrund physikalischer Grundsätze sehr ungenau, wenn sie von GPS abgeleitet wird und für Differenzmessungen verwendet wird.

Anmerkung 3

Eine Temperatur-Messung in Garmin Apps funktioniert nur dann wenn Sie über einen ANT+ TEMPE Sensor verfügen.

Anmerkung 4

Diese Information ist nur dann genau genug wenn Sie über einen ANT+ Power Sensor verfügen. Alternative ist auch eine Schätzung der Leistung implementiert, die aber für brauchbare Genauigkeit einen barometrischem Höhenmesser benötigt.

