

NavTraceOne

User manual

Manual Version 1.8
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Hardware Version 2

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Foreword

Thank you for purchasing NavTraceOne, which uses the GPS and GLONASS (Global Positioning System and Globalnaja nawigacionnaja sputnikowaja sistemiema - satellite systems that can provide information about exact position in the world) to determine the exact geographical position of the user. It is designed for people who are blind or partially sighted as a position detection assistant.

Reminder:

NavTraceOne is a complementary device informing the user where he is located, within the limits set by the terrain and GPS/GLONASS signal. The conditions for receiving signals from the satellites and the accuracy of the coordinates of the satellites in the Earth's atmosphere and the accuracy of the Map Data. It does not substitute for a cane or a guide dog.

Disclaimer:

Using NavTraceOne may be subject to restrictions on aircraft, in hospitals, public buildings, government offices, laboratories, etc. It is in such places please comply with the relevant rules in this matter.

Do not allow small children to play with the device. It contains elements that can endanger children's health.

The device must be stored away from heat sources such as radiators. Leaving the device in place of intense sunlight should, be avoided if possible. Excessive heat can not only deform the case but also damage the battery - leading to the destruction of the device. The situation does not apply to the case of normal use of the device on a sunny day.

The housing is not suitable to use it in the case of heavy rainfall without additional protection. Do not expose the device to direct contact with water in any form (rain, flooding, etc.). The design of the keyboard and the top side of the device may be in contact with a small amount of moisture (light rain) but is not waterproof. It is particularly important to protect **the speaker**, integrated **microphone** and **connectors** on the front of the device.

GPS/GLONASS receivers used in the device are partially susceptible to electromagnetic interference in the range of the operating frequency of the system (about 1.6GHz). Avoid placing mobile phones in the vicinity of NavTraceOne during navigation. The same should be followed when using equipment with radio interfaces or Bluetooth® wireless technology.

Legal Notice

By using the Device the User agrees to any terms and conditions described or implied here. If the User does not agree or does not comply with any of the terms and conditions expressed or implied, he is required to cease the use of the Software and Data.

One of the NavTraceOne components is a GPS/GLONASS receiver which systems are wholly owned by the Government of the United States/Russian Federation. Owners of these systems thus assume full responsibility for the accuracy and reliability of GPS/GLONASS positioning systems. The systems can be modified at any time, without prior notice, which is associated with possible changes in their characteristics. GPS/GLONASS signals may not be available at all times, especially in tunnels, indoor, built-up urban areas with high buildings or in dense forests. They can also be unavailable or there can be a significant error in the areas of operation of the US or Russian Federation armed forces.

All product names and services mentioned herein may be trademarks or registered trademarks, in which case they are property of their respective owners.

Depending on your location, additional terms and conditions may apply, as available on <https://legal.here.com/terms/general-content-supplier/terms-and-notices/>.

The Software and Data described in this manual, included on semiconductor memory of the device, supplied to the User via the Manufacturers website or on any other media is to be considered as Software or Data exclusively for usage on the Device and, is fully owned by the Manufacturer or third party license-holders. It is protected by copyright and applicable licensing terms, thus cannot undergo reverse-engineering, be modified, sold, stored or reproduced in any form not explicitly granted by the Manufacturer or third-party license holders. In addition, the purchase of the device should not be, in any event deemed to grant licenses, copyrights, or patents belonging to the Manufacturer or other third-party companies. It is an ordinary, non-exclusive, non-patent granting authorization for use, which results in an obvious manner by operation of law in the sale of the product. Thus, it cannot undergo re-engineering or reverse engineering and cannot be used outside the Device itself in any form other than the necessary steps required for installing the Software or Data on the Device.

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Basic device functionality

1 Description of buttons and connectors

- **on/off** - small, concave button in the top right corner of the device
- **favourites** - button marked with an asterisk, below the on/off button
- **help** - dynamic support at every level of the device. Pressing it gives the current position in the menu. A long press (or multiple long presses) gives extended information about the currently selected functionality (button marked with a person figure, located below the favourites button)
- **back/exit** - button marked with an open circle, below the **help** button
- **voice control** - the biggest button marked with the microphone, it is located in the lower-right corner of the device
- directional buttons (**up**, **down**, **left**, **right** - the buttons with triangular directional arrowheads, situated in the form of a cross on the left side of the device)
- **OK** - approves the execution of the function (the button marked with the tick, similar to ones from the task list. It is located in the middle of the directional buttons)
- on the front panel there are the **headphone** and **microphone** jacks, positioned to the right of the front panel (a microphone jack is located on the edge when viewed from the right). Right next to it there is a headphone jack (stereo, marked with a ring cutout). On the opposite side of the device there is the **micro USB port**, and next to it on the left the "hard" **reset hole**, for use in case of a device lock-up during normal operation.

2 Operating the menu by using the keyboard

Notice: The device distinguishes between short and long keystrokes

- to confirm an action, use the **OK** button
- navigate the list of supported functions using the **left/right** buttons
- directional buttons **up/down** are used to increase or decrease the volume level. Indicated by a corresponding: Level 0 - muted and up.
- **back/exit** button to exit the menu to the upper level.
- **voice control** button is used to activate the voice recognition and enables the use of the device with spoken keywords. Initialization and termination of recording is signaled by an audio queue.

All the buttons support long presses where applicable. For full list of functions where the long presses are supported please read [Operating NavTraceOne](#).

3 Voice Control

Important! To activate this function it is necessary to hold **voice control** button (lower right corner of the device) during delivery of the desired command or address. Speech recognition is active only after a short beep sound while keeping the **voice control** button pressed. Voice control commands are issued using the keywords given in the tables below.

Global - always active commands	
Keyword	Meaning
my position where am I localize	Gives the current device/user location
volume up	Increases the volume
volume down	Decreases the volume
next	Moves between items in the menu
previous	Moves between items in the menu
time hour	Gives the current time
date	Gives the current date
select	Approval of current selection
turn off switch off power down shut down	Turns the device off
battery battery level battery state	Information about the level of battery charge
GPS satellites status	Current state of GPS receiver, number of satellites

Idle - device mode selection	
Keyword	Meaning
my position where am I localize	Gives the current device/user location
navigate	Use the navigation functions
look around near me vicinity	Check what locations are around
examine survey examine route survey route	Start the Survey Route function
audio player music play music	Start the audio player
books book reader	Start Book Reader
recorder voice recorder dictaphone	Start Dictaphone
calendar schedule	Open the Calendar
alarm clock alarm clock	Open the Alarm clock
compass	Start the Compass
settings	Enter the Settings menu

Menu Navigate	
Keyword	Meaning
recent	Enters the “previously selected point” list
address to address	Navigate to address
POI point useful point	Navigate to Point of Interest

Address search	
Keyword	Meaning
next	Go to do next found address (corresponds to the right arrow)
previous	Go to the previous found address (corresponds to the left arrow)
yes accept OK	The approval/confirmation of the selected address (suggested by the device)
no find search	Moves from the suggestion list to voice search
sort order	Change sort order of current list
list all browse	Fetch and browse all entries

Point of Interest selection	
Keyword	Meaning
After category selection	
search find	Find a point by name
list all browse	Browse all available points
While browsing from available points	
search find	Switch from list to searching by name
categories	Readout all categories current point is associated with
sort order	Change sort order of current list
navigate	Navigate to currently selected point
next	Go to the next point on the list
previous	Go to the previous point on the list
yes OK	The approval/confirmation of the selected point

After route calculation	
Keyword	Meaning
navigate	Starts navigation
browse	Browse calculated navigation steps

Navigation	
Keyword	Meaning
my position where am I localize	Provides information about the addresses passed on the way
favourites	Provides information about the favourite points passed on the way

turn direction	Gives the direction in which to move to get to your target
distance	Gives you the distance to the next waypoint

Menu Look Around	
Keyword	Meaning
POI point useful point	Browse nearest Points of Interest
address addresses building buildings	Browse nearest locations

Look Around by Address	
Keyword	Meaning
my position where am I localize refresh	Refresh points of current location
next	Go to the next point from the list
previous	Go to the previous point from the list
navigate	Start navigation to the currently selected point

Look Around by Points of Interest	
Keyword	Meaning
localize refresh	Refreshes point list
next	Go to the next point from the list
previous	Go to the previous point from the list
navigate	Start navigation to the currently selected point
sort order	Change sort order of current list

Favourite points	
Keyword	Meaning
navigate	Navigate to currently selected point
next	Go to the next point from the list
previous	Go to the previous point from the list

Previous points	
Keyword	Meaning
navigate	Navigate to currently selected point
next	Go to the next point from the list
previous	Go to the previous point from the list

Browsing the calculated route	
Keyword	Meaning
navigate	Navigate to currently selected point
next	Go to the next point from the list
previous	Go to the previous point from the list

Working with files	
Keyword	Meaning
next	Go to the next file/directory (same as right arrow)
previous	Go to the previous file/directory (same as left arrow)
select yes play	Confirms selection
enter go in	Enters the currently chosen directory
parent go up	Exits the directory (same as back button)

Audio Player / Book Reader	
Keyword	Meaning
next skip	Go to the next file (same as right arrow)
previous	Go to the previous file (same as left arrow)
pause	Pause audio playback
unpause resume	Resume to the audio playback
stop	Stop playback

Dictaphone / Voice Recorder	
Keyword	Meaning
add record	Add a new recording
play browse	Browse recorded voice notes
Listening to the recorded notes: see Working with files	

Alarm Clock	
Keyword	Meaning
add add alarm add an alarm	Add a new alarm
Commands available only while having an alarm selected:	
delete delete alarm	Delete an alarm
edit edit alarm	Open the Edit sub-menu
edit time edit alarm time	Edit the time of the alarm
edit description edit alarm description	Edit the voice description of the alarm
edit repetition edit alarm repetition	Change the alarm repetition

Schedule / Calendar	
Keyword	Meaning
browse browse events	Access the list of added events
today today's events	Access the list of today's events
add add event add an event	Add a new event
Commands available only while having an event selected:	

Schedule / Calendar	
delete delete event	Remove current event
edit edit event	Open the Edit sub-menu
edit time edit event time	Edit the time of selected event
edit date edit event date	Edit the date of the selected event
edit description edit event description	Edit the description of the selected event
edit repetition edit event repetition	Change event repetition

4 Turning the device on or off

- To turn the device on, press and hold the **on/off** button for 3 seconds until the device vibrates. After another 10 seconds, you will hear a **"device starting"** message. Then wait for the **"device ready"** message.
- To turn off, press and hold the **on/off** button until the device vibrates and you hear the message **"shutting down"**. The device is fully off after it vibrates another time.
- To switch off using voice commands please say **turn off**. In order to confirm say **turn off** or **yes**.

5 Available functions

- **Where am I** - give the current position of the user
- **navigate** - navigate to the location selected on the map
- **look around** - check what locations are around
- **survey route** - calculate route starting from an arbitrary location
- **audio player** - plays audio files stored on the built-in internal memory
- **book reader** - allows you to play books in audio format (mp3, wav) with bookmark support
- **voice recorder** - allows you to record voice memos for general use. The files are stored in MP3 format
- **calendar** - here you can, add events, add notifications, view existing events, edit and delete them
- **alarm (clock)** - a function that allows you to set alarms just like with traditional watch or phone
- **settings** - here you have access to basic settings like: map, date, time zone, language option, gender of the voice synthesizer, voice speed and battery level, serial number, compass calibration and adjustments of the messages heard during navigation
- **compass** - gives information which direction device/user is facing
- **storage mode** - connect to your computer and copy files or update the software
- **own points with sound descriptions**. Important: You can use saved points as navigation destinations. Simple recording, viewing, editing and starting the navigation.

6 LED signals

LEDs are located in the upper left corner of the device on the level of the on/off button. Left (red) LED indicates battery and charging status, right (green) the state of the current GPS positioning.

- red LED (left):
 - ◆ no light: device is off
 - ◆ standard light: normal operation of the device
 - ◆ pulsating glow: battery low; also during normal charge process

- ◆ fast flashing: critical battery level. battery charger connection required
- green LED (right)
 - ◆ no light: no fixed position
 - ◆ pulsating glow: starting the device
 - ◆ steady light: GPS position acquired.

7 Battery level messages

- The user is informed about two substantial battery charge states:
 - ◆ **"battery low"** is a state of about 30 % of the battery.
 - ◆ **"battery level critical"** is the state below 10% of the battery charge. These messages are repeated every 10 minutes.
- After connecting the battery charger you will hear the message **"charging"**.
- When battery charging completes, you will hear the message **"battery charged"**.

8 Charging the device

To charge the battery, the device must be connected to a charger using the USB cable. Charging will start automatically.

If the battery was fully discharged it is possible to turn on the device after connecting the charger and waiting about 3 to 5 minutes. If the device was left fully discharged for a prolonged period of time, this time may be extended.

You can also use a computer's USB port to charge the device, but the charging time in this case may be much longer. depending on the type of USB port used. For optimal charging times please use USB3.0 ports if available.

The Manufacturer is not responsible for the consequences of using chargers other than the one supplied with the device.

Operating NavTraceOne

1 Main Menu

In the main menu (highest level) user has access to following shortcuts:

Short press of **OK** button invokes [Where am I](#).

Long press of **OK** button invokes [Navigate to previously selected point](#).

Long press of **left** button invokes [Navigate to address](#).

Long press of **right** button invokes [Navigate to Point of interest](#).

Long press of **up** button invokes [Look around by building](#).

Long press of **down** button invokes [Look around by Point of Interest](#).

2 Where am I

By pressing the **OK** button you will receive information about your location on the map. If there is a nearby favourite point present, you will also be informed about it.

[to use voice commands say **where am I**]

3 Navigate

Possible choices: ["To previously selected point"](#), ["To address"](#) or ["To point of interest"](#).

If there is a suspended navigation session, after entering this menu you will be prompted to continue the navigation. Resuming the navigation session is also possible by long pressing the **OK** button.

3.1 To previously selected point

This is a list of 40 recently selected destination points, ordered from newest to oldest.

Pressing the **OK** button (voice command: **navigate**) starts navigation to currently selected point.

Left/right buttons cycle through the list of available points.

[to use voice commands say **recent**].

3.2 To address

Press the **OK** button to enter the destination address, first choose the city, then the street and finally the building number.

[to use voice commands say **navigate**].

3.2.1 Selecting a city

The device always prompts the nearest city, taking into consideration the current or last acquired location of the user.

Left/right buttons cycle through the list of cities suggested by the device.

Long press of the **up** button lists all available cities.

Long press of the **down** button allows you to select a different sort order.

Long press of the **OK** button allows you to spell the city name (see [Spelling addresses](#)).

OK button [or voice: **Yes**] confirms the selection of the city as destination.

Back button [or voice: **No**] goes to the city voice search (message: **find city**).

Speak out the name of the city without the use of additional keywords (for example: **London**). The device will ask for confirmation by pronouncing the name: **London?** Controls are the same as in the list of suggestions.

If the selected city has no associated streets route search will commence.

3.2.2 Selecting a street

If the selected city has no associated streets route search will commence.

In street search the device automatically switches to voice search (message: **find street**).

Left/right buttons cycle through the list of the streets suggested by the device.

Long press of the **up** button lists all available streets.

Long press of the **down** button sorts the list alphabetically.

Long press of the **OK** button allows you to spell the street name (see [Spelling addresses](#)).

OK button [or voice: **Yes**] confirms the selection of the city as destination.

Back button [or voice: **No**] goes to the street voice search (message: **find street**).

Speak out the name of the street without the use of additional keywords (for example: **Regent Street**). The device will ask for confirmation by pronouncing the name: **Regent Street?** Controls are the same as in the list of suggestions.

3.2.3 Selecting a building number

In building search the device automatically switches to voice search (message: **find building**).

Speak out the number without the use of additional keywords (for example : **Eleven**). The device will ask for confirmation by pronouncing the number: **Eleven?**

Left/right buttons cycle through the list of the building numbers suggested by the device.

Long press of the **up** button lists all available cities.

Long press of the **down** button allows you to select a different sort order.

Long press of the **OK** button allows you to spell the building number.

OK button [or voice: **Yes**] confirms the selection of the building as destination.

Back button [or voice: **No**] goes to the building number voice search (message: **find building**).

3.3 To Point of Interest

First you need to select the desired city, then the category you want to browse. After selecting the category you have a choice either to browse all points of interest in the selected category or search for a point by name.

3.3.1 City selection

The device always prompts the nearest city, taking into consideration the current or last acquired location of the user.

Left/right buttons cycle through the list of cities suggested by the device.

Long press of the **up** button lists all available cities.

Long press of the **down** button allows you to select a different sort order.

Long press of the **OK** button allows you to spell the city name (see [Spelling addresses](#)).

OK button [or voice: **Yes**] confirms the city selection.

Back button [or voice: **No**] goes to the city voice search (message: **find city**).

Speak out the name of the city without the use of additional keywords (for example: **London**). The device will ask for confirmation by pronouncing the name: **London?** Controls are the same as in the list of suggestions.

3.3.2 Category selection

Short press of the **OK** button enters the selected category.

Long press of the **OK** button confirms selection of current category.

Short press of the **back** button goes back a level higher.

Left/right buttons cycle through the list.

3.3.3 Browsing the point list

Short press of the **back** button allows you to go back to voice search or whole list selection.

Long press of the **down** button allows you to select a different sort order.
Long press of the **up** button lists all categories that the currently selected point is associated with.
Long press of the **OK** button (voice command: **navigate**) starts navigation to currently selected point.
Left/right buttons cycle through the point list. Short press advances by 1, long press by 5.

3.4 To postal code

This functionality is available only on select maps.
You will be presented with a list of nearest postal codes.
Long press of the **OK** button (voice command: **navigate**) starts navigation to currently selected postal code.
Long press of the **OK** button allows you to spell the postal code (see [Spelling addresses](#)).
Long press of the **down** button allows you to you to select a different sort order.
Left/right buttons cycle through the point list. Short press advances by 1, long press by 5.

3.5 After route calculation

After route calculation you can decide if you want to immediately start the navigation or browse the calculated route. See [Route browsing](#).

3.6 Route browsing

Left/right buttons cycle through the direction list.
OK button replays the current navigation direction.
Long press of the **OK** button [voice command: **navigate**] starts the navigation.

3.7 Control during navigation

OK button pressed during navigation reads out current navigation step.
Long press of **OK** button reads out nearest favourite point if any is nearby. (Announcement distance: see [Settings](#)).
Short press of **right** button reads out direction needed to stay on route.
Long press of **left** button reads out a short description of current navigation step.
Long press of **left** button reads out destination distance.
Long press of **up** button invokes a navigation submenu where you can recalculate the route or change message timing (applicable only to current navigation session).
Long press of the **down** button reads out the current time.
Short press of **back** button allows you to end the navigation or pause it leaving computed directions in memory allowing resuming the navigation at a later point.
Long press of the **back** button immediately ends the navigation.

3.8 Spelling addresses

Left/right buttons cycle through the letter list. Short press cycles through by one entry, long press by 5.
Long press of **up** button spells out currently entered letters.
Short press of the **OK** button selects current letter.
Short press of the **back** button erases last letter.
Long press of the **OK** button searches for the entered address.
Long press of the **back** button exits without searching.

4 Look Around

Possible choices: **"By buildings"** or **"By Points of Interest"**.
[to use voice commands say **look around**].

4.1 By buildings

Press the **OK** button to refresh points for current location.

Browse point list with the **left/right** arrows. Short press cycles through by one entry, long press by 5.

Start navigation to currently selected point by long pressing **OK** button (voice command: **navigate**).

4.2 By Points of Interest

After acquiring nearest points of Interest user is supplied with a list of categories nearby points are associated with. After selecting the desired category user is supplied with a list of points.

[to use voice commands say **POI**]

4.2.1 Category Selection

Left/right buttons cycle through the category list.

OK button confirms category selection.

4.2.2 Browsing the list

Short press of **OK** button refreshes current point list.

Long press of **down** button allows for changing current list sort order.

Long press of **up** button reads out all categories current point is associated with.

Long press of the **OK** button (voice command: **navigate**) starts navigation to the currently selected point.

Left/right buttons cycle through the list of available points. Short press steps by one, long press by 5.

4.3 By Postal Codes

This functionality is available only on select maps.

Short press of **OK** button refreshes current postal code list.

Long press of **down** button allows for changing current list sort order.

Long press of the **OK** button (voice command: **navigate**) starts navigation to the currently selected point.

Left/right buttons cycle through the list of available points. Short press steps by one, long press by 5.

5 Survey route

This feature allows you to survey route starting from an arbitrary location.

First you select a starting location, then destination.

For controls see: [Navigate](#).

6 Dictaphone / Voice Recorder

Press the **OK** button to start recording. Pressing any key during the recording finishes recording.

To listen to the recordings: while being in the voice recorder sub-menu, browse with the **right/left** arrows and confirm by pressing **OK** button.

To delete a voice note while the list of voice notes press and hold **up** arrow, to remove the current note confirm with **OK** button, then press **left/right** arrow and confirm again.

[to use voice commands say **dictaphone**].

7 Audio Player

Press the **OK** button to choose file or directory.

During playback, the **OK** button pauses or resumes the playback. **Left/right** arrows can be used to navigate between songs.

Long press of **left/right** arrows fast forwards / rewinds current song.

Press **exit** button to stop. Long press the **exit** button to exit the player.

[to use voice commands say **audio player**].

7.1 Working with files

Pressing the **OK** button selects a file.

Left/right arrows are used for browsing through the list of files.

7.2 Working with directories

Pressing the **OK** button enters the directory.

Long press the **OK** button to start playback of the selected directory.

7.3 Removing files and directories

To remove the currently selected file/directory in the list of files/directories, long press the **up** arrow, confirm intention to remove the current file/folder with the button **OK**, then use the **left/right** arrows to confirm the deletion.

8 Books Reader

Pressing the **OK** button selects the directory.

Each book must be placed in a separate directory.

During playback, the **OK** button pauses or resumes playback.

Left/right arrows can be used to navigate between files/chapters in the directory.

Long press of **left/right** arrows fast forwards / rewinds current file.

Long press of **up/down** arrows changes playback speed.

Press the **exit** button to stop playback. Long press the **exit** button to exit the player.

[To use voice commands say **books**].

8.1 Working with directories

Press the **OK** button to enter the directory.

Long press **OK** button to start playback of the entire directory.

Note: The book operates on directories and not on single files.

There is no way to play a single file outside of a directory.

8.2 Removal

To remove the currently selected book from the list of directories, long press the **up** arrow, confirm with **OK** button, then use **left/right** arrows to confirm the deletion.

9 Calendar

To add an event you must enter in the proper order: year, month, date, time, voice description (your own recording describing the event).

Press the **left/right** arrows to move up or down by one (year, month, day) on the event list.

Long press the **left/right** arrows to move up or down by 5 (years, months, days) on the event list.

You can set the event as repetitive or not. You will hear the message: **event added**.

[to use voice commands say **calendar**]

To delete an entry using voice commands in your calendar while having an entry selected say **delete** and confirm again saying **delete** or **yes**. In case you do not want to delete that entry say **no**.

9.1 Repetition

Daily - repeat the event every day.

Days of the week - repeat the event on selected days of the week.

Weekly - repeat the event every week or selected number of weeks.

Monthly - repeat event every month of every selected number of months.

9.2 Enter a description

Event description is a recording - maximum length is 10 seconds.
Pressing any key finishes recording.

9.3 Browsing

Today's events - here you will find entries for the current day.

View events - press the **left/right** arrow to jump by one day.

Long press of **left/right** arrow to jump to the next or previous month.

OK button selects a particular day.

Calendar view of the day - press the left/right arrow to jump by one entry.

Long press **left/right** arrow to jump by five entries.

Long press **up** arrow opens edit entry sub-menu.

10 Alarm clock

You must enter in the proper order: hour, minute, repetition (repeat daily, on specified weekdays, or one time alarm), voice description.

Alarm description is a recording - maximum length is 10 seconds.

Left/right arrows are used for browsing the existing alarms.

OK button activates or deactivates the alarm

Long press **up** arrow to edit/remove the alarm.

Notice! Using edit/remove functions requires additional confirmation - press the **OK** button.

[To use voice commands say **alarm**]

To remove an alarm using voice commands say **remove** and confirm again saying **remove** or **yes**.

In case you do not want to remove that entry say **no**.

10.1 Hour selection

Press the **left/right** arrows to jump one hour. Long press **left/right** arrows to jump five hours.

10.2 Minute selection

Press **left/right** arrows to jump one minute. Long press **left/right** arrows to jump five minutes.

10.3 Repetition

Daily - repeat the alarm every day.

Days of the week - repeat the alarm on certain days of the week.

No repeat - single alarm, without repetition.

10.4 Enter a description

Alarm description is a recording - maximum length is 10 seconds.

Pressing any key finishes recording.

11 Settings

In this menu, you can get information about the level of battery charge, the device (software version, serial number), change the language settings (language, gender, voice, speech speed), set the date, time zone, and calibrate the compass.

Warning: Changing the language or voice gender requires a restart of the device.

[to use voice commands **settings**].

11.1 GPS

Here you can get the basic information about your GPS' state, power it off for up to 24 hours or until next use.

11.2 Map

In this menu, you can check what map is currently loaded and change the loaded map.

11.3 Localization

Change settings related to localization functionality.

11.4 Navigation

Change settings related to navigation functionality.

11.5 Speech

Here you can change selected voice gender or language of your device. To apply these settings please restart the device.

11.6 Date

Change the date set in the device.

11.7 Time Zone

Change the configured time zone.

11.8 Distance units

Select either metric (kilometers. meters) or imperial (miles, feet) units.

11.9 Book Reader

Change default playback speed of your audiobooks.

11.10 Device Info

Get your serial number, installed software version.

11.11 Calibrating the compass

All devices have factory-calibrated compass, however if you receive erroneous information about the direction during navigation you can re-calibrate the compass.

To calibrate the compass select **Compass calibration** in the settings menu. You will hear a brief statement describing the process. Rotate the device around all axes for about 15-25 seconds. The device will inform you when the calibration has finished.

12 Compass

For information on the geographic directions use compass function, press OK button and then rotate the device.

To re-calibrate the compass, long press the **up** arrow (see [Calibrating the compass](#)).

[to use voice commands say **compass**].

13 Connect to PC

You have a choice of two modes: **copy files** and **update**. For updating your device see [Updates](#).

Copying files can be used if you wish to save your files from the devices memory eg. music or books or remove stored files in way you do when you use a flash drive (memory stick). The files of particular types should be saved in the appropriate directories in the device memory. For example: mp3, wav, ogg and similar should be saved in music directory, book directory is for audio books, maps in maps.

The Tser can set up any folders on the device, but music and books must be put in the appropriate dedicated directories. Only such a structure of files/directories enable correct operation of the device.

Warning: The upgrade option should be used with care, using only the files provided by the manufacturer. The manufacturer is not responsible for any damage resulting from attempts of using the update files from other sources.

14 Dedicated Favourites button

After pressing the button you can add or change description of your favourite points or use the navigation features based on such points.

Short press **Favourites** button to enter the favourite points menu.

After entering the favourites menu use **left/right** arrows for browsing favourite points. Pressing the **OK** button sets the selected point as the target. This is equivalent to starting the navigation to the selected point.

Long pressing the **up** arrow or **OK** button enters the edit selected favourite point option where we can change the audio description to obtain information about the geographical coordinates or remove unnecessary point.

While in the favourite points menu, long pressing the **Favourites** button either from your current location or by selecting an address from the map (see [To address](#), [To Point of Interest](#)). After selecting the location you will be prompted to provide a voice description of the newly added point (up to 10 seconds, pressing any button ends the recording earlier).

The number of stored favourite points is limited only by the available memory in the device.

15 Updates

Update files can be downloaded from our website at www.migraftech.eu after logging in. The first log-in will require registration of the device - its serial number and basic personal information will be needed.

To update do as follows:

1. After downloading the file, save it locally on your computer by selecting e.g. desktop as a storage location without changing the file name.
2. Connect NavTraceOne to the PC using the included USB cable.
3. Select the **Storage mode** menu option and then update.
4. Use explorer to find NavTraceOne on the list of connected external devices.
5. The update files saved on the desktop should be moved or copied to the **update** directory located in the internal memory of the device.
6. Remove (eject) the storage device from your computer using the standard procedure for safe removal (ejection) of a USB device.
Warning: Do not disconnect the USB cable from the PC or connect it to the supplied charger. The update will not start if the device isn't connected to a power source.
7. Press and hold the button Back for one second starting the update process.
8. The device will check the correctness of update files and ask for permission to install the new software version.
9. The device will install the new software version and ask for permission to restart itself.
10. The device will restart. The whole process ends with a a message "device successfully updated".

Warning !

During the whole process of updating, the device must be connected via a included USB cable to an external power source (computer or external power supply). In the event of power loss (discharged battery) during updating manufacturer can not guarantee the restoration of full functionality of the device and is not responsible for any damages.

16 General usage remarks

During the first start up of the device or after a complete battery discharge, the time needed for finding GPS position can be noticeably longer due to the need to rebuild positioning information.

Additionally it will be necessary to pass about 10 meters in any direction after starting the device and determining the latitude and longitude for proper direction.

17 Where to find support

In case of issues not covered by this manual please contact us by means of contact form found at www.migraftech.eu/en/contact.

We also encourage users to register through the above-mentioned website their devices with the serial number (read the serial number in **Settings, Device info, Serial Number**). Only registered users will have access to software updates and new maps.

You can also contact us using the e-mail address: support@migraftech.eu.

18 Specification

- Cortex® A7 processor dual core 1GHz
- 1GB DDR3 RAM
- Precision GPS/GLONASS receiver
- Li-Ion battery, 2700mAh
- 8GB of system NAND storage
- 32 or 64 GB of built-in memory
- Built-in speaker and high sensitivity microphone
- 3.5mm jack connector for headphones with built-in microphone
- Micro USB 2.0 High Speed port for charging and communication with the computer [USB device mode]
- Nuance® Speech Recognition
- Clear speech synthesis
- Maps: **HERE**