XTRA.TRACK REMOTE

User Manual

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Safety

All De Haardt's products are designed as supplement to make go-karting safer but cannot replace safe track procedures. If equipment fails, the normal operating procedure must still be adequate to safely operate the track.
This document has been written with great care. However, the manufacturer cannot be held responsible, either for any errors occurring in this publication or for their consequences.

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1 Getting started

This manual provides information about correctly configuring and using the Xtra.Track Remote. The full functionality of the Xtra.Track Remote will be explained.



Figure 1 - Xtra.Track Remote box.

1.1 What's in the box

Before proceeding, check the contents of the box. The following parts are included:

- **Xtra.Track Remote**



Figure 2 - Xtra.Track Remote.

- **USB A to C cable 0,5m**



Figure 3 - USB A to USB C cable.

- **De Haardt lanyard**



Figure 4 - Xtra.Track Remote lanyard.

1.2 Service accessories

This product is **NOT** included with the Xtra.Track Remote. The product below is necessary for setting the switch tables of Xtra.EV/CAN transponders.

Xtra.Config Plug for the Xtra.EV Transponder MK2 and the Xtra.CAN Transponder (Pro).



Figure 5 – Xtra.Config Plug (200.632).

1.3 Charging

The Xtra.Track Remote is powered by a rechargeable Lithium-ion battery.

The Xtra.Track Remote requires a full charge before first use.

WARNING!
The Xtra.Track Remote battery should only be repaired or replaced by a trained technician to avoid battery damage, which could cause overheating, fire or injury.

1.3.1 Connecting the adapter

Connect the provided USB-C cable to the USB-C port on the bottom of the Xtra.Track Remote and plug it into a 5V, 1A adapter into a main power supply socket.

Connecting the adapter to the Xtra.Track Remote charges the battery and allows it to be used when the battery is empty.
The Xtra.Track Remote can also be charged while connected to a PC using the USB-C cable.

When charging the Xtra.Track Remote will show a popup for the first 5 seconds.

1.3.2 Wireless charging

The Xtra.Track Remote can be charged wirelessly using a Qi compatible wireless charging pad.

Align the charging coil in the Xtra.Track Remote with the coil in the wireless charger. The center of the Xtra.Track Remote coil is marked by the symbol on the back of the remote pictured in Figure 6 - Wireless charging icon.



Figure 6 - Wireless charging icon.

Wireless charging has a limited charging speed and might charge slower than using a USB cable.

When the Xtra.Track Remote is wireless charging it will show a popup for the first 5 seconds.

> **WARNING!**
> Due to the heat generated during wireless charging, it is not recommended to use wireless charging above 30°C.

2 Operation

The operation of the Xtra.Track Remote will be explained in this chapter.

2.1 Buttons overview

Figure 7 pictures an overview of the buttons on the Xtra.Track Remote.

2.1.1 Keypad

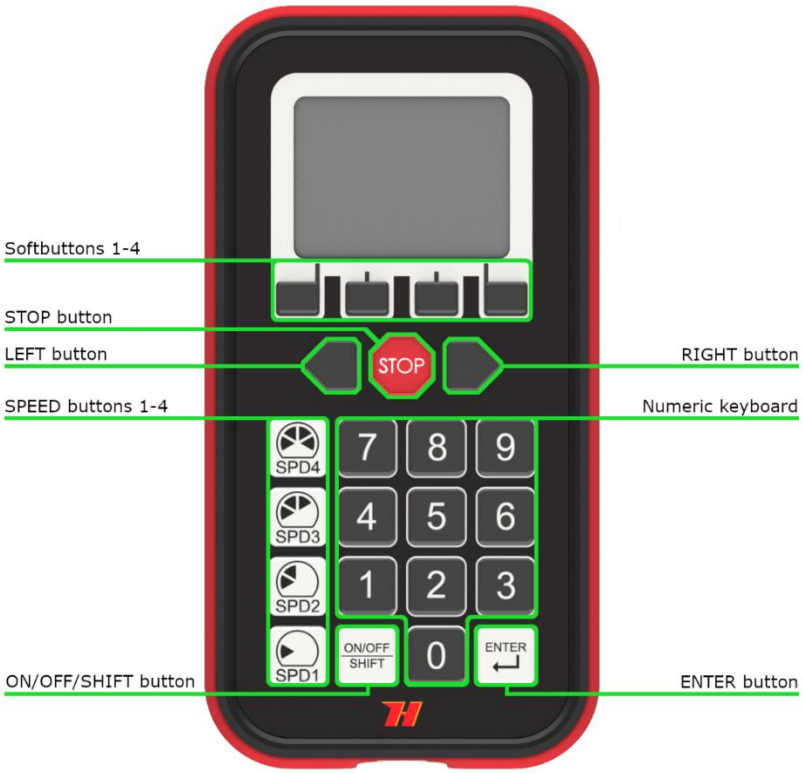


Figure 7 - Xtra.Track Remote keypad.

2.1.2 On-screen buttons



Figure 8 - Selection up button.



Figure 9 - Selection down button.



Figure 10 - Cancel button.



Figure 11 - Confirm button.



Figure 12 - Return button.



Figure 13 – Search button.



Figure 14 - Update button.



Figure 15 - Shutdown button.



Figure 16 - Sleep mode button.

2.2 Xtra.Track Remote power control

Press the **ON/OFF/SHIFT** button on the keyboard of the Xtra.Track Remote for at least one second to turn the device on.



*Figure 17 - **ON/OFF/SHIFT** button.*

Once on, the device can be turned off by pressing and holding down the **ON/OFF/SHIFT** button for 5 seconds. A pop-up will show options to turn the device off, to go into sleep mode or cancel.

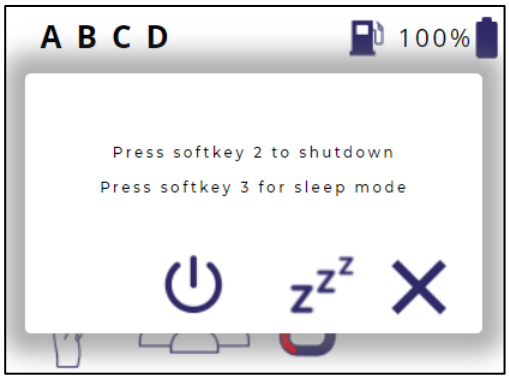


Figure 18 - Shutdown/Sleep mode pop-up.

2.3 Stopping go-kart(s)

The different operations that use the **STOP** button will be described in this chapter.

> Pressing **STOP** on a track with fuel go-karts will shut down all engines. The engines must be restarted manually.

2.3.1 Stopping all go-karts at once

To stop all go-karts, press the **SHIFT** button followed by the **STOP** button.
For example:



Figure 19 - Stop all go-karts sequence.

> The default usage of the **STOP** button is set to **SHIFT**+**STOP**. This can be changed to a single **STOP** press.
> See chapter 3.3.1 for more details.

2.3.2 Stop an individual go-kart

Stopping an individual go-kart can be done in two ways:

2.3.2.1 Stopping by serial number

An individual go-kart can be stopped by entering the serial number of the Xtra.Transponder mounted on the go-kart and then pressing **SHIFT + STOP**.

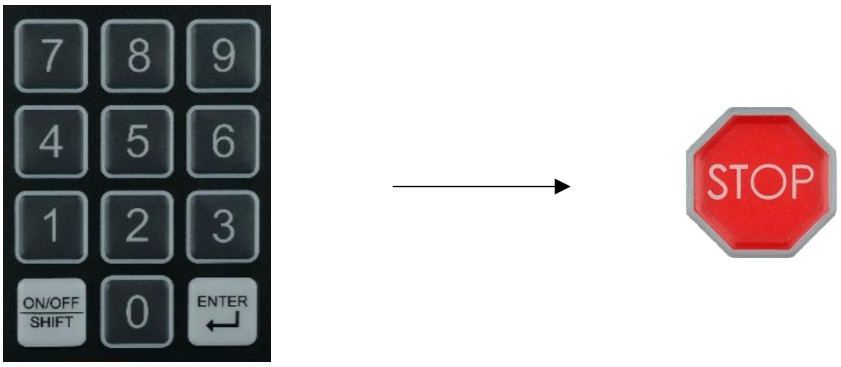


Figure 20 - Serial number stop sequence.

Serial numbers can be found on the front label of the Xtra.Transponder.

2.3.2.2 Stopping by go-kart number

Enter a go-kart number and then press **SHIFT + STOP.**



Figure 21 - Go-kart number stop sequence to stop go-kart number 5.

2.4 Adjust speed of go-kart(s)

Adjusting the speed of go-karts can be done in the following ways:

On the Xtra.Track Remote, there are 4 buttons to adjust the speed of the go-kart(s).
SPD1 is the slowest speed, **SPD4** is the fastest speed.



Figure 22 - Speed buttons.

2.4.1 Adjust speed of all go-karts

The speed of all go-karts can be adjusted by pressing any **SPD** button.



*Figure 23 - Adjust speed sequence. Sets the speed of all go-karts to **SPD4***

2.4.2 Adjust speed of individual go-kart

2.4.2.1 Adjust speed by serial number

The speed of an individual go-kart can be adjusted by entering the serial number of the Xtra.Transponder mounted on the go-kart and then pressing any **SPD** button.

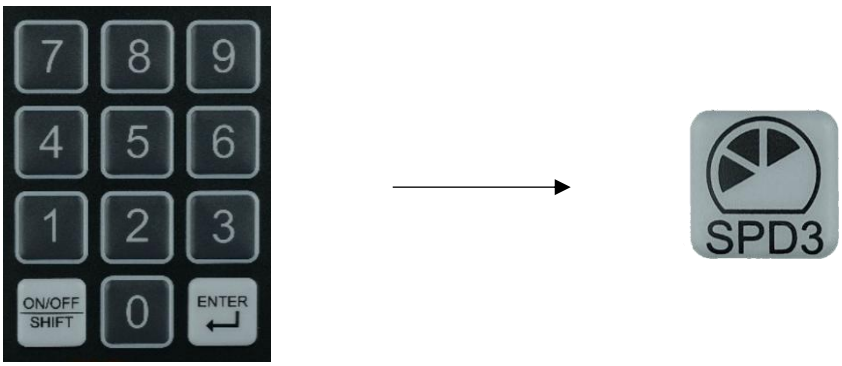


Figure 24 - Serial number adjust speed sequence.

Serial numbers can be found on the front label of the Xtra.Transponder.

2.4.2.2 Adjust speed by go-kart number

The speed of an individual go-kart can be adjusted by entering the go-kart number of the Xtra.Transponder mounted on the go-kart and then pressing any **SPD** button.

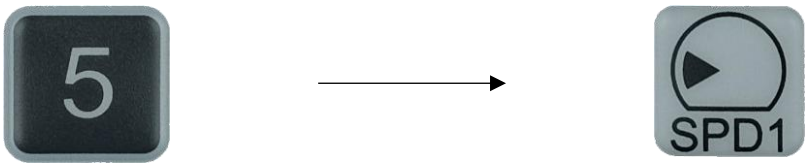


*Figure 25 - Go-kart number adjust speed sequence to set go-kart number 5 to **SPD1**.*

2.4.3 Adjust the speed on 8 SPD mode

To adjust the speed beyond **SPD4** a special input is required.

> 8 SPD mode is only available on select Xtra.EV/CAN Transponders when the Xtra.Track Remote is set to Electric 8 Speed mode.

To adjust the speed beyond **SPD4**, press the **SHIFT** button and select **number 5** to **number 8**, setting the speed of the selected Xtra.Transponder(s).

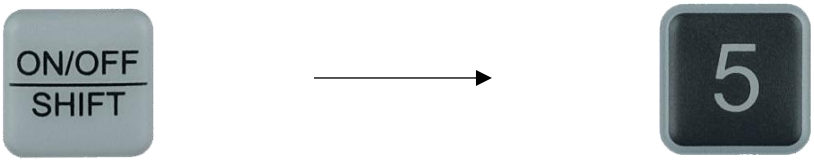


*Figure 26 - Extra speed sequence, sets **SPD5**. (Electro 8 Speed only)*

2.4.4 Adjust speed of groups

The speed of groups of go-karts can be adjusted. For more details see chapter 2.7.

2.5 Main screen

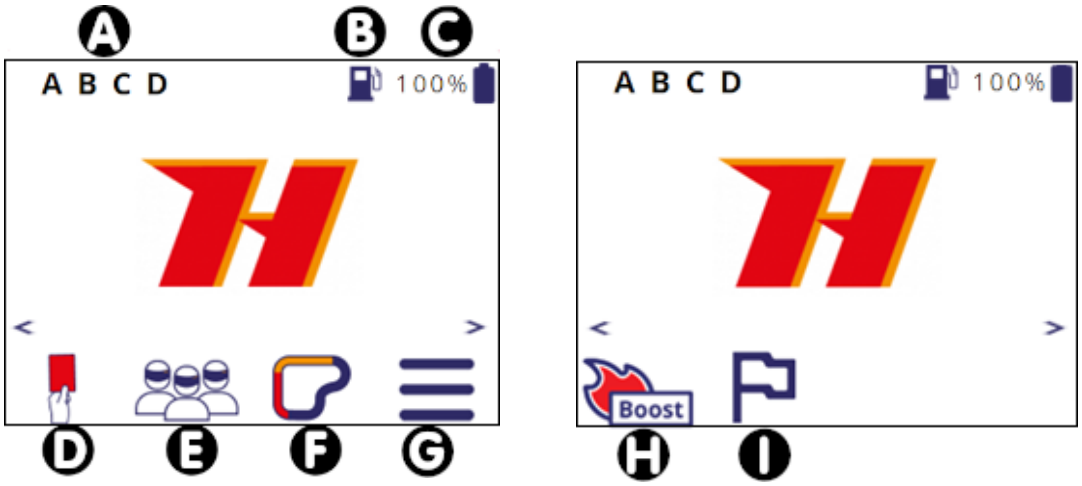


Figure 27 - Main screen overview.

Status bar:

- A Active tracks; The tracks on which the Xtra.Track Remote is currently active.
- B Fuel/Electric mode; The type of go-kart mode which is currently active.
- C Battery percentage; The current state of charge of the Xtra.Track Remote.

Main screen menus:

- D Penalty menu
- E Groups menu
- F Sector menu
- G Configuration menu
- H Boost menu
- I Session control menu

Each of the functionalities will be further explained in the following chapters.

2.6 Penalty menu

Penalties are speed limitations that will be active for a predetermined time. They can be given to all go-karts, an individual go-kart or a group of go-karts.
Enter the penalty menu by pressing **soft button 1** below the penalty icon from the Main screen.



Figure 28 - Penalty icon.

2.6.1 Penalty all go-karts

To penalise all go-karts, press the **SPD** button from this menu without a preceding number.

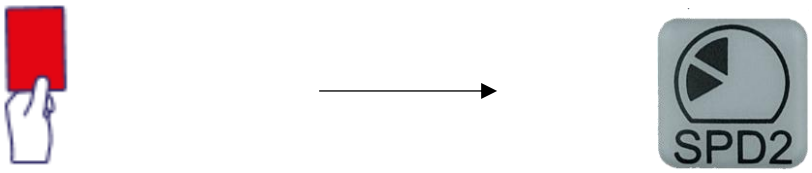


Figure 29 - Penalty sequence.

2.6.2 Penalty individual go-kart

To penalise an individual go-kart select the penalty icon by pressing **soft button 1** from the Main screen followed by the go-kart icon on **soft button 1**.
Then enter the go-kart number and press the **SPD** button.

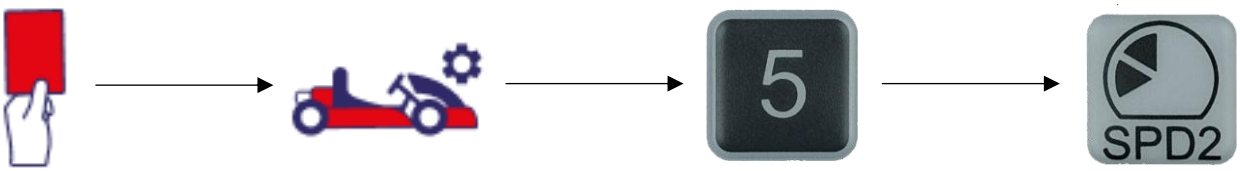


Figure 30 - Penalty individual go-kart sequence.

2.6.3 Penalty group

To penalise a go-kart group, select the penalty icon by pressing **soft button 1** from the Main screen followed by the group icon on **soft button 2**.
Then enter the group number, followed by the **SPD** button.

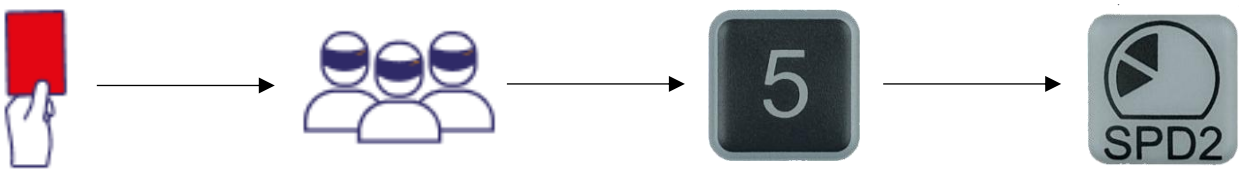


Figure 31 - Penalty group sequence.

2.6.4 Change penalty time

The penalty time can be changed by pressing **soft button 3** in the penalty menu.



Figure 32 - Change penalty time icon.

Select a time for the penalty by pressing **up/down buttons** and press the confirm button on **soft button 3** to save.

2.7 Group menu

The speed of a group of go-karts can be adjusted in the group menu.

> Group numbers must first be set in the Xtra.Transponder before they can be used.
> See chapter 3.2.40 for more details.

Press **soft button 2** below the group icon from the Main screen to enter the group menu.



Figure 33 - Group icon.

To adjust the speed of a group, enter the group number and then the **SPD** button. Group numbers range from 1 to 5.

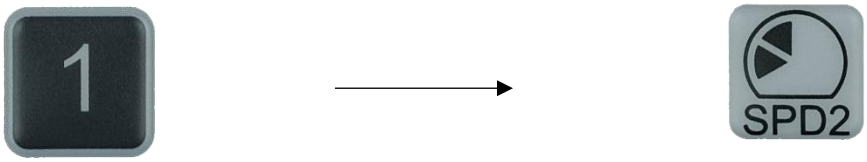


Figure 34 - Group speed selection sequence.

2.8 Sector menu

To adjust the speed of all go-karts in a specific sector, enter the sector menu by pressing **soft button 3** from the main screen.



Figure 35 - Sector selection icon.

Enter the sector number and then press the **SPD** button.

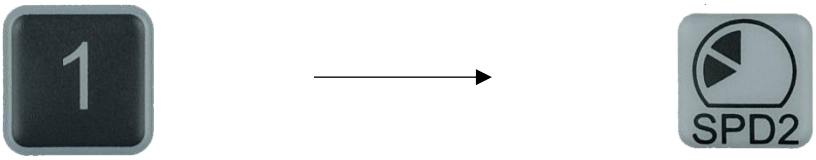


Figure 36 - Sector speed sequence.

To adjust the speed in several succeeding sectors, enter the sector menu, enter the first sector number and then press the **ENTER** button. Then enter the last sector number and press the **SPD** button.

To use the sector options, the go-kart must be fitted with an Xtra.Sensor
The track must be subdivided into sectors using Xtra.Beacons.

2.9 Session control menu

In the Session control menu, a session can be started, paused, stopped and finished.

> To use this option, the Xtra.Black Box must be connected to a PC which has software running that is compatible with Session Control.

To navigate to the Session control menu, press **left** or **right arrow button** from the main menu to switch the soft button bar. Then press **soft button** 2.

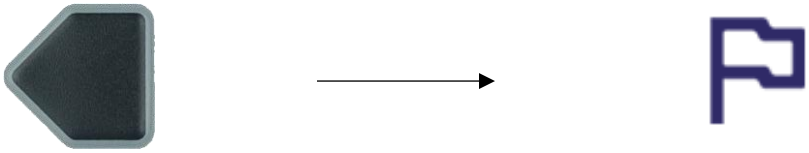


Figure 37 - Enter Session control menu sequence.

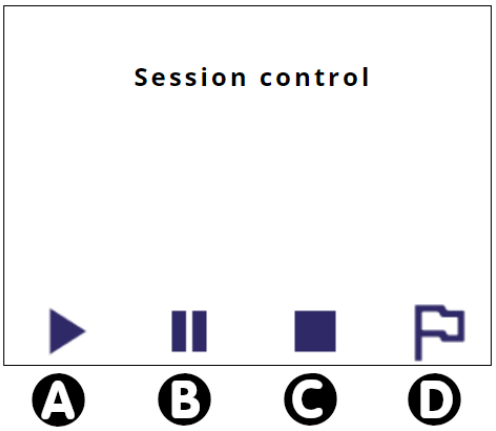


Figure 38 - Session control menu.

The buttons have the following functionality:

A **Soft button 1**: Start a session
B **Soft button 2**: Pause a session
C **Soft button 3**: Stop a session
D **Soft button 4**: Finish session

To return to the main screen press **0**, **ENTER or RIGHT button**.

> Session control functionality must be implemented by third party software suppliers in their software using the Xtra.Black Box.

2.10 Boost menu

The boost configuration allows users to set the boost time of a transponder.

> Only EV/CAN transponders that support boost can be used with this function.

To navigate to the Boost menu, press **left** or **right arrow button** from the main menu to switch the soft button bar. Then press **soft button** 1.

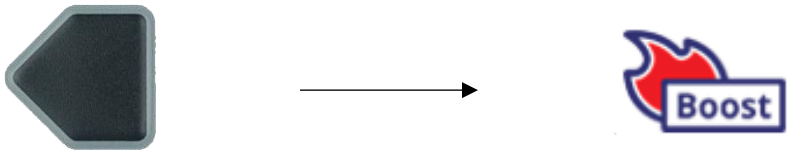


Figure 39 – Boost function menu sequence.

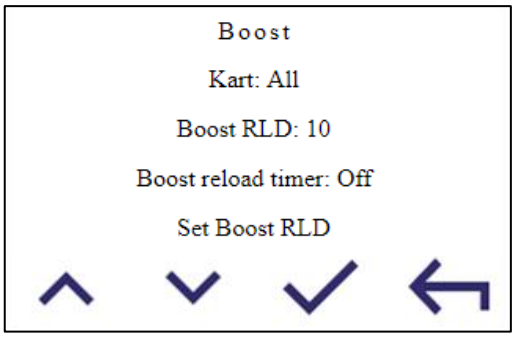


Figure 40 - Boost function menu.

Kart: Enter the go-kart number or serial number to configure.
Boost RLD: Sets the boost time.
Boost reload timer: Enable or disable the timer for automatic reload of the boost. (EV/CAN-TRP V3.4.2)
Set reload timer: The time when the boost automatically reloads.
Set Boost RLD: Sends the boost time to the selected Xtra.Transponder.
Get Boost RLD: Requests the remaining boost time from the selected Xtra.Transponder.
Force Boost RLD: Forces a reload of the remaining Xtra.Transponder boost timer.

> The boost reload timer only works on EV/CAN transponders with version 3.4.2 or higher.

3 Configurations

3.1 Configuration menu

Press the **soft button 4** button to go to the configuration menu.



Figure 41 - Configuration menu menu icon.

The Configuration menu is protected with a PIN code. The default PIN code is **0000**.



The PIN code can be changed or disabled.
See chapter 3.3.13 for more details.

The configuration menu allows components of the Xtra.Safety system to be selected for configuration, or view system information.

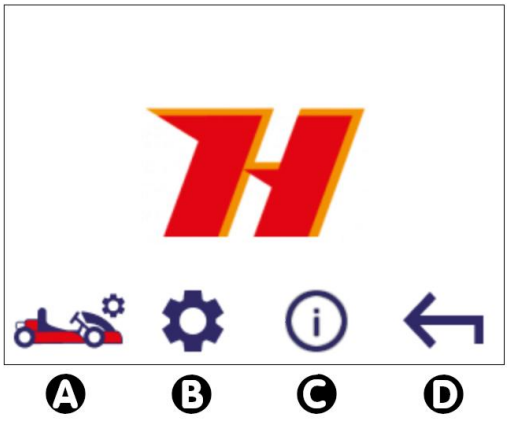


Figure 42 - Configuration menu.

Configuration menu options:

- A Transponder configuration menu
- B Track Remote configuration menu
- C System information menu
- D Return to Main screen.

3.2 Transponder configuration menu

To configure an Xtra.Transponder, press **soft button 1** to enter the Transponder configuration menu.



Figure 43 – Transponder configuration menu icon.

3.2.1 Connect to a Xtra.Transponder

Connecting to an Xtra.CDI Shutdown Transponder or Xtra.EV/CAN Transponder can be done in two ways.

1) Power off all active go-karts, except the go-kart to be configured. Then press the **search button** (**soft button 1**) without entering a number. The Xtra.Track Remote will now connect to the only active go-kart.
2) Enter the serial number or the go-kart number of the transponder and press the **search button (soft button 1)**.



Figure 44 - Search button icon.

After a successful connection with a transponder use **up/down buttons** to navigate through the Transponder configuration menu.

3.2.2 Serial number

The serial number corresponds to the serial number on the label of the transponder. The serial number cannot be changed.

3.2.3 Go-kart number

The go-kart number can be changed to any number from 1 to 245. It is advisable to give a unique go-kart number to each go-kart.
Change the go-kart number by selecting “Number”, then entering the new number and pressing the **confirm button** to send the new settings.

3.2.4 Groups

Each Xtra.Transponder can be assigned to group 1 to 5.
To change the group membership of an Xtra.Transponder, select the group option and enter the new group number. Press the **confirm button** to send the new settings to the Xtra.Transponder.

3.2.5 Track selection

Each Xtra.Transponder must be assigned to at least one track. To change the tracks of a Xtra.Transponder, select the track option and enter:

- **1** to toggle track A
- **2** to toggle track B
- **3** to toggle track C
- **4** to toggle track D

If no tracks are selected, track A will be activated as the default.
Multiple tracks can be assigned at the same time.
Press the **confirm button** to send the new settings to the transponder.

3.2.6 Read timer

The Xtra.Transponder keeps track of how long it has been powered on. To read this timer, select the read timer option and press the **confirm button** to receive the current uptime.

3.2.7 Reset timer

To reset the timer, select the reset timer option and press the **confirm button** to reset the uptime timer.

3.2.8 Read battery voltage and RPM

The supply voltage and RPM of a transponder can be monitored.
There is a difference between the information displayed by the Fuel and Electric go-karts.

Fuel go-kart:

- Average RPM
- Actual RPM
- Voltage

Electric go-kart:

- Voltage
- Maximum voltage
- Minimum voltage

3.2.9 Firmware version

This option shows the current firmware version of the Xtra.Transponder. The Xtra.Transponder firmware version cannot be changed via this menu.

3.2.10 Max SPD limit

The max SPD limit is the speed limit the go-kart can never exceed.

Fuel:
The range can be set between 1000 – 7999 and 8000+ will set the limit to “Unlimited”.

EV:
The range can be set between 1 – 8 and 9+ will set the limit to “Unlimited”.

Change max SPD limit by entering the new max limit and press the **confirm button** to send the new max SPD limit to the Xtra.Transponder.

3.2.11 Brake SPD limit

The brake SPD limit option will limit the SPD of a go-kart once the brake pedal is pressed.



This option will only be functional if the brake switch is connected.

Fuel:
The range can be set between 1 – 7999 and 8000+ will set the limit to “Unlimited”.

EV:
The range can be set between 1 – 8 and 9+ will set the limit to “Unlimited”.

Change brake SPD limit by entering the new brake limit and press the **confirm button** to send the new brake SPD limit to the Xtra.Transponder.

3.2.12 Start SPD limit

The start SPD limit option will limit the SPD of a go-kart when the transponder is powered on.



This option is only available when configuring Xtra.EV/CAN Transponders.

EV:
The range can be set between 1 – 8 and 9+ will set the limit to “Unlimited”.

Change start SPD limit by entering the new start limit and press the **confirm button** to send the new start SPD limit to the Xtra.Transponder.

3.2.13 Switch table

The switch table menu is only visible when the Xtra.Track Remote is set to Electric or Electric 8 Speed mode and is only compatible with the Xtra.EV Transponder.

When using an Xtra.EV Transponder make sure to connect the Xtra.EV Transponder programming plug (200.632) to set the switch table.

To configure the switch table on a Xtra.EV Transponder the following procedures are necessary before configuring:

1. Make sure no cables are connected to the Xtra.EV Transponder.
2. Connect the programming plug to the network port.
3. Power on the Xtra.EV Transponder by connecting the I/O cable to the I/O connector.
4. The LED on the programming plug starts blinking red and green. If the LED is red, restart from step 1.
5. Configure the Xtra.EV Transponder.

After configuring the Xtra.EV Transponder, remove the programming plug. Power cycle the Xtra.EV Transponder by disconnecting the I/O cable, then connecting it again.

The Xtra.EV Transponder keeps a table that configures the setting of the switch Each speed can have its own set of switch settings.

To change the switch settings on the Xtra.Track Remote select an option using the **up/down buttons** and pressing **number buttons 1-4** to activate or deactivate the corresponding checkboxes.

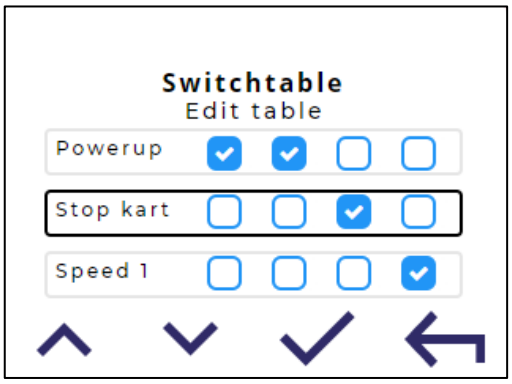


Figure 45 - Switch table menu example.

The switch table menu contains the following options:

Description	Explanation
Recall switch table from Xtra.Track Remote	Recall default switch table.
Store switch table into Xtra.Track Remote	Change default switch table.
Receive from any transponder	Receive switch table from active transponder.
Send to any transponder	Send current switch table to active transponder.
Power up	Relays settings when a go-kart powers up.
Stop go-kart	Relays settings when the **STOP** button is pressed.
Speed 1	Relays settings when **SPD 1** button is pressed.
Speed 2	Relays settings when **SPD 2** button is pressed.
Speed 3	Relays settings when **SPD 3** button is pressed.
Speed 4	Relays settings when **SPD 4** button is pressed.
Charge L	Relays settings when the charge cable is connected.
Charge UL	Relays settings when the charge cable is removed.
Speed 5	Relays settings when **SHIFT + 5** button is pressed.
Speed 6	Relays settings when **SHIFT + 6** button is pressed.
Speed 7	Relays settings when **SHIFT + 7** button is pressed.
Speed 8	Relays settings when **SHIFT + 8** button is pressed.

Table 1 - Switch table options



The Charge Lock and Charge Unlock are special features that must be implemented by the go-kart manufacturer.

3.3 Settings menu

The Xtra.Track Remote has various settings that can be changed. This menu allows navigation through the different settings.
Press **soft button 2** from the Configuration menu to change the settings of the Xtra.Track Remote.



Figure 46 - Settings icon

3.3.1 Stop or shift stop

All go-karts can be stopped by pressing the **STOP** button with or without pressing the **SHIFT** button first.

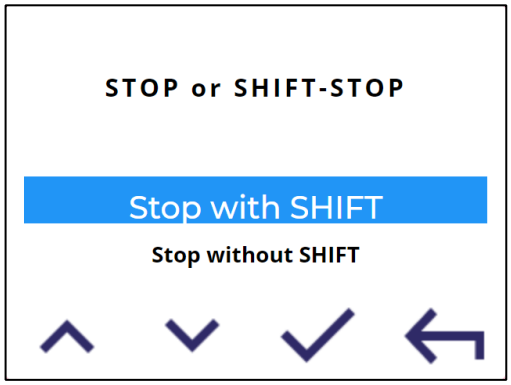


Figure 47 - Stop or SHIFT-STOP menu.

Options are:

- **STOP** with **SHIFT** (default)
- **STOP** without **SHIFT**

3.3.2 Display settings

In the display settings screen the display brightness and the display low brightness timer can be set.

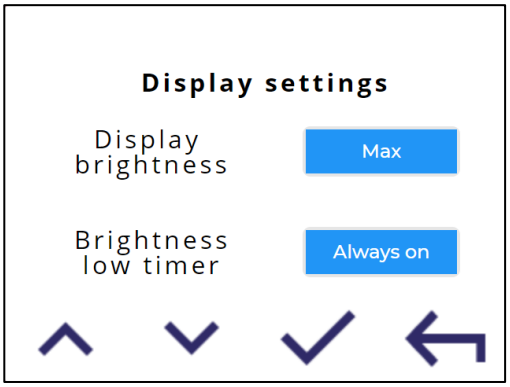


Figure 48 - Display settings menu.

3.3.2.1 Display brightness

The brightness of the display can be configured in this menu.

Options are:

- Maximum
- High (default)
- Medium
- Low

If the Xtra.Track Remote display is set to a higher brightness, the battery will drain faster.

3.3.2.2 Brightness low timer

The display backlight will switch off if no buttons have been pressed for a certain time. This time can be configured in this setting.

Options are:

- Always on
- 10 seconds
- 30 seconds (default)
- 60 seconds
- 90 seconds

3.3.3 Power off time

The Xtra.Track Remote can power itself off to increase the battery life. When connected to a power source, the Xtra.Track Remote will always remain active.

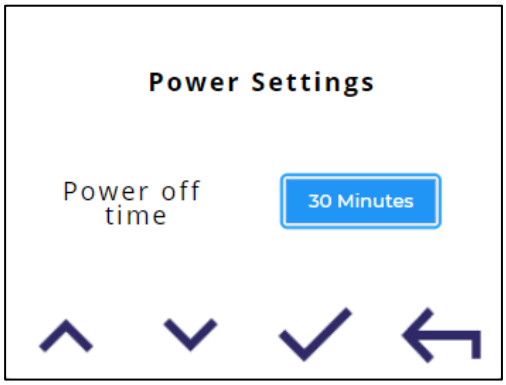


Figure 49 - Power off time menu.

> WARNING!
> To respond quickly the remote should always be powered on during a session or race.

Options are:

- Always on
- 2 minutes
- 5 minutes
- 10 minutes
- 30 minutes (default)
- 60 minutes

3.3.4 Track selection

To dedicate an Xtra.Track Remote to a single track on a multi-track venue, the track can be configured. It is possible to enable multiple tracks on a single Xtra.Track Remote.

At least one track must always be active. When all tracks are disabled track A is automatically enabled.

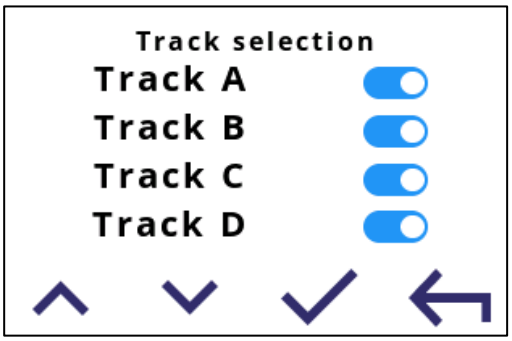


Figure 50 - Track selection menu.

The active tracks are indicated with the characters **A**, **B**, **C** and **D** in the status bar.

3.3.5 Electric/ fuel

Both Electric (normal and 8-SPD) and fuel go-karts can be controlled with the Xtra.Track Remote.

However, the Xtra.Track Remote can only control one type of go-kart at a time. Please select the type of go-karts used on the track.

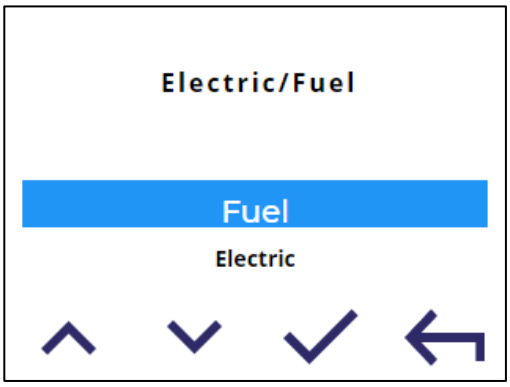


Figure 51 - Electric/Fuel menu.

WARNING!
Make sure the selected mode corresponds to the installed Xtra.Transponders.
Xtra.CDI Transponders **only** work properly when the Xtra.Track Remote is set to Fuel mode.
Xtra.EV/CAN Transponders **only** work properly when the Xtra.Track Remote is set to Electric mode.
Electric 8 Speed mode **only** works with 8 Speed compatible Xtra.Transponders.

Options are:

- Fuel go-kart (default)
- Electric go-kart
- Electric go-kart 8 SPD

3.3.6 Switch table

In this menu the default switch table can be saved in the Xtra.Track Remote to allow quicker switch table configuration in Xtra.EV Transponders. Table 1 describes the different switch table options.

3.3.7 Speed/ RPM settings for fuel go-karts

The Speed/RPM settings are for fuel go-karts only.

The standard RPM values can be modified. All the **SPD** buttons can be adjusted to any RPM value between 0 and 8000.

When the RPM value is set to 0 it will act as a **STOP** button.
When the RPM value is set to 8000 or above it will automatically be set to unlimited.

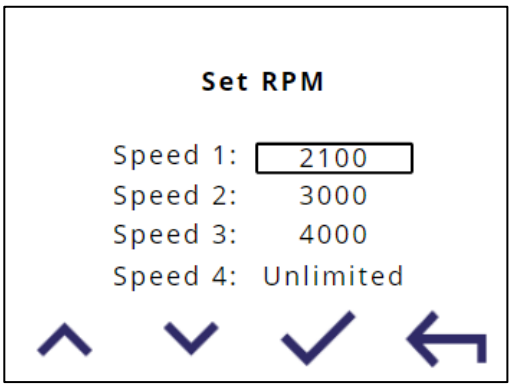


Figure 52 - Speed/RPM menu.

To change the RPM value assigned to a speed, select the SPD and enter your preferred RPM. Press **ENTER** or **confirm button** to save the changes.

The default speed limits are:

- SPD1 – RPM 2100
- SPD2 – RPM 3000
- SPD2 – RPM 4000
- SPD4 – RPM Unlimited

3.3.8 Group selection

This functionality allows a specific group to be selected for the default **SPD**. By selecting the group 1 when pressing **SPD** a command will be send to group 1.

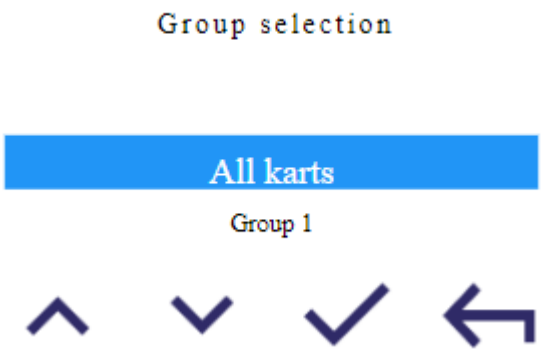


Figure 53 Group selection menu

When using this function, it will send all the **SPD** commands to a specific group.

3.3.9 Penalty time

The time that a go-kart is slowed down when given a penalty can be configured from this menu. This menu is also accessible from the penalty menu from the Main screen.

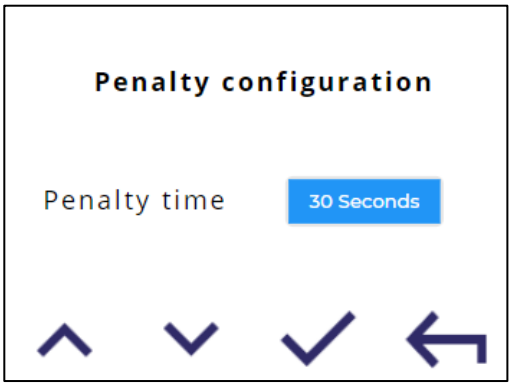


Figure 54 - Penalty time menu.

Options are:

- 3 seconds
- 5 seconds
- 10 seconds (default)
- 20 seconds
- 30 seconds

3.3.10 Configure functions

In the configure functions screen the functionality assigned to each soft button on the main screen can be enabled or disabled.

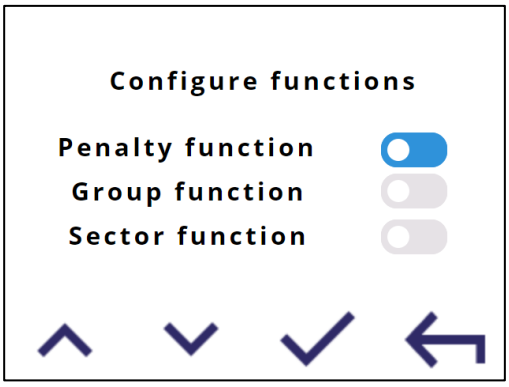


Figure 55 - Configure functions menu.

3.3.10.1 Penalty function

If penalties are not used, this function may be removed from the main screen.

Options are:

- Disable penalties
- Enable penalties (default)

3.3.10.2 Group function

If groups are not used, this function may be removed from the main screen.

Options are:

- Disable groups
- Enable groups (default)

3.3.10.3 Sector function

If sectors are not used, this function may be removed from the main screen.

Options are:

- Disable sectors
- Enable sectors (default)

3.3.10.4 Boost function

If sectors are not used, this function may be removed from the main screen.

Options are:

- Disable boost
- Enable boost (default)

3.3.10.5 Session control function

If sectors are not used, this function may be removed from the main screen.

Options are:

- Disable session control
- Enable session control (default)

3.3.11 Show commands from others

To see commands sent by other Xtra.Track Remotes, Xtra.Mini Remotes or Xtra.Black Boxes, enable the “Show commands from others” option. Commands sent by others will be displayed on the current Xtra.Track Remote.

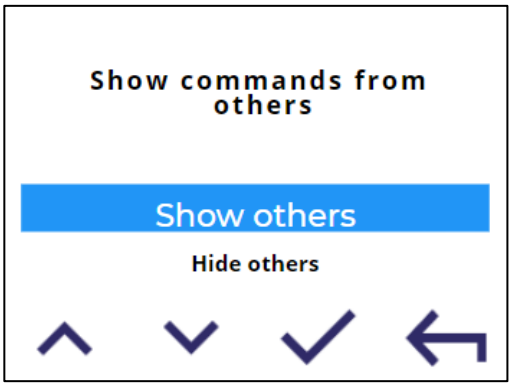


Figure 56 - Show commands from others menu.

Options are:

- Show others
- Hide others (default)

3.3.12 Language

The Xtra.Track Remote supports multiple languages.

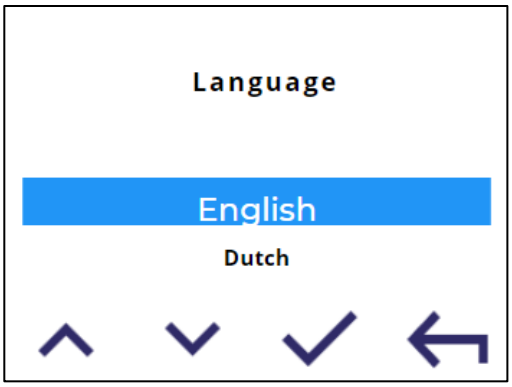


Figure 57 - Language menu.

Options are:

- English (default)
- Nederlands
- Français
- Deutsch
- Italiano
- Español

3.3.13 Protect advanced functions

The configuration menu can be protected with a PIN code. When enabled, the PIN code must be entered before access to the configuration menu is granted. The default PIN code is **0000**.

The PIN code can be disabled or changed.

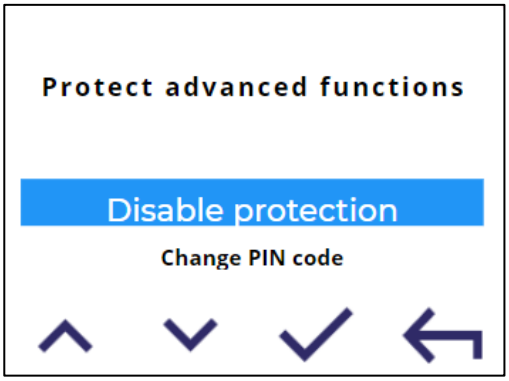


Figure 58 - Protect advanced functions menu.

Options are:

- Disable protection – Enter current PIN code to disable the protection.
- Change PIN code – Enter a new PIN code twice to confirm.

When the protection is disabled, the "Enable protection" option can be selected to enable the PIN code. Enter the PIN code twice to confirm.

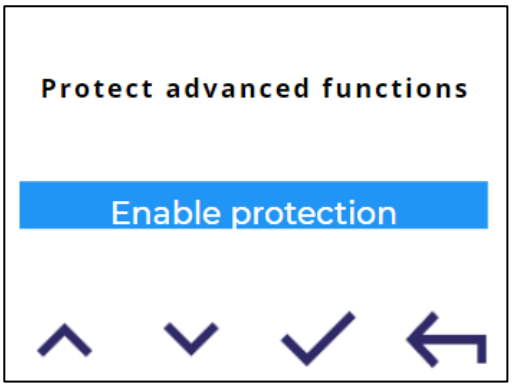


Figure 59 - Enable protection menu.

3.3.14 Radio region

This option allows the user to set the radio region to make sure the device complies with local law. This setting should only be changed when advised by De Haardt.

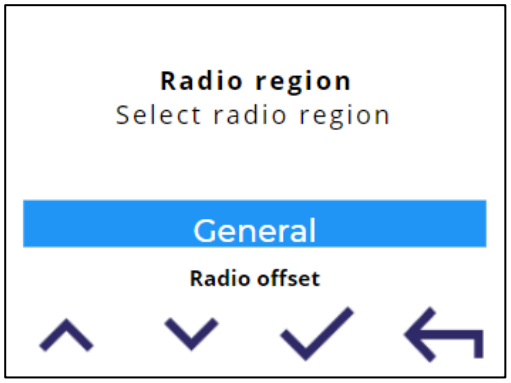


Figure 60 - Radio region menu.

Options are:

- General (default)
- Radio offset

3.4 System information menu

The system information menu allows the user to find Xtra.Operators in range or get device information.
Press **soft button 3** from the Configuration menu to enter the System information menu.



Figure 61 - System information menu icon.

3.4.1 Find Xtra.Operators

The find Xtra.Operators option will locate any of the following Xtra.Operators in range:

- Xtra.Black Box,
- Xtra.Track Remote,
- Xtra.Remote Control MK2.
- Xtra.Range Extender

To find Xtra.Operators in range, press **soft button 3** in the Find Xtra.Operators menu.



Figure 62 - Find Xtra.Operators icon.

Once a device has been detected it will show the serial number on the display.

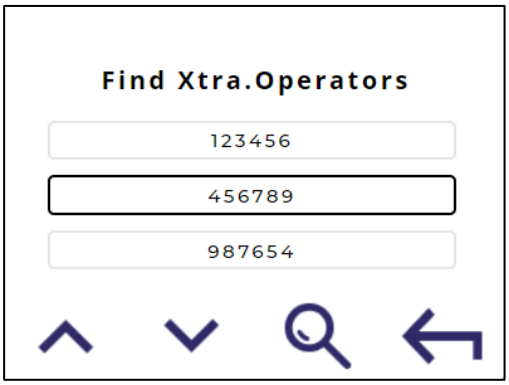


Figure 63 - Find Xtra.Operators screen.

3.4.2 About device

The About device screen shows information about the Xtra.Track Remote.

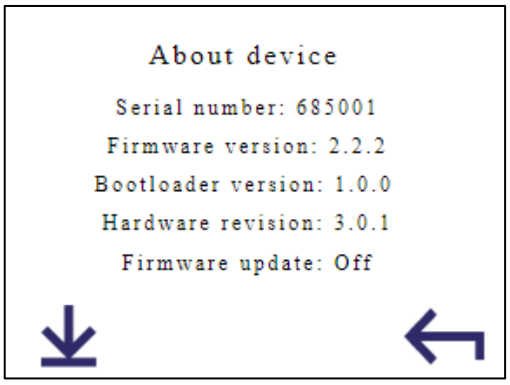


Figure 64 - About device menu.

It is possible to update the firmware from this menu. See chapter 5.1 for more information.

4 Technical specifications

Description	Min	Typical	Max	Unit
Operational temperature	-10	-	55	°C
Battery capacity	-	2500	-	mAh
Power consumption	75	130	170	mAh
Input voltage USB	4.7	5	5.25	VDC
Input current	1	-	-	A
Radio range	-	-	100	m
Radio frequency range	433.050	-	434.790	MHz
Radio output power	-	-	10	mW
IP rating	-	XX	-	-

5 Support

For support, please contact De Haardt's support department by email: support@de-haardt.com.

5.1 Update firmware

Updating the Xtra.Track Remote is only possible using a firmware update file supplied by De Haardt. To update the Xtra.Track Remote, follow the steps below.

Make sure not to remove the USB cable during update.

1. Connect the USB cable to the Xtra.Track Remote and a Windows PC.
2. On the Xtra.Track Remote navigate to Configuration → System information → About device and press the **update button**.
3. Make sure the "Firmware Update" field is set to "ON".
4. On the Windows PC open File Explorer and open "USB Drive".
5. Select and delete the old firmware file. For example: "TRC_1.0.0_206dd6aa.dh".
   When no file is present on the drive skip to next step.
6. Copy the new firmware update file to the USB-drive and wait for the transfer to complete.
7. When the transfer is complete the Xtra.Track Remote will display a pop-up. To continue the firmware update, press the **confirm button**.
   To cancel the firmware update, press the **cancel button.**
8. The Xtra.Track Remote will automatically update the firmware. During the firmware update the De Haardt logo is displayed on screen.
   DO NOT remove the USB cable during this step.
9. When the firmware has been updated the Xtra.Track Remote will start normally.