

XTRA.MINI REMOTE CONTROL

User Manual

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Safety

All De Haardt's products are designed as supplement to make 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

Our Xtra.Mini Remote Control gives you the possibility to further extend the safety on your track in a cost effective way. This mini remote has 6 buttons, each of which has a dedicated function.

1.1 What Is In The Box

Inside the box is the following:

- 1 Xtra.Mini Remote Control
- 1 De Haardt USB stick containing the manual.
- 1 Lanyard



2 Operation

The Xtra.Mini Remote Control can be used in fuel or EV mode. See configuration for more information.

By default the Xtra.Mini Remote Control is configured for fuel karts and offers the following functions:

Button	Function
SPD1	Set all fuel karts to 2100RPM
SPD2	Set all fuel karts to 3000RPM
SPD3	Set all fuel karts to 4000RPM
SPD4	Set all fuel karts to have no RPM limit.
STOP	Stop all karts.

For EV karts the Xtra.Mini Remote Control can set speeds 1 to 4. The actual speed depends on the switch table configuration and the settings of the motor controller. These settings are outside the scope of this manual and cannot be configured by the Xtra.Mini Remote Control.

When configured for EV mode, the speed buttons have fixed speed values for EV karts:

Button	Function
SPD1	Set all EV karts to 'Speed 1'
SPD2	Set all EV karts to 'Speed 2'
SPD3	Set all EV karts to 'Speed 3'
SPD4	Set all EV karts to 'Speed 4'
STOP	Stop all karts.

After successfully sending the speed or stop command, the indication LED of the Xtra.Mini Remote Control will flash briefly. When the battery of the Xtra.Mini Remote Control is low, the indication LED will flash 4 times after trying to send the speed or stop command.



WARNING!

Correct transmission of a command is not guaranteed when the battery is low.

3 Configuration

3.1 Shift-key Configuration Options

The Xtra.Mini Remote Control can be configured through use of the **SHIFT** key. This enables you to enable or disable tracks, or change mode between fuel and EV karts.

To enter the configuration menu, hold **SHIFT** for around 5 seconds. The indication LED will be illuminated constantly to indicate you are in configuration mode. In this mode, you can use the **SPD** buttons to change the active tracks, and the **STOP** button to change between fuel and EV karts. When you press a button, the indication LED will blink either once or twice, to indicate the selected mode, as per the table below.

When you have entered the required configurations, press the **SHIFT** button again to validate your choices. If the **SHIFT** button is not pressed again after 10-15 seconds of no user input, the Xtra.Mini Remote Control will exit configuration mode, the indication LED will turn off and your changed settings will **not** be saved.

Button	Configuration	LED blinks once	LED blinks twice
SPD1	Toggle Track A	Track A disabled	Track A enabled
SPD2	Toggle Track B	Track B disabled	Track B enabled
SPD3	Toggle Track C	Track C disabled	Track C enabled
SPD4	Toggle Track D	Track D disabled	Track D enabled
STOP	Toggle between fuel and EV karts	EV kart mode	Fuel kart mode

3.2 Replacing The Battery

To replace the battery a standard screwdriver size/type PH0 is needed. Unscrew the backside of the Xtra.Mini Remote control. Take care not to lose the screw and foam material. Remove the old battery carefully. Place the new battery by sliding it in the battery holder.



WARNING!

Only use CR2430 lithium coin cells as a replacement battery.

4 Technical Specifications

4.1 Specification Overview

Specifications	
Buttons	6 buttons, 4 speeds, 1 stop button, 1 configure button
Tracks	Any combination of 4 tracks
Speed limit control (Fuel karts) ¹	Stop, 2100RPM, 3000RPM, 4000RPM, no limit
Speed limit control (EV karts) ¹	Stop, speeds 1,2,3, no limit
Addition commands	On request
Indicator	Low power red LED
Operating Range ²	50m
Batteries	1x CR2430 lithium coin cell
Dimensions (LxWxT)	76.5 x 43.5 x 18.5 mm
Weight	20g (including battery)
Operating temperature	0...+55 degrees Celsius
Operating humidity	Max 85% relative
IP Rating	IP41

¹ All karts only, no individual control

² The operating range of the Xtra.Mini Remote Control differs depending on the user, the way the transmitter is held, the location and other conditions.

4.2 Operating Range

The range of the Xtra.Mini Remote Control is less than the Xtra.Remote Control due to limitations of the battery. The range of the Xtra.Mini Remote Control can be extended by the use of an Xtra.Range Extender/Access point.

5 Support

For support, one can contact the support department of De Haardt by email: support@de-haardt.com



A PC application which can configure the Xtra.Mini Remote Control and activate extra functions, such as track light controls is available. Please contact support if you require this option.