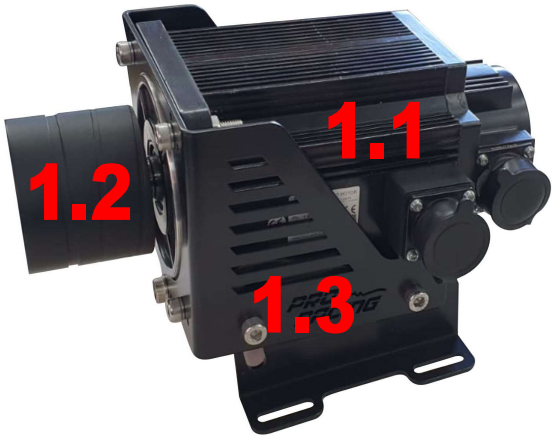
MANUAL DE INSTALAÇÃO DO DIRECT DRIVE

1 Lista de itens:

1.1 Servo Motor com Encoder
1.2 Adaptador 70mm eixo motor
1.3 Suporte Motor padrão Pro Racing
1.4 Controladora Direct Drive
1.5 Cabo potência Motor com 3 metros + Botão de Emergência
1.6 Cabo Encoder com 3 metros
1.7 Cabo Energia Controladora Direct Drive
1.8 Cabo mini USB controladora
1.9Parafusos Fixação + Porcas

1.9 Parafusos

4 un. M8 X 35
4 un. M8 X 16
8 un. Aroela M8
8 un. Porca M8
4 un. M6 X 40
8 un. Aroela M6
4 un. Porca M6
6 un. M5 X 10
2 un. M6 X 16



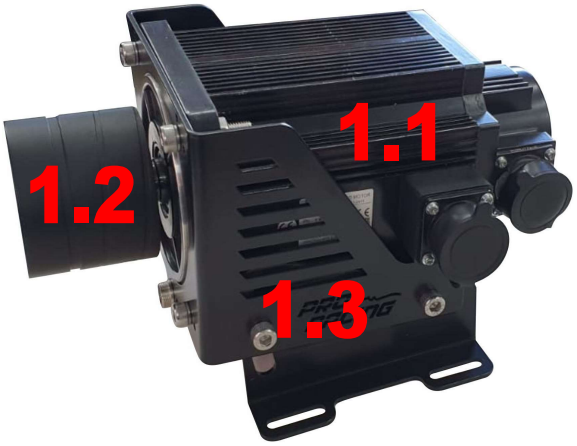
Check Liste de Produtos a enviar Pedido

1 Lista de itens:

( ) - 1.1 Servo Motor com Encoder
( ) - 1.2 Adaptador 70mm eixo motor
( ) - 1.3 Suporte Motor padrão Pro Racing
( ) - 1.4 Controladora Direct Drive
( ) - 1.5 Cabo potência Motor com 3 metros + Botão de Emergência
( ) - 1.6 Cabo Encoder com 3 metros
( ) - 1.7 Cabo Energia Controladora Direct Drive
( ) - 1.8 Cabo mini USB controladora
( ) - 1.9Parafusos Fixação + Porcas

1.9 Parafusos

( ) - 4 un. M8 X 35
( ) - 4 un. M8 X 16
( ) - 8 un. Aroela M8
( ) - 8 un. Porca M8
( ) - 4 un. M6 X 40
( ) - 8 un. Aroela M6
( ) - 4 un. Porca M6
( ) - 6 un. M5 X 10
( ) - 2 un. M6 X 16



2 Instalação e Montagem

2.1 Primeiramente deve ser feita a montagem do suporte do motor no cockpit, com os parafusos que acompanham, assim será possível posicionar ele em seu cockpit para fazer a furação caso necessário. Furo com broca de aço rápido 8mm. o suporte permite articulação angular de 0 a 20 graus e movimento horizontal até 3 cm. o motor pode ser instalado em qualquer sentido, sendo recomendável devido questão estética e não atrapalhar a visão deixar o sentido da saída dos cabos para os lados, em qualquer sentido.

110V - 240V

IMPORTANTE: Na controladora direct drive deve ser selecionado na chave seletora a voltagem que será ligada, podendo escolher a faixa de 127 ou 220v antes do primeiro uso conforme o indicativo ao lado.

2.2 Após a instalação do motor no cockpit, pode colocar o cabo de potência no motor, geralmente na primeira instalação o plug fica virado para a parte traseira, encaixar e apertar com a rosca, a outra ponta do cabo, o plug verde será ligado na controladora.

2.3 O cabo de encoder ligado na parte traseira do motor no sentido para trás do motor será ligado no plug DB15 da controladora.

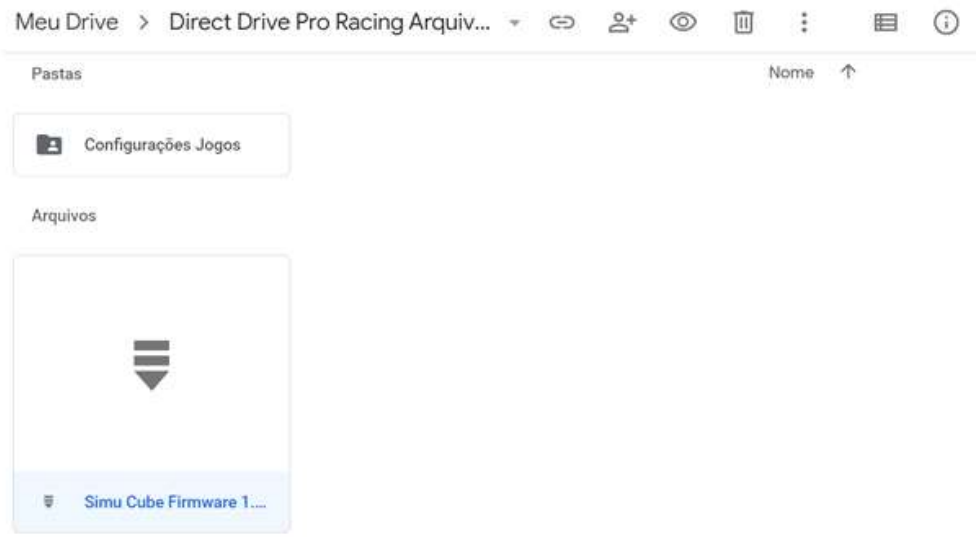
2.4 O cabo micro USB deve ser ligada na controlado ao lado do plug RJ45, sendo essa conexão de recebimento do FFB do simulador, o outra saída USB é para configurações extras de motor que apenas utilizado na primeira instalação feita antes do envio, ou seja, sempre será utilizada apenas o saída micro usb ao lado da conexão RJ45.

2.5 Cabo de Força de energia padrão 3 Pinos, deve ser ligada em um filtro de linha com **ATERRAMENTO.**

3 – Instalação Software Simucube

3.1 Link para download.

https://drive.google.com/drive/u/1/folders/1SeuSalrcLo3HJA_YxgNE8pwpYOSDWnBD

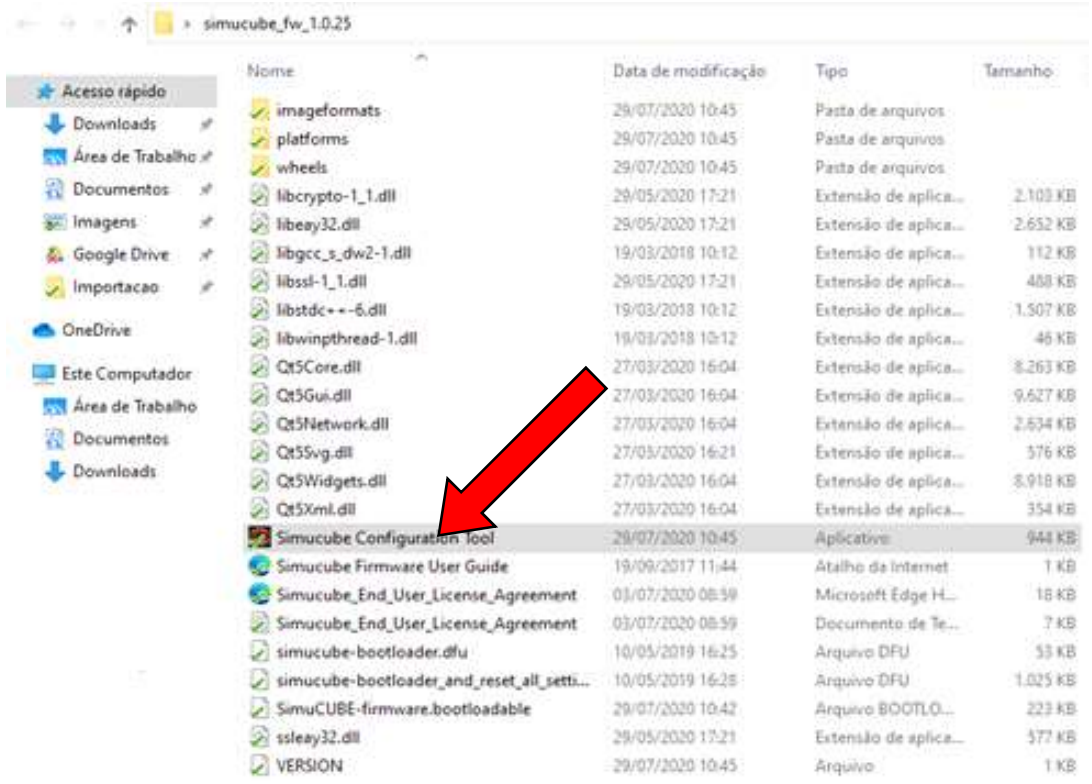


3.2 Descompactar na área de trabalho, e se preferir alterar o nome da pasta apenas para SIMUCUBE

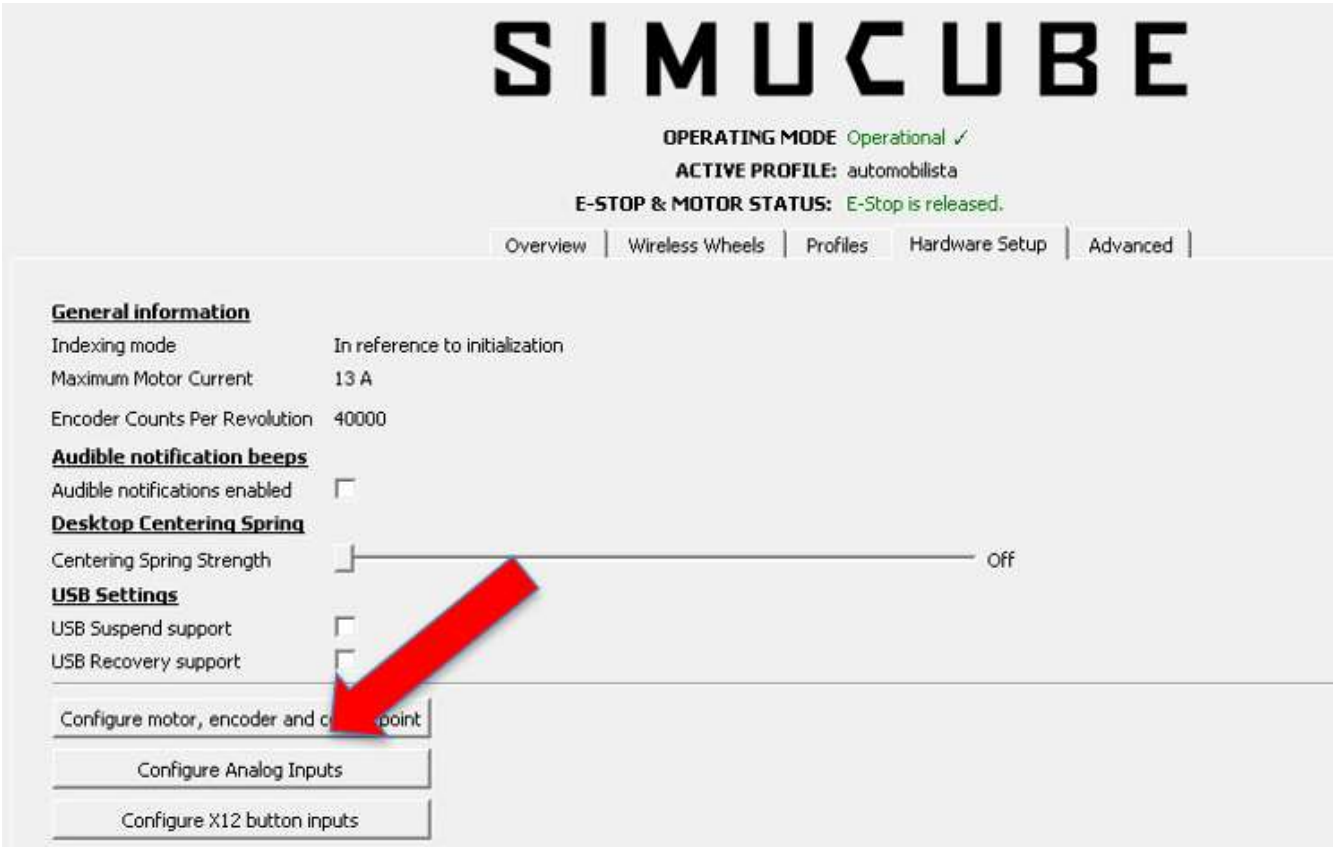
3.3 Configuração do SIMUCUBE

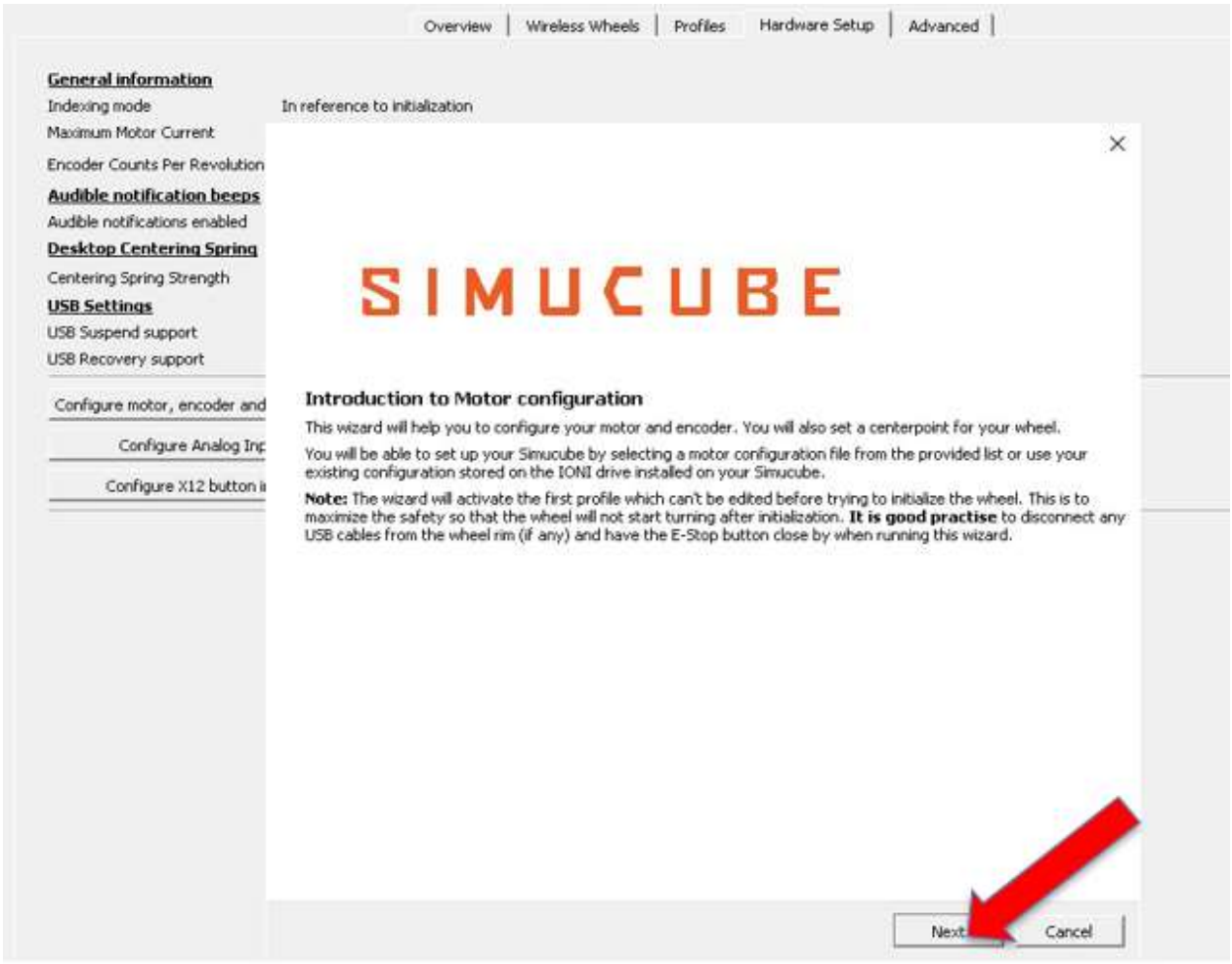
Agora você irá fazer a calibração do motor definindo o centro, instalando os parâmetros necessários para funcionamento de seu Kit de Direct Drive

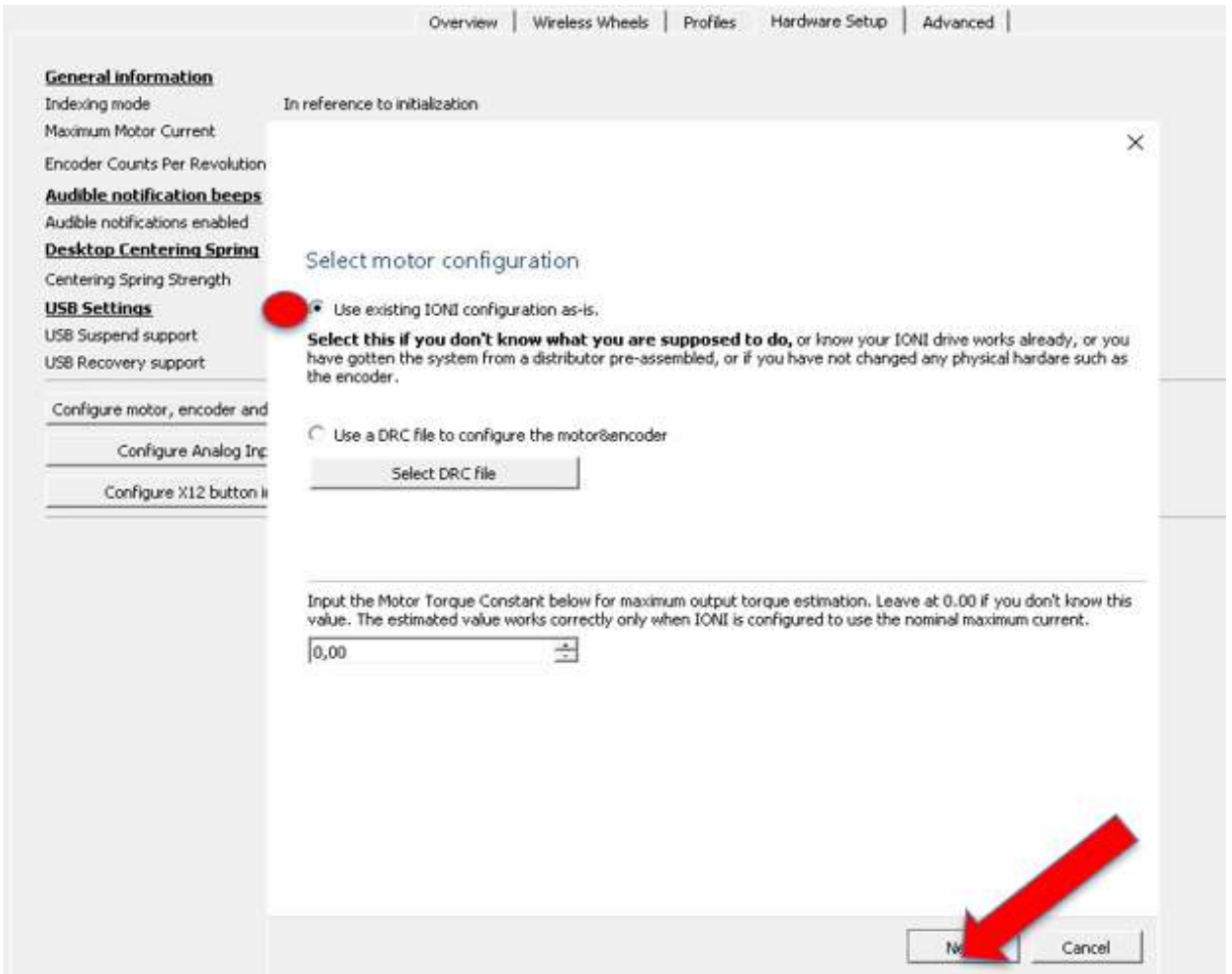
IMPORTANTE: Não conecte nenhum cabo ao volante até o processo estar finalizado
RECOMENDADO: Sempre que for ligar a controladora é recomendável deixar sem cabo espiral do volante

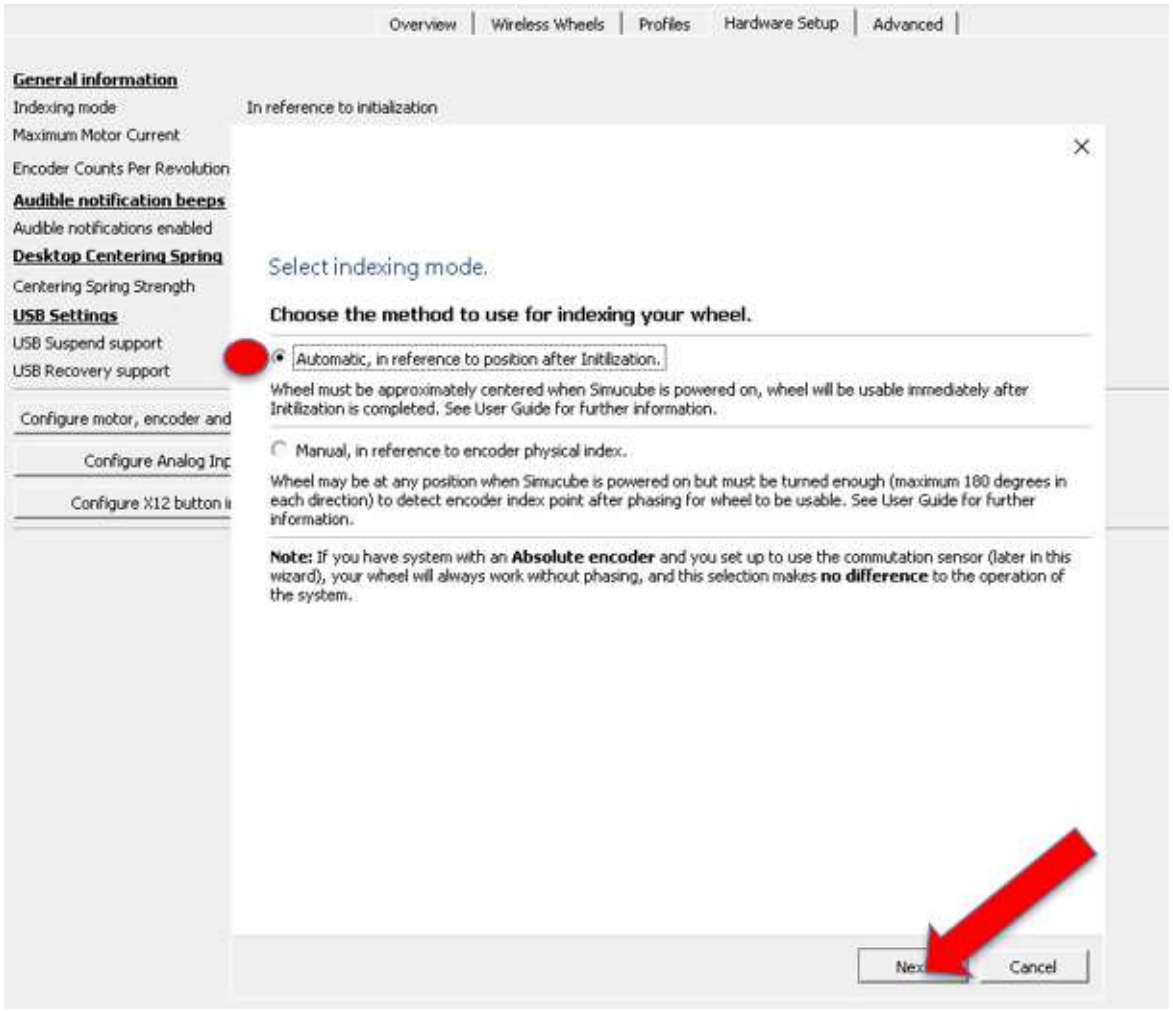


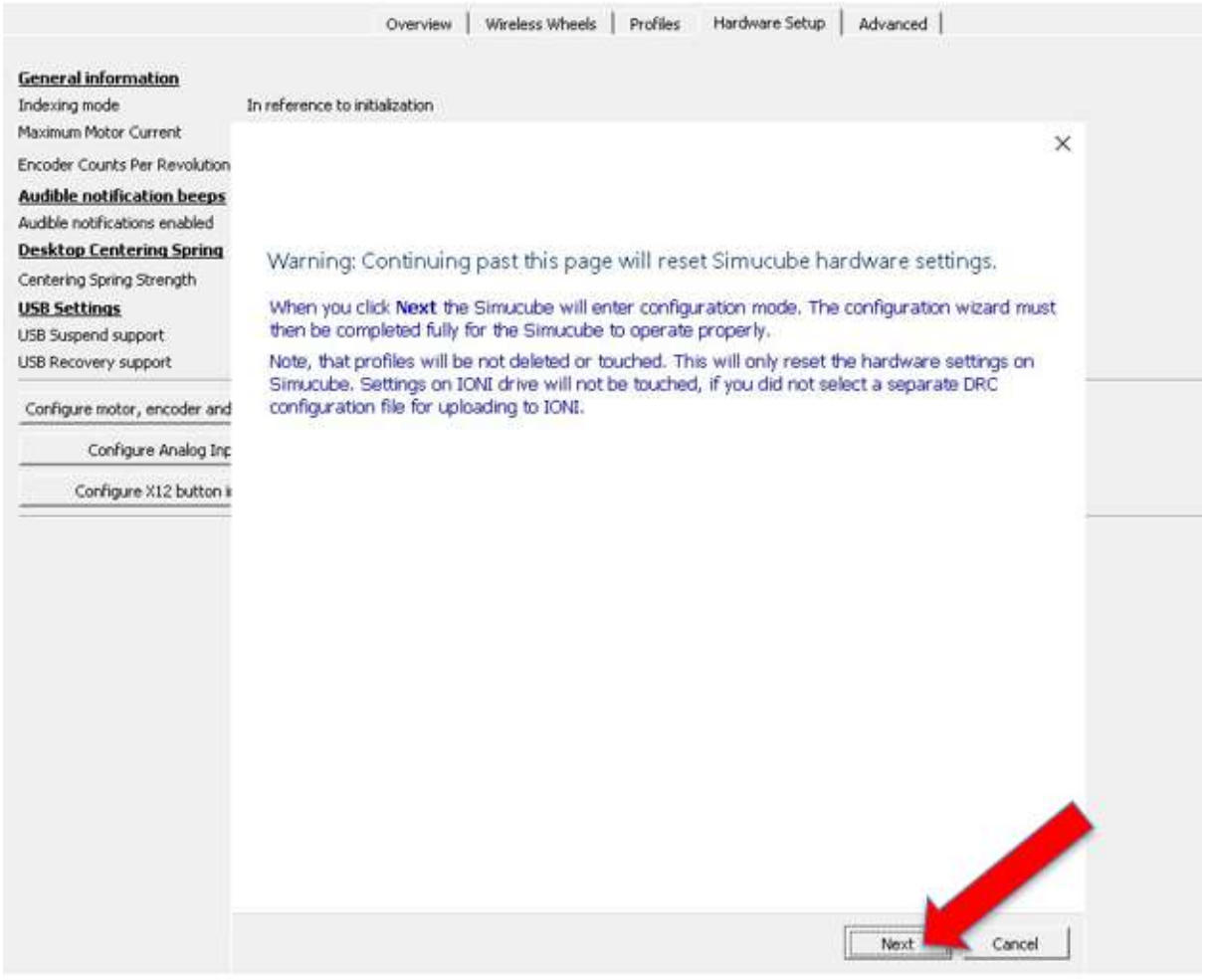

SIMUCUBE
OPERATING MODE Operational ✓
ACTIVE PROFILE: automobilista
E-STOP & MOTOR STATUS: E-Stop is released.
Overview
Wireless Wheels
Profiles
Hardware
Advanced
Analog inputs
value
0% disabled
0% disabled
0% disabled
0% disabled
0% disabled
0% disabled
0% disabled
Buttons 1-128
Wheel position
-1.75 °
Reset center

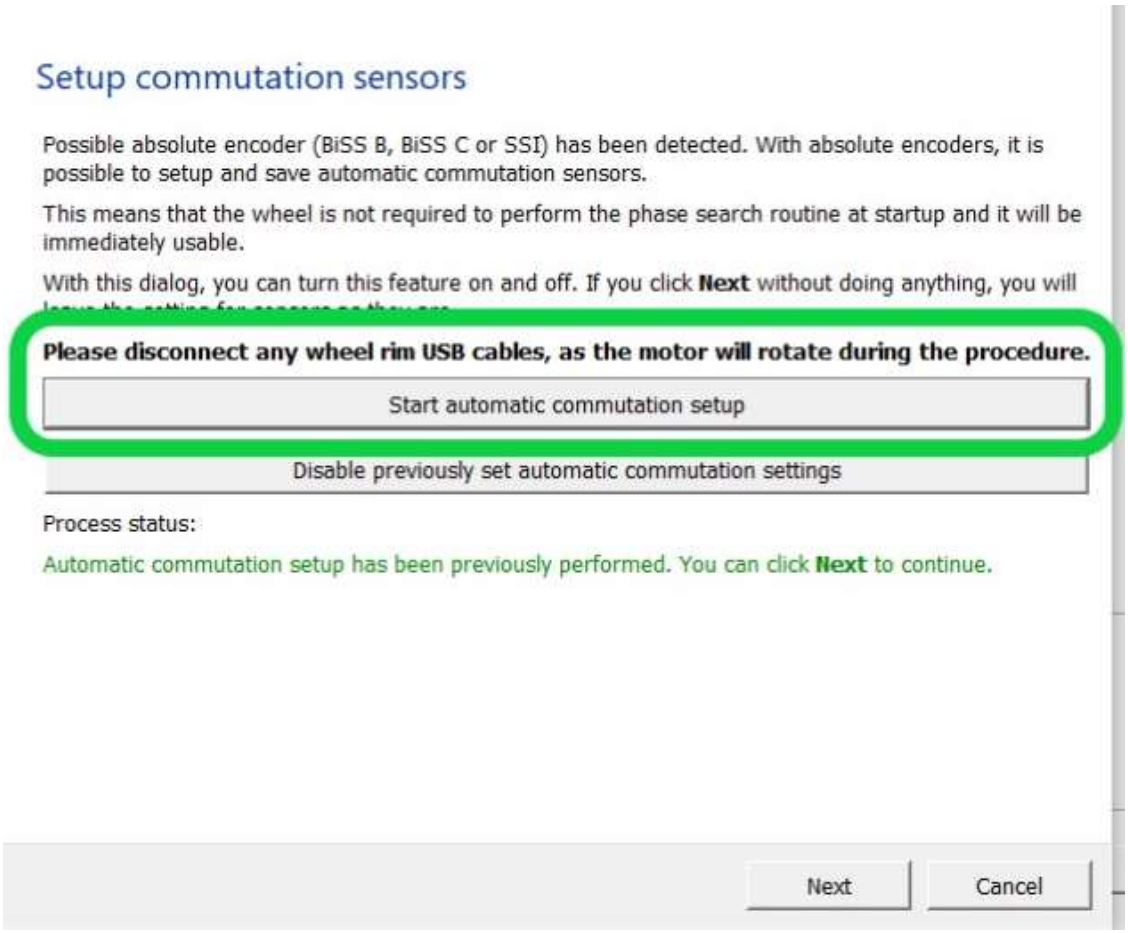

SIMUCUBE
OPERATING MODE Operational ✓
ACTIVE PROFILE: automobilista
E-STOP & MOTOR STATUS: E-Stop is released.
Overview
Wireless Wheels
Profiles
Hardware Setup
Advanced
General information
Indexing mode
In reference to initialization
Maximum Motor Current
13 A
Encoder Counts Per Revolution
40000
Audible notification beeps
Audible notifications enabled
Desktop Centering Spring
Centering Spring Strength
Off
USB Settings
USB Suspend support
USB Recovery support
Configure motor, encoder and
point
Configure Analog Inputs
Configure X12 button inputs

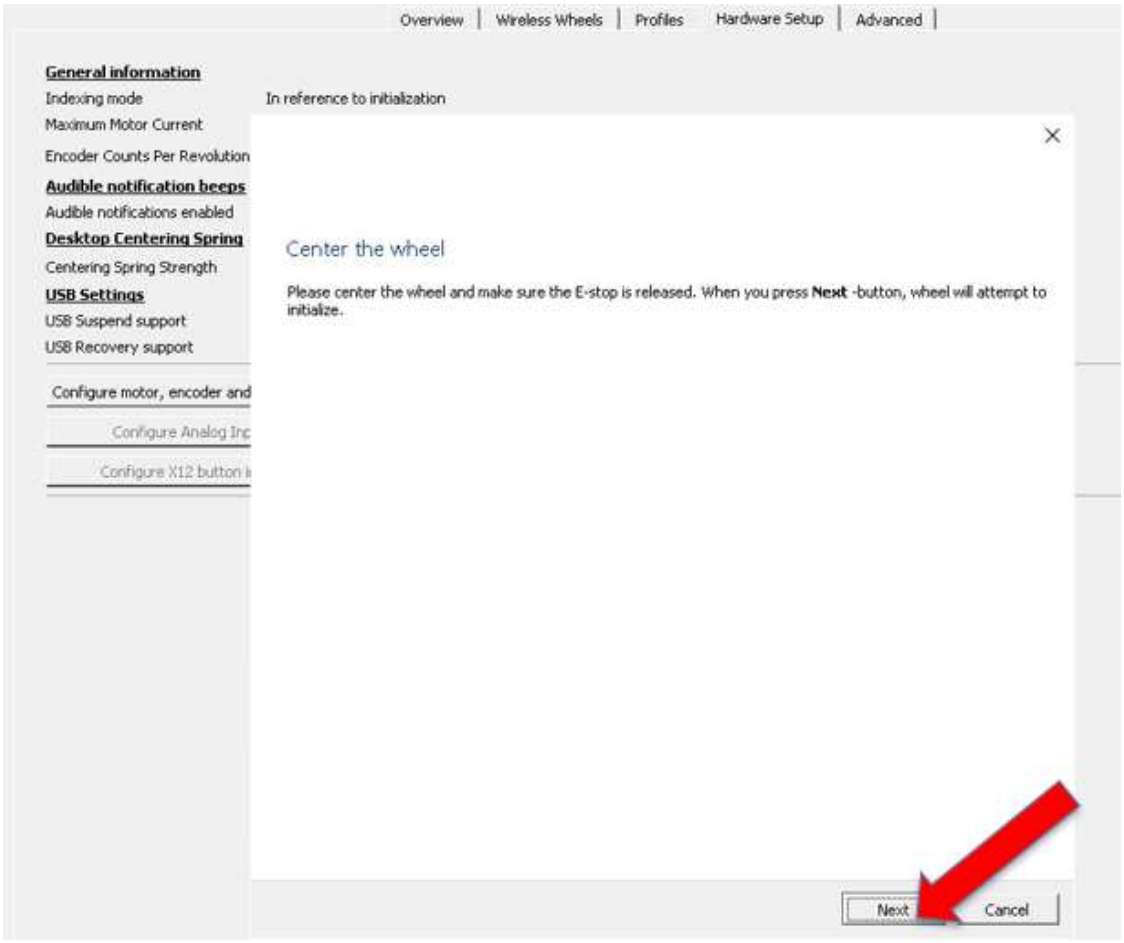

Overview
Wireless Wheels
Profiles
Hardware Setup
Advanced
General information
Indexing mode
In reference to initialization
Maximum Motor Current
Encoder Counts Per Revolution
Audible notification beeps
Audible notifications enabled
Desktop Centering Spring
Centering Spring Strength
USB Settings
USB Suspend support
USB Recovery support
Configure motor, encoder and
Configure Analog Inp
Configure X12 button i
SIMUCUBE
Introduction to Motor configuration
This wizard will help you to configure your motor and encoder. You will also set a centerpoint for your wheel.
You will be able to set up your Simucube by selecting a motor configuration file from the provided list or use your existing configuration stored on the IONI drive installed on your Simucube.
Note: The wizard will activate the first profile which can't be edited before trying to initialize the wheel. This is to maximize the safety so that the wheel will not start turning after initialization. It is good practise to disconnect any USB cables from the wheel rim (if any) and have the E-Stop button close by when running this wizard.
Next
Cancel

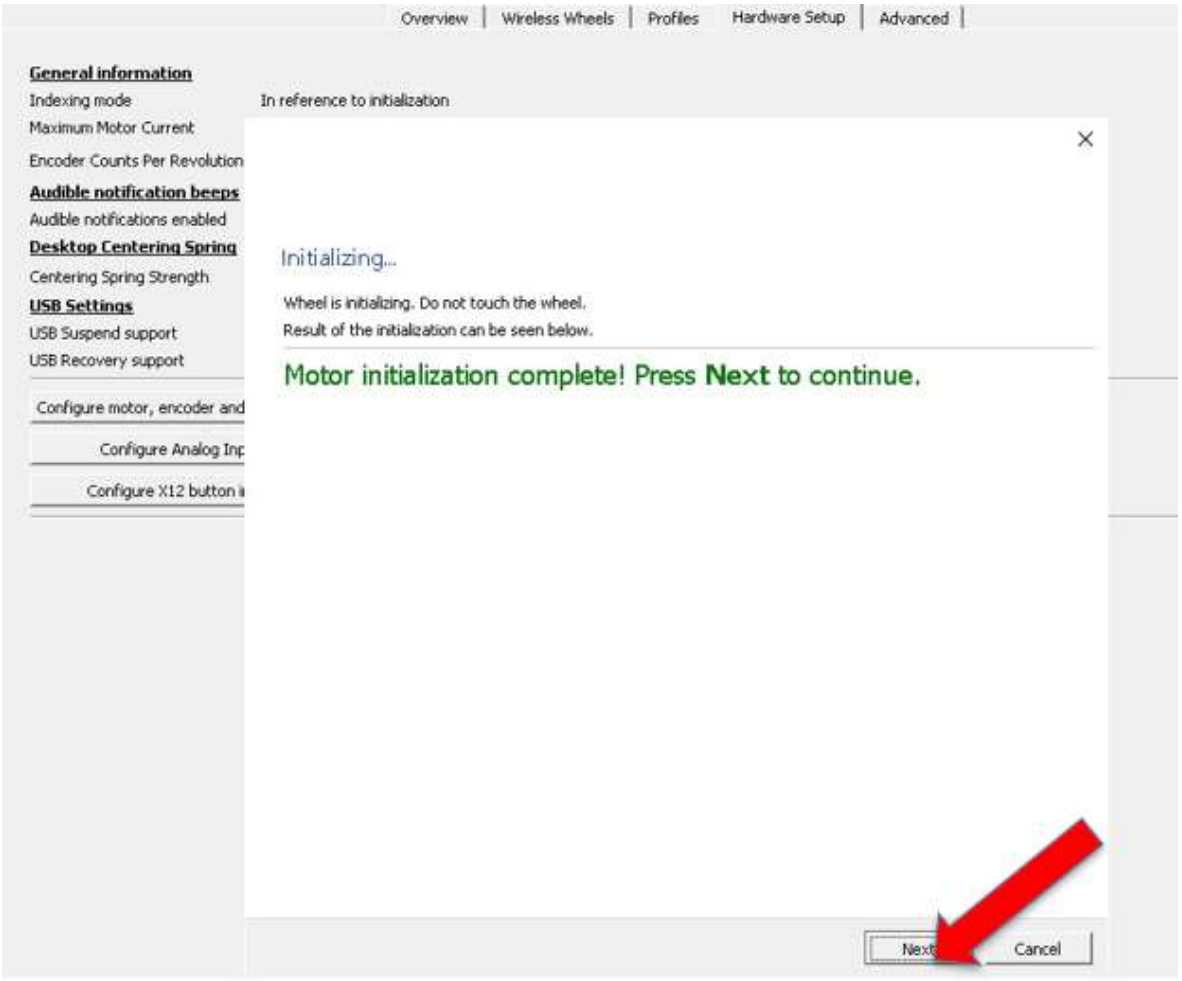

Overview
Wireless Wheels
Profiles
Hardware Setup
Advanced
General information
Indexing mode
In reference to initialization
Maximum Motor Current
Encoder Counts Per Revolution
Audible notification beeps
Audible notifications enabled
Desktop Centering Spring
Centering Spring Strength
USB Settings
USB Suspend support
USB Recovery support
Configure motor, encoder and
Configure Analog Inp
Configure X12 button i
Select motor configuration
Use existing IONI configuration as-is.
Select this if you don't know what you are supposed to do, or know your IONI drive works already, or you have gotten the system from a distributor pre-assembled, or if you have not changed any physical hardare such as the encoder.
Use a DRC file to configure the motor&encoder
Select DRC file
Input the Motor Torque Constant below for maximum output torque estimation. Leave at 0.00 if you don't know this value. The estimated value works correctly only when IONI is configured to use the nominal maximum current.
0,00
Cancel

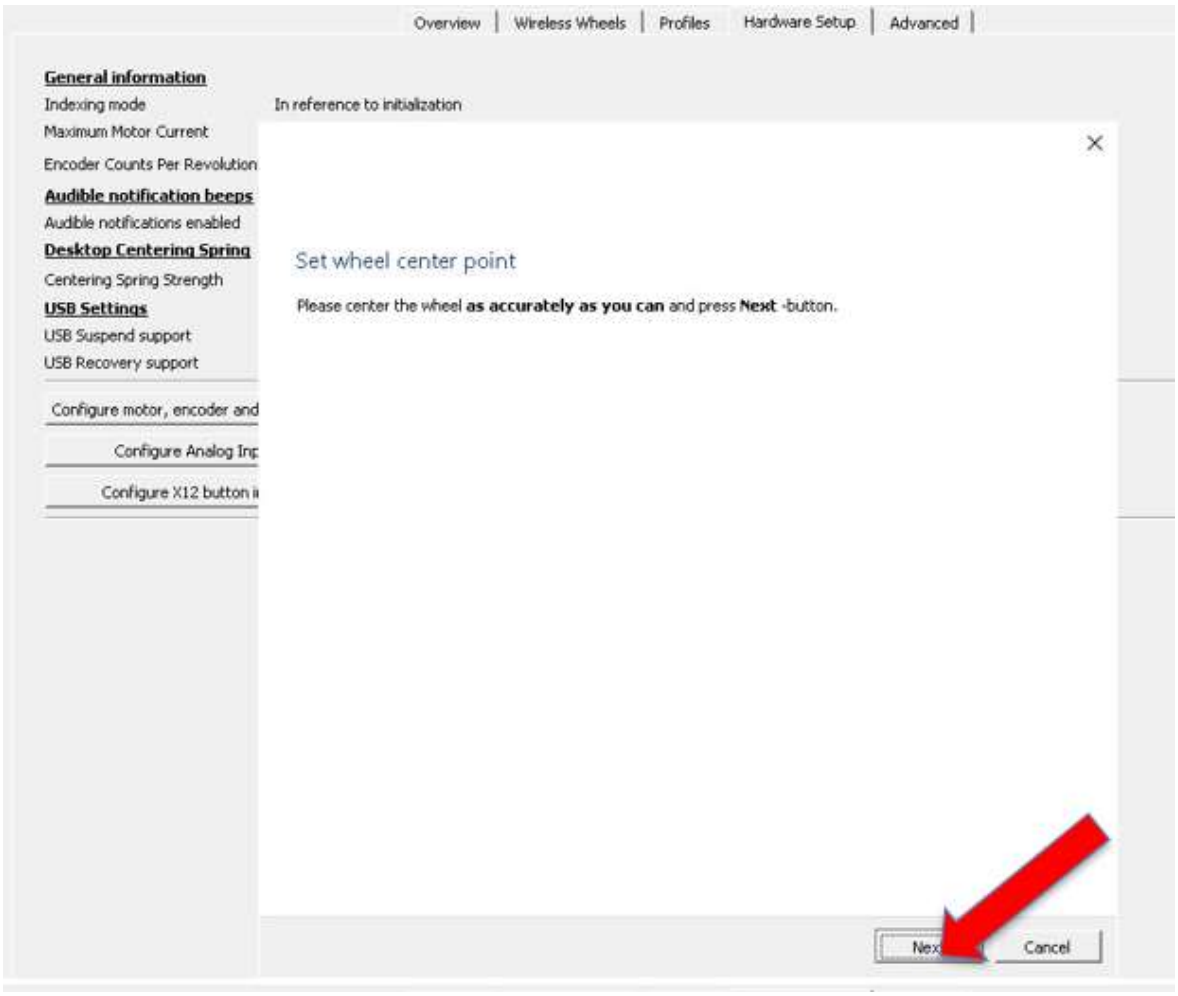

Overview
Wireless Wheels
Profiles
Hardware Setup
Advanced
General information
Indexing mode
In reference to initialization
Maximum Motor Current
Encoder Counts Per Revolution
Audible notification beeps
Audible notifications enabled
Desktop Centering Spring
Centering Spring Strength
USB Settings
USB Suspend support
USB Recovery support
Configure motor, encoder and
Configure Analog Inp
Configure X12 button i
Select indexing mode.
Choose the method to use for indexing your wheel.
Automatic, in reference to position after Initilization.
Wheel must be approximately centered when Simucube is powered on, wheel will be usable immediately after Initilization is completed. See User Guide for further information.
Manual, in reference to encoder physical index.
Wheel may be at any position when Simucube is powered on but must be turned enough (maximum 180 degrees in each direction) to detect encoder index point after phasing for wheel to be usable. See User Guide for further information.
Note: If you have system with an Absolute encoder and you set up to use the commutation sensor (later in this wizard), your wheel will always work without phasing, and this selection makes no difference to the operation of the system.
Next
Cancel

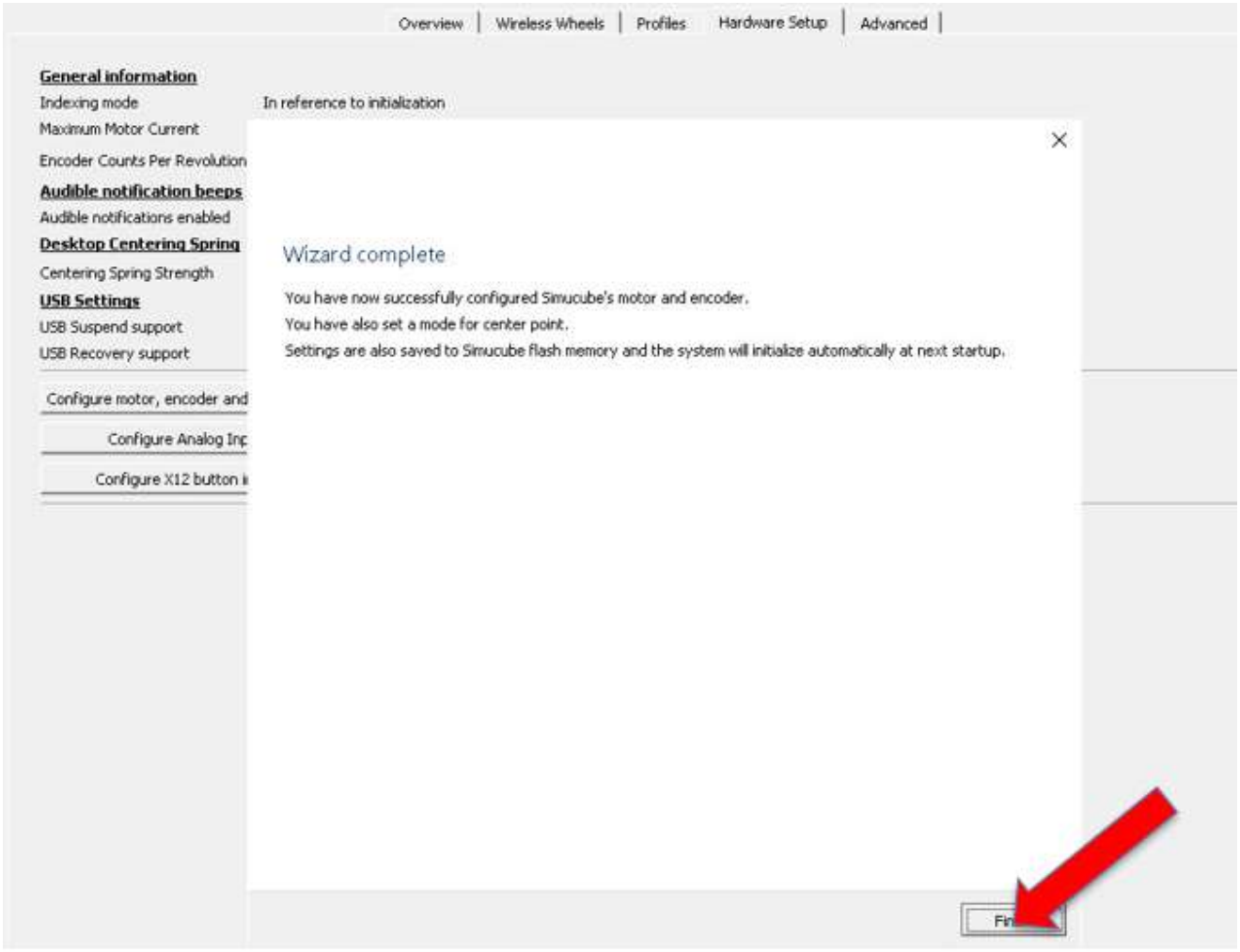

Overview
Wireless Wheels
Profiles
Hardware Setup
Advanced
General information
Indexing mode
In reference to initialization
Maximum Motor Current
Encoder Counts Per Revolution
Audible notification beeps
Audible notifications enabled
Desktop Centering Spring
Centering Spring Strength
USB Settings
USB Suspend support
USB Recovery support
Configure motor, encoder and
Configure Analog Inp
Configure X12 button i
Warning: Continuing past this page will reset Simucube hardware settings.
When you click Next the Simucube will enter configuration mode. The configuration wizard must then be completed fully for the Simucube to operate properly.
Note, that profiles will be not deleted or touched. This will only reset the hardware settings on Simucube. Settings on IONI drive will not be touched, if you did not select a separate DRC configuration file for uploading to IONI.
Next
Cancel


Setup commutation sensors
Possible absolute encoder (BiSS B, BiSS C or SSI) has been detected. With absolute encoders, it is possible to setup and save automatic commutation sensors.
This means that the wheel is not required to perform the phase search routine at startup and it will be immediately usable.
With this dialog, you can turn this feature on and off. If you click Next without doing anything, you will
Please disconnect any wheel rim USB cables, as the motor will rotate during the procedure.
Start automatic commutation setup
Disable previously set automatic commutation settings
Process status:
Automatic commutation setup has been previously performed. You can click Next to continue.
Next
Cancel


Overview
Wireless Wheels
Profiles
Hardware Setup
Advanced
General information
Indexing mode
In reference to initialization
Maximum Motor Current
Encoder Counts Per Revolution
Audible notification beeps
Audible notifications enabled
Desktop Centering Spring
Centering Spring Strength
USB Settings
USB Suspend support
USB Recovery support
Configure motor, encoder and
Configure Analog Inc
Configure X12 button i
Center the wheel
Please center the wheel and make sure the E-stop is released. When you press Next -button, wheel will attempt to initialize.
Next
Cancel


Overview
Wireless Wheels
Profiles
Hardware Setup
Advanced
General information
Indexing mode
Maximum Motor Current
Encoder Counts Per Revolution
Audible notification beeps
Audible notifications enabled
Desktop Centering Spring
Centering Spring Strength
USB Settings
USB Suspend support
USB Recovery support
Configure motor, encoder and
Configure Analog Inp
Configure X12 button i
In reference to initialization
Initializing...
Wheel is initializing. Do not touch the wheel.
Result of the initialization can be seen below.
Motor initialization complete! Press Next to continue.
Next
Cancel


Overview
Wireless Wheels
Profiles
Hardware Setup
Advanced
General information
Indexing mode
Maximum Motor Current
Encoder Counts Per Revolution
Audible notification beeps
Audible notifications enabled
Desktop Centering Spring
Centering Spring Strength
USB Settings
USB Suspend support
USB Recovery support
Configure motor, encoder and
Configure Analog Inp
Configure X12 button i
In reference to initialization
Set wheel center point
Please center the wheel as accurately as you can and press Next -button.
Next
Cancel



PROFILES:

IMPORTANTE: Antes de criar os Profiles verifique se aba Overview os campos aparecem em verde conforme a imagem abaixo:

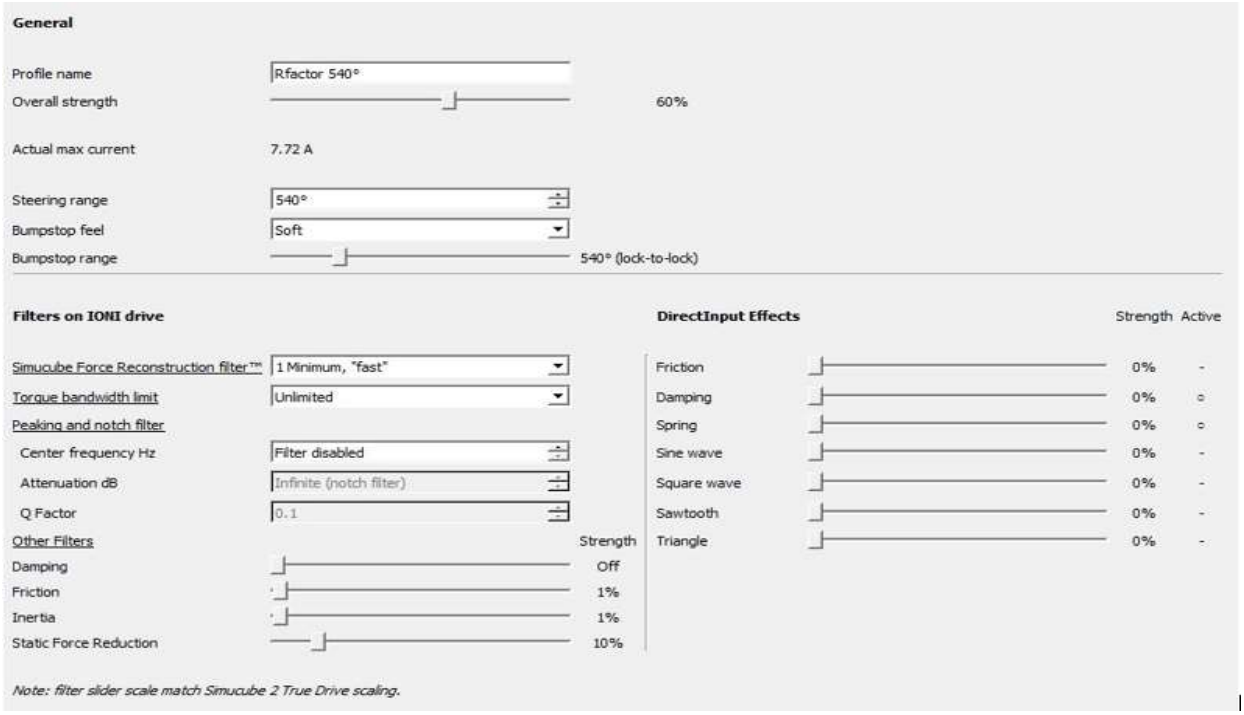
Criando os Profiles:

Nessa aba você configura todas as forças e efeitos para cada game criando os perfis para cada jogo.

É necessário a criação de um perfil para que todas as forças e efeitos seja atribuída a seu Direct Drive

1 - Clique em Profile
2 - Click em ADD
3 - Crie seu Perfil ou importe algum perfil já pronto

Exemplo abaixo RFactor 2



Pro Racing Simuladores

´´Seja Você o Piloto``