

AlphaWindsim.



SimHub Manual For AlphaWindSim V2.0

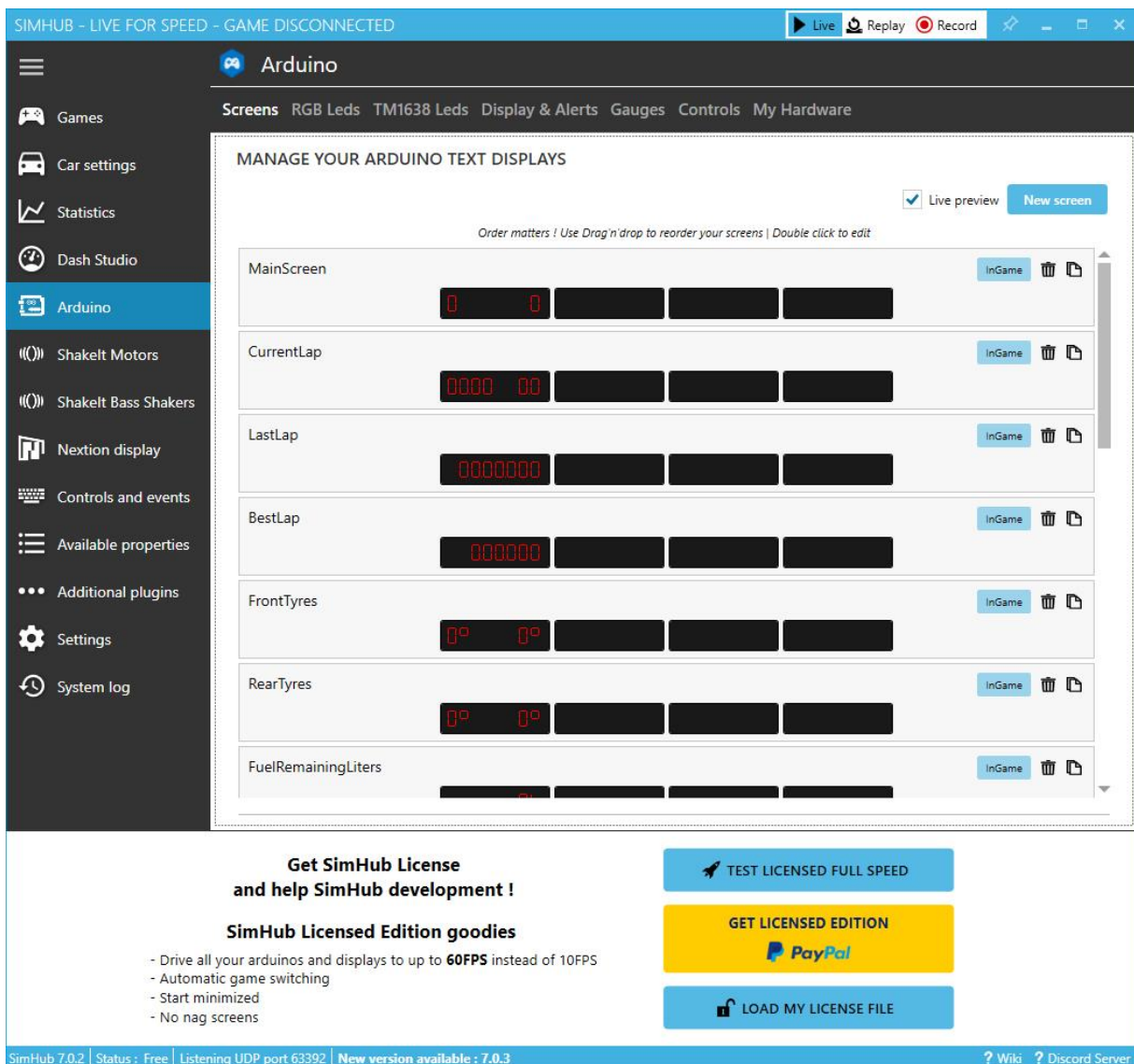
(added wind curving and remote)

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1. Download and install the SimHub software
<https://www.simhubdash.com/download-2/>
2. Connect the USB cable to your computer and to the controller box.
3. Open SimHub and click on “Arduino” on the left side



The screenshot displays the SimHub software interface. At the top, the title bar reads "SIMHUB - LIVE FOR SPEED - GAME DISCONNECTED" and includes buttons for "Live", "Replay", and "Record". The main window is titled "Arduino" and features a navigation menu on the left with options like "Games", "Car settings", "Statistics", "Dash Studio", "Arduino", "Shakelt Motors", "Shakelt Bass Shakers", "Nextion display", "Controls and events", "Available properties", "Additional plugins", "Settings", and "System log". The central area is titled "MANAGE YOUR ARDUINO TEXT DISPLAYS" and contains a list of text displays with their respective values and controls. The displays are: MainScreen (0 0), CurrentLap (0000 00), LastLap (0000000), BestLap (000000), FrontTyres (0° 0°), RearTyres (0° 0°), and FuelRemainingLiters. Each display has an "InGame" button and a trash icon. A "New screen" button is located in the top right of the display management area. Below the main content, there is a promotional section for the SimHub License, including a "TEST LICENSED FULL SPEED" button, a "GET LICENSED EDITION" button with a PayPal logo, and a "LOAD MY LICENSE FILE" button. The footer of the interface shows "SimHub 7.0.2 | Status : Free | Listening UDP port 63392 | New version available : 7.0.3" and links to "Wiki" and "Discord Server".

Get SimHub License
and help SimHub development !

SimHub Licensed Edition goodies

- Drive all your arduinos and displays to up to 60FPS instead of 10FPS
- Automatic game switching
- Start minimized
- No nag screens

TEST LICENSED FULL SPEED

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4. Click on “My Hardware” and after that “Open arduino setup tool”

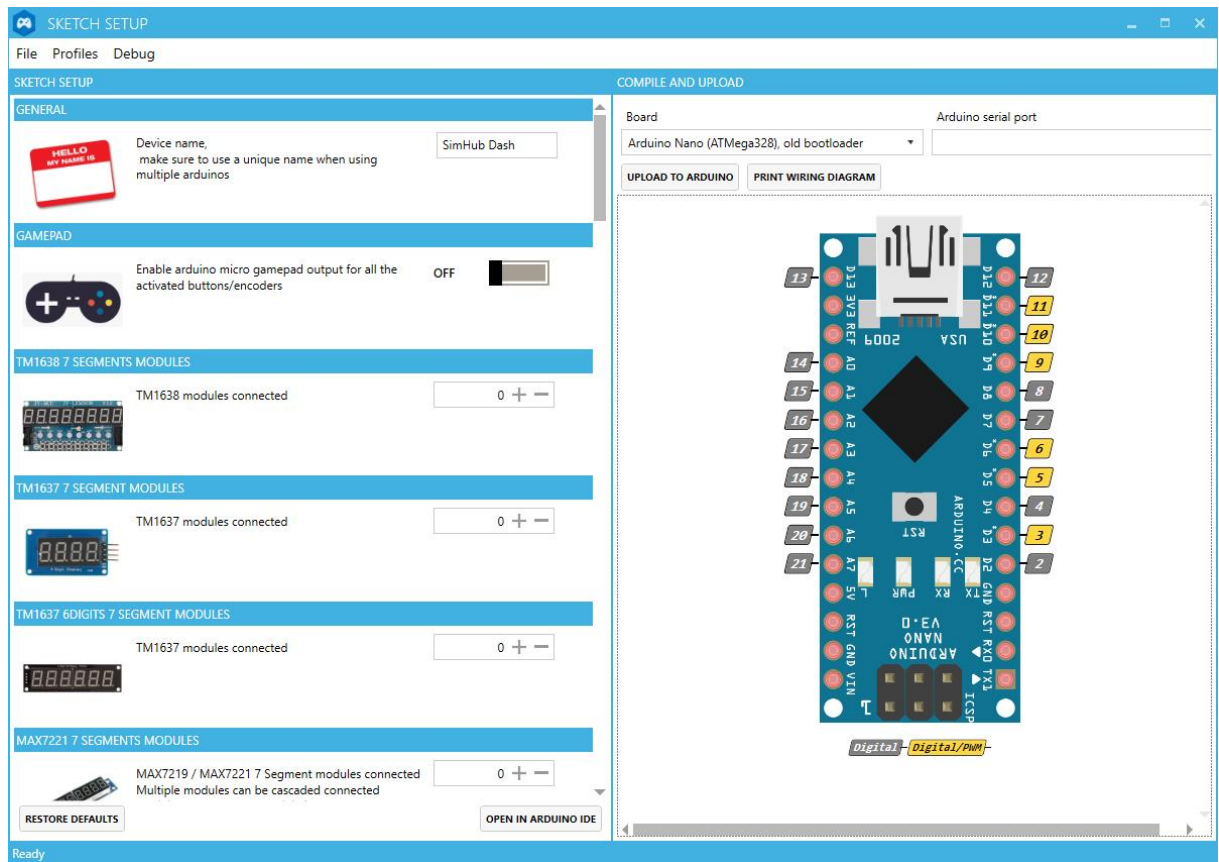
The screenshot shows the SimHub interface for configuring an Arduino. The top navigation bar includes 'My Hardware', which is circled in red. Below this, there are three buttons: 'Arduino disabled', 'Single arduino', and 'Multiple arduinos'. A prominent blue button labeled 'Open arduino setup tool' is also circled in red. The main content area is divided into several sections:

- GENERAL ARDUINO SETTINGS:** Includes checkboxes for 'Read buttons', 'Matrix redline blink', and '7 segment gear indicator redline blink'. It also features input fields for 'Serial speed' (115200 Bauds), 'Matrix Rotations' (2), and 'Matrix Font' (custommatrixfont8x8). A 'LCD refresh speed' field is set to 1.
- ARDUINO SCAN SETTINGS:** Offers options to 'Scan all serial ports' or 'Scan only selected ports'. Under 'Scan only selected ports', 'COM13 - Unplugged' is checked.
- DETECTED HARDWARE:** A large grey box indicating 'No devices detected' and 'Scan in progress ...'.
- DEVICES SCAN:** A table with four rows, each showing a timestamp and the message 'No serial ports found':

Timestamp	Status
15:14:52	No serial ports found
15:14:53	No serial ports found
15:14:54	No serial ports found
15:14:55	No serial ports found

At the bottom, there is a promotional section for 'Get SimHub License and help SimHub development!' with three buttons: 'TEST LICENSED FULL SPEED', 'GET LICENSED EDITION' (with a PayPal logo), and 'LOAD MY LICENSE FILE'. The footer contains version information: 'SimHub 7.0.2 | Status : Free | Listening UDP port 63392 | New version available : 7.0.3' and links to 'Wiki' and 'Discord Server'.

5. Click on “Single Arduino”. A new window will open as shown below;



6. On the left side scroll down until you see “Shakelt PWM OUTPUTS” and set “fans enabled” to 2 (default is 0)

PWM Output 1 pin = 6

PWM Output 2 pin = 9

7. Now on the right side select Arduino Uno and the Serial Port and click on “Upload to Arduino” (The serial port should start with “USB-SERIAL CH340 or Arduino Uno”)

The screenshot shows the 'SKETCH SETUP' window in the Arduino IDE. The 'COMPILE AND UPLOAD' section is highlighted with a red box, showing the 'Board' dropdown set to 'Arduino UNO (ATMega328p)' and the 'Arduino serial port' dropdown. Below these are the 'UPLOAD TO ARDUINO' and 'PRINT WIRING DIAGRAM' buttons. The 'SKETCH SETUP' section on the left contains various hardware options: 'SHAKEIT PWM OUTPUTS' (0), 'SHAKEIT PWM FANS OUTPUTS' (1), 'OLED GLCD' (OFF), 'NOKIA GLCD' (OFF), and '74HC595 GEAR DISPLAY'. A 'RESTORE DEFAULTS' button is at the bottom left, and an 'OPEN IN ARDUINO IDE' button is at the bottom right. The status bar at the bottom left says 'Ready'. On the right side of the window, there is a detailed illustration of an Arduino Uno board with various components and pin headers labeled.

8. When the upload is confirmed close this screen and return to SimHub Arduino screen to select the right COM port. (The selected com port should start with "USB-SERIAL CH340 or Arduino Uno")

The screenshot shows the SimHub Arduino configuration interface. The top bar indicates 'SIMHUB - LIVE FOR SPEED - GAME DISCONNECTED' and includes 'Live', 'Replay', and 'Record' buttons. The left sidebar contains navigation options like 'Games', 'Car settings', 'Statistics', 'Dash Studio', 'Arduino', 'Shakelt Motors', 'Shakelt Bass Shakers', 'Nextion display', 'Controls and events', 'Available properties', 'Additional plugins', 'Settings', and 'System log'. The main content area is titled 'Arduino' and has tabs for 'Screens', 'RGB Leds', 'TM1638 Leds', 'Display & Alerts', 'Gauges', 'Controls', and 'My Hardware'. Under 'My Hardware', there are buttons for 'Arduino disabled', 'Single arduino', and 'Multiple arduinos'. A blue banner at the top of the main area says 'Before using your arduino you must upload the sketch' with a 'More infos ...' link and an 'Open arduino setup tool' button. Below this, the 'GENERAL ARDUINO SETTINGS' section includes: 'Read buttons' (checked), 'Serial speed' (115200 Bauds), 'Matrix Rotations' (2), 'Matrix Font' (custommatrixfont8x8), 'Matrix redline blink' (checked), '7 segment gear indicator redline blink' (checked), and 'LCD refresh speed' (1). The 'ARDUINO SCAN SETTINGS' section, highlighted with a red box, includes: 'Scan all serial ports' (radio button), 'Scan only selected ports' (radio button, selected), 'COM1 - Communicatiepoort' (checkbox), 'COM13 - Unplugged' (checkbox, checked), and 'Never scan selected ports' (radio button). The 'DETECTED HARDWARE' section shows a large grey box with the text 'No devices detected' and 'Scan in progress ...'. The 'DEVICES SCAN' section shows a list of scan results: '15:29:04 No serial ports found', '15:29:05 No serial ports found', '15:29:06 No serial ports found', and '15:29:08 No serial ports found'. At the bottom, there is a license promotion section with the text 'Get SimHub License and help SimHub development !' and 'SimHub Licensed Edition goodies' followed by a list of benefits: '- Drive all your arduinos and displays to up to 60FPS instead of 10FPS', '- Automatic game switching', '- Start minimized', and '- No nag screens'. There are three buttons: 'TEST LICENSED FULL SPEED', 'GET LICENSED EDITION' (with a PayPal logo), and 'LOAD MY LICENSE FILE'. The bottom status bar shows 'SimHub 7.0.2 | Status : Free | Listening UDP port:63392 | New version available : 7.0.3' and links to 'Wiki' and 'Discord Server'.

- Now click on “Shakelt Motors” on the left and select “Motors Output” on the top. Scroll all the way down to “Speed” and change the first Channel to ON

The screenshot shows the SimHub interface with the 'Shakelt Motors' settings. The 'Motors Output' tab is selected. The 'OUTPUT SELECTION' section shows a table of motor outputs. The 'Speed' row is highlighted with a red box, and the first channel is set to 'ON'.

	Channel	1	2	3	4	5	6	7	8	9	10	11	12
FrontLeft	Channel	Test now	Test now	Test now	Test now	Test now	Test now	Test now	Test now	Test now	Test now	Test now	Test now
RearLeft	Channel	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RearRight	Channel	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RPMS	All	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Simulated road texture	All	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Speed	All	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Speed with carving	Left	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	Right	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Static wind	All	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Wheels lock	FrontLeft	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	FrontRight	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	RearLeft	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

At the bottom of the interface, there is a promotional banner for SimHub License. It includes the text: "Get SimHub License and help SimHub development!", "SimHub Licensed Edition goodies", and a list of benefits: "- Drive all your arduinos and displays to up to 60FPS instead of 10FPS", "- Automatic game switching", "- Start minimized", and "- No nag screens". There are three buttons: "TEST LICENSED FULL SPEED", "GET LICENSED EDITION" (with a PayPal logo), and "LOAD MY LICENSE FILE".

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10. Now click on “Effects Profile” and scroll down till you see “Speed”. Here you can configure effect setting in the way you want. You can also test the output. If you keep clicking on “Test” and have the power supply connected to your WindSim the fans should spin.

The screenshot shows the SimHub interface with the 'Effects Profile' tab selected. The 'SPEED' effect is highlighted with a red box. The 'SPEED' effect settings include:

- Effect low force (km/h): 2
- Effect high force (Max speed %): 50
- Current max speed: 0km/h
- Response filter: A graph showing a linear response curve from 0 to 100.
- Gamma Factor: 1.00
- Live effects: A 'Speed Test' button is highlighted with a red box.
- Output: A 'Test' button is highlighted with a red box.

Below the settings, there is a promotional banner for 'Get SimHub License and help SimHub development!' with the following text:

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The banner also includes buttons for 'TEST LICENSED FULL SPEED', 'GET LICENSED EDITION' (with a PayPal logo), and 'LOAD MY LICENSE FILE'.

At the bottom of the interface, the status bar shows: SimHub 7.0.2 | Status : Free | Listening UDP port 63392 | New version available : 7.0.3 | ? Wiki ? Discord Server

11. Before starting your game go to “Games” find your game and click on the logo. And we are ready to go! Have fun!

The screenshot displays the SimHub interface for the I Racing game. The top bar shows 'SIMHUB - IRACING - GAME DISCONNECTED' and recording controls (Live, Replay, Record). The left sidebar contains a menu with 'Games' highlighted. The main area shows the 'Games' section with a search bar containing 'iracing'. The I Racing game card is highlighted with a red box. The bottom of the screen features a license promotion banner with the following text and buttons:

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- Start minimized
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Buttons: **TEST LICENSED FULL SPEED**, **GET LICENSED EDITION** (with PayPal logo), **LOAD MY LICENSE FILE**

Footer: SimHub 7.0.2 | Status : Free | New version available : 7.0.3 | ? Wiki | ? Discord Server