



# **InO-Bot**

User Guide

www.tts-shopping.com

InO-Bot – User Guide

Product Code: EL00483

## InO-Bot

## InO-Bot, full of inputs and outputs.

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# **InO-Bot Bluetooth Connection**

For all versions of Windows:

- 1. Ensure that Scratch 2 Offline is installed. For more details see: https://scratch.mit.edu/scratch2download/
- 2. Download and install the TTS Scratch Launcher from the supporting material section of this page: http://www.tts-group.co.uk/ino-bot-scratch-programmable-bluetooth-floor-robot/1009821.html

#### Windows 7 Bluetooth Connection 3...8 1. Switch on InO-Bot 🍖 🧧 Customize 2. Click on the small arrow on the taskbar and then click on the Bluetooth icon.

3. From the menu that appears click on Add a device.

- 4. A list of available Bluetooth devices will be shown.
- 5. Click on the icon by InO-Bot and then click on next.



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Add a Device Allow a Device to Conn w Bluetooth Devices

Send a File Receive a File

Join a Personal Area Network Open Settings Remove Icon 4 

6. Once a connection is made the screen below will be shown. Click on close.



- 7. Click on this message or icon to view the driver installation progress (shown below).
- 8. Windows will automatically install the required drivers.



9. Once the drivers are installed the message below will be shown. Click on close.



Note: Steps 2 to 9 above only need to be completed once for an InO-Bot to be used. Once complete the computer will remember that particular InO-Bot.

### Windows 8.1 Bluetooth Connection

- 1. Switch on InO-Bot
- 2. Click on the small arrow on the taskbar and then click on the Bluetooth icon.
- 3. From the menu that appears click on Add a Bluetooth device.

4. The screen will change and a list of available Bluetooth devices will be shown.



5. Click on the headphone icon by InO-Bot and then click on Pair.



- 6. Once paired a Connect message will be displayed.
- 7. The Bluetooth connections panel can be closed. Windows will display a message while the Bluetooth connection process completes.

Device Setup		×
Installing InO-B	ot	
R	Please with while Setup installs necessary files on your system. This may take several minutes.	1
	Cte	se

Note: Steps 2 to 7 above only need to be completed once for an InO-Bot to be used. Once complete the computer will remember that particular InO-Bot.





Add a Bluetooth Device Allow a Device to Connect Show Bluetooth Devices

Join a Personal Area Network

Send a File Receive a File

Open Settings Remove Icon 0 🕛 🏱 Customize...

#### **Windows 10 Bluetooth Connection**

3. Click on Add a Bluetooth Device

- 1. Switch on InO-Bot.
- 2. Click on the Bluetooth icon from the system tray (bottom right of the screen)
- \*
- Add a Bluetooth Device
  Allow a Device to Connect
  Show Bluetooth Devices
  Send a File
  Receive a File
  Join a Personal Area Network
  Open Settings
  Remove Icon
- 4. Click on the headphone icon by InO-Bot (ignore the tablet / phone icon)

	Manage Bluetooth devices				
	Bluetooth				
	On On				
	Your PC is searching for and can be discovered by Bluetooth devices.				
	Paired				
**************************************	InO-Bot Ready to pair				
******	InO-Bot Ready to pair				

5. An option to pair should appear. Click on the Pair button.



6. Once the pairing completes the Connected message should appear:



Note: Steps 2 to 6 above only need to be completed once for an InO-Bot to be used. Once complete the computer will remember that particular InO-Bot.

- 4. Scratch will open and a graphic will appear which indicates the PC is searching for InO-Bots that have been paired with that machine.

3. Tick the Basic or Advanced box underneath the InO-Bot icon. Basic is a more limited set of Scratch Blocks for InO-Bot and Advanced contains all blocks available for InO-Bot. Click on Start Scratch.

- Using InO-Bot (Windows 7, 8.1 and 10)
- 1. Double click on the Scratch Launcher icon
- 2. The TTS Scratch Launcher will open and try and detect if a Scratch Controller or Rainbow Matrix is connected. If either is detected a tick will appear in the box underneath the icon.
  - TTS Scratch Davice Select Scratch Device(s) to Use



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Start Scratch

5. If an InO-Bot is detected a dialogue box should appear which indicates the COM port an InO-Bot is connected to (COM port can vary from machine to machine).

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6. Click on OK to close the dialogue box.



7. InO-Bot can then be used with Scratch. Additional blocks to control InO-Bot are available in More Blocks.



#### **Scratch Blocks**

Basic

Command	Values	Description
Set LED 1 to Red	1 – 8	Lights the top LEDs in different colours. LED 1 is on the back right hand side and numbered in an anti-clockwise direction ie LED 8 is on the back left.
Set All LEDs to Blue		Lights all the LEDs on top a given colour
White LED Both to 10	0 – 10	Lights the headlights – left, right or both. 0 is off. 10 is full brightness.
Forwards Medium for 10 cm	1 – 127	Moves forwards the stated distance and given speed (slow, medium or fast).
Reverse Medium v for 10 cm	1 - 127	Moves backwards the stated distance and given speed (slow, medium or fast).
Forward Medium V		Switches the motors on forward.
Reverse Medium V		Switches the motors on in reverse.
Stop motors		Stops the motors
Spin Left Medium by 45 degrees	0 – 180	Turns stated angle anti-clockwise at given speed (slow, medium or fast).
Spin Right Medium by 45 degrees	0 – 180	Turns stated angle clockwise at given speed (slow, medium or fast).
Play sound O	0 – 29	Plays given sound (see below for index).

"Scratch is developed by the Lifelong Kindergarten Group at the MIT Media Lab. See http://scratch.mit.edu."



#### Advanced

The commands and sensors below are available in addition to the Basic blocks listed above.

Command	Values	Description		
Set All LEDs to RGB 000	0 - 255	Sets the top LEDs a given colour using red, green and blue values.		
Set LEDs OV to RGB 0 0 0	1 – 8 and 0 - 255	Sets a LED on top a given colour using red, green and blue values.		
External connector Stop	Forward, Reverse, Stop	For use with the external connector		
IR Beacon On Con /		Switches the infrared beacon on or off.		
Sensors				
IR Receive	255 - 0	If infrared is detected. Lower value is high level of infrared.		
Left Wheel Right Wheel		These show the readings from the wheel counters built in to the robot.		

#### Sounds

Effect		Piano		Xlyo	
Index	Sound	Index	Sound	Index	Sound
0	1	10	а	17	1c
1	2	11	b	18	1d
2	3	12	с	19	1e
3	4	13	d	20	1f
4	5	14	е	21	1g
5	6	15	f	22	2a
6	7	16	g	23	2b
7	8			24	2c
8	9			25	2d
9	10			26	2e
				27	2f
				28	2g
				29	За

## **Technical Support**

Please visit www.tts-group.co.uk for the latest product information.

Email feedback@tts-group.co.uk for technical support.

TTS Group Ltd. Park Lane Business Park, Kirkby-in-Ashfield, Nottinghamshire, NG17 9GU, UK.

Freephone: 0800 318686 Freefax: 0800 137525

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