

Otto DIY Emotional LED eyes robot



Otto DIY

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Summary

The most emotional robot ever. you will be able to program your STEM robot to express multiple feelings.



1.69 hrs



1 pcs



0.28 mm



0.40 mm



PLA



27 g



Prusa MINI /
MINI+

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Tags: [robot](#) [diy](#) [biped](#) [arduino](#) [electronics](#) [ottodiy](#)

The most emotional robot ever of the Otto family is back!. Thanks to our own developed LED “Eyes” combined with all the dance moves, touch sensor and sound gestures of all the other Ottos. you will be able to program your STEM robot to express multiple feelings, depending of the personality you want to give him/her.

more info in <https://www.ottodiy.com/>

Print instructions

Recommended to use a FDM 3D printer.
No need supports or rafts.

Resolution: 0.3mm or 0.2mm for better resolution
Fill density 15%

Features

- Simple Programming with [Otto Blockly](#) or Arduino
- **Reacts to touch**
- **LED Matrix emotional eyes**
- Instruction manual included
- Integrated USB charger
- Walks & dances
- Makes emotional sounds and melodies

List of Parts

- Otto Nano Microcontroller I/O board
- Micro USB cable
- Rechargeable battery.
- ⚙ 4 x micro servo motors with set of screws.
- Matrix LEDs 16×8
- Touch sensor
- Buzzer
- 10 x DuPont cables
- Phillips screwdriver
- **3D Printed head for LED matrix**
- **3D print the biped body parts** : [Otto DIY biped](#) | [STL files](#) |

Instruction Manual in the files tab.

You could also remote control via our Bluetooth App.

We invested lots of time and resources to provide open source code, software and hardware, please support this project by just **giving us a ♥ Like and share** and you are **welcome to be a part of this friendly community** of robot builders, teachers and makers.

Join today our [Otto Builder community](#)

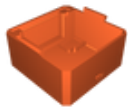
This remix is based on



Otto DIY build your own robot

by Otto DIY

Model files



ottodiyeyesheadv13.stl

☐ Head IF using the small board



ottodiyeyesheadv13s.stl

☐ Head IF using the Arduino Nano + I/O Shield

Print files



ottodiyeyes_028mm_pla_mini_1h42m.gcode

🌀 PLA 📏 0.40 mm ≡ 0.28 mm ⌚ 1.69 hrs ⚖️ 27 g 🖨️ Prusa MINI / MINI+

☐ Only head

Other files

ottodiyeyesmanualv13.pdf

☐ build manual

[Find source .stl files on Thingiverse.com](#)

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