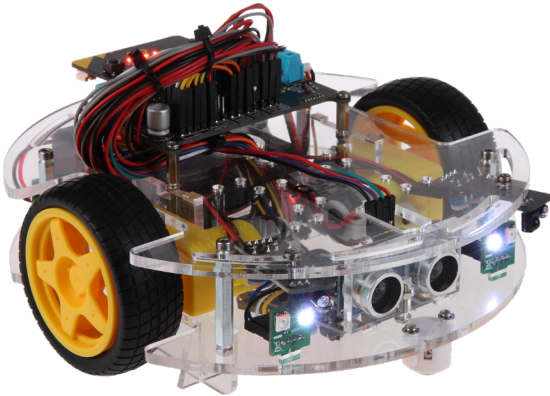


JOY-CAR

Micro:Bit-based education robot



The Joy-Car is an autonomous education robot based on Micro:Bit and offers a modular robotics learning kit. Sensors such as line tracking, ultrasonic, infrared and wheel speed sensors enable functions such as autonomous driving and even control via BT using a second, separate Micro:Bit. The additional equipment simulates turn signals, lights, reverse lights and horn, rounding out the experience of an autonomous robot car. By using addressable LEDs, additional individual lighting scenarios can be realized. Education for all!

The Joy Car is the ideal vehicle for learning about electronics and programming and was specially designed for use in schools.

In cooperation with the Fraunhofer Institute, the Joy Car was integrated into the Open Roberta platform. This makes it immediately usable for everyone, even without programming knowledge, and guarantees a lot of fun without frustration with immediately visible results.

MAIN FEATURES

Special features

Autonomous Education Robot
Part of the Open Roberta Education platform of the Fraunhofer Institute
Specially tailored for use in schools and other educational institutions
BT control via 2. micro:bit possible
Compatible with all micro:bit controllers
Extensive tutorials & program codes
Entry even without Programming knowledge

Power supply

4x AA batteries,
Alternative: 4.5 - 9 V DC

COMPONENTS

Included sensors

2x Speed sensor,
3x line tracking sensor,
1x ultrasonic sensor,
2x obstacle sensor

Included electronics

2x Gear motor,
1x Joy-Car mainboard,
4x LED board,
2x servo motor,
1x battery compartment

Particularly advantageous for use in the classroom, as the effort for the teaching staff is also kept to a minimum.

Furthermore, a comprehensive manual is available on the JoyCar homepage. Here the programming in MakeCode and MicroPython is explained. Information, tips and a forum for questions, problems and ideas are also offered there.

MORE INFORMATION

Item number	MB-Joy-Car
EAN	4250236820705
Customs tariff number	85437007
Dimensions	189 x 171 x 77 mm
Items shipped	Joy-Car acrylic build kit, sensors, electronics, assembly material, Connecting cable

