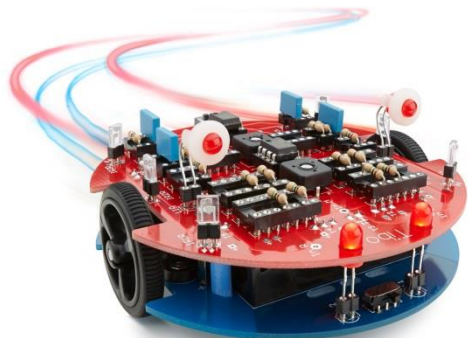


## tinobo – bionic robot kit for experimentation




- Diverse functions
- Analog controlled
- Requires no programming
- Patented sensor technology
- For both beginners and professionals

### features

- Surprising driving manoeuvres through sensitive reaction to light and shadow
- Avoiding obstacles and collisions
- Remote controlling via flashlight
- Following of light, lines or objects
- Combinations of different functions
- Interaction with other robots via infrared light

tinobo offers an exciting and playful approach to the fascinating world of electronics without the need for programming. Its patented sensor technology allows it to respond in a particularly sensitive manner to its environment and detect obstacles using only brightness contrasts. tinobo's control circuits can be set up using only a few components following instructions and gradually expanded with increased understanding.

### specifications

dimensions	tinobo: 100x100x40 mm / packaging: 160x110x50 mm
weight	tinobo (without batteries): 130 g / gross weight: 260 g
power supply	4 x Micro/AAA/LR03 – (rechargeable) batteries (1.2 V or 1.5 V)
charging	charge socket for external charger with DC connector (Ø 3.5 mm / 1.3 mm, 4.8 V, 0.9 A max) 
operating time	IR-LEDs off: 25 - 50 hours (@ batteries with 1000 mAh) IR-LEDs on: 5 - 25 hours (@ batteries with 1000 mAh)

### scope of delivery

Manual:	construction manual and experiments guide (40 pages)
Electronic components:	2 switches, 1 self-resetting fuse, 1 charging socket, 6 LEDs, 5 photo transistors, 6 IR-LEDs, 2 dual operational amplifiers, 2 potentiometers, 40 resistors, 10 capacitors, 4 diodes
Mechanical components:	2 circuit boards, 2 metal gear motors, 2 motor holders, 2 wheels, 1 steel ball and ball holder, 1 retaining plate, 2 battery holders, 14 screws, 6 nuts, 4 spacer bolts, 4 soldering pins, 14 sockets, 14 IC-sockets, 2 LED-holders, 1 shrink hose, 1 black electrical tape, 1 assortment box
<b>Necessary tools</b> (not in the scope of delivery)	Soldering iron and solder, pointed pliers, side cutter, small cross and slotted screwdrivers, 4 x AAA/R03 (rechargeable) batteries