

xTool mBot Ranger Educational Robot



Model: ERXMR

Manufacturer: XTOOL

EAN: 6928819504400

Product Code: 1608933

R5,453

xTool mBot Ranger Educational Robot

The xTool mBot Ranger Educational Robot is a construction kit that combines learning about programming, robotics, and electronics with hands-on play. With a single kit, you can build three different models: a self-balancing robot, a race car, and a tracked robot, allowing children to explore different ways robots move and function. There are also 8 pre-programmed routines to help get started, and the robot can run for up to about 2 hours. The mBot Ranger is ideal for learning at home, as well as in school classes, workshops, or other educational activities.

From Block-Based Programming to Arduino

The mBot Ranger allows users to begin their coding journey without prior experience, using accessible block-based programming. As their skills develop, users can transition to more advanced

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programming in the Arduino environment, meaning a single kit can accompany them through successive stages of learning. The software and app work on devices running Android, iOS, Windows, macOS, Linux, and Chromebooks, among others, making it easy to use the robot across various devices.

Three configurations and many ways to play

The robot’s modular design means the fun doesn’t end with assembling a single model. The mBot Ranger can move on wheels or tracks, and its design allows it to be used on more challenging surfaces, such as grass, rocks, or uneven terrain. Pre-set modes include voice control, racing, obstacle avoidance, line following, and free driving, so users can first explore the robot’s capabilities and then create their own solutions.

Independent Assembly and Skill Development

The mBot Ranger is designed for self-assembly, so even putting the robot together is part of the learning process. Step-by-step instructions and educational materials help users understand how to connect the individual components, and the subsequent programming demonstrates in practice the relationship between the written code and the robot’s behavior. This approach fosters creativity, logical thinking, problem-solving skills, and manual dexterity, making the mBot Ranger an engaging kit for both at-home experiments and group robotics lessons.

Manufacturer	xTool
Model	ERXMR
Product Type	educational robot / programming learning kit
Number of Possible Configurations	3
Configurations	self-balancing robot, race car, tracked robot
Number of Pre-programmed Routines	8
Programming	block-based and Arduino
Supported platforms	Android, iOS, Windows, macOS, Linux, Chromebook

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Maximum runtime	up to 2 hours
Programmable	yes
Intended use	learning programming, robotics, and the basics of electronics

Information about data generation: <https://dataact.innpro.pl/XTOOL/6928819504400>, GPSR Link: https://psr-assets.innpro.pl/toys/sg_toys_educational_robots.pdf, PPWR: <https://ppwr.innpro.pl/en/xtool>, Gross weight: 1650, Net weight: 1240, Box length: 21,00, Box width: 10,00, Box height: 25,50, Last delivery: 23.10.2026

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