

Published based on [lego mindstorms nxt 2.0](#)

lego mindstorms nxt 2.0

lego mindstorms nxt 2.0



The Lego Minstorm series is about taking the popular Lego series to the next level, aimed at children from 10 years and up the Lego Mindstorm nxt 2.0 is a combination of Lego and computer technology to create Robots that are able to Talk move and even see, the lego mindstorms nxt 2.0 has an incredible 619 pieces but you should be able to complete a kit and have it fully working within 1 hour,

The highly intelligent Lego Mindstorm bricks have a 32 bit processor-matrix display, input and output ports, USB and bluetooth connection ports, for this particular model alone there are around 95 positive reviews of which the average rating is 4.5 out of 5.

The [lego mindstorms](#) nxt 2.0 is aimed at older children but adults would also find it a fantastic present and is sure to be on the list of [best christmas toys](#) for this year, Creating a MINDSTORMS robot is challenging -- but not too difficult -- with an illustrated step-by-step booklet and software showing the way.

[>>lego mindstorms nxt 2.0 14% discount<<](#)

The booklet gives you instructions for building a basic "Quick Start" robot only, which is an easy introduction to the MINDSTORMS experience. This robot took our two adult testers about 30 minutes to build and 30 minutes to program. After that, they spent a lot of time just playing with their creation and testing its abilities.

Once you master the basics of MINDSTORMS, you'll need to use the included software to get instructions for more advanced creations. You can also use the MINDSTORMS web site to find instructions for many other robots, or you can create robots on your own. No matter what you choose to create, the principles are the same: just build the robot using the LEGO elements in the kit, and program it on your computer using the software. Then watch your robot come alive.

MINDSTORMS NXT 2.0 features the latest in robotic technology: an advanced programmable microcontroller, Interactive Servo Motors, smart sensors, icon-based drag-and-drop programming software, interactive challenges, and wireless Blue tooth and USB connections -- all the smart technologies you need to create your custom robot.

First, the brain of the MINDSTORMS robot is NXT, an intelligent, computer-controlled LEGO brick that features a 32-bit microprocessor, a large matrix display, input and output ports, and a speaker.

Second, three Interactive Servo Motors give you precise control over the robot and ensure that the robot

moves with precision -- the built-in rotation sensor can measure one-degree



steps.

Third, there are four robotic sensors. The first is the Ultrasonic Sensor, one of two sensors that gives your robot vision. You can use it to make your robot avoid obstacles, sense and measure distance, and detect movement.

And fourth of all, two Touch Sensors give your robot a sense of touch. They detect when they are being pressed or released, and you can use them to make your robot pick up things or act on command. For example, by pressing a Touch Sensor you can make your robot walk, talk, close a door, or turn off your TV.

There's also a Color Sensor that functions three ways: it distinguishes colors -- black and white, as well as a range of bright and pastel colors -- it distinguishes light settings, and it can be used as a color lamp.

[>>lego mindstorms nxt 2.0 14% discount<<](#)

And finally, the MINDSTORMS Software lets you program your robot. Use the software to create a program, and then download the program to the NXT by using the USB cable or the wireless Blue tooth connection. Mac- and PC-compatible drag-and-drop software gives you 16 building and programming challenges, from beginner to expert.

Overall, this set scores an excellent rating for its clever design elements. Our testers enjoyed the way the set brought a new level of interaction to their LEGO experience, and appreciated how easy it was to create their first robot. They also loved the way this set encourages inventive play -- all the cool hardware that makes up the set can be used to build any robot you dream up. Finally, our testers liked how this set offers a great balance of learning and fun, and encourages interest in science, computers, and engineering.