RadioShack®
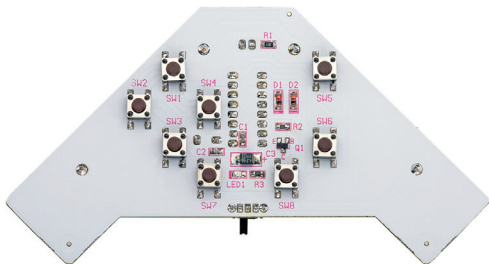
Starting with STEM

Robotics Remote Control

We hope you enjoy your Robotics Remote Control from RadioShack. Please read this user's guide before using your new remote control.

Package Contents

- Infrared (IR) Remote Control
- User's Guide

Features

- Expand your designs to include an IR-sensing remote control.
- Works with the IR receiver included with Robotics Add-On Project Kit
- Transmits IR signal up to 24.6 ft. (7.5m) line-of-sight.
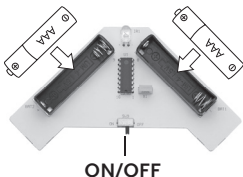- Six sets of combination keys deliver a total of 64 commands.

Specifications

Operating Voltage	3V
Idle Current	≤5mA
Operating Current	≤15mA
Frequency	38KHz
Maximum Transmit Distance	24.6 ft (7.5m)

Specifications are subject to change and improvement without notice. Actual product may vary from the images found in this document.

Install Batteries

Insert 2 AAA batteries (not included) into the battery compartments on the back of the remote control matching the polarities (+ and –) marked inside.

ON/OFF

Battery Notes

- Use only fresh batteries of the required size and type. Do not mix old and new batteries, different types of batteries (standard or alkaline).
- Dispose of batteries promptly and properly. Do not burn or bury them.
- If you do not plan to use the remote for a long time, remove the batteries.

Use the Remote Control

To use the remote control with your robotics kits, you must upload one of the IR_remote.ino files to your Arduino board. Refer to the Robotics Kit user's guides for more details.

Note: The IR remote control and receiver are sensitive to ambient light intensity. To improve operating range, lower the ambient light intensity by moving the robot away from windows or turning off lights.

Robotics Add-On Project Kit

Button	Bulldozer	Drill	Surveillance	Sweeper	Catapult	Spotlight	Clamping Arm	Boxer
SW1	Forward	Forward	Forward	Forward	Forward	Forward	Forward	Forward
SW2	Turn left	Turn left	Turn left	Turn left	Turn left	Turn left	Turn left	Turn left
SW3	Backward	Backward	Backward	Backward	Backward	Backward	Backward	Backward
SW4	Turn right	Turn right	Turn right	Turn right	Turn right	Turn right	Turn right	Turn right
SW5	Blade up	Rotate drill clockwise	Turn camera stand clockwise	Rotate sweeper plates clockwise	-	-	-	-
SW6	Blade down	Rotate drill counter-clockwise	Turn camera stand counter-clockwise	Rotate sweeper plates counterclockwise	-	-	-	-
SW7	-	-	-	Sweep continuously	Launch	LEDs on	Clamp and hold	-
SW8	-	-	-	Stop sweeping	Stop launch	LEDs off	Release clamp	-
SW5+SW1	-	-	-	-	Turn arm right	Turn spotlight right	Move clamp up	Left upper cut
SW5+SW3	-	-	-	-	Turn arm left	Turn spotlight left	Move clamp down	Left hammer fist
SW6+SW1	-	-	-	-	Move arm up	Adjust angle up	Open clamp	Right upper cut
SW6+SW3	-	-	-	-	Move arm down	Adjust angle down	Close clamp	Right hammer fist

90-Days Limited Warranty

Go to www.radioshack.com/help for details.