

# Infrared transmitter bit datasheet



The infrared transmitter bit is an output bit that sends data to another Invention Engine bit via infrared (IR) light.

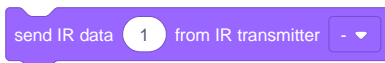
The IR transmitter bit is basically an LED, but instead of being red, orange, or green, its 'colour' is infrared and outside of the human visible spectrum. This is useful as the light produced is not distracting or annoying to people.

The range of the IR transmitter bit is 5 to 10 meters/15 to 30 feet. For the longest range ensure the lens is pointed to the IR receiver bit.

Use in ports	Stencil guide	Bit type	Block category
0 - 7	④	Output	LEDs

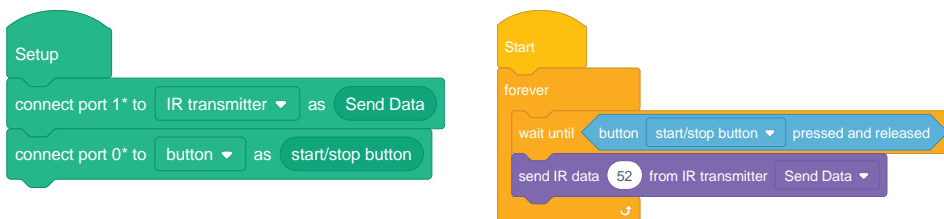
## Programming blocks

The programming block for the infrared transmitter bit can send either a constant (fixed number) or a variable.



## Example program

This example program will send the number '52' via infrared light when the button bit is pressed and released.



## In the real world

Infrared transmitters are used in real world inventions to remotely control devices. The IR LED in the IR transmitter bit is identical to the IR LED inside a TV remote control.

Each button on the TV remote sends a different number to the TV via IR light. The TV will know that, for example, '52' means volume down and '53' means volume up.

