Infrared receiver bit datasheet

The infrared receiver bit is an input bit that receives data from another Invention Engine bit via infrared (IR) light.

The IR receiver bit can see and decode IR light sent from the IR transmitter bit. IR light can't be seen as it is outside of the human visible spectrum.

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

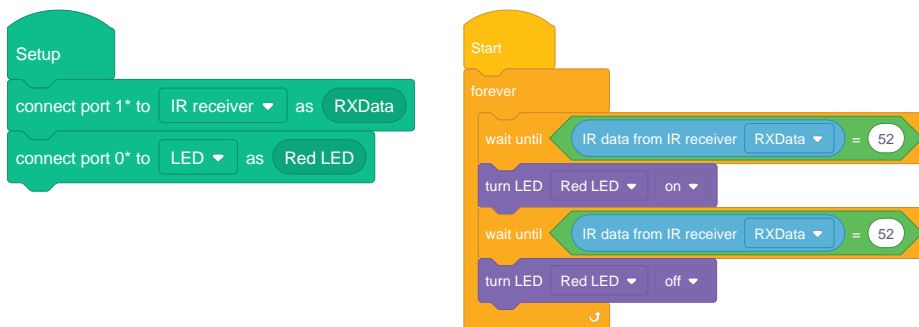| Use in ports	Stencil guide	Bit type	Block category
0 - 7	④	Input	Sensing

Programming blocks

The programming block for the IR receiver bit is a sensing block.

IR data from IR receiver   - ▼

Example program

This example program will wait until the number '52' (data) is received via the IR receiver bit and either turn on or turn off the LED.

Setup
connect port 1* to   IR receiver ▼   as   RXData
connect port 0* to   LED ▼   as   Red LED

Start
forever
wait until   IR data from IR receiver   RXData ▼   = 52
turn LED   Red LED ▼   on ▼
wait until   IR data from IR receiver   RXData ▼   = 52
turn LED   Red LED ▼   off ▼

In the real world

Infrared receivers are used in real world inventions to receive remote control commands.

The IR receiver in the IR receiver bit is identical to the IR receiver inside a TV. Each button press on the TV remote sends a different number to the TV via IR light. The TV will know that, for example, '52' means power on and power off.