







1.Kit Introduction:[↗](#)







Based on Arduino and compatible with Lego series, intelligent traffic is a kidsbits STEM project dedicated to programming education for children aged 6-9. It integrates multitudes of sensors and modules such as traffic lights, a photoresistor, a white LED, a PIR motion sensor, a 8*8 dot matrix display and an active buzzer. In this connection, it is easy for you to DIY multiple intriguing projects including street lamps, an automatic door, windshield wipers as well as an integrated traffic system.





Just as important is that Scratch graphical programming software allows children to learn from the simplest codes and master systematic programming knowledge. Meanwhile, the Lego series can be used to build various shapes and inject some basic physics and mechanical knowledge to children, thus greatly boosting their logical analysis ability, creative ability, hands-on ability and problem-solving ability.


2.Kit list:[↗](#)

#	Component	QTY	Picture
1	Kidsuno Mainboard	1	 <p>The image shows the Kidsuno Mainboard, a small electronic board with a yellow central component labeled 'kidsuno'. It features various colored ports (red, blue, green, yellow) and a USB port on the right side.</p>
2	Traffic Light Module	1	 <p>The image shows the Traffic Light Module, a small electronic board with a green border. It features three colored LEDs (red, yellow, green) and a white sensor component on the right side.</p>
3	Active Buzzer	1	 <p>The image shows the Active Buzzer module, a small electronic board with a blue border. It features a white buzzer component and a blue sensor component on the right side.</p>
4	Photoresistor	1	 <p>The image shows the Photoresistor module, a small electronic board with a red border. It features a photoresistor component and a red sensor component on the right side.</p>
5	White LED	1	 <p>The image shows the White LED module, a small electronic board with a blue border. It features a white LED component and a blue sensor component on the right side.</p>
6	PIR Motion Sensor	1	 <p>The image shows the PIR Motion Sensor module, a small electronic board with a blue border. It features a PIR motion sensor component and a blue sensor component on the right side.</p>

#	Component	QTY	Picture
7	Steam Sensor	1	
8	Obstacle Avoidance Sensor	1	
9	8x8 Dot Matrix Display	1	
10	Ultrasonic Adapter	1	
11	Ultrasonic Sensor	1	
12	270° Servo	1	

#	Component	QTY	Picture
13	USB Cable	1	
14	20cm Connection Wire	4	
15	30cm Connection Wire	3	
16	Battery Holder	1	
17	Traffic Lights	1	
18	Sound of Traffic Lights	1	

#	Component	QTY	Picture
19	Street Lamps	1	 <p>A photograph of a LEGO Technic assembly for street lamps. It features a grey Technic base plate with a yellow motor and a black sensor mounted on top. A white instruction card is placed in the center of the assembly.</p>
20	Automatic Door	1	 <p>A photograph of a LEGO Technic assembly for an automatic door. It is constructed primarily from yellow Technic beams and connectors, with a white motor and black sensor mounted on top. A white instruction card is visible in the center.</p>
21	Windshield Wipers	1	 <p>A photograph of a LEGO Technic assembly for windshield wipers. It features a blue Technic base with a white motor and black sensor. A red Technic beam is attached to the top, and a green Technic beam is attached to the side. A white instruction card is placed in the center.</p>
22	Barrier Gate	1	 <p>A photograph of a LEGO Technic assembly for a barrier gate. It features a grey Technic base plate with a white motor and black sensor mounted on top. A yellow Technic beam is attached to the side, and a red Technic beam is attached to the top. A white instruction card is placed in the center.</p>

#	Component	QTY	Picture
23	Astern Indicating Device	1	
24	Integrated Traffic System	1	