

HE118 3D Cool White Universe Magic Cube DIY Kit

Soldering Method:



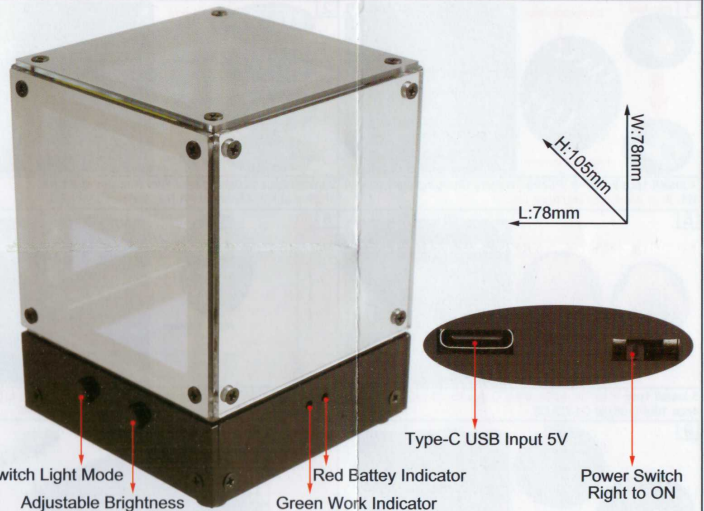
Detailed Manual



Component Listing

No.	Component Name	PCB Marker	Parameter	Quantity
1	IP5305T Battery Charging Controller	U1	ESOP-8	1
2	STC8G1K17A-36I Controller	U2	DIP-8	1
3	IC Socket	U2	DIP-8	1
4	Monolithic Capacitor	C1-C3,C5	10uF(106)	4
5	Monolithic Capacitor	C6	0.1uF(104)	1
6	Electronic Capacitor	C4	22uF 16V 4*7mm	1
7	Metal Film Resistor	R1,R3	220ohm	2
8	Metal Film Resistor	R2	1kohm	1
9	Metal Film Resistor	R4-R6	47ohm	3
10	Metal Film Resistor	R7,R8	100ohm	2
11	S8050 Transistor	Q1	TO-92	1
12	6500K Cool White Ceramic Filament	LED3,LED4	53MM 3V 70mA	12
13	TYPE-C USB Power Wire	/	100cm	1
14	Black Button	SW1,SW2	6*6*7mm	2
15	Button Cap	SW1,SW2	6*6mm	2
16	Red LED	LED1	3mm	1
17	Green LED	LED2	3mm	1
18	TYPE-C USB Female Socket	H1	2Pin	1
19	CD74R Inductor	L1	2.2uH	1
20	SK12D07VG3 Toggle Switch	S1	5Pin	1
21	AA/14500 Battery Socket	P1	AA*1	1
22	M3 Square Copper Pillar	/	8*8*8mm	12
23	Transparent Storage Box	/	65*65*20mm	1
24	L-shaped Inside-Hexagon Wrench	/	M1.5*17*47mm	1
25	M3*5*4.5mm Ultrathin Flat Head Screw	/	M3*5*4.5mm	32
26	M3*3*4mm Copper Pillar Screw	/	M3*3*4mm	4
27	M3*10*6mm Copper Pillar Screw	/	M3*10*3mm	4
28	M3*8*4.2MM Inside-Hexagon Screw	/	M3*8mm	4
29	Silicone Anti-slip Pad	/	D8*H2mm	4
30	Acrylic-A Board	/	76*24*2mm	1
31	Acrylic-B Board	/	76*24*2mm	1
32	Acrylic-C Board	/	72*24*2mm	1
33	Acrylic-D Board	/	72*24*2mm	1
34	Acrylic-E Board	/	74*74*2mm	1
35	Acrylic-F Board	/	72*72*2mm	6
36	PCB HE118-A Circuit Board	/	72*72*1mm	1
37	PCB HE118-B Circuit Board	/	72*72*1mm	6

NOTE:Users can complete the installation according to the PCB silk screen and component list.



Features:

- Adjustable Light Brightness
- DIY Hand Electronic Soldering
- 2-Kind Light Mode: BreathingLight/Keep-ON
- Built-in Rechargeable Circuit
- 12pcs 6500K Cool White Ceramic Filament
- 3D Light Cube and Translucent Acrylic Design

Use Methods:

- Switch Light Mode: Press S2/Left Button to switch Breathing Light, Keep-ON and Turn OFF.
- Adjustable Brightness:
 - At Keep-ON Mode, Keep press S1/Right Button to increase brightness to maximum brightness;
 - Keep press S1/Right Button again after release button to decrease brightness to the darkest;
 - Brightness can be saved after power-OFF, and it will maintain the same brightness after the next power-ON.
- LED Indicator Status:
 - Discharging: Green LED Keep ON;
 - Undervoltage: Green LED Keep Flashing once per second;
 - Charging: Red LED Keep Flashing twice per second;
 - Charged: Red LED Keep ON;
 - Note: Green LED turn OFF after about 30s if turn off power supply;
- 14500 Battery Charging: Turn OFF power switch and then connect USB wire to input DC 5V.
 - Note:
 - Only 14500 lithium battery can be installed, but AA battery cannot be installed!
 - The package does not include 14500 battery, so users need to prepare in advance.
 - It needs to charge the battery first to release the battery protection state, when power-ON for the first time.
 - Standby mode also consumes battery, so please pay attention to battery charging.

