

ESP32-CAM Target Camera - Parts List - Version 1 - 29th July 2024

Part Name	Type	Part Detail / Description	QTY	Price (EA)	Price (Tot.)	Used For	Supplier	Supplier Part #
Screw - 4g x 1/2" (2.9 x 12mm)	Fastener	Black Zinc, Countersunk Phillips Self Tapper - ANSI B18.6.4	4	\$0.07	\$0.28	Mounting Main Section to Battery Section	www.boltandnut.com.au	01C412BZ
Screw - 4g x 1/4" (2.9 x 6.5mm)	Fastener	Black Zinc, Countersunk Phillips Self Tapper - ANSI B18.6.4	8	\$0.05	\$0.40	PCB Face Plate - Mounting to Enclosure (Main Section)	www.boltandnut.com.au	01C414BZ
Screw - 4g x 1/4" (2.9 x 6.5mm)	Fastener	Black Zinc, Countersunk Phillips Self Tapper - ANSI B18.6.4	7	\$0.05	\$0.35	PCB Battery Cover - Mounting to Enclosure (Battery Section)	www.boltandnut.com.au	01C414BZ
Screw - 4g x 1/4" (2.9 x 6.5mm)	Fastener	Black Zinc, Countersunk Phillips Self Tapper - ANSI B18.6.4	8	\$0.05	\$0.40	Mounting Main board to Battery Board via Locating Blocks	www.boltandnut.com.au	01C414BZ
Screw - 4g x 1/4" (2.9 x 6.5mm)	Fastener	Black Zinc, Countersunk Phillips Self Tapper - ANSI B18.6.4	4	\$0.05	\$0.20	Mounting AA Battery Holder to Battery PCB Board	www.boltandnut.com.au	01C414BZ
3D Printed Part - Locating Blocks	3D Printed Object	Material ABS/PETG, .STL File Contains All 4 Blocks	1	\$3.00	\$3.00	Mounting of ESP32 Main Board to Battery Board	https://mixmakes.net/	N/A
3D Printed Parts - Enclosure	3D Printed Object	Material ABS/PETG, Main Section, Battery Section, Cover, Antenna and Nut Holder	1	\$20.00	\$20.00	All the 3D Printed Parts for the Enclosure/Assembly	https://mixmakes.net/	N/A
Bivar PLPC1-188 Light Pipe	Misc / Light Pipe	Light Pipe to Allow LED Light to Transmit Light from Inside to Outside Enclosure	5	\$3.00	\$15.00	Inserted into LED Light Holes on Main Section Enclosure	https://au.mouser.com/	PLPC1-188
Resistor 150r ohm	Semiconductors	RES 0.5W MTL 150R 1% MINI - 150 Ohm 0.5 Watt Metal Film Resistors	5	\$0.12	\$0.60	Soldered onto ESP32 Main Board	www.jaycar.com.au	RR0052
Resistor 100k ohm	Semiconductors	RES 0.5W MTL 100K 1% MINI - 100k Ohm 0.5 Watt Metal Film Resistors	2	\$0.12	\$0.24	Soldered onto ESP32 Main Board	www.jaycar.com.au	RR0620
LED - Tower Type (Blue)	LED Lights	LED 2MM DIF TOWER TYPE BLU 780MCD	2	\$0.75	\$1.50	Soldered onto ESP32 Main Board, LED Pins Bent at 90 deg.	www.jaycar.com.au	ZD0080
LED - Tower Type (Green)	LED Lights	LED 2MM DIF TOWER TYPE GRN 2200MCD	1	\$0.95	\$0.95	Soldered onto ESP32 Main Board, LED Pins Bent at 90 deg.	www.jaycar.com.au	ZD0070
LED - Tower Type (Yellow)	LED Lights	LED 2MM DIF TOWER TYPE YEL 270MCD	1	\$0.75	\$0.75	Soldered onto ESP32 Main Board, LED Pins Bent at 90 deg.	www.jaycar.com.au	ZD0050
LED - Tower Type (Red)	LED Lights	LED 2MM DIF TOWER TYPE RED 600MCD	1	\$0.75	\$0.75	Soldered onto ESP32 Main Board, LED Pins Bent at 90 deg.	www.jaycar.com.au	ZD0040
IC Socket - 16 Pin (8 Each Side)	Misc / Electronics	SKT IC TIN/G 16PIN/300MIL - Generic IC Socket	1	\$0.95	\$0.95	Soldered onto ESP32 Main Board - IC Socket Gets Cut in Half	www.jaycar.com.au	PI6502
2 Way PCB Mount Screw Term. 5mm Pitch	Misc / Electronics	Screw Mount Terminal Block for Providing Power to ESP32 Main PCB Board	1	\$1.95	\$1.95	Soldered onto ESP32 Main Board - Switch/Battery Holder Wires Connected	www.jaycar.com.au	HM3172
40 Way 2.54mm Header Pins	Misc / Electronics	HEADER SGL VRT 40WAY P=2.54MM, Cut to Suit Sizes on ES32 Main Board	1	\$1.45	\$1.45	Soldered onto ESP32 Main Board, 3 x 2 PINS, 1 x 3 PINS	www.jaycar.com.au	HM3212
SPST Ultra Mini Rocker Switch	Misc / Electronics	Snap in fitting. SPST 250VAC 6A. Black body, black actuator	1	\$3.10	\$3.10	Inserted into Main Section, Wires Soldered and Connected to Term. Block	www.jaycar.com.au	SK0975
ESP32-CAM Board + Camera	Main CPU + Camera	ESP32-CAM + OV2490 Camera Module	1	\$10.00	\$10.00	ESP32-CAM + OV2490 Camera Module, Plugs into ESP32 Main PCB Board	Ali Express	N/A
u.FL Connector (5cm)	Misc / Wireless	u.FL/IPeX Connector to RP-SMA Mount	1	\$2.50	\$2.50	Connects to u.FL Connector on ESP32 Board, Mounted on Antenna Holder	Ali Express	N/A
2dbi Antenna (RP-SMA)	Misc / Wireless	2dbi Wireless Antenna	1	\$2.00	\$2.00	External Antenna, Screwed into RP-SMA Enclosure Connector	Ali Express	N/A
4 x AA Battery Holder	Misc / Battery Holder	Dimensions of Battery Holder Must Be (1.5cm H x 6.2cm W x 5.8cm L)	1	\$3.00	\$3.00	Mounted to Battery Board via 4 x Self Tapping Screws	Ali Express	N/A
PCB - ESP32 Main Board	Printed Circuit Board	PCB - ESP32 Main Board	1	\$2.25	\$2.25	Main Board which has the ESP32-CAM Module Inserted into the IC Holder	PCB Way (China)	W601849AS2Y15
PCB - Battery Board	Printed Circuit Board	PCB - Battery Board	1	\$2.25	\$2.25	Battery Board which has the 4xAA Battery Holder Screwed to it	PCB Way (China)	W601849AS2Y18
PCB - Cover - Front	Printed Circuit Board	PCB - Cover - Front	1	\$2.25	\$2.25	Cover that gets screwed to the Main Section of the Enclosure	PCB Way (China)	W601849AS2Y19
PCB - Cover - Rear/Battery	Printed Circuit Board	PCB - Cover - Rear/Battery	1	\$2.25	\$2.25	Cover that gets screwed to the Battery Section of the Enclosure	PCB Way (China)	W601849AS2Y14
Total Cost (\$AUD)				\$78.37				

Note: All Prices are in \$AUD (Australian Dollars), Subject to change based on currency rate and supply/manufacture costs

Note: Prices do not include shipping fees, they are prices based off minimum quantities from suppliers