

# Upright Laser Harp Bill of Materials

Version: 1.0

Date: 25-Sept-2019

Description	Price	Number of units in package	Price/Unit	Quantity used	Net Price
Arduino Mega	\$15.00	1	\$15.00	1	\$15.00
Adafruit music maker shield	\$34.50	1	\$34.50	1	\$34.50
12"x12" sheet 3mm thick plywood	\$29.99	20	\$1.50	20	\$29.99
12"x12" sheet 1/8" thick black acrylic	\$9.95	1	\$9.95	1	\$9.95
12"x12" sheet 3/16" thick clear acrylic	\$16.30	2	\$8.15	0.05	\$0.41
Laser diode modules	\$5.99	10	\$0.60	12	\$7.19
Photoresistors	\$4.65	30	\$0.16	12	\$1.86
1kΩ resistors	\$1.62	100	\$0.02	12	\$0.19
30kΩ resistors	\$1.62	100	\$0.02	12	\$0.19
1kΩ potentiometer	\$0.95	1	\$0.95	1	\$0.95
Rotary encoder	\$8.99	5	\$1.80	1	\$1.80
Potentiometer knobs	\$5.80	1	\$5.80	2	\$11.60
2n3906 npn transistors	\$5.99	200	\$0.03	12	\$0.36
Bipolar Hall effect sensor	\$3.58	10	\$0.36	1	\$0.36
Latch pushbutton	\$8.41	4	\$2.10	1	\$2.10
Momentary pushbutton	\$5.94	10	\$0.59	1	\$0.59
Power switch	\$5.25	2	\$2.63	1	\$2.63
5.5 x 2.5 mm power jack	\$10.60	5	\$2.12	1	\$2.12
2.1mm x 5.5mm power cable to Arduino	\$7.99	5	\$1.60	1	\$1.60
12V 3A power supply	\$8.88	1	\$8.88	1	\$8.88
28BYJ-48 ULN2003 5V Stepper Motor + ULN2003 Driver Board	\$13.99	5	\$2.80	1	\$2.80
2mm diameter magnet	\$8.99	200	\$0.04	6	\$0.27
8ohm speakers	\$16.79	2	\$8.40	2	\$16.79
1/8" audio cable	\$5.09	1	\$5.09	0.5	\$2.55
1/8" audio jack	\$7.99	10	\$0.80	1	\$0.80
Header pins	\$8.26	10	\$0.83	2	\$1.65
Wire wrap wire	\$9.97	1	\$9.97	0.1	\$1.00
M3x20 bolts	\$7.69	50	\$0.15	48	\$7.38
M3 nuts	\$10.15	100	\$0.10	48	\$4.87
USB Type B extension cable	\$8.99	1	\$8.99	1	\$8.99
Prototype board	\$9.99	32	\$0.31	1	\$0.31
				<b>TOTAL:</b>	\$179.68