

## V-One Specifications

Platform	Metric	Imperial
Minimum trace width	0.2 mm	8 mil
Minimum passive size	1005	0402
Minimum pin-to-pin pitch	0.65 mm	26 mil
Resistivity	12 mΩ/sq @ 70 μm height	12 mΩ/sq @ 3 mil height
Supplied substrate material	FR4	FR4
Maximum board thickness	3 mm	0.125"

### Soldering

Minimum passive size	1005	0402
Minimum pin-to-pin pitch	0.5 mm	20 mil
Solder paste alloy	Sn42/Bi57.6/Ag0.4	Sn42/Bi57.6/Ag0.4
Solder wire alloy	SnBiAg1	SnBiAg1
Soldering iron temperature	180-200°C	355-390°F

### Footprint and print bed

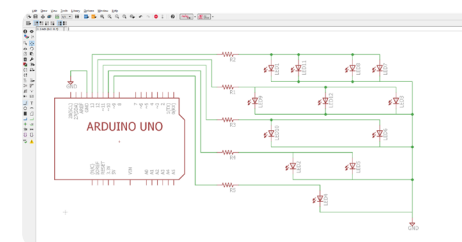
Dimensions (L x W x H)	390 mm x 257 mm x 207 mm	15.4" x 10.1" x 8.2"
Weight	7 kg	15.4 lbs
Print area	128 mm x 116 mm	5" x 4.5"
Max heated bed temperature	240°C	464°F

Drilling	Metric	Imperial
Spindle speed (max)	13,000 RPM	13,000 RPM
Power	12V, 25W	12V, 25W
Runout (TIR)	0.076 mm	0.003"
Shank diameter	3.175 mm	1/8"
Supplied substrate material	FR1	FR1
Bit diameter (max)	2 mm	0.078"
Bit length (max)	38.1 mm	1.5"

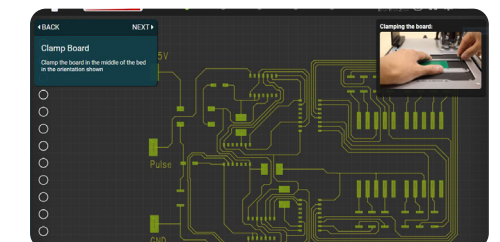
Solder compatibility	Sn42/Bi57.6/Ag0.4 Solder	Sn63/Pb37 Solder
Standard ink	✓	✗
Flexible ink	✓	✗
Copper PCBs	✓	✓
HASL PCBs	✗	✓

### Software requirements

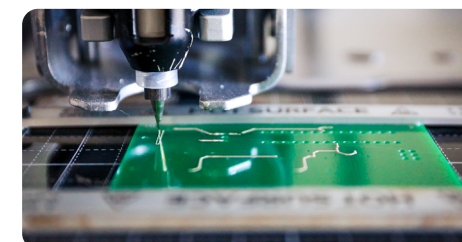
Operating systems	Windows 7, 8, 10, 11 (64bit), OSX 10.11+
Compatible file format	Gerber
Connection type	Wired USB 2.0



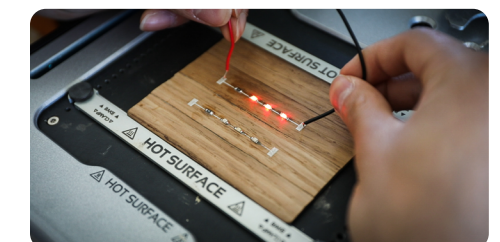
Design your circuit and export a Gerber file



Load your design into the V-One software



Drill, print, solder and reflow your board



Test your prototype, iterate and repeat.