

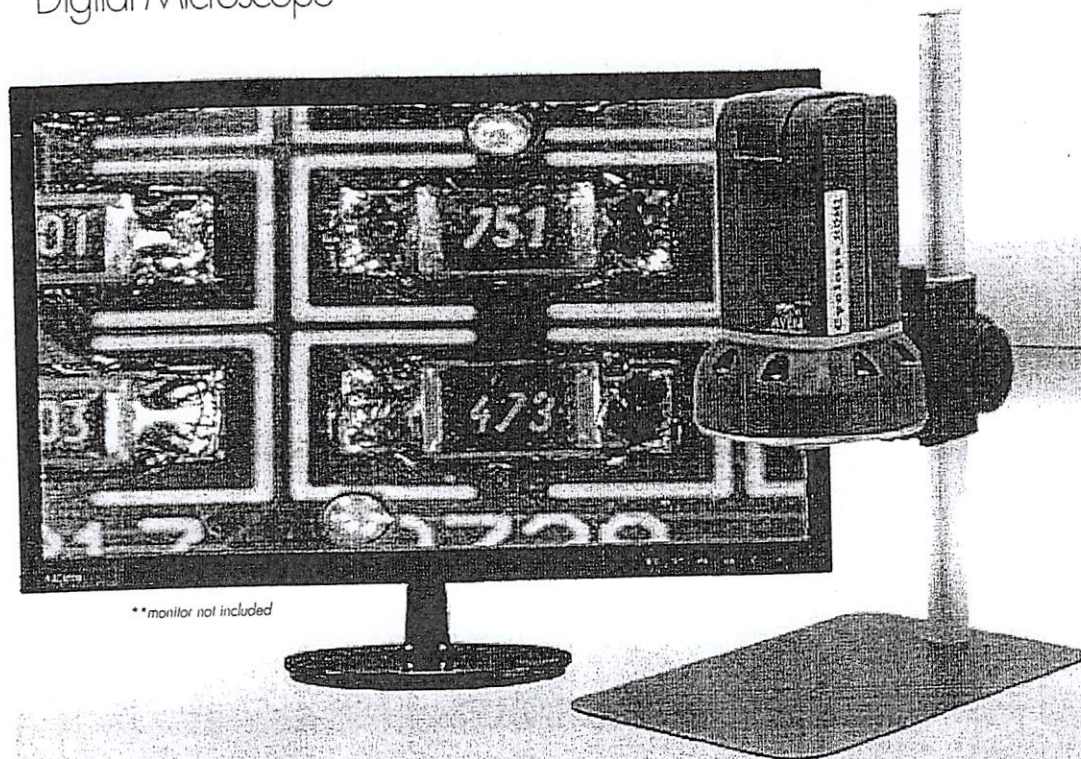
S.N o.	Description	Qty Reqd.
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1	<u>Part No: Cyclops USB+HDMI</u> Inspection Microscope Product # 26400-700 <u>Manufacturer: AVEN Tools</u> <i>at 2/2/21</i> URL: https://www.aventools.com	01
2	<u>Part No: SKU 200V-240V:1000330</u> Voltera V-One Dispensing System <u>Manufacturer: Voltera</u> <i>at 2/2/21</i> URL: https://voltera.myshopify.com	01

AVEN

Cyclops HDMI

Digital Microscope



**monitor not included

This innovative inspection scope connects directly to an HD monitor through a convenient 1080p HDMI output allowing operators to view high quality magnified images while looking straight ahead at a large screen, rather than hunching over narrow eyepieces. A large working distance and 30 LEDs that can be adjusted for intensity allow examination of objects of various sizes. Magnification ranges up to 132x on a 21.5" HD monitor.

This breakthrough instrument increases accuracy and productivity while easing eye strain and user fatigue from frequent microscope use, valuable benefits in high-volume applications.

Features

- 2-megapixel sensor
- HDMI output connects directly to an HD monitor
- future firmware updates
- 30 energy-efficient LED illumination with intensity control
- Up to 132x Magnification
- Infrared remote control for all major features

Cyclops HDMI Digital Microscope

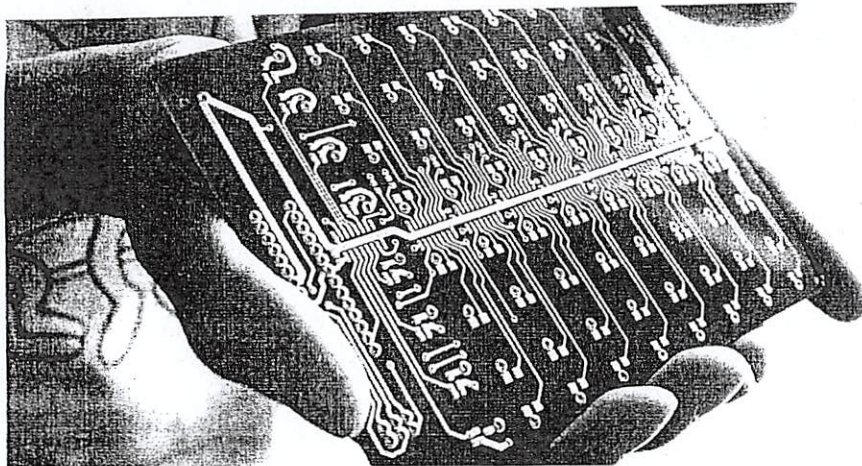
Effective Pixels	2M Pixels
Image Sensor	CMOS Color
Frames Per Second	30FPS
Magnification / Zoom	Up to 132x
LED Lighting	30 White LEDs with brightness & sector control
Video Output	1920x1080p HD
Gain Control	Automatic
Power Source	DC 5A/2A input Cable length: 180cm
Power Consumption	0.225A (MAX)
Dimensions	106 x 152 mm
Weight	0.70 lbs / 310g
Package Contents	Cyclops HDMI Digital Microscope Metal stand Power adapter HDMI cable IR remote White balance card

Part #	Description	Price
26700-401	Cyclops HDMI Digital Microscope	\$750.00

email: sales@aventools.com

aveninc.com

phone: 734-973-0099



The Voltera V-One Spec

DRILLING

Spindle Speed (Max.)

Power

Punch (TIP)

Spindle Thrust

Supplied Substrate Material

Substrate Thickness

Bit Length (Max.)

MATERIAL

13,000 RPM

10W 90W

0.075mm

1/8" Thrust

FR1

2mm

35.1mm

MATERIAL

13,000 RPM

12V 12.5W

0.003"

1/8"

FR1

0.0078"

1.5"

SOLDER COMPATIBILITY

Standard Ink

Flexible Ink

Copper PCB's

HASL PCB's

Sn42/Bi57.6/Ag0.4 Solder

✓

✓

✓

X

Sn33/PL0.7 Solder

X

X

✓

✓

SOFTWARE REQUIREMENTS

Operating Systems

Computer File Format

Connection Type

Windows 7, 8, 10 (64bit), OSX 10.11+

Gerber

Wired USB 2.0

PRINTING

Minimum Trace Width

Minimum Passive Size

Minimum Pin-to-Pin Pitch

Flexibility

Supplied Substrate Material

Maximum Board Thickness

100

0.2mm

0.2

0.35mm

12x0.50x0.04mm Height

FR4

1mm

100

8mil

0.40

20mil

12x0.50x0.04mm Height

FR4

1.2mm

SOLDERING

Minimum Passive Size

Minimum Pin-to-Pin Pitch

Solder Paste Alloy

Solder Wire Alloy

Soldering Iron Temperature

1005

0.2mm

Sn42/Bi57.6/Ag0.4

Sn33/PL0.7

130-200°C

0402

20mil

Sn42/Bi57.6/Ag0.4

Sn33/PL0.7

355-390°F

COFFIN AND FINISH LINE

Dimensions (L x W x H)

Weight

Print Area

Max Heated Bed Temperature

390mm x 255mm x 207mm

72g

125mm x 116mm

210°C

15.4" x 10.1" x 8.2"

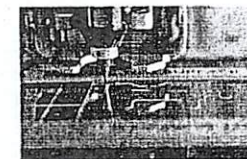
15.4lb

5" x 4.5"

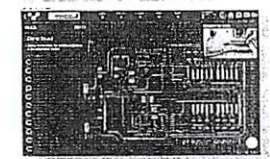
400°F



Design your circuit and export a Gerber file



Drill, prep, solder and reflow your board



Upload your design file to the Voltera V-One



Test your prototype, tweak and repeat

sales@voltera.io

VOLTERA

+1 888-381-3332

PRODUCT TECHNICAL SPECS

[Download PDF](#)

Printing

	Metric	Imperial
Minimum Trace Width	0.2mm	8mil
Minimum Passive Size	1005	0402
Minimum Pin-to-Pin Pitch	0.65mm	26mil
Resistivity	12mΩ/Sq @ 70um Height	12mΩ/Sq @ 3mil Height
Supplied Substrate Material	FR4	FR4
Maximum Board Thickness	3mm	0.125"

Drilling

	Metric	Imperial
Spindle Speed (Max)	13,000 RPM	
Power	12V, 25W	
Rundout (TIR)	0.076mm	0.003"
Shank Diameter	3.75mm	1/8"
Supplied Substrate Material	FR4	
Bit Diameter (Max)	2mm	0.078"
Bit Length (Max)	38mm	1.5"

1006

PRODUCT FEATURES

Lead Time: 1-2 weeks

The Voltera V-One brings quick turn PCBs to your desktop. Import your Gerber file into the Voltera software, press print, and the V-One will bring your board to life. Use the solder paste dispensing and reflow features to mount components onto your printed board, or mount components on a prefabricated board with ease.

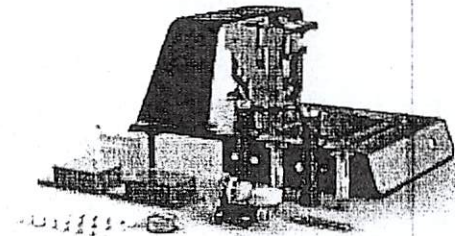
The V-One includes all the accessories and consumables you need to get started.

If you require a V-One without a Drill attachment or vice versa, please contact our sales team.

IN THE BOX

Consumables

- 1 Conductor 2 cartridge
- 1 Solder Paste cartridge
- 10 2"x3" FR4 substrates
- 6 3"x4" FR4 substrates
- 10 2"x3" FR1 substrates
- 6 3"x4" FR1 substrates
- 25 disposable 230 micron nozzles
- 1 burnishing pad
- 1 solder wire spool
- 1 drill bit set
- 200 0.4mm rivets
- 200 1.0mm rivets
- 2 rivet tools
- 1 sacrificial layer
- 1 Hello World starter kit
- 1 Punk Console starter kit



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