

ELECTRONIC TEST & MEASUREMENT

2024 SHORT FORM

Oscilloscopes
RF Test Equipment
Function Generators & Counters
EMC Pre-Compliance Testing
PC-Based & Data Acquisition
Multimeters
Power Supplies
Other Benchtop Instruments
Instrument & Process Calibrators
Harness & Cable Testers
HiPot & Production Testers
3D Printers & Additive Manufacturing
Multilayer PCB 3D Printers



Welcome

Dear Customer,

Welcome to Emona's 2024 Electronic Test & Measurement shortform.

The 2024 shortform matches the product categories in our www.emona.com.au website.

You can also refer to our website for:

- product specifications and detailed brochures
- product demonstration and training videos
- software and firmware updates under the SUPPORT tab
- calibration information and booking form under the CALIBRATION tab

Ordering

You can place orders on-line via our website at www.emona.com.au, or order via email, telephone or fax to your local Emona office. Payment by Mastercard, Visa and American Express is accepted. Account terms are available and subject to approval. Emona's Standard Terms & Conditions apply.

Technical Support

Emona's technical support and sales staff are ready to help you with your measurement needs and solutions. Our sales engineers are technically trained to support our wide range of instruments and equipment. For more information contact your Emona office or call toll free 1 800 632 953.

About Emona

Established in 1979, Emona Instruments has grown to become a leading supplier of electrical and electronic test and measuring instruments. With offices around Australia, AS/NZS ISO 9001-2008 Quality Management Requirements accreditation, NATA traceable calibration facilities and technically qualified sales staff, you can rely on Emona for your instrumentation requirements.

SECTION	PRODUCT GROUP	PAGE
i	Product Index	i
1	Oscilloscopes	1
2	RF Test Equipment	2
3	Function Generators & Counters	3
4	EMC Pre-Compliance Testing	4
5	PC-Based & Data Acquisition	5
6	Other Benchtop Instruments	6
7	Instrument & Process Calibrators	7
8	Multimeters	8
9	Power Supplies	9
10	Harness & Cable Testers	10
11	HiPot & Production Testers	11
12	3D Printers	12
13	Multilayer PCB 3D Printer	13



Product Demonstration & Training Videos

Look for the VIDEO icon for products that have demonstration and training videos available. Just go to www.emona.com.au, click the VIDEOS tab at the top of the page and browse our selection of videos.

Oscilloscopes



Rigol DS70000 5GHz Oscilloscope

We offer a wide range of over 120 oscilloscopes to suit every budget and application, covering handheld, benchtop and PC-based models.

Our Rigol benchtop range covers from Australia's most popular DS1000E series with thousands of units in use in education, industry and hobbyists, through to the high technology DS70000 series offering up to 20GS/s and 5GHz bandwidth.

All our oscilloscopes are backed up by Emona's calibration and repair facility in Camperdown NSW. Contact us for an on-site demonstration by one of our qualified application sales engineers located around Australia.

Tablet Oscilloscopes

	BRAND	RANGE	FUNCTION	FREQUENCY	CHANNELS
	MICSIG	TO-Series	Tablet	70MHz, 100MHz & 500MHz	2/4

Benchtop & Rackmount Oscilloscopes

	BRAND	RANGE	FUNCTION	FREQUENCY	CHANNELS
	RIGOL	DS1000E/Z	Digital Storage, Mixed Signal & Sig Gen	50MHz to 200MHz	2/4 16 Digital
		DS2000/A	Digital Storage, Mixed Signal & Sig Gen	100MHz, 200MHz & 300MHz	2 16 Digital
		MSO5000	Digital Storage, Mixed Signal & Sig Gen	70MHz, 100MHz, 200MHz, & 350MHz	2/4 16 Digital
		DHO Series	Digital Storage, High Resolution 12 Bit	70MHz to 800MHz	2/4
		MSO8000/7000	Digital Storage, Mixed Signal & Sig Gen	100MHz, 200MHz, 350MHz, 600MHz, 1GHz & 2GHz	4
		DS70000	Digital Storage Mixed Signal & Sig Gen	3GHz & 5GHz	4
		DS8000-R	Rack Mount Digital Storage	1GHz & 2GHz	4

Oscilloscope Probes

	BRAND	RANGE	TYPE	FREQUENCY
	GW INSTEK	GDP Series	High Voltage Differential	25MHz, 50MHz, 100MHz
	RIGOL	PVA Series	Active Probes	2.5GHz, 3.5GHz & 7GHz
	AIM TTI	iProber 520	Non-Invasive Current Probe	5MHz

RF Test Equipment



Rigol RSA5000 Real-Time Spectrum Analysers

We offer a range of affordably priced RF test equipment that proves that you don't need to spend a lot of money on the big brands to get performance that will meet your testing requirements.

With a combination of Rigol, Aim-TTi, Tekbox, Pico and GSI products, we can provide you with a range of handheld, benchtop and PC-based solutions.

Spectrum Analysers

	BRAND	RANGE	TYPE	FREQUENCY
	RIGOL	DSA-Series	Benchtop	500MHz to 7.5GHz
	AIM-TTI	PSA Series	Handheld	1.3GHz, 2.7GHz, 3.6GHz & 6.0GHz

RF Signal Generators

	BRAND	RANGE	FREQUENCY	MODULATION
	RIGOL	DSG Series	1.5GHz to 20GHz, 8 CH Max	AM/FM/Phase/Pulse/IQ
	AIM-TTI	TGR Series	1GHz, 2GHz & 6GHz	AM/FM/Phase

Vector Network Analysers

	BRAND	RANGE	TYPE	FREQUENCY
	PICO	VNA-106/108	PC-Based	6GHz/8.5GHz
	RIGOL	RSA N Series	Benchtop	1.5GHz to 6.5GHz

Real-Time Spectrum Analysers

	BRAND	RANGE	TYPE	FREQUENCY
	RIGOL	RSA Series	Benchtop	1.5GHz, 3GHz, 4.5GHz & 6.5GHz

EMC Pre-Compliance Test

	BRAND	RANGE	FUNCTION
	TEKBOX	TB Series	EMC Near Field Probes, LISN, TEM Cell & Shielded Tents

Function Generators & Counters



Rigol DG5000 Series 350MHz, 1GS/s Arbitrary Generator

Our range of generators and counters offers a wide number of options in pricing and specifications from Rigol, Aim-TTi and GW Instek.

From a basic 3MHz or 5MHz function generator for an educational laboratory, through to multi-channel arbitrary generators for research applications, Emona has the unit for your application and budget.

Arbitrary/Function Generators

	BRAND	RANGE	FREQUENCY	CHANNELS	MEMORY	SAMPLING
	RIGOL	DG-1022	20MHz	2	4Kpts	100MS/s
		DG-1000Z	25MHz, 30MHz & 60MHz	2	16Mpts	200MS/s
		DG-4000	60MHz, 100MHz & 160MHz	2	16Kpts	500MS/s
		DG-5000	70MHz, 100MHz, 250MHz & 350MHz	1/2	120Mpts	1GS/s
		DG-800/900/PRO	10MHz to 200MHz	1/2	2Mpts to 32Mpts	Up To 1.25GS/s

Function Generators

	BRAND	RANGE	FREQUENCY	TYPE
	GW INSTRUK	GFG Series	2MHz to 15MHz	ANALOG
		SFG Series	3MHz	DDS
	AIM-TTI	TGP Series	3MHz to 160MHz	ANALOG & DDS

Pulse Generators

	BRAND	RANGE	FREQUENCY	TYPE
	AIM-TTI	TGP110	10MHz	ANALOG
		TG Series	25MHz & 50MHz	DDS

Frequency Counters

	BRAND	RANGE	FREQUENCY	TYPE
	AIM-TTI	PFM3000	3GHz	HANDHELD
		TF Series	3GHz & 6GHz	BENCHTOP

EMC Pre-Compliance Testing




Rigol NFP-3-P1 Near Field Probe


We offer a wide range of EMC pre-compliance test solutions that will allow you to quickly and easily review your designs and make changes as required.

Solutions can easily be integrated with Rigol's spectrum analysers, probes and software solutions through to TekBox accessories that are affordably priced and easy to use for any design engineer or technician. Emona also has many years of experience in EMC test so we can help you at each step of the process. .


Spectrum Analysers

	BRAND	RANGE	TYPE	FREQUENCY
	RIGOL	DSA-Series	Benchtop	500MHz to 7.5GHz
		RSA Series	Benchtop	3.2GHz & 6.5GHz


Near Field Probes

	BRAND	RANGE	FUNCTION
	RIGOL	NFP-3	Set of 4 Near Field Probes
	TEKBOX	TBPS01	Set of 4 Near Field Probes


LISN

	BRAND	RANGE	TYPE	FUNCTION
	TEKBOX	TB0H01	DC	CISPER25
		TBOLC08	AC	CISPER16

Antennas

	BRAND	TYPE	FREQUENCY
	TEKBOX	Biconical, Double Ridged Horn & Log Periodic	From 30MHz up to 8GHz

TEM Cells & Shielded Tents

	BRAND	RANGE	TYPE	SIZE
	TEKBOX	TBTC Series	TEM Cells	Up to 1038 x 501 x 305mm
		TBST Series	Shielded Tents	120 x 60 x 60 cm

PC-Based & Data Acquisition



PicoScope 4824A 8 Channel High Resolution PC Based Oscilloscope


Our range of data acquisition products are supported by Pico Technology and Rigol.

The Rigol DS8000-R series supports up to 512 synchronous acquisition channels, at up to 10GS/s and 2GHz bandwidth.


The PicoScope range of PC-based oscilloscopes offer up to 16bits resolution and up to 25GHz bandwidth.

Pico data loggers require no power supply and simply plug into a USB port on your PC, or an Ethernet port on your PC or network. Every logger is supplied with PicoLog data acquisition software so you can measure, record and analyze your data.


High Speed Digitisers - Standalone & PC-Based

	BRAND	RANGE	FUNCTION
	RIGOL	DS8000-R	<ul style="list-style-type: none"> • Up to 512 synchronous channels • Up to 2GHz bandwidth • Up to 10GS/s sampling & 500Mpts memory • Built for rack mount, high density applications
	PICO TECHNOLOGY	PicoScope	<ul style="list-style-type: none"> • PC-based digital and mixed signal oscilloscopes • 8bits, 12bits and 16bits resolution • Deep memory up to 512Mpts • Differential input models available


Multi-Input - Standalone

	BRAND	RANGE	FUNCTION
	RIGOL	M300	<ul style="list-style-type: none"> • Up to 320 switch channels per mainframe • Integrated DMM scanning of up to 256 channels at up to 250 channels/sec • Interval scanning with storage of up to 100,000 time-stamped readings • 10 different available modules • Connect via USB, GPIB, LAN (LXI-C), or RS-232

Voltage Input - PC Based

	BRAND	RANGE	CHANNELS	RESOLUTION	INTERFACE
	PICO TECHNOLOGY	ADC Series	8 & 16	20Bit & 24 Bit	USB
		PicoLog Series	12 & 16	10 Bit & 12 Bit	USB

Temperature Input - PC Based

	BRAND	RANGE	CHANNELS	FUNCTION	INTERFACE
	PICO TECHNOLOGY	TC-08	From 8 up to 80	Thermocouples	USB
		PT-104	From 4 up to 80	PT-100 & PT1000	USB/Ethernet

Multimeters




Rigol DM-3054 Digital Multimeter

We offer a range of benchtop and handheld multimeters to suit education, industrial and calibration applications.


The Rigol DM-3000 series have grown in popularity in educational institutions as a practical and cost effective laboratory instrument.

Metrel's range of DMMs cover from general meters through to CAT IV/1000V applications requiring safety and reliability.

Benchtop Multimeters

	BRAND	RANGE	RESOLUTION	FUNCTIONS
	TIME	5075	7.5 Digits	AC/DC V, AC/DC A, Resistance, Capacitance, Frequency, Temperature
	RIGOL	DM Series	6.5 & 5.5 Digits	AC/DC V, AC/DC A, Resistance, Capacitance, Frequency, Temperature, Diode, Continuity
	GW INSTEK	GDM-8000 Series	6.5, 5.5, 4.75, 4.5 & 3.5 Digits	TRMS AC/DC V, AC/DC A, Resistance, Capacitance, Frequency, Diode, Continuity
	AIM TTI	1000 Series	4.25 & 4.75 Digits	AC/DC V, AC/DC A, Resistance Capacitance & Frequency,

Handheld Multimeters

	BRAND	RANGE	CAT RATING	FUNCTIONS
	METREL	MD-9060	CAT IV/1000V	TRMS AC & AC+DC V & A, Resistance, Conductance, Frequency, Capacitance, Temp
		MD-9050	CAT IV/1000V	TRMS AC & AC+DC V & A, Resistance, Conductance, Frequency, Capacitance, Temp
		MD-9040	CAT IV/1000V	TRMS AC V & A, DC V & A Resistance, Conductance, Frequency, Capacitance
		MD-9030	CAT IV/300V	TRMS AC V & A, DC V & A, Resistance, Conductance, Frequency, Capacitance
		MD-9020	CAT IV/300V	AC/DC V, AC/DC A, Resistance, Frequency, Capacitance
		MD-1150	CAT IV/1000V	Voltage, Continuity Tester, with Phase Sequence, RCD Test & Diode

Power Supplies




Kikusui PCR-LE AC Output Power Supplies

We offer the broadest range of DC power supplies available in Australia.


Established in 1951, Kikusui DC and AC power supplies are built to high standards guaranteeing high quality and high reliability.

Magna-Power, founded in 1981, are specialist US made power supplies offering a market leading range from 1.25kW through to 2,000kW+ and can be found in applications including simulating solar arrays, powering radar systems and particle accelerators.


DC Output - General Purpose

	BRAND	RANGE	OUTPUTS	VOLTAGE RANGE	CURRENT RANGE
	RIGOL	DP-800/900 Series	Single to Triple	0 - 110V	0-30A
	GW INSTRK	GPS/GPC/GPR Series	Single to Quad		
	AIM-TTI	EL/PL/TSX Series	Single to Quad		


DC Output - Professional Series

	BRAND	RANGE	TYPE	VOLTAGE RANGE	CURRENT RANGE
	KIKUSUI	PAS Series	Single	0 - 500V	0 - 6A
		PWR Series	Single	0 - 650V	0 - 160A

DC Output - High Power

	BRAND	RANGE	POWER	VOLTAGE RANGE	CURRENT RANGE
	MAGNA-POWER	SL & XR Series	1.5kW to 10kW	0 - 10,000V	0 - 600A
		TS Series	5kW to 45kW	0 - 4,000V	0 - 2,700A
		MS Series	30kW to 75kW	0 - 4,000V	0 - 4,500A
		MT Series	100kW to 2000kW+	0 - 4,000V	0 - 24,000A

AC Output

	BRAND	RANGE	TYPE	kVA	FREQUENCY
	KIKUSUI	PCR-M Series	Single Phase	500VA - 4kVA	50 - 400Hz
		PCR-LE Series	Single/Three Phase	500VA - 81kVA	50 - 999.9Hz

Other Benchtop Instruments




Kikusui PLZ Series DC Electronic Loads


We offer a wide range of benchtop test instruments for all your testing and R & D applications.

For example, Kikusui’s PLZ-4W series electronic loads have been designed to offer the highest levels of reliability and safety. The units operate in constant voltage, constant current, constant power and constant resistance modes. Control is via GPIB, RS232C and USB..


DC Loads

	BRAND	RANGE	POWER RATING	MAX V & A
	RIGOL	DL Series	200W - 300W	150V/60A
	KIKUSUI	PLZ Series	75W - 9KW	650V/18000A


LCR Meters

	BRAND	RANGE	TYPE	TEST FREQUENCY
	LUTRON	LCR-9183	Handheld	100Hz - 100kHz
	GW INSTEK	LCR-6000 Series	Benchtop	2kHz - 300kHz
		LCR-8100 Series	Benchtop	20Hz - 1MHz

Micro-Ohm Meters

	BRAND	RANGE	FUNCTION
	AIM TTI	BS-407	1999μohm - 19.99kohm
	GW INSTEK	GOM-802	30mohm - 3Mohm

Waveform Amplifier

	BRAND	MODEL	FUNCTION
	AIM TTI	WA-301	<ul style="list-style-type: none"> • Extends output range of function generators • 30 Volts peak to peak output swing • DC to 1MHz bandwidth

Instrument & Process Calibrators



Time Electronics 5025 Multi-Function Calibrator

Our range of professional instrument calibrators is supplied by Time Electronics.

Established in 1967, Time Electronics Ltd designs and manufactures calibration and metrology instrumentation.

Products include multifunction calibrators, decade boxes, DMMs, and custom-made test benches. Time also manufactures electrical test calibrators for RCD, loop, insulation, earth testers and multifunction installation testers.

	BRAND	MODEL	FUNCTION
	TIME ELECTRONICS	5045 & 5025 Series	<ul style="list-style-type: none">• Calibrate oscilloscopes, timer/counters, frequency meters and DMMs up to 6.5 digits• 11 standard functions• 0 - 1050V and 0 - 22A (AC/DC)• Resistance and capacitance• Thermocouple/PT100 simulation• Power options• Automation & Reporting with EasyCal Software

Electrical Test Equipment Calibrator

	BRAND	MODEL	FUNCTION
	TIME ELECTRONICS	5030	<ul style="list-style-type: none">• RCD 3 - 2500mA, 10 - 2000ms• Loop 50mΩ to 1.8kΩ• Insulation up to 2GΩ / 1kV• Continuity 0.1Ω to 10kΩ• Automation & Reporting with EasyCal Software

Portable Voltage, Current, Temperature & Process Calibrators

	BRAND	MODEL	FUNCTION
	TIME ELECTRONICS	1000 & 7000 Series	<ul style="list-style-type: none">• RTD/PT100 calibrators and simulators• Loop instruments for testing transmitters, transducers and sensors• Voltage and current simulators and sources

Decade Boxes

	BRAND	MODEL	FUNCTION
	TIME ELECTRONICS	1000 Series	<ul style="list-style-type: none">• Capacitance• Inductance• Resistance

Harness & Cable Testers



Cami Research CableEye M3U 512 Test Points

Our range of cable testers and harness testers from CAMI Research allow you to instantly find defective or miswired cables before they damage equipment or waste valuable technician time.

CableEye cable testers and harness testers have a unique, patented graphic wiring display to visually pinpoint problems when wiring errors are detected, and offer one-second pass/fail testing for production environments. Quickly locate intermittent connections and identify their position in the cable. .

Low Voltage Cable & Harness Testers

	BRAND	MODEL	FUNCTION
	CAMI RESEARCH	CableEye M2U/M3U/M3Z/M4	<ul style="list-style-type: none">• CableEye series check for opens, shorts, miswires, intermittent connections, continuity checks, as well as checks for contact and isolation resistance using two settable resistance thresholds, measures embedded resistors and diodes.• Check discrete capacitors, identify twisted pair and distance to fault.

High Voltage Cable & Harness Testers

	BRAND	MODEL	FUNCTION
	CAMI RESEARCH	CableEye HVX	<ul style="list-style-type: none">• Combines the M3U tester with a high voltage module to provide insulation resistance and dielectric breakdown testing• Testing at up to 1500V DC and 1000V AC• Adjustable in 1V increments from 10V to the maximum voltage permitted• Programmable Ramp Up, Ramp Down, Dwell Time, Trip Current, and Trip Delay

CableEye Custom Interfaces

	BRAND	MODEL	FUNCTION
	CAMI RESEARCH	Custom Interfaces	<ul style="list-style-type: none">• CableEye Systems also allow users to mount special connectors and pigtails on blank boards to build custom interfaces or CAMI can build custom interfaces as per user requirements• Central to CAMI's custom solutions is the PinMap™ software. PinMAP allows you to link any custom test fixtures or adapter cables to CableEye's connector library and database

HiPot & Production Testers





GW Instek GPT-9084 5kV AC/DC Tester with 30A Earth Bond


GW's GPT-9800 series offer high performance safety testing at an affordable price. Units are equipped with a simple and clear panel layout, a high resolution dot matrix LCD display, and color LED indicators, allowing operators to interpret measurement results easily and quickly

The Clare HAL series provides a solution for any production line testing requirement from low volume manual testing through to high volume automated test programmes.


Manual/PC Interface Models

	BRAND	RANGE	OUTPUT VOLTAGE	VA	FUNCTIONS
	GW INSTEK	GPT-9900	5kV	500VA	AC/DC, IR & Ground Bond
		GPT-9800	5kV	200VA	AC/DC, IR & Ground Bond
		GPT-9600	5kV	100VA	AC/DC, IR
	KIKUSUI	TOS-5101	10kV	500VA	AC/DC

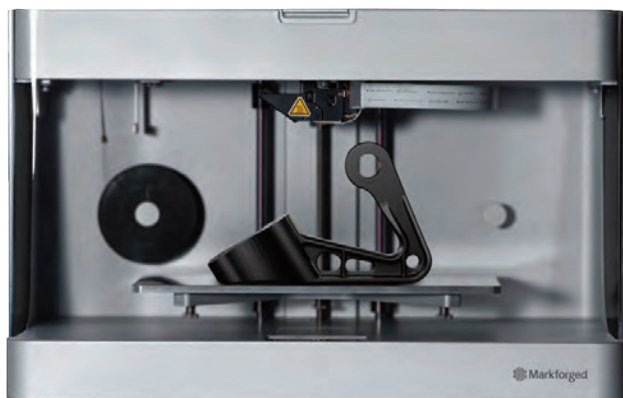
Automated/Programmable Models

	BRAND	RANGE	OUTPUT VOLTAGE	FUNCTIONS
	CLARE	HAL-101	5kV	AC/DC, Insulation Resistance
		HAL-102	5kV	AC/DC, Insulation Resistance & Internal Scanner
		HAL-103	5kV	AC/DC, Insulation Resistance & Ground Bond
		HAL-104	5kV	AC/DC, Insulation Resistance, Ground Bond & Leakage Current

Leakage Current Tester

	BRAND	RANGE	FUNCTION
	GW INSTEK	GLC-9000	<ul style="list-style-type: none">• 8 leakage current settings for medical & general electrical equipment• Leakage current measuring modes DC/AC/AC+DC/AC Peak

3D Printers




Markforged Mark II

Our range of 3D printers and additive manufacturing solutions offer a range of printing technologies and printing materials.


Printing technologies cover Continuous Filament Fabrication, Fused Filament Fabrication, Atomic Diffusion Additive Manufacturing, SLA, LENS and Aerosol Jet.

From thermoplastics and SLS nylons, through to high strength carbon fibre composite parts and metal printing, Emona's 3D printing range offers solutions for anything from education and university maker labs, through to materials research and manufacturing environments.


High Strength Composite Materials

	BRAND	RANGE	LAYER RESOLUTION	MATERIALS	BUILD SIZE
	MARKFORGED	DESKTOP Series	100 microns	Continuous Fibres, Carbon Fiber, Kevlar, Fiberglass, Onyx, Nylon	320 x 132 x 154 mm
		X7	50 microns	Continuous Fibres, Carbon Fiber, Onyx FR, Onyx ESD	330 x 250 x 200 mm
		FX10	125 microns	Onyx, Carbon Fiber	375 x 300 x 300 mm
		FX20	50 microns	Onyx, Carbon Fiber, ULTEM™, Vega™, Onyx FR	525 x 400 x 400 mm


Stereolithography (SLA)

	BRAND	RANGE	LAYER RESOLUTION	MATERIALS	BUILD SIZE
	FORMLABS	FORM 3/FORM 3L	25 microns	Engineering Resins	Up to 300 x 335 x 200 mm


Selective Laser Sintering (SLS)

	BRAND	RANGE	LAYER RESOLUTION	MATERIALS	BUILD SIZE
	FORMLABS	FUSE 1+	110 microns	PA12, PA12GF, PA11, PA11CF TPU, PP	165 x 165 x 300 mm

Metal 3D Printing

	BRAND	RANGE	LAYER RESOLUTION	MATERIALS	BUILD SIZE
	MARKFORGED	METAL X	50 microns	17-4/303 Stainless Steel, A-2/D-2 Tool Steel, 6061/7075	250 x 220 x 200 mm
		PX100	1 micron	17-4PH, 316L, 14140, H13, D2, Copper, TiA14V, Alloys 247/625	250 x 217 x 186 mm

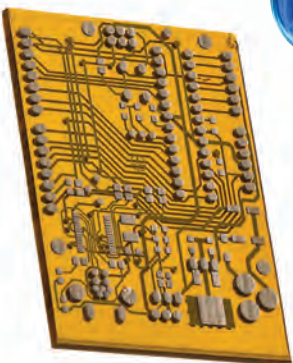
Optomec LENS and Aerosol Jet

	BRAND	RANGE	RESOLUTION	MATERIALS
	OPTOMECH	LENS	250 microns	Titanium, Nickel, Tool Steel, Stainless Steel, Aluminium, Cobalt, Carbide, Ceramics, Copper
		AEROSOL JET	10 microns	Metal Inks, Resistor Inks, Non-Metallic Conductors, Dielectrics & Adhesive, Semiconductors, Biologics

Multilayer PCB 3D Printers

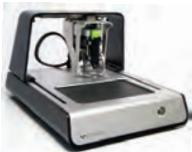



Nano Dimension DragonFly IV Multilayer PCB 3D printer



The DragonFly IV system brings together an extremely precise inkjet deposition printer, high performance silver nanoparticle conductive and dielectric inks as well as dedicated software, in order to bring the benefits of 3D printing to electronics professionals.

PCB 3D Printers

	BRAND	MODEL	FUNCTION
	VOLTERA	V-One	<ul style="list-style-type: none">• Print double sided circuit boards on your desktop• Print conductive ink to create electrical traces• Substrates: FR4, glass, ceramics, Kapton or silicone• Quickly drill holes for vias and through hole components• Dispense solder paste on any circuit board• Place your components and watch them reflow• Maximum PCB size 135mm x 113.5mm• File compatibility Gerber files
	NANO DIMENSION	DragonFly IV	<ul style="list-style-type: none">• Simultaneous 3D printing of conductive silver nanoparticle ink (metals) and insulating inks (dielectric polymers).• Full range of PCB features can be 100% printed - including interconnections such as vias and through-holes - with no post processing required• Build Volume: 160 x 160 x 3mm• All major ECAD and MCAD Software, ODB++, Gerber & Excellon, STLs• Enables companies to bring designs to the market more quickly, while keeping sensitive design information in-house

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