

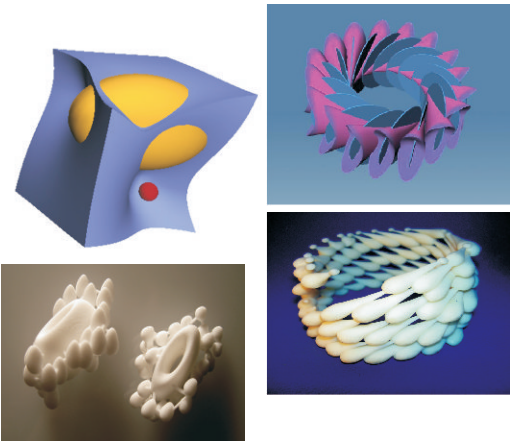
A1 TECHNOLOGIES

INCREDIBLY LOW COST 3D TECHNOLOGIES FOR DESIGNING AND PRODUCING 3D MODELS

A1 Technologies offers schools and colleges cutting edge products and solutions in the fields of 3D modelling and printing, at incredibly low prices. Ideal for teaching and learning.

CHAMELEON 3D CREATIVE PACKAGE FROM £350

for designing creative 3D models

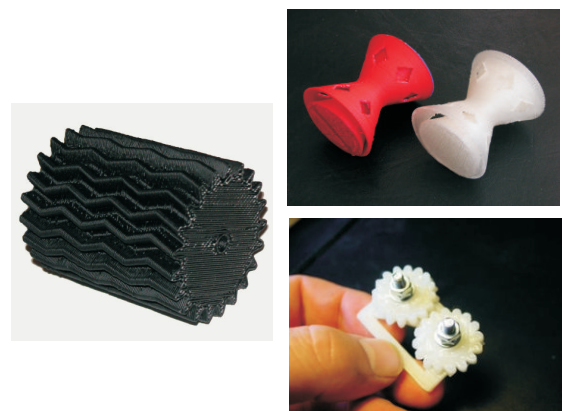


DAVID 3D LASERSCANNER FROM £320

for creating virtual 3D models from real objects

RAPMAN 3D PRINTER FROM £750

for printing 3D CAD designs as well as the outputs
from Chameleon and David

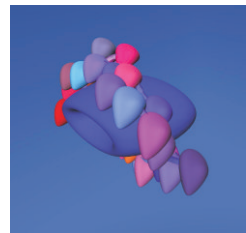
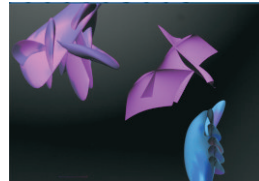
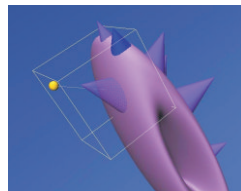
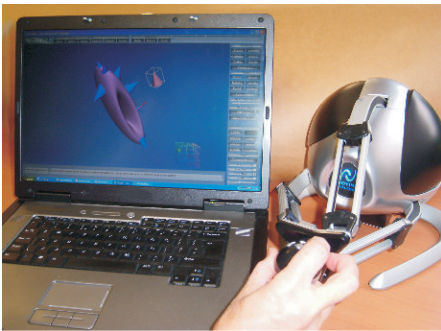


Enable your pupils to learn more and to get better exam results! For a total package price of only £1,360, you can enable pupils to explore different aspects of product design.

Ideal for Design & Technology, Art & Design and Product Design. They are equally important for the new Diplomas - subjects include Engineering, Manufacturing & Design, Construction & the Built Environment and Creative & Media.

CHAMELEON 3D CREATIVE SOLUTION

The easy way to design creative 3D models on a PC without having to learn or use 3D CAD



Chameleon hardware and software package only £350

Chameleon is a cutting edge 'haptic' technology which delivers a high quality, immersive 3D experience to its users. Our combination of affordability and cutting edge integration enhances and facilitates greater efficiency when working, creating, training or simply just playing in virtual 3D.

CHAMELEON'S WOW FACTORS:

- ▲ use our 3D mouse to 'touch' and feel the 3 dimensional qualities of a virtual object
- ▲ movement in all directions to manipulate and construct objects within a 3D space
- ▲ sense of touching and moving freely, tapping into your natural way of doing things
- ▲ feel where you are, whether inside or outside objects
- ▲ so easy to create organic shapes
- ▲ change the hardness/softness of virtual objects for different effects
- ▲ straightforward interface for a more intuitive way to sketch and model

Why our products are so intuitive, fast, easy and fun to learn and use is that they enable the sense of touch. When combined with other senses, especially sight, touch dramatically increases the amount of information sent to the brain for processing. The increase in information aids learning, reduces error, as well as time taken to complete a task.



in collaboration
AnarKik3D

Design a creative 3D model with Chameleon - then print it on A1's RapMan 3D printer

DAVID 3D LASERSCANNER

The David 3D LaserScanner is the easy way to create virtual 3D models by scanning real physical objects and converting them into 3D CAD files. Ideal for teaching and learning.



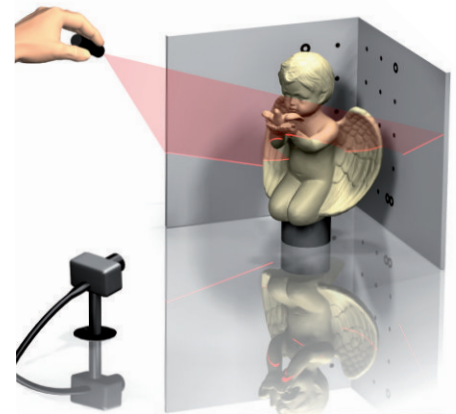
David hardware and software package only £320

Experience the innovative David LaserScanner 3D scanning system! It contains everything you need to set up your own 3D scanner. Just sweep the laser line over the object you wish to scan: a sculpture, a face, anything at all. DAVID LaserScanner will immediately generate a 3D model on your PC, capturing even fine surface details of less than 0.2mm. Simply scan all sides of the object separately, including top and bottom. The software will automatically align and fuse all scans to create a textured all-round model!

DAVID'S WOW FACTORS:

- ▲ Store your scans in various standard 3D file formats
- ▲ Use them for computer animations, games, virtual 3D environments, product presentations, works of art, archaeology ... The limits are set by your imagination!
- ▲ Just take the lightweight laser module and sweep the laser line over the object like a paintbrush
- ▲ The David LaserScanner Starter-Kit contains everything you need to get amazing 3D scan results with coloured textures
- ▲ Scan post-processing made easy: clean, align and merge your textured scans to water-tight CAD files

Laser scanning is a key industrial technology for reverse engineering (you have a physical object which you want to replicate, but for which no CAD file exists). It is equally used as a starting point for computer animations, for creating objects / persona for games, for storing digital copies of real objects (eg for archaeological items). It is an excellent (and with the David, a low cost) method to allow you to teach 3D modelling and to enable pupils to access this technology.

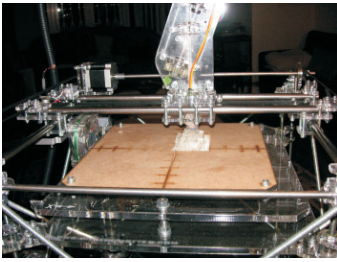


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DAVID
LASERSCANNER

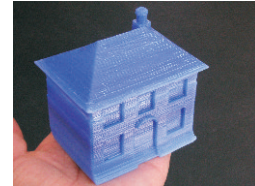
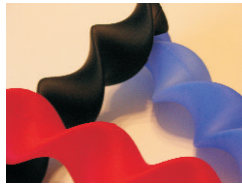
Produce a 3D CAD file from a scan and then print it on A1's RapMan 3D printer.

THE RAPMAN™ 3D PRINTER

The RapMan™ is the easy and low cost way to create physical 3D models which have been designed with 3D CAD (eg pro/Desktop, Autodesk, Solidworks), or with A1's Chameleon or David products. Ideal for teaching and learning.



RapMan hardware and software package only £750



The future of design, engineering and manufacturing is dramatically changing due to the growth of 3D printing. This technology is already widespread and its use is growing very rapidly. The RapMan™ not only enables the teaching of 3D Printing, but also is supplied in kit form, so building the RapMan™ contributes towards the teaching and learning of engineering principles.

RAPMAN'S WOW FACTORS:

- ▲ Makes the teaching of design and technology and related subjects affordable
- ▲ Quality 3D models help pupils achieve better exam results
- ▲ The low cost of printing allows pupils to iterate designs, as in the real world
- ▲ Low cost to buy, low cost to run, zero cost to maintain
- ▲ System designed to be assembled by students, who can then print their designs
- ▲ It can be taken apart and reassembled to teach assembly skills (e.g. Manufacturing Diploma)
- ▲ A variety of low cost materials, PLA, uPVC, HDPE, LDPE, polypropylene and ABS (in white, black, red, blue, red and yellow) can be used to print parts
- ▲ Students can see all the mechanisms and fully understand their workings
- ▲ Suitable for teaching across key stages 3, 4 and 5.
- ▲ Teaching materials and support available, including teachers' forum



The RapMan is by far the lowest cost way to produce 3D models. Widely used in education and in industry, it is less than a 1/10th of the price of any comparable machine. It enhances teaching and learning, and enables pupils to produce quality models, while learning about the future of design and making.

A1 Technologies Ltd

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