



CAMBRIDGE RESEARCH SYSTEMS

Tools for vision science

Our People

Professor John Robson FRS

Non-executive Director

John is an eminent vision scientist. His many contributions include psychophysical measurement of the human contrast sensitivity function, neurophysiological investigations into spatial frequency selectivity, and pioneering analytical methods that provide seminal insights into the nature of visual processing.

The importance of John's work has been recognised by the Friedenwald award of the Association for Research in Vision and Ophthalmology, and the Tillyer award of the Optical Society of America. John was elected a Fellow of the Royal Society in 2003.



CAMBRIDGE RESEARCH SYSTEMS

Cambridge Research Systems has established a reputation founded on values of scientific rigour and integrity. By combining engineering expertise with innovation and cutting edge technology, we aspire to design and develop tools that allow the advancement of vision science throughout the world.

Our products are market leaders, our people, committed and knowledgeable. Our ambition is to continue setting standards in the vision science community of which we are proud to be a part.



Our People

Tom Robson MA
Managing Director

Tom is an imaginative engineer with a deep understanding of the technical challenges facing vision science.

Tom is the head of our product development team, with a mission to employ emerging technologies to invent new and original tools to advance our customers' research.



Engineering expertise, innovation and technology

Cambridge Research Systems was originally formed in 1986 as a partnership between John Robson, a distinguished vision scientist at Cambridge University, and his son, Tom Robson, an engineer who also graduated from Cambridge.

Their idea was to improve the way that stimuli were created for vision science experiments, by using emerging personal computer technology to produce dynamic images on cathode ray tube displays.

This simple concept evolved rapidly into a standard laboratory technique, and Tom discusses technical issues in his contribution to *Vision Research A Practical Guide to Laboratory Methods* (Carpenter & Robson,OUP).

From these roots, Cambridge Research Systems has grown into a worldwide business; however Tom remains, first and foremost, an engineer. He is keenly interested in cutting edge technologies, and has built a world class team of product development engineers, which he leads with an inventive, solution-oriented approach.

Our People

Carol Luscombe BSc

Finance Director

Carol is the head of our financial and administrative teams.

Carol maintains a corporate culture and flexible organisational framework designed to meet best business practice and foster fast-paced scientific and technical innovation.



An established reputation for rigour and integrity

Cambridge Research Systems' first products were called Visual Stimulus Generators, or VSGs, and they proved an immediate success with vision scientists.

Researchers from across the world began using our equipment, impressed by the standards of our production and by our expert understanding of their interests and ambitions.

As demand for our products grew, so the company expanded, and in 1989, Cambridge Research Systems was formally incorporated, and moved into the workshops and office premises in Rochester, Kent that we occupy today. We are still growing, and employing additional staff to ensure that our customers experience levels of efficiency and customer service

which match the high quality of our vision science tools.

Cambridge Research Systems continues to produce Visual Stimulus Generators, incorporating advances in technology to improve performance with each new version. VSGs have now been used in thousands of experimental systems all over the world, and are standard laboratory equipment for vision science.

Alongside this ongoing innovation we have developed an expanding portfolio of complementary equipment, outlined in the following pages.

The advancement of vision science

Visual Stimulus Generators

Based on our unparalleled experience in visual stimulus generation, we offer customised, integrated systems for a wide range of vision science applications:

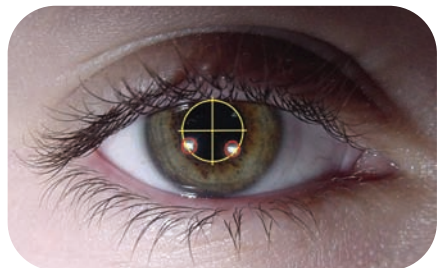
- **ViSaGe Visual Stimulus Generator and CRS MATLAB Toolbox:**
Our top-of-the-range solution based on many years of experience and development.
- **BITS++ 14 bits from your existing Mac or PC:** In consultation with Prof. Denis Pelli, Department of Psychology, NYU, USA, and compatible with PsychToolbox and PsychoPy.
- **Plus displays, calibration, subject response, headrests, stereo, and more...**



Eyetrackers

We offer a selection of the best eyetracking technologies, including:

- **High Speed Video Eyetracker Toolbox :** State-of-the-art eyetracker based on Peter West's extensive practical experience.



- **Skalar IRIS oculomotor research:** Cambridge Research Systems acquired exclusive rights to the IRIS in 2004.
- **GazeTracker presentation, analysis, visualisation:** Developed by Eye Response Technologies.



Our People

Peter West BSc
Science Director

Peter is a vision scientist, specialising in electrophysiological and eye movement techniques for paediatric diagnosis, and with wide ranging interests in applied visual neuroscience.

Peter oversees the company's scientific direction, forging strong relationships with our academic collaborators, and identifying key opportunities for research and product development.

Our People

Don Jackson BSc

General Manager

Don joined Cambridge Research Systems in 2006, strengthening the management team to support continued growth in our business and product range.

Don draws on his experience in engineering, marketing, and in the management of technology-based companies to run the day-to-day business operations of Cambridge Research Systems.



The advancement of vision science

Vision Tests

The Metropsis vision testing suite.

Modules include:

- **Contrast Sensitivity Function Test:**
Based on research by Professor John Robson FRS.
- **Cambridge Colour Test:**
In collaboration with Professor John Mollon FRS, Dept of Experimental Psychology, Cambridge, UK.
- **Macular Pigment Optical Density:** In collaboration with Prof. John Mellerio, Rayne Institute, Kings College, UK.

Functional Imaging

Key products include:

- **MRI-Live eye-tracking and wide field stereoscopic stimulation:**
Developed through Decisions in Motion - a Cognitive Systems Specific Targeted Research Project of the 6th EU Framework Programme for Research and Technological Development.
- **MR-Eyetracker fibre-optic limbus tracker:** In collaboration with Prof. Mark Greenlee, and Prof. Hubert Kimmig Dept. of Neurology, University of Freiburg, Germany.
- **Brainvoyager analysis and visualization of functional and anatomical MRI:** Developed by Prof. Rainer Goebel of Brain Innovation B.V.

For more information on all our products, please visit our website at www.crs ltd.com/products

Our People

Steve Elliott BSc

Sales & Support Manager

Steve has been the head of our sales team since he joined Cambridge Research Systems in 1995.

Steve draws on a wealth of experience and detailed product knowledge to assist customers in selecting equipment and designing systems for their specific experimental needs.



Setting standards in vision science

Cambridge Research Systems' team of scientists and engineers are experts in the challenges of conducting vision research and will do their best to help with any problems or questions that arise. We provide free technical and programming assistance through our Support portal:

www.crsltd.com/support

We participate in many academic conferences throughout the world, and sponsor selected poster prizes and talks, such as the annual Colour Group Lecture. Details are published, along with other interesting resources and application notes, in our Research Topics pages:

www.crsltd.com/research

Cambridge Research Systems products are developed in response to feedback from our customers, and many are the result of partnerships with academia. Your comments and suggestions for new features or collaborative projects are always welcome.

Contact: **enquiries@crsltd.com**

Our People

Amanda Hurrell

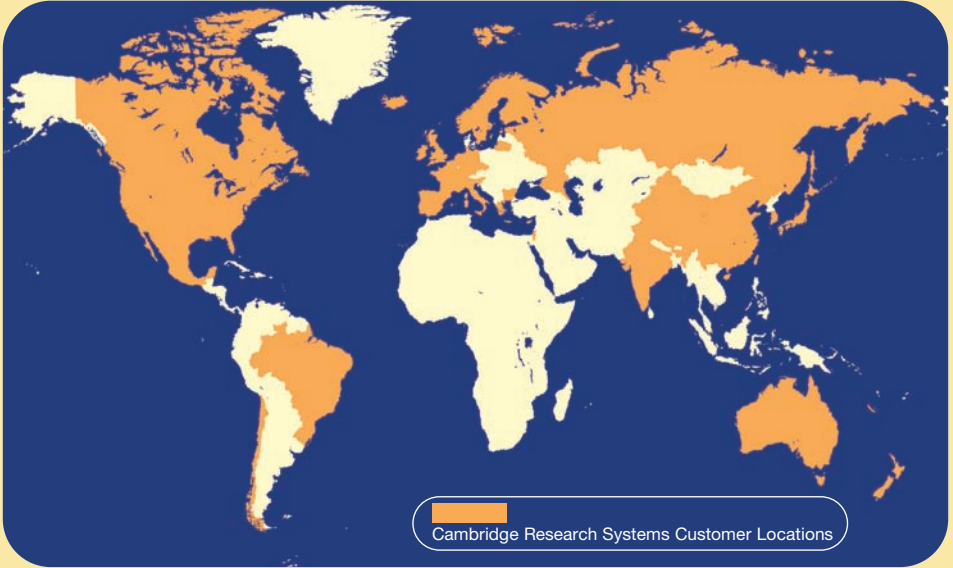
Sales Coordinator

Amanda is well known to our customers, having joined Cambridge Research Systems in 1993.

Amanda personally coordinates each sale, ensuring a friendly and efficient experience from the initial enquiry through to delivery and post-sales support.



Throughout the world



Cambridge Research Systems have supplied equipment to laboratories in hundreds of universities and institutes, including many prestigious centres for vision science throughout the world.

Please contact us if you would like details of reference sites close to your location.



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