



**PRESS KIT**



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## To Designated Media Outlet,

Even before vision issues impact your everyday life, LKC Technologies is here to help.

Building on over 40 years of experience in the visual electrophysiology space, LKC's flagship product, the **RETeval**<sup>®</sup> device, is transforming the industry for the care of adults and children alike.

Eye care professionals and researchers around the world are talking about this revolutionary handheld ERG device and through your outlet, this device will be known by many others.

The LKC product line is used in the aid and management of ophthalmic disorders. Offering full-field flash and flicker ERG and VEP testing to gather objective, functional data within minutes, the **RETeval** device brings the latest in electrophysiology technology to any office or clinical setting. In addition to full-field testing, the LKC UTAS desktop system, provides pattern and multi-focal ERG and VEP testing offering the complete suite of electrophysiology testing capabilities.

Visit [www.LKC.com](http://www.LKC.com) for more information and visit LKC's booth at [different tradeshows worldwide](#).

Thank you for helping spread the word about the latest in technology to help preserve the vision of millions around the globe.

Sincerely,

The LKC Technologies Team

# BACKGROUND

## HISTORY

LKC was founded in 1975 by Jerome Leight, Sigmund Krassowsky, and Frank Chen; hence, the initials LKC.

In early 1976, LKC Technologies introduced the first commercial visual electrophysiology testing system to the market, establishing itself as the industry leader in the manufacture of visual electrophysiology products.

## ACHIEVEMENTS & FACTS

- Introduced the first automated flash protocol.
- Introduced the concept of near-patient signal digitization with the UTAS's ultra-sensitive signal acquisition amplifier, the UBA-4204 Digital Biomedical Amplifier.
- The UBA was the industry's first fiber optic coupled amplifier that conditioned and digitized the patient's electrical response in a battery-powered unit, producing clear signals by the safest possible means.
- Patented timing methods among color LEDs to generate the most consistent white-light flashes, helping transition away from xenon flash tube technology to the more reliable LED technology.
- Invented the patented Sensor Strip electrode array, which adhere to the skin beneath the eye rather than touching the eye, improves patient safety and convenience.
- Patented real-time pupil size compensation in flash stimuli enables consistent results without the need to artificially dilate the pupil.
- Patented the use of combining data from multiple brightness flicker ERGs and pupillography to help assess retinopathy.

- Introduced the **RETeval** device in 2013, that implements the patented technology above. It is the world's first and only hand-held, battery powered, portable, non-invasive, fully ISCEV-compliant ERG device for use on dilated or non-dilated eyes. The **RETeval** device is also CE Marked and FDA cleared.
- LKC holds six U.S. patents and foreign counterparts for its product line.
- LKC participates in scientific research, publishing papers in peer-reviewed journals.
- LKC introduced the concept of ring-ratios for hydroxychloroquine toxicity monitoring, which is now in the AAO guidelines for monitoring for that issue.
- LKC authored a publication that is listed as a 2017-2018 top article by the journal Documenta Ophthalmologica, the official journal of the International Society for Clinical Electrophysiology and Vision.
- LKC has received four Small Business Innovative Research (SBIR) Grants from the National Institutes of Health.

## CERTIFICATIONS

LKC's products are held to the highest standards of quality and compliance in the design, development, and manufacturing of equipment. LKC has a ISO 13485:2016 certified quality management system, and is an FDA-registered medical device establishment.

LKC's devices are **CE marked** and **FDA cleared**. All LKC Electrophysiology Systems are RoHS compliant. LKC has country specific medical device approvals where required, including Canada, China, South Korea, Japan, Australia, the EU and Saudi Arabia.





LKC's trusted technology is **ISCEV-compliant, FDA cleared, and CE marked.**

## RETeval<sup>®</sup> Device

### THE ONLY FDA CLEARED NON-MYDRIATIC FLASH & FLICKER ERG/VEP DEVICE

The **RETeval** device is the first completely portable, handheld, full field flash ERG and VEP testing device for medical professionals.

Perfect for pediatric patients and adults alike, the **RETeval** device offers valuable information for aid in diagnosis and monitoring of ophthalmic disorders.

### WHY IS THIS DEVICE SO UNIQUE?

- Integrated age-adjusted reference data.
- User interface available in 14 languages.
- Designed for use with LKC's Sensor Strip electrodes for patient comfort.
- Recalibrates light levels at the beginning of every test to ensure long-term consistency of results.
- Non-mydratric testing by adjusting light levels based on pupil size with real-time pupillography.

#### For The Researcher:

- Access to the raw measurements as well as processed data.
- Customize protocols with sinusoidal, square, ramp, and brief-flash stimuli.
- RFF Extractor tool for exporting cursor values, electrical and pupil waveforms and more.

#### For The Clinician:

- In-lane testing doesn't require dedicated space in your space constraint facility.
- Immediate results on the device or in PDF report.
- Pediatric testing without sedation.





Simple Electrodiagnostic  
Testing For Animals

## RETevet™ Device

The RETeval device offers an intuitive interface that allows veterinary ophthalmologists and researchers to perform electroretinograms (ERGs) to measure an animal's retinal function.

The built-in infrared camera allows medical professionals to see the eye in real-time during testing, and the internal photometer offers self calibration before every test – ensuring fast, accurate, and repeatable results.

### For The Clinical Veterinarian:

- Safety and efficacy is assured to keep animals protected.
- The only handheld, portable device making ERG testing simple.
- Intuitive user interface for easy adoption in any practice.
- No need for external filters for dim flashes.
- Real time, professional quality reports to share with pet owners.

### For Animal Researchers:

- FDA cleared quality.
- New RFF Extractor available for exporting bulk data.
- Quick, high volume testing.
- Easy to train research staff.





The UTAS Systems have been cited in 435 papers in the past 5 years

## UTAS SunBurst™

The UTAS SunBurst™ system offers the world's brightest and most capable ganzfeld.

LKC's SunBurst product line offers the ultimate experience for physicians and patients in a small, lightweight and easy to use system. Conduct full ISCEV complaint electroretinograms (ERGs), visual evoked potential (VEPs), and electro-oculogram (EOGs) tests.

### KEY SPECIFICATIONS

- Flash stimuli from -50 dB to +11 dB in any color.
- Total flash range from -75 dB to +30 dB in 1 dB steps.
- Background luminance 0.005 to 4000 cd/m<sup>2</sup> in any color.
- ISCEV Standard ERG / EOG / VEP.
- Double flash, On/Off, S-Cone, photopic negative response, scotopic threshold response ERGs.

- Multifocal ERG – Multifocal VEP utilizing long m-sequences.\*
- Dark adaptometry.\*
- GLP (21CFR11) Compliance Pack, which allows compliance with FDA electronic recordkeeping requirements.\*

\*Optional features



The UTAS Systems have been cited in 435 papers in the past 5 years

## UTAS with BigShot™

The UTAS with BigShot™ system offers researchers the most capable animal ganzfeld on the market. Perform flash ERG (with option to add pattern testing) with ease on any small-to-medium sized animals.

Amplification with LKC's digital biomedical amplifiers allows faithful reproduction of every nuanced recording.

### BigShot Features:

- Large-format ganzfeld ensure consistent illumination for rodents, rabbits, as well as larger animals.
- Flash stimuli from -50 dB to +4 dB in any color.
- Total flash range from -75 dB to +25 dB in 1 dB steps.
- Background luminance 0.005 to 1000 cd/m<sup>2</sup> in any color.
- Custom protocols allow flexibility to create any tests your research demands.
- Xenon flash luminance of 2.5 – 800 cd/m<sup>2</sup> (0 dB to +25 dB), and more.
- Optional UV (365 nm) stimulator for species with UV sensitive s-cones.
- Uses Red (627 nm), Green (530 nm), Blue (470 nm), Amber (590 nm) and white LEDs and Xenon flash.
- Flash luminance range of 100 dB (+25 dB to -75 dB) in 1 dB steps.

### Social Media

LKC's Facebook, Twitter and LinkedIn pages are places for LKC's customers and the public to obtain the latest news, to have first-hand access to our calendar of events, ask, share information and network.

We share different content across our channels and encourage customers, followers and the public in general to follow us to stay updated with the latest in technology and innovation in ERG systems and devices.



Facebook: LKC Technologies



LinkedIn: LKC Technologies



Twitter: @LKCTech



YouTube Channel: LKC Technologies

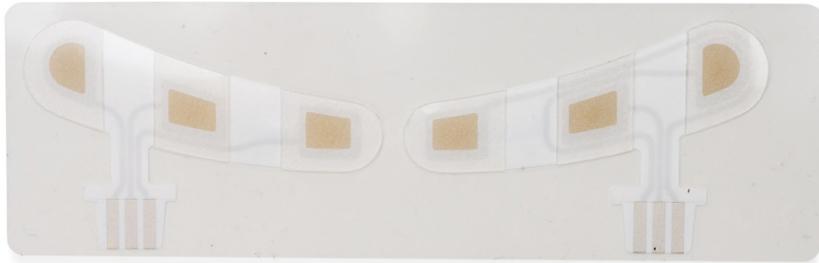
# Connect.



## LKC Technologies Logo

Our Logo Communicates:

Professionalism. Accuracy. Innovation. Trust.







**James Datovech**

President

Jim is the President of LKC Technologies and responsible for the overall operation of the company. He has more than 40 years of experience in sales and executive management, having held multiple sales and management positions during 14 year tenure with IBM and other important companies in The U.S..



**George Barstis**

Chief Financial Officer

George has more than 35 years of experience spanning various financial management positions with several large corporations including subsidiaries of Western Union Corporation, Fairchild Industries, and Contel Corporation. He spent eight years as the Chief Financial Officer of GTSI, during which he led GTSI through a successful IPO.



**Quentin Davis**

Vice-President of Operations

Quentin is Vice President of Operations and Development responsible for the technical aspects for the company's UTAS and RETeval products. We often refer to him as the brains behind this transformational RETeval/ERG device. He is a registered U.S. Patent Agent and is an inventor on 18 U.S. patent applications.



**Olga Kraszewska**

Director, Clinical Applications

Olga serves as the head of Clinical Research at LKC Technologies. She manages and runs the company's clinical trials and provides scientific support and training to end-users and staff for best practices in the operation of electrophysiology (ERG) equipment. She also leads the scientific, marketing, and technical efforts in the development and sales of the RETeval device, LKC's veterinary version of the RETeval device.



## Kristin Turner

Director of Global Sales Operations

Kristin is the Director of Global Sales Operations and serves at the front lines for all LKC Technologies' products. She manages worldwide sales for LKC and is the key point of contact for LKC's international distributors. Kristin works to develop processes and streamline sales across all product lines.



## Kevin Bernal

Marketing Manager

Kevin is LKC's Marketing Manager and he oversees all the marketing efforts of the organization. Kevin has several years of experience in digital marketing, website development, graphic design, google analytics, among other areas of digital and traditional marketing. He has worked in different industries including government, healthcare and non-profit.



## Monika Ranta

Vice-President of International Sales

Monika Ranta is LKC's Vice President of International Sales. Based in the E.U., she brings a wealth of experience in Ophthalmology devices and a strong international network of medical professionals and business partners. Monika is in charge of developing sales and customer satisfaction processes as well as maintaining healthy relationships with our global partners.



## Kathryn Silverman

Biomedical Engineer / QA Manager

As a Biomedical Engineer, Kathryn focuses on customer support, service, installation, and training. As the Quality Manager, she maintains the quality management system, performs incoming inspection, assists in verification and validation of hardware and software changes, and performs final QC testing on equipment prior to shipping.



## Joshua Santosa

Biomedical Engineer

Josh is one of LKC Technologies' biomedical engineers, focused on customer service including installation and training, customer support and troubleshooting, and sales engineering at many of our tradeshows and events. He is instrumental in the development and maintenance of LKC's technical documents.



Vision Defined™

# CONTACT

## MEDIA CONTACT

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## About LKC Technologies, Inc.

LKC Technologies, Inc. is the leader in visual electrophysiology, with products in over fifty countries. LKC's products are used to help diagnose a large number of ophthalmic conditions and vision threatening diseases and discovery of primary retinal disorders by measuring retinal function using ERG, EOG, VEP, Multifocal testing, dark adaptometry, and more.

For more information, visit: [www.LKC.com](http://www.LKC.com) or contact us at: [info@lkc.com](mailto:info@lkc.com)



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