LKC TECHNOLOGIES
VISION DEFINED™

UTAS SunBurst™

VISUAL ELECTRODIAGNOSTIC SYSTEM

- FUNCTIONAL TESTING
- LEGENDARY RELIABILITY
- WORLDCLASS SUPPORT

EXPERIENCE THE GOLD STANDARD IN VISUAL ELECTROPHYSIOLOGY

The UTAS Visual Electrodiagnosic System with SunBurst ganzfeld offers everything needed for any type of electodiagnostic testing:

- flash/pattern electroretinogram **(ERG)**
- flash/pattern visual evoked potential **(VEP)**
- electrooculogram **(EOG)**
- optional multifocal ERG/VEP
- optional dark adaptometry

ULTRA BRIGHT GANZFELD

ULTRA LOW-NOISE DIGITAL AMPLIFIER

ANY TEST, ANY TIME: FULL FUNCTION TESTING AT YOUR FINGERTIPS

The UTAS SunBurst runs full function visual electrophysiology testing with reliable and repeatable results. From scotopic to photopic tests, the UTAS runs all ISCEV standard tests and allows for custom protocols. Latencies and amplitudes of ISCEV standard ERGs match results from legacy LKC products, eliminating the need for new normative data.

- Flash: ISCEV Standard ERG / VEP
- Double flash, On/Off, S-Cone, photopic negative response (PhNR), scotopic threshold response ERG
- EOG
- Pattern: On/Off checkerboard, pattern reversal
- Multifocal ERG/VEP utilizing long m-sequences (optional)

ULTRA LOW NOISE DIGITAL AMPLIFIER

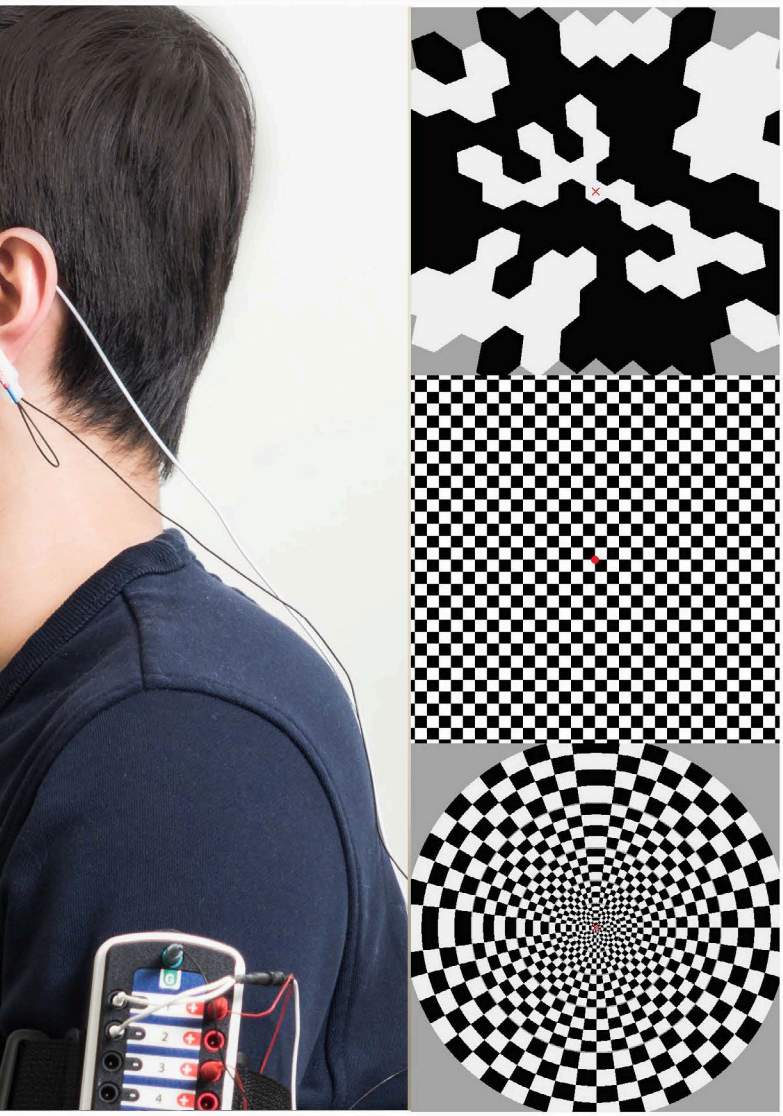
Small, light, and quiet with USB connector. Cleaner signals and response with the following features.

Minimize retesting with:

- Low noise: 6 channel differential with <10 MΩ impedance
- 24 bit A/D conversion
- Minimal power line interference: CMMR > 110 dB at 50-60 Hz

Visualize only the signal you care about:

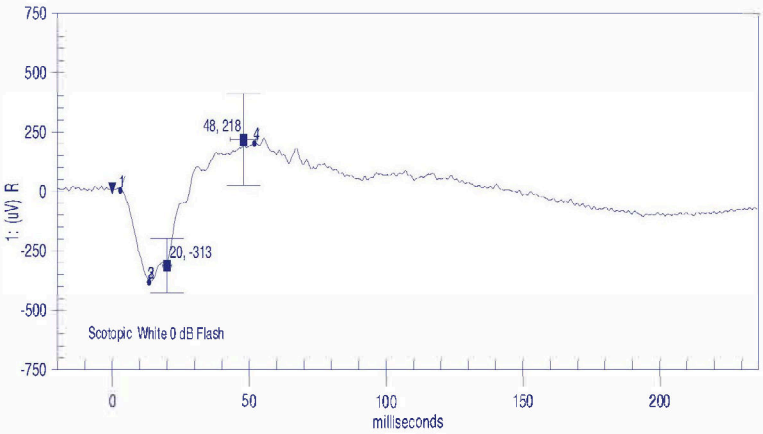
- Sampling rate: 500 Hz to 3750 Hz
- Software filters: high cut and low cut filters implemented in application software



GANZFELD – LIGHTEST, BRIGHTEST, MOST CAPABLE

Get insight into vision-threatening issues with the SunBurst color LED ganzfeld. The small, ergonomic ganzfeld has built-in handles and a quick mount feature for easy positioning and is specifically designed with patient comfort in mind. Weighing in at under 7 lbs. (3 kg.), the SunBurst adds full functionality to your practice or institute, without sacrificing space.

- Cleanable interior
- Easy verification of calibration
- Operators have less guesswork with a real-time IR camera to aid in monitoring electrode placement and patient fixation
- Flash stimuli from -75 dB to +30dB in 1 dB steps
- Dynamic flash luminance range of 105 dB (+30 dB to -75 dB) in 1 dB steps
- Xenon flash luminance of 2.5 – 2500 cd·s/m² (0 dB to +30 dB)
- LED flash luminance of $2.5 \cdot 10^{-5}$ 31 cd·s/m² – (-50 dB to +11 dB) in any arbitrary color
- LED flash luminance of -75 dB to 18 dB in white
- Flash duration <5 ms
- Background light from 0.005 to 4000 cd/m² in 0.01 dB increments in any color; In white as low as 10^{-6} cd/m²



THE UTAS SYSTEM CAN BE USED AT THE POINT OF CARE FOR CHILDREN AND ADULTS. GREAT SIZE FOR UNIVERSITIES, CLINICS, AND RETINAL CARE CENTERS.

EYE CARE

RESEARCH/ACADEMIC

OPTIONAL ERG UNDER ANESTHESIA

- Entire system fits on a mobile medical workstation, that can easily be taken to and from the OR
- SunBurst ganzfeld mounting arm modification available for testing supine patients

HOW THE UTAS DEVICE **DEFINES YOUR VISION**

TRUSTED GLOBAL BRAND

LKC Technologies shipped the very first commercially available visual electrophysiology system in 1976. Since that time LKC has been known worldwide for delivering systems with world-class performance and legendary reliability. Hundreds of peer reviewed publications and regulatory submissions have been supported by LKC electrophysiology systems in human and animal research as well as clinical use. With the UTAS SunBurst, researchers and clinicians have the world's brightest and most capable ganzfeld available. Normative data including latencies and amplitudes are available, or create custom normative data specific to your needs. LKC Technologies is committed to developing innovative products that lead to the preservation of sight.

ONE STOP TREATMENT FOR PATIENTS

Assess for a variety of diseases and monitor treatment with objective insight into retinal function, the optic nerve, and more. With the UTAS SunBurst system, doctors can conduct any type of electrodiagnostic testing all in one. Reduce the need for a separate appointment to conduct comprehensive tests, by offering one visit to gather diagnosis aiding results quickly, when it matters most.

PATIENT COMFORT IN MIND

The UTAS SunBurst ganzfeld is designed for patient comfort. The device is mounted on an ergonomic arm that can be positioned in front of a seated patient, or used in the supine position (optional upgrade). Make testing easier for patients who cannot tolerate corneal electrodes with the option to use LKC's Sensor Strips for ERG tests.

PROFESSIONAL INSTALLATION AND TRAINING AVAILABLE

Make it easy with LKC's expert staff, available to come to your office or institute to install the system, train staff, and make sure everything is in perfect working order for all testing scenarios.

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LKC Technologies, Inc., established in 1975, is an ISO 13485:2003 & 2016 and MDSAP certified, FDA-registered medical device manufacturer with quality products installed worldwide in over 70 countries.

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