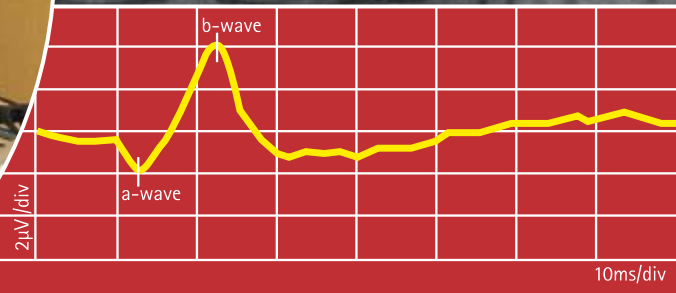
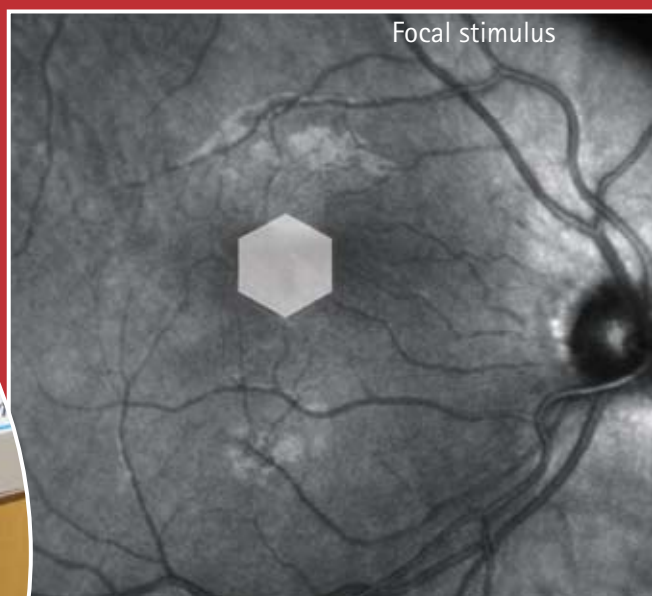
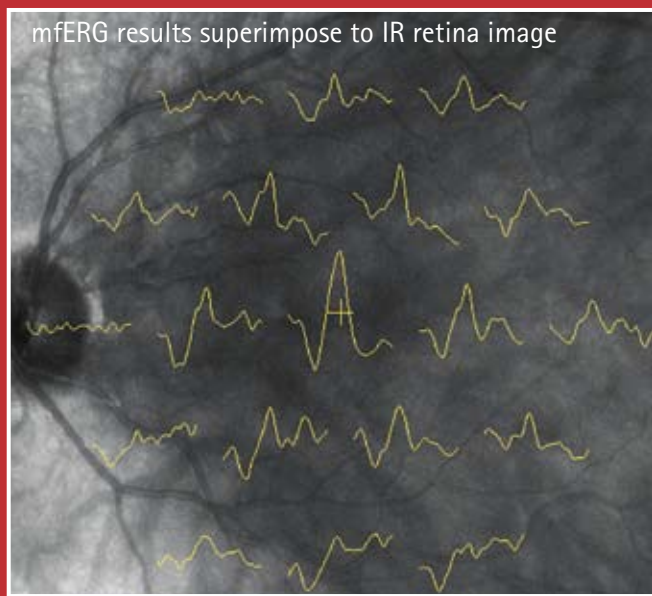


RETImap[®]

Electrophysiological unit combined with scanning laser ophthalmoscope



Certification:
 Quality Management System
 EN ISO 9001
 EN ISO 13485
 TÜV Rheinland CE 0197

RETI^{map}®

Electrophysiological unit combined
with scanning laser ophthalmoscope

Simultaneous infrared laser monitoring during electrophysiological function testing with Roland RETI^{map}®. For measurements on the retina; topography and function in the same time and same area.

An focal flash ERG, focal pattern ERG, focal pattern VEP and focal flash VEP or mf ERG/VEP stimulus (RETI^{map}®) and a new confocal Scanning Laser Ophthalmoscope (883 nm) are connected to record ERGs and VEPs projected by a small traditional CRT-stimulus source. This allows topographic retinal function recordings with the technique of monitor stimulation combined with a laser retina fundus imaging system. This method is necessary in cases where the retinal position of the stimulus array is not centered onto the fovea, deviates due to fixation problems or for all other cases you want to be sure to stimulate the right area on the retina. An eye tracking software helps you to remove and eliminate all eye movements during the test.

This system allows also a topographic mapping of retinal function by concurrently stimulating a large number of retinal locations and extracting their local responses. Regionally confined areas of dysfunction can be detected. Simultaneous retina fundus monitoring during the examinations provides reliable information regarding the location of the stimulus on the retina.



Test unit RETI^{map}®

Distributor:

Technical Data

Laser Scanning System:

Field of view: 30° x 30°
Digital image size: 512 x 512 Pixel
Digital image depth: 12 bit max. image frequency: 15 Hz
Optical resolution: 23 µm

Laser Sources:

IR: 883 nm (IR Image)
Blue: 488 nm (FA-Fluorescein Angiography)

Stimulation System: (CRT-Monitor or LED source)

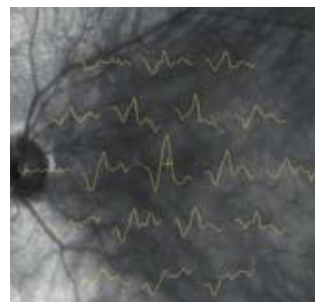
Field of view: 30° x 30°
Brightness: 500 cd/m²
Vertical frequency: 60 Hz
Resolution: 800 x 600 Pixel

Bio Signal Amplifier:

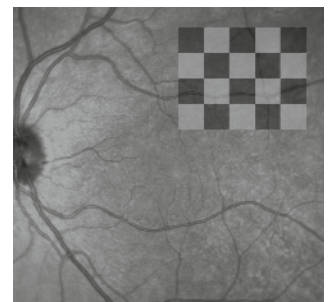
Type BF check voltage: 1.5 kV digital controlled amplifier
Impedance: 2 x 100 MOhm
Noise: <4 µV (SS)
Common mode reaction: <110 dB
Sensitivity: 10 µV/div to 2 mV/Div
High pass: 0.02 Hz to 1 kHz
Low pass: 20 Hz to 10 kHz

Software:

electrophysiology software for Standard ISCEV-protocols and special focal and multifocal ERG and VEP protocols.



fundus controlled
multifocal ERG



fundus controlled
focal VEP

 **ROLAND
CONSULT**
Electrophysiological diagnostic systems

ROLAND CONSULT
Office Brandenburg
Friedrich-Franz-Str.19
D-14770 Brandenburg/Germany
Phone: +49 (0) 33 81 - 38 26 20, Fax: +49 (0) 33 81 - 38 26 21
www.roland-consult.de, e-mail: info@roland-consult.de