



ephiōs handheld ERG system

# Fully portable ERG system





**eph-01** provides the ophthalmologist with the capability to a quick and effective test of the retinal function for screening or in cases of diffuse blindness. Just start the instrument, connect to the patient and do the test.

The instrument is easily portable and fully integrated in an ergonomically designed device. It is powered by a rechargeable battery allowing for tests being performed both in and away from the clinic. The device contains the whole instrument and testing doesn't require connection to PC computer, other modules or mains during test.

During the test one hand is used to control the device while the other is free. The curves are averaged to reduce noise and artefacts and is showed on the device display. The curves are stored in the device memory for later easy transfer to PC.

Technical specifications:		(subject to change without notice)
Flash Intensity (0 log):	<b>BASIC</b> 1.7 cd*s/m <sup>2</sup> <b>STANDARD</b> -3.0 to +1.2 log (in 15 steps)	
Flash Frequency:	Manual, 0.5Hz, 1Hz or 30Hz	
Input:	<b>BASIC</b> 1 channel <b>STANDARD</b> 2 channels	
Amplitude Resolution:	0.5µV	
Amplifier filter:	0.5 - 500Hz	
Time Resolution:	1 ms	
Display Time:	<b>BASIC</b> 200 ms <b>STANDARD</b> 50,100,150, 200, 500 ms	
Noise:	< 2µV peak to peak (shortcut, 0.5-100Hz)	
Battery, charge time:	Li-on 7.4V/1.6 Ah, approx. 3 hours (empty to full charge)	
Operating time:	> 10 patients without recharge	
Memory:	<b>BASIC</b> 100 curves <b>STANDARD</b> 2*100 curves	
Output:	Serial to computer (adaptor to USB)	

Automatic artefact rejection. Averaging of curves during test (1 - 1024).  
Automatic estimated b-wave amplitude during test.  
PC software for transfer of results to computer.

## Key benefits at a glance

- Ergonomic design for single-handed operation.
- Quick and effective test of the retinal function in a screening test or before and after surgery.
- Easy operation for ERG on premature, young children or bedside patients.
- Portable for ERG test in or outside of the clinic. No PC needed.
- Battery powered, fully integrated ERG instrument.
- No connections to mains needed during test.
- Instrument display allows for direct interpretation and decision.
- Stores up to 100 curves for later transfer to PC.
- Direct ready to go handling from buttons on instrument.
- Flash stimulator placed in front.

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