NEUROVASCULAR DIAGNOSIS AND MONITORING





New generation with robotized probes

PREMIUM TRANSCRANIAL DOPPLER

- High end state-of-the-art
 - Versatile
 - Portable
 - Ease of use





WAKIe: the innovation continues to satisfy your everyday needs

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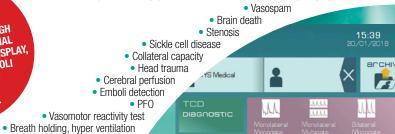
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WAKIE OFFERS ALL THE EXPECTED FEATURES OF AN EFFECTIVE AND HIGH QUALITY TRANSCRANIAL DOPPLER AS M-MODE DISPLAY, MULTI-GATING, EMBOLI DETECTION AND UP-TO-DATE CONNECTIVITY.

ENGINEERED TO SERVE A WIDE RANGE OF APPLICATIONS

REPORT



150mW 3.0 0° 4 150Hz ACA Right

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CHOICE OF HEAD SETS TO MEET ALL DEMANDS AND IMPROVE PATIENT COMFORT

Conventional headframe.

• Spectacle frame. This probe holder is especially light, comfortable and stable. It can be withstood without any pain for several hours.

• Suitable for both awake or anaesthetized patients.

EMBOLI DETECTION

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This module is purely developed to detect

the emboli which are seen in TIA & stroke patients.

It identifies high intensity transient signals (HITS) and classifies them into either an embolus or an artefact.

It is designed to provide the clinicians with fast,

fully automated data for their analysis and interpretation.

- Detection intensity threshold can be chosen by the user
- Automatic emboli listing with confidence coefficient makes the identification of the most significant emboli easier and faster
- Emboli review mode: HITS spectrum and sound playback, audiogram display

REPORTING

WAKIe creates clean, comprehensive and customizable reports for diagnosis and monitoring.

BATTERY AUTONOMY

While delivering the functionality of a full-fledged transcranial Doppler, **WAKIe** can be powered not only by the mains but also by a battery. This impressive feature helps the clinicians to adapt to new challenges.

- Outside, in accident sites
- No time lost for boot when moved from one bed to the other

COMPACT SIZE AND PORTABILITY

Due to its lightness, reduced size, built-in handle, WAKIe can be easily and quickly taken wherever transcranial Doppler is needed in any hospital department and even on accident sites.

CONFIGURATION

WAKIe TCD	WAKIe 1TC	WAKIe 2TC
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	•	•
		•
	•	•
	WAKIe TCD •	WAKIe TCD WAKIe 1TC

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ENABLING EXAMINATION ANYTIME WITH OPTIMIZED ADJUSTMENTS

- Fully operator oriented
- Dedicated preset-driven configurations User-defined protocols
 - **OPTIMIZED SCAN TIME**

The scan time is optimized thanks to the acquisition of all Doppler signals along the ultrasound beam. A single signal acquisition can display 9 spectra on 9 different depths. The operator identifies quickly the relevant depth and focuses on it. These 9 spectra can also be recorded for their offline review. Even when the examination is over, the depth of the Doppler signal can be changed and the exam report updated. Doppler parameters can be adjusted offline too for an optimisation of the saved signal.

OUTSTANDING MONITORING MODULE

- User defined display
- On trend display, deviations are apparent at a glance Automatic and manual event markers
 - Unique past event display function. While the monitoring is under progress, with a simple touch of a key, you can go back in time and display any of the detected events or HITS. During this display, the monitoring still goes one.

ROBOTIZED PROBES

The adjustment of probe orientation is robotized. • It is far easier to find the TCD signal

 Automatic adjustment when the signal becomes weaker during recording; good signal conservation over several hours

AND/OR CONVENTIONAL PROBES







High quality Doppler

Fully digital Doppler High resolution colour M-mode M-mode supported by each probe
Multi-gating: simultaneous display of 9 spectra along the ultrasound beam Visual and audio replay at any depth Offline post processing of depth Each connector can support each probe Probe frequency (MHz): 1.6, 2, 16 (PW), 4, 8 (PW/CW) 1 or 2 channels

Stereo speakers **Probe options**

2 MHz handheld probe 1.6 MHz handheld probe

2 MHz monitoring probe 1.6 MHz monitoring probe

2 MHz robotized monitoring probe 1.6 MHz robotized monitoring probe

Each channel supports each probe

16 MHz probe

4 MHz handheld probe 8 MHz handheld probe

Probe holder (for monitoring)

Uni-or bilateral headframe Spectacle frames for robotized probes

Display

Built in 15" (16/9) WXGA colour Resolution: 1360x768 Touch screen

Computer

OS: Linux RAM: 4 GB or higher Hard disk or SSD

Connectivity

5 USB ports

1 HDMİ output 1 VGA output

Headphone connector Analog input (4)/output (8)

DICOM (worklist, storage)

PRODUCT SPECIFICATIONS

Equipped with the latest technology to make the exam easier and save time

User interface

Touch screen Virtual keyboard Alphanumeric keyboard Remote control Foot switch pedal

Protocols

For diagnosis and monitoring Easily configurable Unlimited number

Report

Customizable personalized reports **Templates** Measurement result table Hospital logos Patient pictures User and physician comments

Export data

Report: PDF, ODT, PNG, DICOM Trends and envelops: Excel (txt), analog Raw data, wave MP4

Continuous monitoring

Parameter trend graph Alerts, automatic & manual markers

Displayed indices

Vs, Vd, Vm, Pl, Rl, Vs/Vd, Lindegaard index, Signal/Noise, number of emboli, average velocity





Emboli detection

Display of the emboli features: intensity, energy, duration, velocity, side, position in the heart cycle, confidence coefficient. Customizable sorting of the emboli Emboli distribution chart Audiogram (complex) display Easy playback of the emboli Emboli can be shown in the report

Speciality tests

Auto regulation Breath holding Vasomotor reactivity Configurable thresholds Special report layout with trends On screen trends for easier tracking

Examination review

Unlimited number of review stations Replay examinations with full spectrum and Doppler audio Complete shared network database Reanalyse and add interpretations to a finalized report

General specifications

Mains power: 110-240 V, 50-60 Hz Internal battery Dimensions (cm): 37.6 x 28.4 x 20.1 Weight (kg): 5.2 Portable (all in one device) Dedicated carrying bag Trolley On line help Remote access to the WAKIe in real time from your office

We listen to your needs and work every day to provide the most advanced technologies and the most innovative design for you to excel in patient care. Thank you for considering Atys.





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