

WAKIe



New generation with robotized probes

PREMIUM TRANSCRANIAL DOPPLER

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

WAKle: the innovation continues to satisfy your everyday needs

WAKle 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

- Vasospasm
- Brain death
- Stenosis
- Sickle cell disease
- Collateral capacity
- Head trauma
- Cerebral perfusion
- Emboli detection
- PFO
- Vasomotor reactivity test
- Breathing holding, hyper ventilation

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

- On trend display, deviations are apparent at a glance
- User defined display
- Automatic and manual event markers
- Unique past event display function.

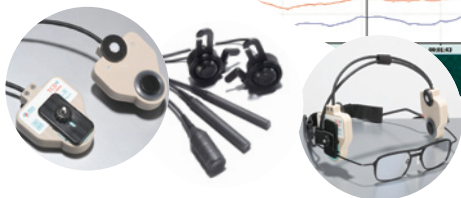
While the monitoring is under progress, with a simple touch of a key, you can go back in time and display any of the detected events or HITS. During this display, the monitoring still goes on.

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



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

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

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

BATTERY AUTONOMY

While delivering the functionality of a full-fledged transcranial Doppler, WAKle 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

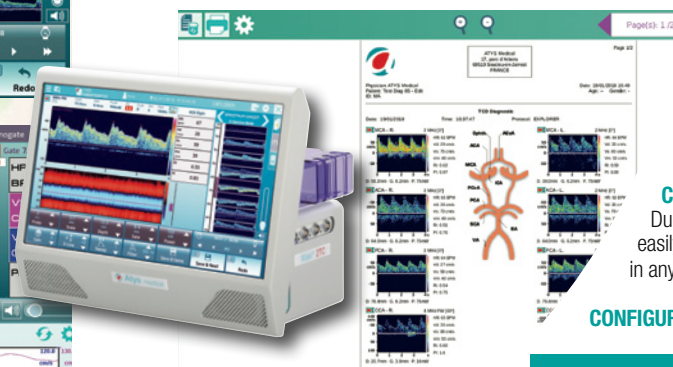
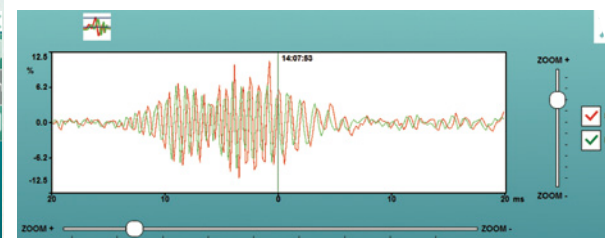
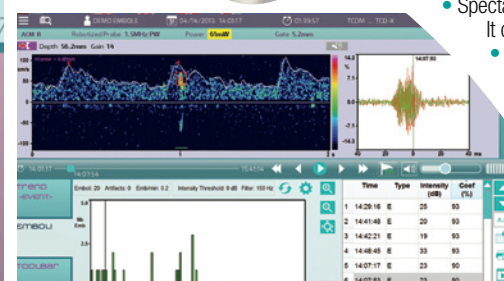
COMPACT SIZE AND PORTABILITY

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

CONFIGURATION

	WAKle TCD	WAKle 1TC	WAKle 2TC
Diagnosis	•	•	•
Unilateral monitoring		•	•
Bilateral monitoring			•
Robotized		•	•

Monitoring always includes emboli detection, vasomotor reactivity tests





PRODUCT SPECIFICATIONS

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

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
Each channel supports each probe
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
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 HDMI output
1 VGA output
Headphone connector
Analog input (4)/output (8)
DICOM (worklist, storage)

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 envelopes: Excel (txt), analog
Raw data, wave
MP4

Continuous monitoring

1 or 2 channels
Parameter trend graph
Alerts, automatic & manual markers

Displayed indices

Vs, Vd, Vm, Pl, RI, 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 WAKLE 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.

StayAtys

Atys
medical

17 Parc d'Arbora
69510 Soucieu en Jarrest - France
Tel: +33 4 78 05 69 69
Fax: +33 4 78 05 69 60
E-mail: atys@atysmedical.com
<http://www.atysmedical.com>

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0459