

# 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.

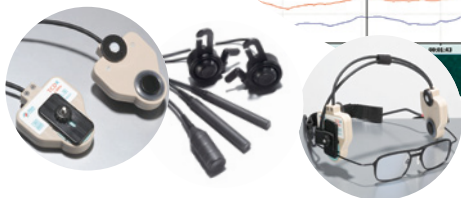
While the monitoring is under progress, with a simple touch of a key, you can go back in time and display any of the detected events or HITS. During this display, the monitoring still goes on.

## 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

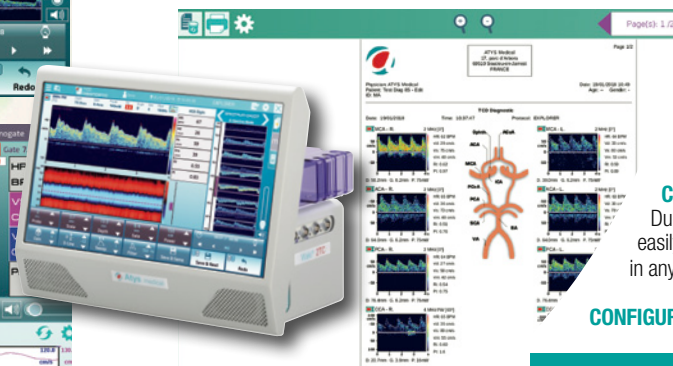
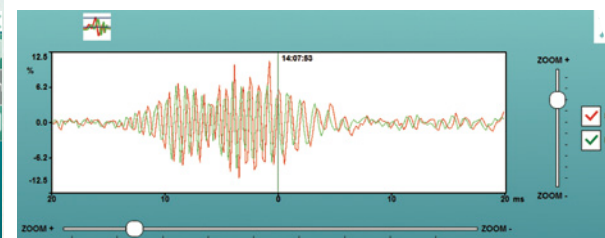
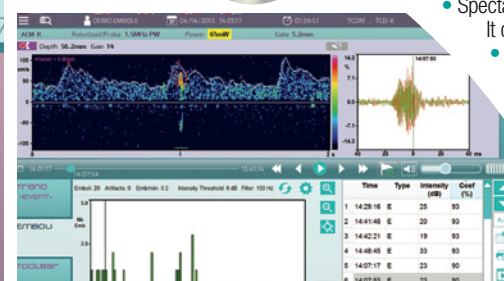
## COMPACT SIZE AND PORTABILITY

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**  
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