



**Everything for cardiopulmonary functional diagnostics**

### Our company profile

We are a medium-sized medical technology company founded in 1987.

With the introduction of the first digital ECG recorder, we established ourselves as a provider of high-quality products for cardiopulmonary functional diagnostics. We have developed and marketed innovative medical devices for medical practices and hospitals for over 30 years.

Our PADS Y software includes various applications for resting, stress and Holter ECG examinations, ambulatory blood pressure and spirometry.

PADS Y makes it possible to organize these applications, control the devices and offer comprehensive analyses to medical staff. Our software is programmed in Java and thus compatible with Windows and macOS operating systems.

The constant will to meet the needs of medical practice and to prepare ourselves quickly and innovatively for new challenges is our strength.

Since 2017, Medset has been part of the successful Zimmer MedizinSysteme GmbH in Neu-Ulm. This collaboration offers a broad basis for exciting developments – both for our customers as well as for each individual colleague.

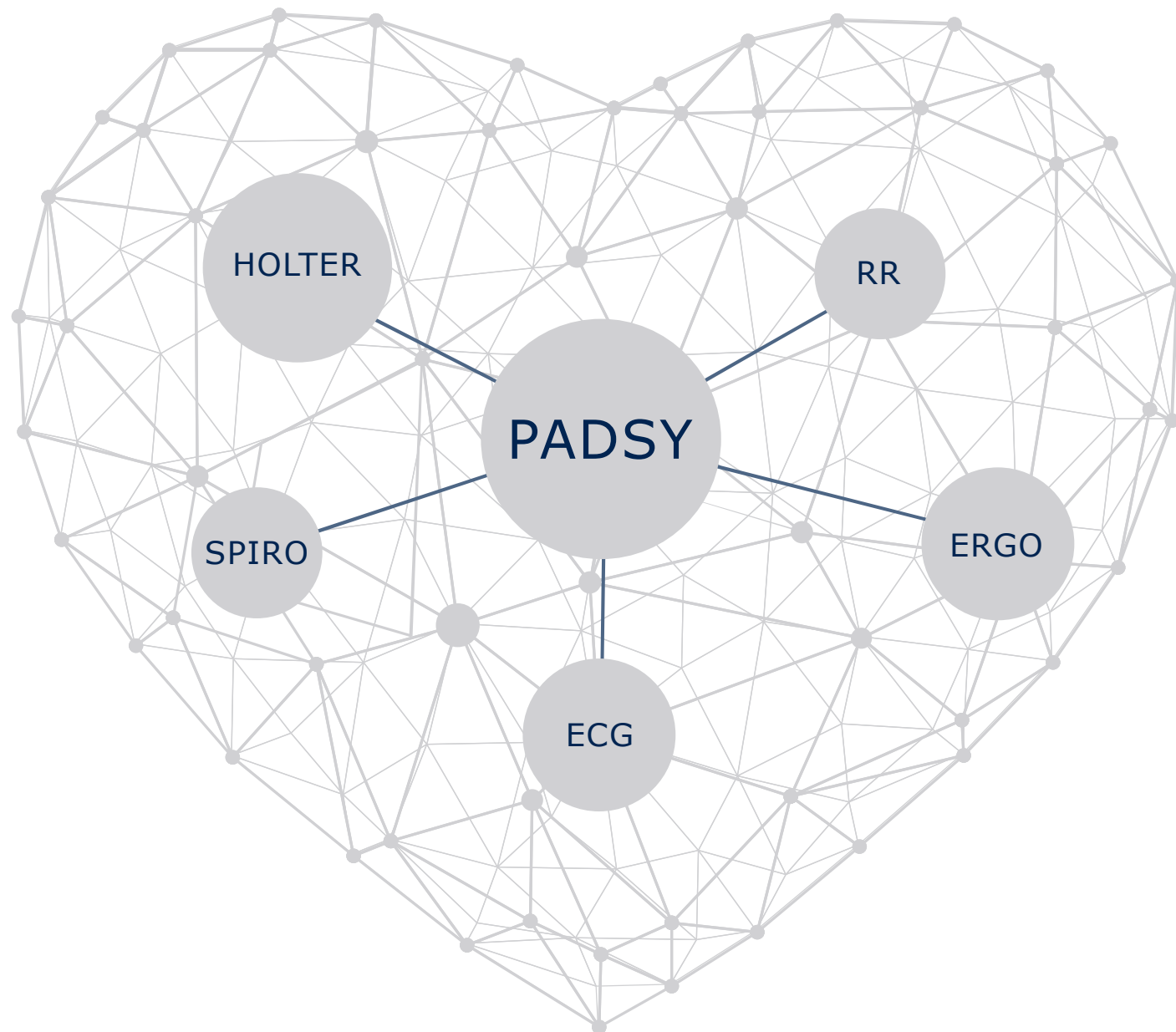
**Medset - Innovative manufacturer of software for functional diagnostics**

#### How to contact us:

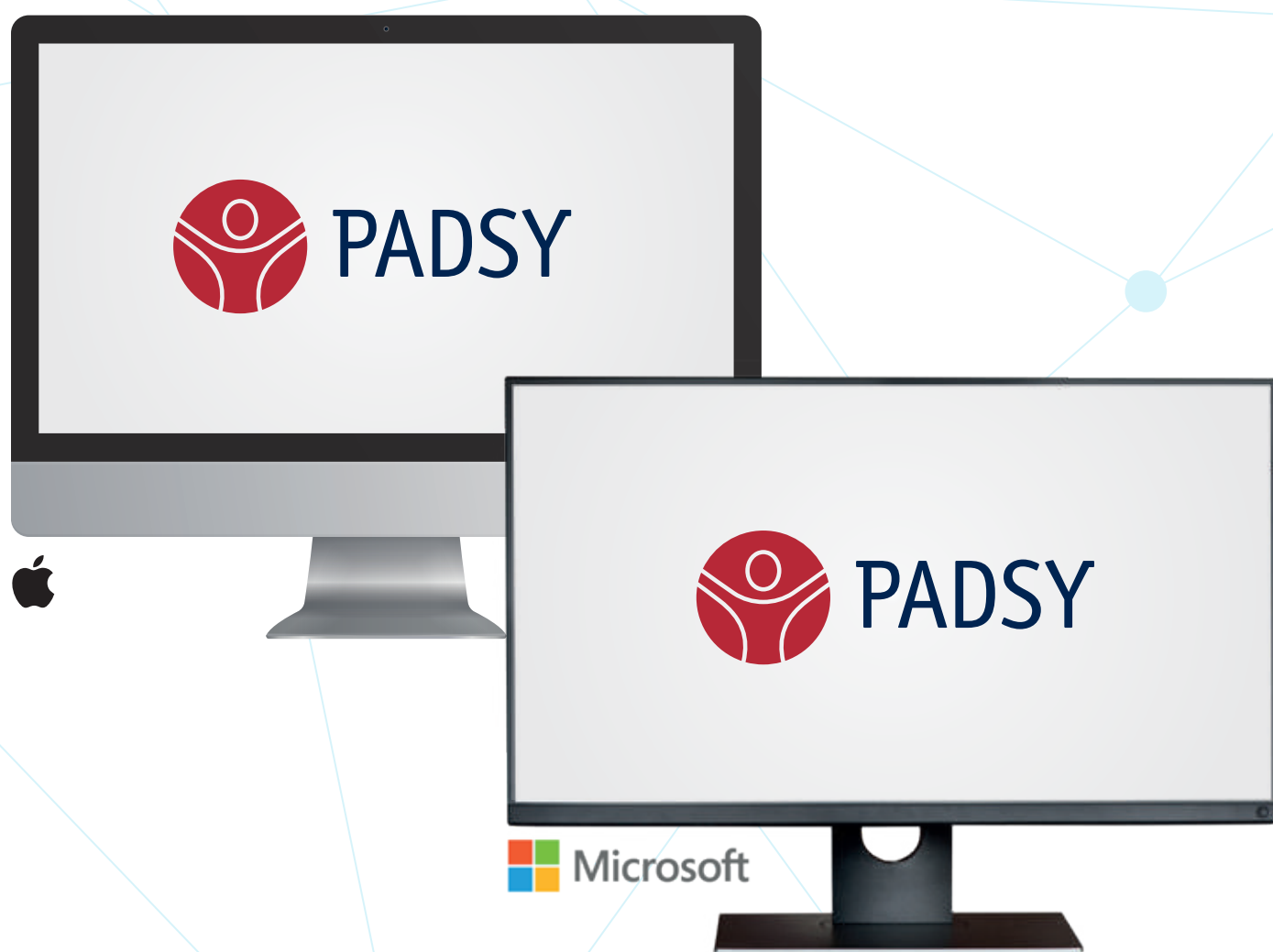
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**PADSY integrates medical applications and interfaces on various operating systems in all networks**



## Connectivity

PADSY communicates with HIS and medical practice IT systems. Patient data and findings are accepted or transmitted fully automatically via the existing interfaces, such as data transmission via GDT.

## Platform for functional diagnostics

PADSY organizes all applications for cardiopulmonary functional diagnostics and controls the connected devices for the recording of vital parameters.

## Uniform user interface

All applications in PADS Y have a uniform look and feel and thus provide a sense of reliability in operation. Printouts can be individually configured for each application. In addition, text modules can be defined for generating reports.

## Data management

All patients and examinations at a glance.

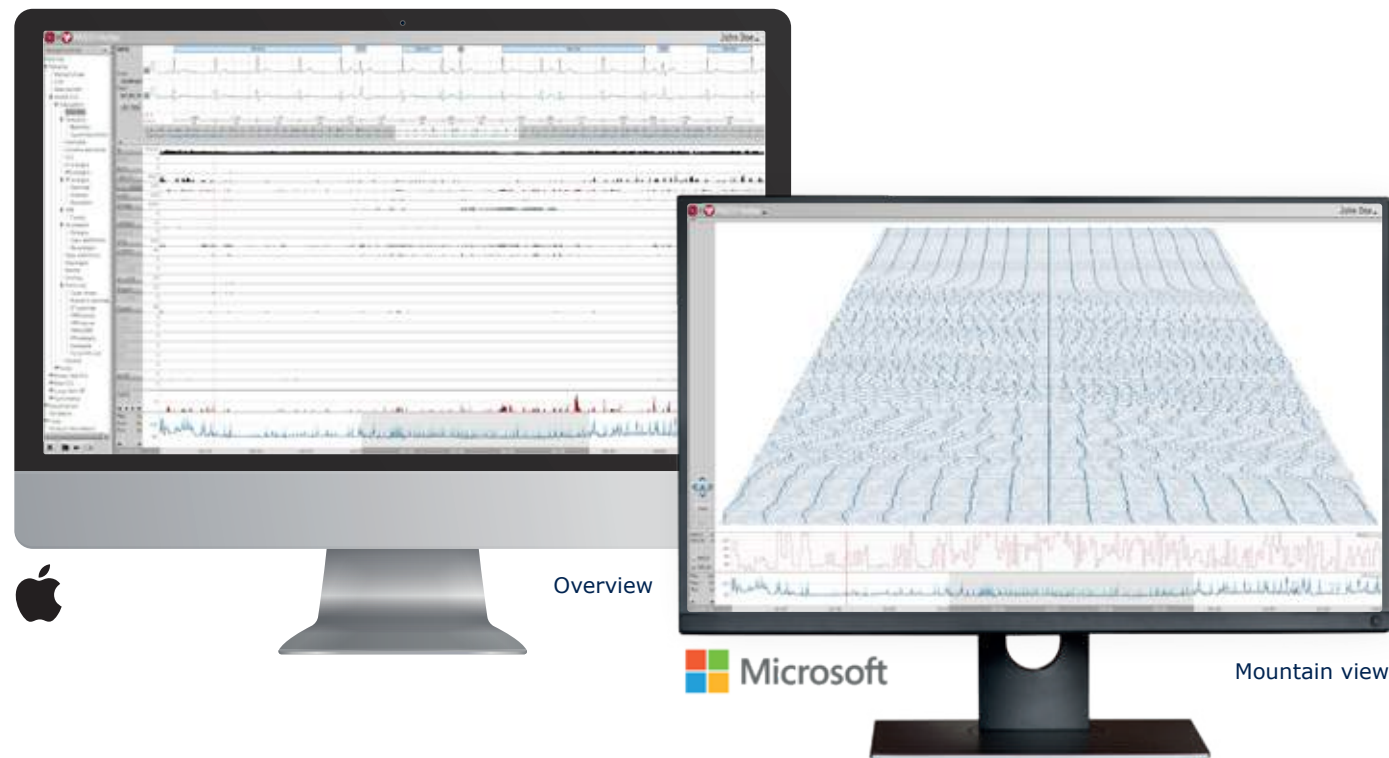
## Network capability

PADSY was developed as a client/server system and therefore works in networks of any size.

## Operating systems

Because of the Java programming language, PADS Y and its applications are fully compatible with Windows and macOS operating systems.





### Valid results at first glance

The general overview allows you to assess your patient's heart rate in just a few seconds.

### Various functions:

- ♥ Re-analysis
- ♥ Template matching
- ♥ RR analysis
- ♥ QRS compass
- ♥ Area editor
- ♥ Individual beat editor

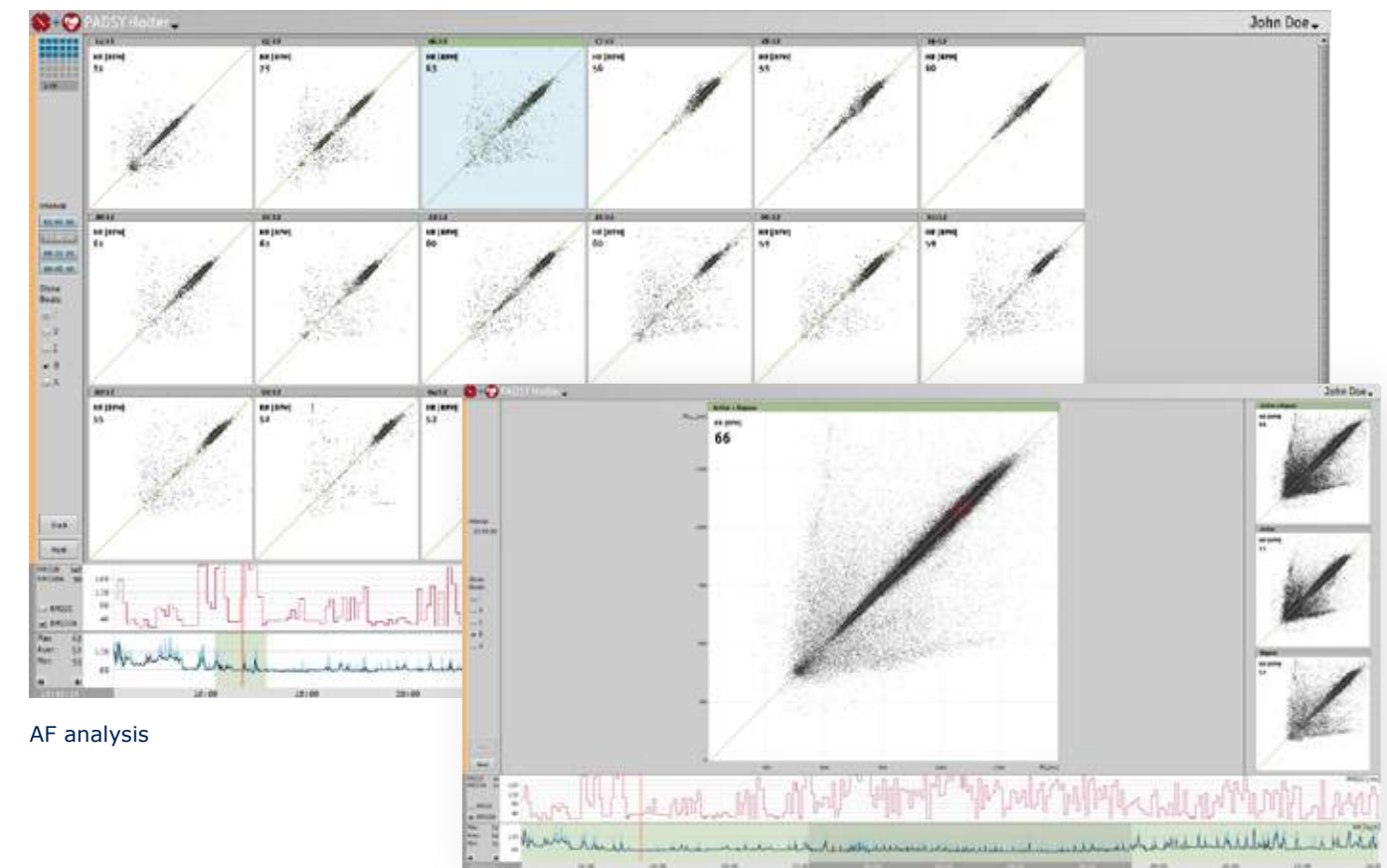
### The ECG in a new perspective

A particular highlight is the mountain view which shows each ECG beat of a beat class clearly and precisely.

### Additional options

- ♥ Initialization of various compatible Holter ECG recorders (patient's name is written on the recorder)
- ♥ Placement of markers during the recording by the patient
- ♥ Optional: Printout of a patient diary

## Atrial fibrillation diagnosis



### Reliable detection

The Poincaré plots show the dynamics of the reliably detected atrial fibrillation phases. You can confirm these by rapidly switching over to the interval or Mountain view.

### Re-analysis

Using the time cursor, you can rapidly find the relevant time range in which the atrial fibrillation occurred. The measurement can be analyzed once again by changing the settings.

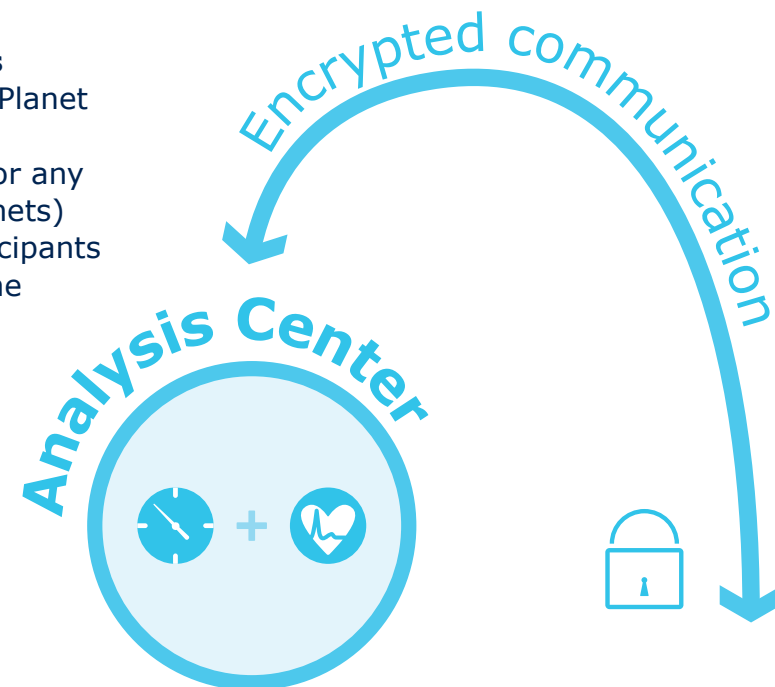
### Compatible Holter ECG recorders

- ♥ ECG Time
- ♥ ECG Time S
- ♥ Other recorders upon request



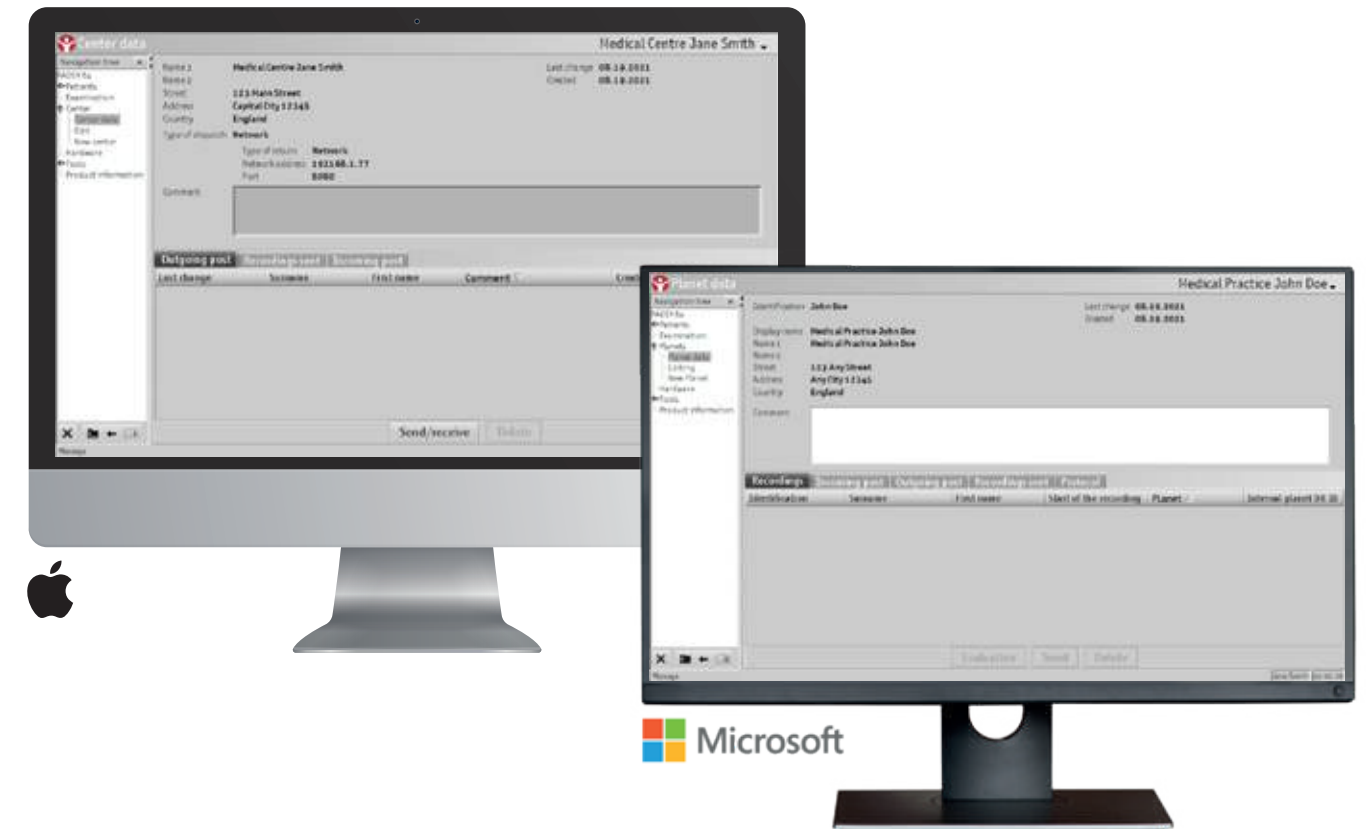
### Planet Center performance features

- PADSY Holter ECG system with the "Planet Center" option
- Expanded PADSY database system for any number of analysis participants (planets)
- Authentication of the individual participants
- Automatic encryption according to the RSA method
- Return of all changes and comments



**Analysis Center**  
The Center can organize all connected analysis participants by special modules.

**Planet Center option**  
Recordings are sent to an analysis Center that handles the analysis.



### Planet performance features

- Up to 48 hours of digital ECG recording
- Automatic encryption according to the RSA method
- Bidirectional ECG communication via Internet
- Visual ECG monitoring, printout and archiving

**Secure data transfer**  
In the Planet analysis community, the data are transmitted only with recognized encryption algorithms.



#### Flexible ECG display

With just a few mouse clicks, you can select your preferred ECG display.

- ♥ Choice of various lead systems
- ♥ Pacemaker detection
- ♥ Emergency ECG option

#### Compatible ECG amplifiers

- ♥ ECG Top
- ♥ ECG Top D / BT
- ♥ ECG Air / BT
- ♥ Other amplifiers upon request



ECG Top D/BT

#### Intelligent comparison function

With this function, two ECGs from a patient can be easily compared with one another. This allows you to identify changes in the ECG at first glance.

#### Valid ECG processing

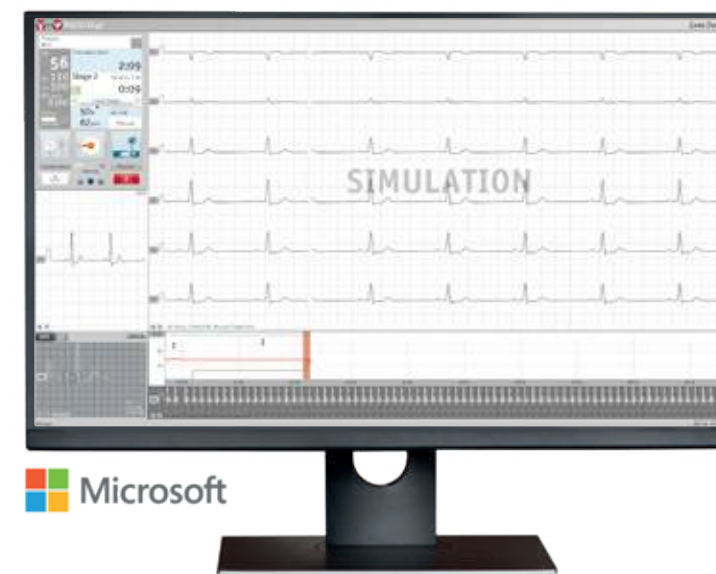
The HES algorithm ensures a valid diagnosis. One's own measurement can be performed with the integrated calliper and representative cycles.

#### ECG interpretation

The precise HES ECG interpretation automatically determines the representative cycle and makes a diagnostic recommendation for possible pathological symptoms.

#### Similarities: Resting and Stress

- ♥ Adaptation of the calibration wave also during the measurement
- ♥ Individual recording time
- ♥ Training option using the integrated simulator
- ♥ Various filter options to suppress interferences in the signal



#### User interface for patient safety

All of the information needed for a safe stress test is shown clearly and comprehensibly on a screen.

#### Algorithms for valid measurement

Using the HES algorithms, pathologies are reliably identified and displayed.

#### Integration of an automatic blood pressure module

The integrated blood pressure measurement provides precise measured values.

#### A stress test for your patients – stress-free

PADSY Ergo controls the maximum stress for your patients. You are in control and stay relaxed.

#### Observation in the network

Observe the ECG from your workstation while the patient performs the stress test in another room.

#### Other functions:

- ♥ Premade and individual limit setting
- ♥ Selection of premade protocols
- ♥ Creation of your own protocols
- ♥ Optional: Review and Arrhythmia

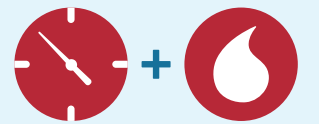
#### Compatible bicycle and treadmill ergometers:

- ♥ Ergoselect 1, 4 and 5
- ♥ Ergotop 2
- ♥ Other ergometers upon request



Ergoselect





## Valid results at a glance

You get an overview in graph and table form of all of the values of your recording. Histograms and Scattergrams provide you with a quick overview of the distribution of the measured values.

## Prepare recorder

Prepare the recorder using PADS RR individually for your patient. To do this, use standardized or self-produced protocols and differentiate between day, night and transition phases.



## Setting options exactly as desired

Create individual limits for the various phases.

## Additional options

- ⦿ Integrated, printable patient diary
- ⦿ Optional input screen during the initialization for medication and indication

## Compatible Holter BP recorders

- ⦿ Scanlight III
- ⦿ Other recorders upon request



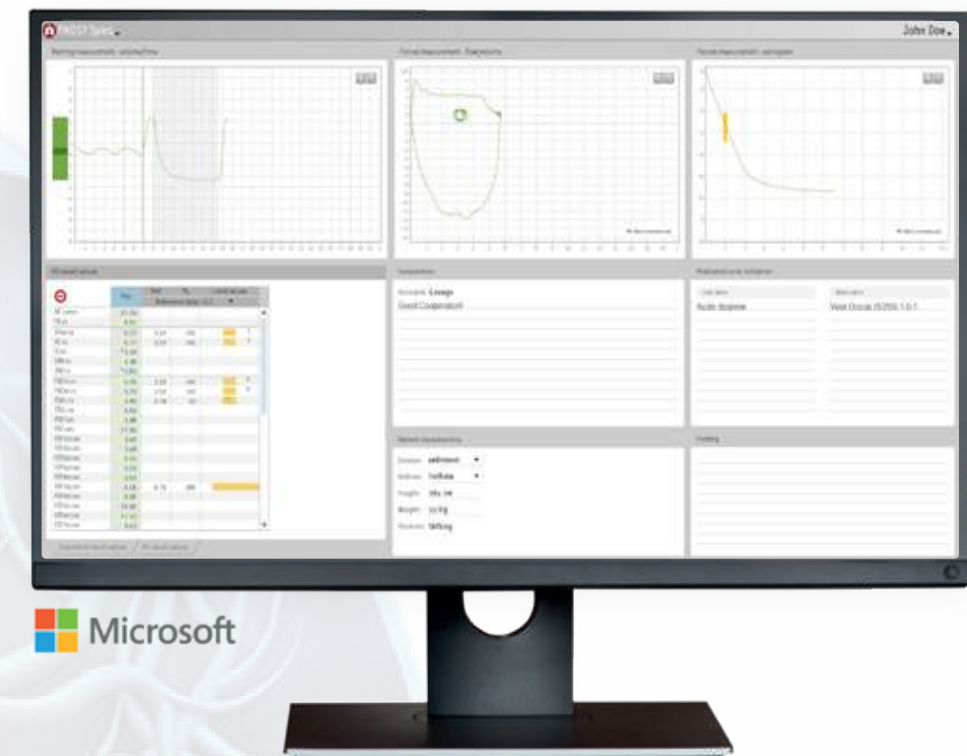


### Reliable respiratory manoeuvres

Quality assessment of the PADSYSpiro software shows the patient's cooperation with each respiratory manoeuvre and thus enables a precise assessment of the flow-volume curve recorded.

### No calibration

With minimal flow resistance, the Spirosound sensor with its ultrasound measurement technology precisely measures respiratory flow. The composition of the respiratory gas does not affect the accuracy of the value.



### Guidelines according to ERS and ATS

PADSY Spiro was developed according to the guidelines of the European Respiratory Society (ERS) and the American Thoracic Society (ATS) so that an ethnically appropriate assessment of lung function according to GLI is possible.

### Convenient measurement procedure

- ① Choice of various measurement modes (resting mode, flow/volume mode or combined mode)
- ① The measured values are automatically calculated during the examination
- ① Through a Pre- and Post-measurement, you have the option of comparing two measurements with each other

### Additional benefits

- ① The compatible spirometers do not require any calibration
- ① Training option using the integrated simulator

### Compatible spirometers

- ① Spirosound
- ① Spiroscout
- ① Other spirometers upon request



Spirosound



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