

## ANGIOLYS SPECIFICATIONS

When recording blood flow waveform and measuring blood pressure in parts of the body as diverse as toe, thigh and arm, you can rely on ANGIOLYS

### Doppler

Bidirectional  
Doppler probe connectors: 2  
Doppler frequencies: 4 MHz, 8 MHz CW  
Light and thin probes for accurate examination  
Insolation of small vessels even at compromised perfusion  
Spectrum colours: 256  
Two stereo loudspeakers  
Headphone output  
Auto gain  
Gel mute  
On & off line play back of the signal with audio  
Calculated indices: Vs, Vd, Vm, PI, RI, S/D, HR  
Labels to describe the waveforms: mono, bi or tri-phasic, ...  
Contralateral display for real time comparison

### Pressure

4 or 12 independent colour coded channels  
Up to 12 cuffs can be connected to the ANGIOLYS  
Pressure cuff size: large variety  
Automatic cuff size detection  
Range: 0 to 300 mmHg  
Target cuff pressure: adjustable  
Inflation/deflation curve: automatically displayed  
Detection of flow return:  
automatic and/or manual  
Measurement with Doppler or PPG  
The measured pressures remain adjustable by the user  
Cuff inflation: automatic and/or manual  
Cuff deflation: automatic  
Labels to describe measurement conditions (pains, no occlusion, ...)  
ABI/TBI with PPG: simultaneous measurement of the 4 pressures

### Photoplethysmography (PPG)

4 or 10 independent PPG channels  
Ultra stable, ultra sensitive PPGs  
AC & DC modes  
DC mode available for pressure measurements

Sensor type: miniature encapsulated receiver & transmitter  
Gain: automatic or manual  
Beep sound: configurable  
Colour coded sensors

### Pulse volume recording (PVR)

4 or 12 independent colour coded channels  
Simultaneous recording of up to 12 PVR sites

### Protocols

Easy to create or to customize  
Each step of the examination is defined  
Fully configurable: all adjustments can be defined.  
Maximum number of protocols: unlimited  
The protocols can combine any modalities in any order  
With or without stress test  
Results of the combined modalities unified in one report  
The protocols can be saved on an external media

### Patient file

Patient data can be input manually  
Patient data can be loaded from DICOM  
Patient data file can be customized  
Patient history and symptoms can be input  
Selection of the input patient data to be printed out

### User interface

Intuitive touch screen; no mouse or keyboard needed  
Double foot switch  
Keyboard, mouse, track ball (options)  
Remote control  
On-line help



### Data export

DICOM  
PDF: automatic report export  
ODT, Word, Excel, txt, Wave (raw data), Movie (avi)  
Proprietary file format for PC review station  
PC review station: unlimited number

### Data base

Data base search: multiple advanced options  
Backup/Restore: Integrated. USB/DVD/Network  
Anonymization  
Easy access to disk storage information

### Report

Standard comprehensive vascular report  
With user name and data  
With institution logo  
Fully configurable  
User define templates  
Changeable: drag & drop the waveforms  
Pictures can be included  
Comments can be input below each waveform  
A general conclusion can be input  
Results of the palpation can be added

### Recommended PC

Display: 19"-23" wide touch screen  
Display resolution: high definition support  
Operating system: Windows 10  
CPU: i3/i5/i7  
RAM: 4 GB or higher  
Hard disk: 1 TB or higher

### General

Power: 110-240 V, 50-60 Hz  
Dimensions (cm): 29.7 x 24.7 x 7.8  
Weight (kg): 3.5  
USB connection to a PC  
Trolley with holders for sensors, probes, hoses.

## PERIPHERAL VASCULAR DIAGNOSIS

# ANGIOLYS



## PREMIUM PERIPHERAL VASCULAR TESTING SYSTEM

Designed to perform all non-invasive physiological arterial and venous studies

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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**MORE THAN 30 YEARS OF EXPERIENCE BUILDING SYSTEMS THAT IDENTIFY PERIPHERAL ARTERIAL DISEASE (PAD)**

For the last three decades, Atys medical has been committed to the detection of arterial and venous disorders with innovation as a priority. Our product line includes peripheral vascular testing systems, transcranial Doppler with robotic probes and cardiac output monitors.

ANGIOLYS is our latest computerized platform for peripheral vascular diagnosis. It offers demanding vascular professionals all the advantages expected from a modern and complete system with automatic testing capabilities.

ANGIOLYS uses Doppler, air cuff and PPG probe technology to record Ankle Brachial Index (ABI), Toe-Brachial Index (TBI), Segmental Pressure values, Pulse Volume Recording (PVR) waveforms, Doppler velocity profiles and venous parameters as venous refill time and Mean Venous Outflow.

Features	ANGIOLYS
Doppler probes	4 & 8 MHz
Simultaneous PVR measurements	4 or 12 with the pressure satellite
Simultaneous pressure channels	4 or 12 with the pressure satellite
Simultaneous PPG channels	4 or 10 with the PPG satellite
ABI and TBI	4 simultaneous PPG pressure measurements

## MODULAR AND FLEXIBLE

Designed for enhanced efficiency and effectiveness in clinical diagnosis, ANGIOLYS is tailored for both large or small hospital departments and outpatient offices.

Whatever your peripheral vascular testing equipment needs may be, you can find an ANGIOLYS configuration that fits them and that is easily upgradable to additional tests to fulfil new requests.

This modularity and flexibility come from the satellites. One or two satellites can be added at any time to increase the number of pressure and/or PPG channels.

## TIME EFFECTIVENESS

With 4 to 12 inflation ports and dual side automatic cuff inflation, ANGIOLYS performs rapid bilateral, multiple level vascular studies. The following simultaneous measurements are possible:

- With PPG, both arm pressures and both ankle/toe pressures.
  - Up to 10 PPG signals
  - Up to 12 PVR signals

The operator does not have to handle the cuffs or their hoses during the examination. They are installed on the patient and all connected to the ANGIOLYS during preparation.

This makes the test very fluid.

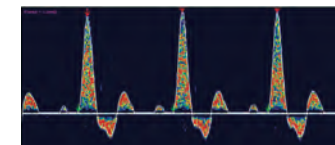
Besides, thanks to the customized and versatile protocols, all the adjustments are always properly set.

The operator runs efficiently the examination and can fully focus on the patient.



## CLINICAL APPLICATIONS & SPECIALTY TESTS

- Non-invasive upper/lower limb vascular assessments
- Segmental blood pressures with PPG or Doppler
- ABI - Ankle Brachial Index with PPG or Doppler
- TBI and FBI - Toe and Finger Brachial Index
- Doppler measurements
- PVR - Pulse Volume Recording
- Segmental volume plethysmography
- PPG (photoplethysmography)
- Exercise stress test
- Post exercise ABI, PVR, Doppler
- PWV - Pulse Wave Velocity
- MVO/SVC - Max Venous Outflow/Seg Venous Capacitance
- VRT - Venous Refilling Time
- Palmar arch exam / Allen test
- TOS - Thoracic Outlet Syndrome
- Raynaud's syndrome
- Penile function
- Reactive hyperemia
- Arteriovenous fistula
- Extracranial Doppler examinations
- And much more



## GOALS OF PHYSIOLOGICAL TESTING

- To determine if there is objective evidence of arterial disease
- To determine if the arterial disease is causing the patient's symptoms
- To predict whether sufficient perfusion exists to heal ulceration and wounds
- To assess increasing or decreasing limb perfusion during serial follow-up exams
- Quantification of venous reflux or obstruction, monitoring disease dynamics over time and treatment outcomes.

