

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
Insonation 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.

StayAtys



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ANGIOLYS: Premium peripheral vascular testing system

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:

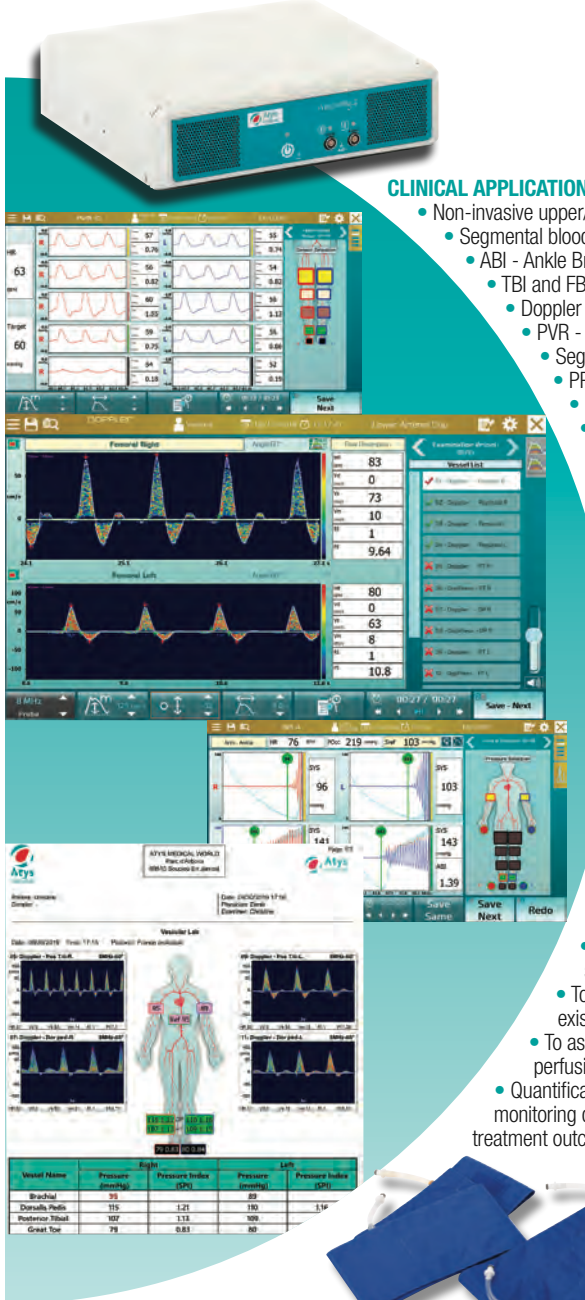
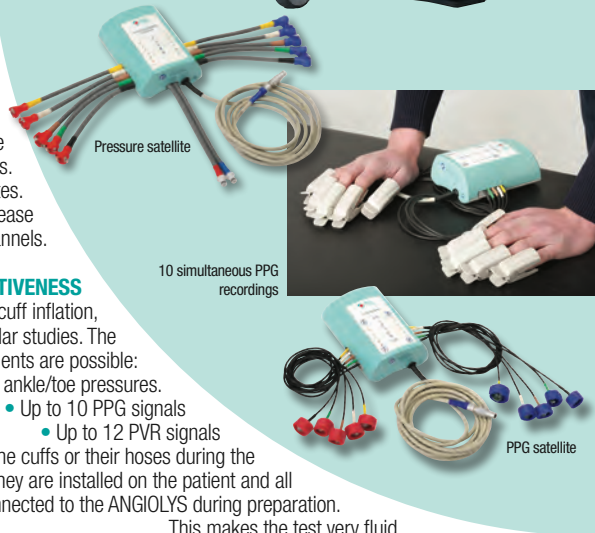
- With PPG, both arm pressures and both ankle/toe pressures.
 - Up to 10 PPG signals
 - Up to 12 PVR signals

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.

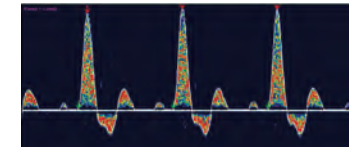
Besides, thanks to the customized and versatile protocols, all the adjustments are always properly set.

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 (photo-plethysmography)
- 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.

