

# DYNO SMART

## Advanced Manometry System



DYNO<sup>®</sup> SMART is based on an advanced acquisition board called SAU-GI that offers new advanced capabilities.

DYNO<sup>®</sup> SMART can either be based on one trolley (all-in-one system) or upon 2 units connected WIRELESS

The pressure channels are compatible both with external transducers for water perfused catheters and solid-state catheters like those manufactured by Unisensor, Gaeltec, Millar and others. The easy accessibility to the channels allows the operator to change the kind of transducers according to the need of the study.

## TROLLEY

Trolley of the all-in-one system has 4 pivot wheels, (2 with brakes) 4 shelves plus one extractable for the keyboard. The trolley is provided with an IV shaft to which peripherals such as perfusion pump, catheter withdrawer and others are fixed. The shaft can be mounted indifferently on the left side or the right side of the trolley.

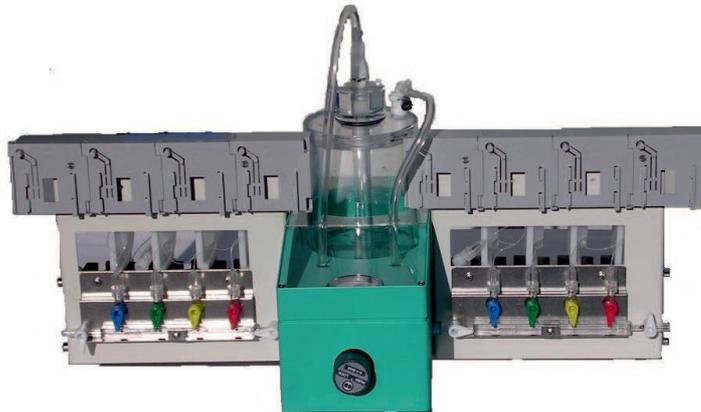


## SAU-GI acquisition module

- Acquisition Unit up to 16 channels; pressure, electromyography, pH.
- Withdrawer of the catheter with speed controlled via software or remote control;
- Infrared Remote Control, to handle the main functions;
- Remote assistance for support and software upgrading;

## Water perfusion Pump

8 channels perfusion pump with plastic capillary easily replaceable.



Air-compressor to drive the perfusion pum. Fitted with medical power supply and bacterial filters to ensure the highest level of safe for patient.



DYNO® SMART is supplied with a remote control in order to run at distance all the peripherals and the main functions of the software package DYNO3000..

## EASILY EXPANDABLE SYSTEM

A wide range of modules is available:

**Video-Manometry.** Images and short movies are captured from X-ray equipment and ultrasound and shown upon the tracings or beside them to give the possibility of a comprehensive evaluation of the digestive tube.

**Module of Neurophysiology .** It evaluates:  
Pudendal Motor Nerve Latency, Sacral Reflexes, simple EMG and quantitative EMG.

**Urodynamics:** By adding a peristaltic pump, a uroflowmeter and the urodynamic software PICO3000 the system allows performing and analysing all the urodynamic studies.

## DYNO 3000 SOFTWARE PACKAGE

DYNO 3000 is the common platform to manage all the GI motility testing and Gastroesophageal pHmetry, both stationary and ambulatory.

## WIDE RANGE OF APPLICATIONS

### Oesophageal manometry

- Stationary Pull Through of the Lower and Upper Oesophageal Sphincters.
- Rapid (continuous) Pull Through
- Vector Volume
- Sphincter relaxations
- Peristalsis of the oesophageal body.

### Gastroesophageal PHmetry

Alone or combined with long term manometry recording.

### Small Bowels Manometry

To study the Migrating Motor Complex

**Biliary Ways Manometry** to evaluate the pressure inside the Oddi's sphincter and inside the Pancreatic duct.

### Colon Manometry

It analyses the segmental contractions as well as the high-

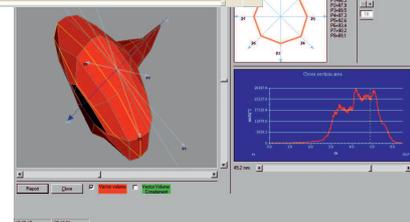
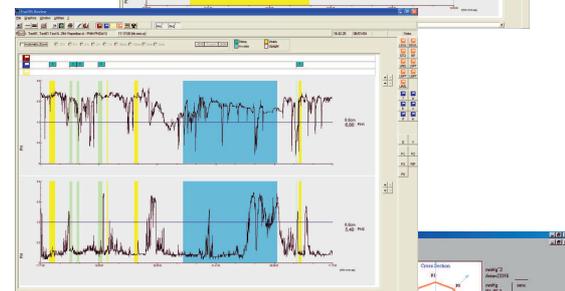
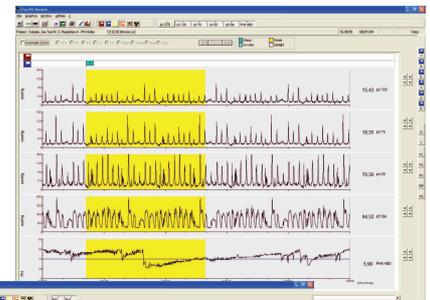
### Anorectal Manometry

- Stationary Pull through at rest and during squeezing.
- Rapid Pull through
- Vector Volume
- Sphincter Relaxation
- Recto Anal Inhibitory Reflex (RAIR)
- Rectal Compliance
- Rectal Sensations
- Push test
- Simultaneous recording of pressure and EMG.

### Software package for biofeedback training

Protocols based on 1 or 2 pressure channels, 1 or 2 EMG channels or combined channels.

**Voice: software for vocal commands and comments recording.**



## DYNO 3000: A COMPREHENSIVE SOFTWARE PACKAGE

Provided with powerful tools:

Database compatible with MS-Access®

Wide range of application protocols, built-in and/or tailor-made

Medical reports based on preset templates or tailor-made ones

Export, a software to export data, results and tracing toward MS- Office® (Excel - Power Point - Word).

## SAFE STUDIES

Thanks to the automatic data rescue the study interrupted for any reason, even in case of power failure, is resumed from the point where it was interrupted.

## THE HISTORICAL REVIEW

It allows the operator to recall the tracing acquired till that point while the recording keeps on. That gives the possibility in any moment to make sure that consistent data are being recorded.

## NETWORK CONNECTIVITY

The network connectivity of DYNO 3000 is further improved. It is possible to share the data in the network so that the operator can analyse the studies and prepare a medical report from another site even through internet connections.

## COMPATIBLE WITH SEVERAL SYSTEMS

The software package DYNO 3000 is compatible with the entire range of systems manufactured by Menfis bioMedica for GI motility testing and Gastroesophageal pHmetry such as:



### PH-DAY2

A powerful, lightweight, 2-channel pHmeter with all the analytical capabilities of the bigger systems.

### BLU RUNNER

8-channel versatile system, for long term recording of pressure, pH, pH/Impedance and EMG



## A COMPLETE RANGE OF ACCESSORIES

Menfis offers to his customers a wide range of accessories and disposable

Water perfused, multilumens, single-use catheters for GI manometry.

Re-usable solid-state catheters to record pressure and pH.

Catheters for pHmetry in glass and antimony, both single use and reusable.

Buffer solutions

Surface and needle electrodes for EMG, single-use and re-usable.

Pressure transducers single use and re-usable.

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