

# Solar<sup>™</sup> GI HRM

High-Resolution Manometry System

## GASTROENTEROLOGY

Customizable manometry system with Chicago Classification 4.0, QuickView analysis program and 3D esophageal pressure topography



# Solar™ GI High-Resolution Manometry System

Solar GI is an all-in-one system that can evolve to meet a variety of customer needs, from High-Resolution Manometry to Colonic and Antroduodenal Manometry.

- A complete and customizable HRM system in one box, available in solid-state and water-perfused configurations, for each clinical requirement, space and budget.
- Provides coverage of the whole GI tract: HR(I)M, HRPM, HRSM, HRCM and (360°) HRAM and can be easily upgradeable (e.g. conventional > high-resolution, impedance can be added).



▲ Solar GI HRM solid-state system



▲ Solar GI HRM 24-36 channel water-perfused system



▲ Solar GI HRM compact 24 channel water-perfused system

## SOLAR GI HRM HIGHLIGHTS

- Latest HRM results and Chicago Classification 4.0 criteria included
- Simultaneously measuring up to 36 pressure channels and 16 impedance channels
- Reusable and single use catheter solutions (solid-state and water-perfused)
- Event-based analysis software, where events can be resting periods, swallows, etc.
- QuickView program for fast and accurate analysis
- 3D esophageal pressure topography plots for a new perspective on the events
- 360° tube view mode (LES and anal sphincter)
- Synchronized video manometry optional (X-Ray, C-Arm, Ultrasound)

## What this means for you and your patients:

**Choice:** Variety of catheter diameters, to ensure accurate HRM measurement for different patient groups.

**Time Savings:** HRM procedures are simplified with our Bluetooth remote control and intuitive automatic analysis software.

**Reliability:** The high quality and minimal drift of our catheters make them very suitable for your prolonged investigations, such as Colonic and Antroduodenal manometry studies.

**Customizable:** Easily upgrade your system to HRAM, HRPM, HRCM, HRSM, EMG and biofeedback.

# Catheter Variety

Laborie offers you a great variety of standard and special-order catheters to choose from, offering a solution for each of your patient groups, each of your investigation types and for each budget.

- Solar GI HRM studies can be performed with either single use / reusable water-perfused catheters, or reusable solid-state catheters
- Laborie has the ability to provide customized catheters to your own design for research or for very specific investigations, on request

## Water-perfused catheters

The attractive pricing of reusable water-perfused HRM catheters allows purchase of multiple catheters. Furthermore, water-perfused catheters do not easily break or need repairs, so procedure costs can be significantly lower.

Advantages of water-perfused HRM:

- No risk of canceling studies due to catheter failure
- Reusable, water-perfused catheters are autoclaveable
- Single-use catheters do not need cleaning which saves time
- No risk of cross infections using single-use catheters

## Solid-state catheters

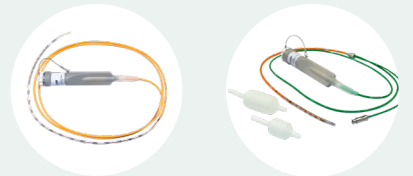
Solid state manometry has been a proven technique for over 15 years that offers rapid response to measure the true physiological signature.

Advantages of solid-state HRM:

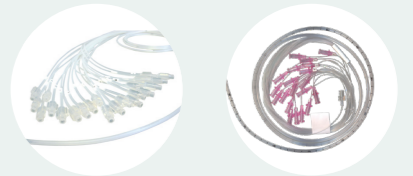
- Our catheters are easily intubated and need no study preparation, no calibration, no temperature compensation, and use only one connector for all pressures
- Measuring up to 36 pressure channels and 16 impedance channels simultaneously
- Variety of catheter diameters ranging from 6 French to 14 French to ensure accurate measurements for different patient groups.
- In addition to manual reprocessing, the catheters can also be cleaned mechanically, due to the special watertight cap



▲ Solar GI HRM 24-36 channel water-perfused system



▲ Solar GI HRM reusable solid-state catheters



▲ Solar GI HRM reusable water-perfused catheter



▲ Solar GI HRM single use water-perfused catheter

## Standard Solid-State HRM Catheters

Item No.	Investigation	# Pressures	Type of Pressures	Diameter	Impedance
K83659-E-10107-D	HRIM	36	All unidirectional	8 French	12Z
K103659-E-1545-D	HRIM	36	5 circularly (LES), 31 unidirectional	10 French	16Z
K83659-E-1820-D	HRIM	36	Spiral Arrangement	8 French	16Z
K81759-E-2017-D	HRPM	17	All unidirectional	8 French	8Z
K102459-00-1389-D	HRM	24	All unidirectional	10 French	—
K103659-00-1102-D	HRM	36	5 circularly (LES), 31 unidirectional	10 French	—

## Special Order Solid-State HRM Catheters

K62559-E-1022-D	HRIM	25	All unidirectional	6 French	12Z
K62559-00-1049-D	HRM	25	All unidirectional	6 French	—
K123659-00-1002-D	HRM	36	All Circumferential	12 French	—
K143659-L6-1375-D	HRM Colonic	36	All unidirectional (3cm spacing, L6 lumen, balloon grip)	14 French	—
K103659-00-1744-D	HRM AD	36	All unidirectional	10 French	—

# Intuitive Software

## QuickView

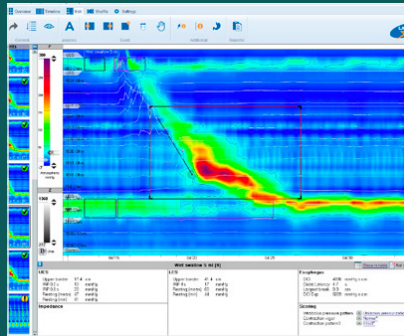
The new Solar GI HRM software has the unique QuickView software program, which has been developed to make HRM analysis faster and more accurate.

## Network and HIS-link solutions

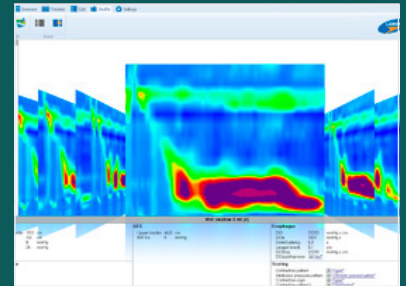
Laborie offers a broad range of system network and Hospital Information System (HIS) / Electronic Medical Record (EMR)- link options. Multiple workstations to view and analyze HRM studies in your own room, patient data import and export from the HIS/EMR, and DICOM PACS solutions offer time saving routines and paperless procedures.

### QUICKVIEW FEATURES

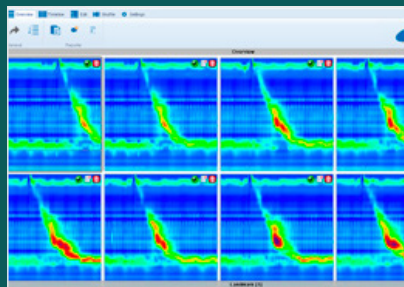
- QuickView assists you by focusing on relevant parts of the study (events) only
- For each event HRM results will be automatically calculated and marked
- Easy adjustment of marker locations, provides you with full control of the calculations
- Calculated results are shown for the selected event
- Clear overview of which events have been analyzed already and which events still need to be reviewed
- Landmarks for UES and LES can easily be adjusted for each event in case of catheter movement
- Automatic classifications can always be overridden by the user, for full control of the analysis
- Flexible and fully customizable report software (HRM Reporter)
- 3D esophageal pressure topography plots, for a new perspective on the events
- 'Shuffle mode' for easy event scrolling



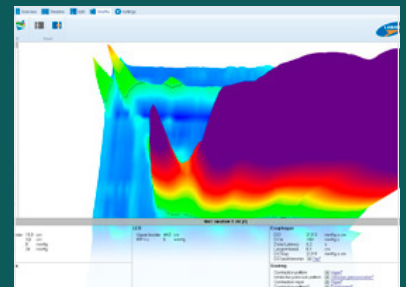
▲ Automatic classification of each swallow, and overall study classification per latest edition of the Chicago Classification 4.0



▲ QuickView shuffle mode



▲ QuickView assists you by focusing on relevant parts of the study (events) only



▲ 'Jackhammer' in 3D Esophageal Pressure Topography

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**Laborie**<sup>1</sup>

GI OFFICE

T +31 53 480 3700

E Marketing@Laborie.com  
W laborie.com



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