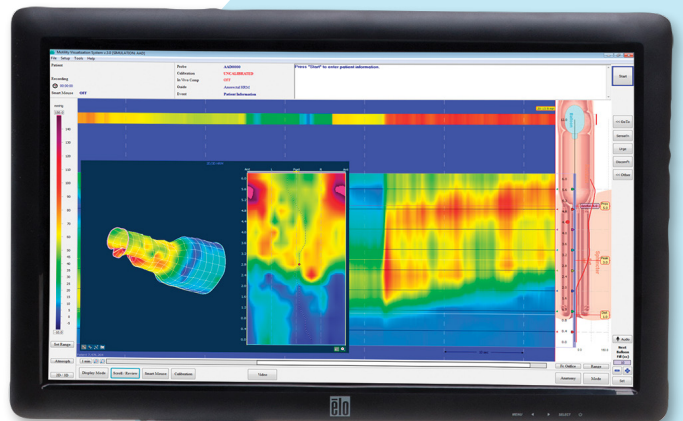


Medtronic



ManoScan™ anorectal manometry system

Anorectal
manometry with
greater clarity

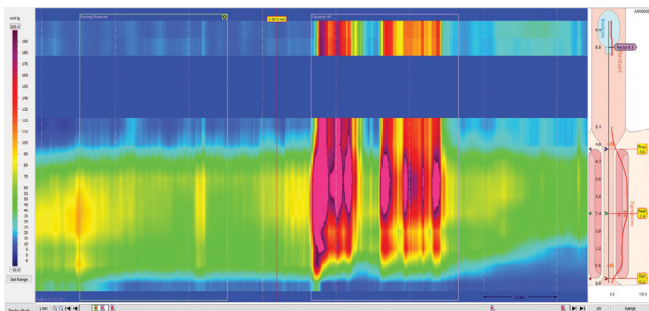


ManoScan™ anorectal manometry system

Anorectal manometry is the most widely used technique for the detection of abnormalities of sphincter function and/or rectoanal coordination.¹ High resolution manometry can record and display detailed information simultaneously from the whole anal canal and distal rectum.¹

This high-resolution anorectal manometry also helps assess and quantify normal reflex pathways including relax, squeeze, and push functions of the anal sphincter muscles and rectum.¹

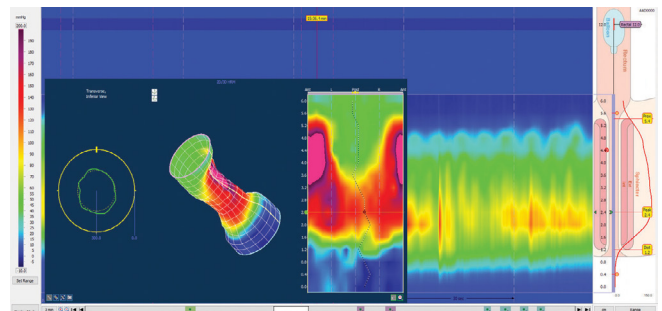
ManoScan™ AR 3D HRM system



**ManoScan™ AR 3D HRM system
asymmetric anterior pressure**

AR 3D HRM records point pressures longitudinally and radially from sensors mounted on a rigid probe with morphology represented in both two and three dimensions.¹

This three-dimensional imagery and topographical mapping enables diagnostic capabilities, such as the creation of physiological maps. Incorporating a single probe placement, the clinician can assess function and visualize symmetry of the anal canal.¹



ManoScan™ AR 3D HRM system analytics

Full-featured workstation²

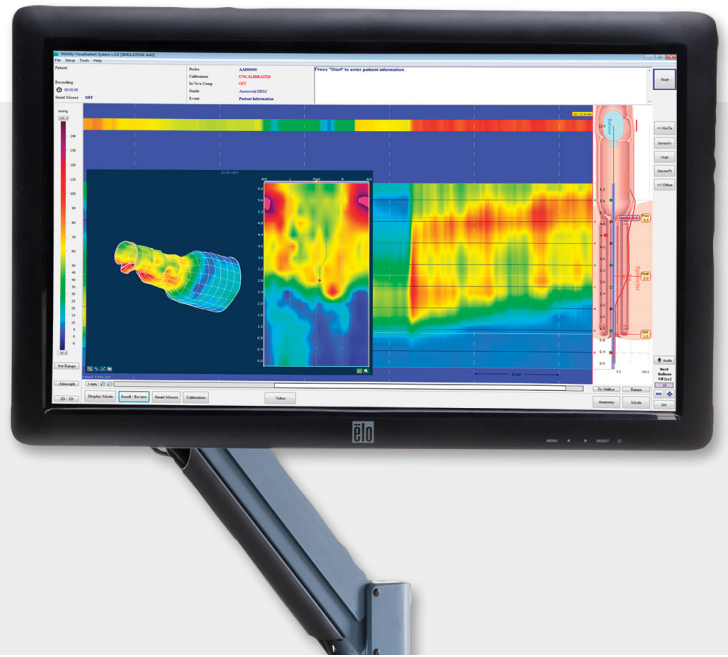
This portable workstation system features:

- LCD flat panel touchscreen with articulating arm
- Modular data acquisition controller
- Windows™-based operating system
- LAN connection and WiFi-enabled
- Integrated catheter auto-calibration system
- Large lockable wheels
- Patient isolation transformer
- High-speed quality printer

ManoView™ software

This intuitive suite of manometry study tools enables physicians to effectively identify motility disorders. The software features:

- High-resolution and conventional displays for versatile, complete motility visualization
- Remote analysis capabilities when installed on a compatible computer



ManoScan™ HRM catheters

The ManoScan™ HRM catheters:

- Integrates with ManoShield™ disposable protective sheath
- Displays high resolution data through 16 circumferential sensors by 16 longitudinal sensors generating 256 total measurement points



ManoShield™ disposable catheter sheath

- Serve as a disposable protective outer cover that is removed and discarded immediately after procedure
- Incorporate rectal compliance balloon for use with ManoShield™ AR and ManoShield™ AR 3D sheaths



Indications

The ManoScan™ system provides mapping of pressures and, optionally, impedance within tubular organs of the human gastrointestinal tract. These include the pharynx, esophagus, proximal gut (stomach/duodenum), anus and rectum.

It is used in a medical clinical setting to acquire pressures and impedance levels and store the corresponding data for visualization and analysis.

The real-time data as well as the analysis information can be viewed by a physician for diagnostic and analytic purposes.

The ManoScan™ HRM modules provide high-resolution and/or 3D (three dimensional) display of the pressure and impedance data.

The ManoScan™ CLT module provides conventional line trace mapping of the pressure data and can be used as a stand-alone system or as a module of the ManoScan™ high-resolution manometry system.

Contraindications

The use of the ManoScan™ system for anorectal manometry is contraindicated for patients with known anal stricture/ obstruction preventing insertion of the instrument.

Risks

Anorectum insertion

Potential adverse events associated with the use of the system and catheter insertion into the anorectum may include: discomfort, pain, minor bleeding, irregular heartbeat with dizziness, and perforation.

In rare instances, the catheter may curl during insertion and catheter position may move during the procedure.

Medical, endoscopic, or surgical intervention may be necessary to address any of these complications, should they occur.

The system is not compatible for use in an MRI magnetic field.



References

1. Emma V. Carrington, S. Mark Scott, Adil Bharucha, et al. Advances in the evaluation of anorectal function the International Anorectal Physiology Working Group and the International Working Group for Disorders of Gastrointestinal Motility and Function. Nature Reviews Gastroenterology & Hepatology volume 15, pages 309-323.
2. ManoScan Modular Cart System A120, A200, A300 user guide doc-2551-07 January 2021.

For more information, please refer to the user manual or visit:

[medtronic.com/covidien/en-gb/products/motility-testing/manoscan-ar-high-resolution-manometry-system.html](https://www.medtronic.com/covidien/en-gb/products/motility-testing/manoscan-ar-high-resolution-manometry-system.html)

This material is only intended for distribution in Europe. Indications, claims, and intended use may be different in other regions.

Important: Please refer to the package insert for complete instructions, contraindications, warnings and precautions.

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