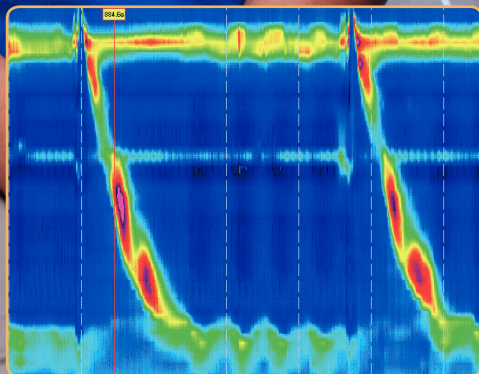


Esophageal Manometry System



ManoScan™ ESO
High-Resolution Esophageal Manometry

ManoScan™

High Resolution Manometry

Diagnosing with definition

ManoScan™ ESO

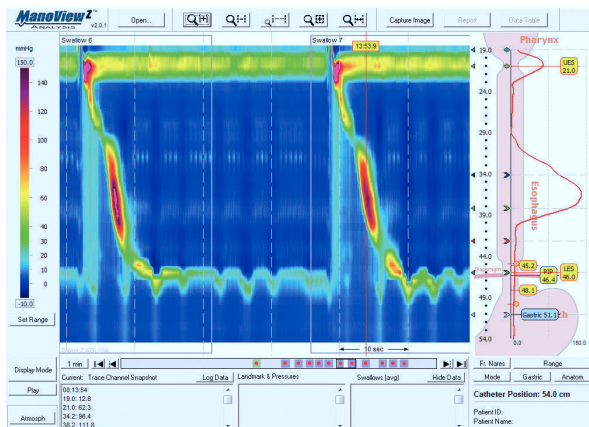
ManoScan ESO provides a complete physiological mapping of esophageal motor function, from the pharynx to the stomach, with a single placement of a catheter. This advanced diagnostic technology allows physicians to better diagnose disease states such as dysphagia, achalasia, and hiatal hernia. The procedure is easier for the clinician to perform and is more patient-friendly than conventional manometry.

- The only system with published normative clinical data²
- HRM can precisely quantify the contractions of the esophagus and its sphincters⁴
- Most studies completed in 10 minutes or less and require minimal specialized training³

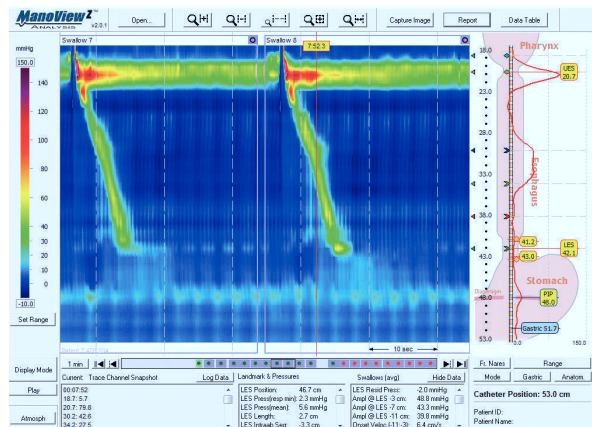
² Pandolfino JE et al Neurogastroenterol Motil 2009;21:796-806.

³ Kahrilas PJ et al. Am J Gastroenterol 2010;105:981-987.

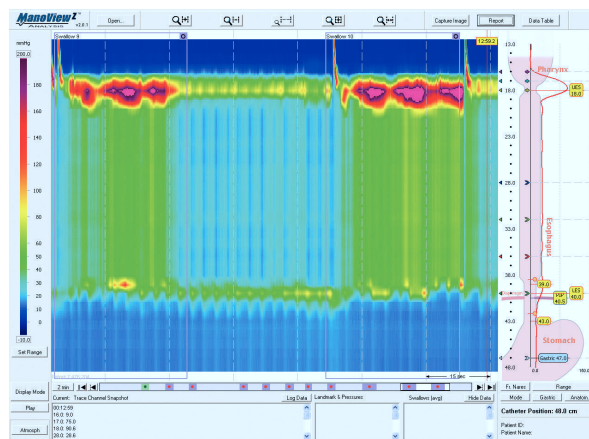
⁴ Bansal A et al. Curr Opin Gastroenterol 2010;26:344-351.



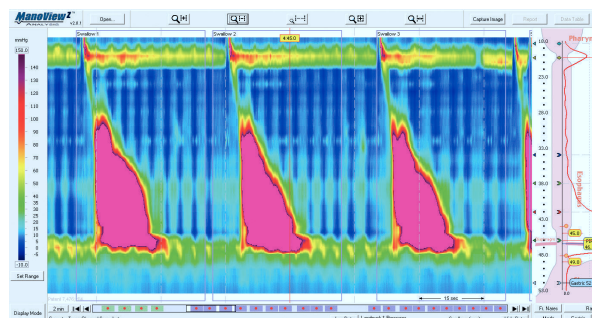
Normal



Hiatal Hernia



Achalasia Type II

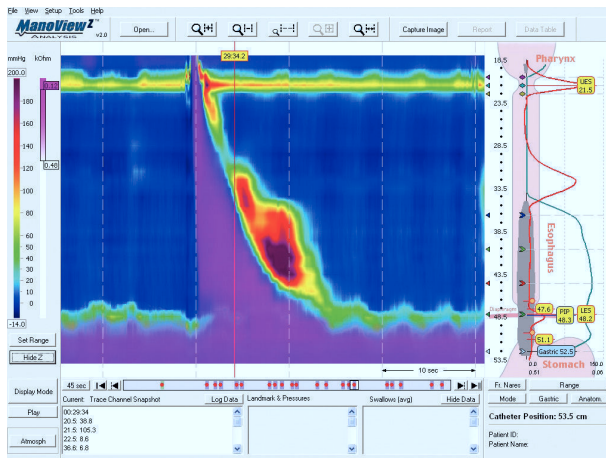


Achalasia Type III

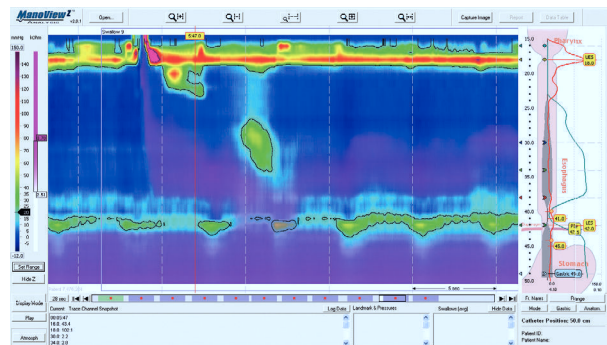
ManoScan™ ESO Z

ManoScan ESO Z provides circumferential assessment of bolus movement as well as physiological mapping of the esophageal motor function, from the pharynx to the stomach, with a single placement of the catheter.

- The incorporation of impedance measurement with HRM maps improves the ability to predict the success or failure of bolus movement through the esophagus
- This technology aids physicians in better understanding the causes of dysmotility, such as achalasia, dysphagia, and reflux



Normal Swallow with Impedance

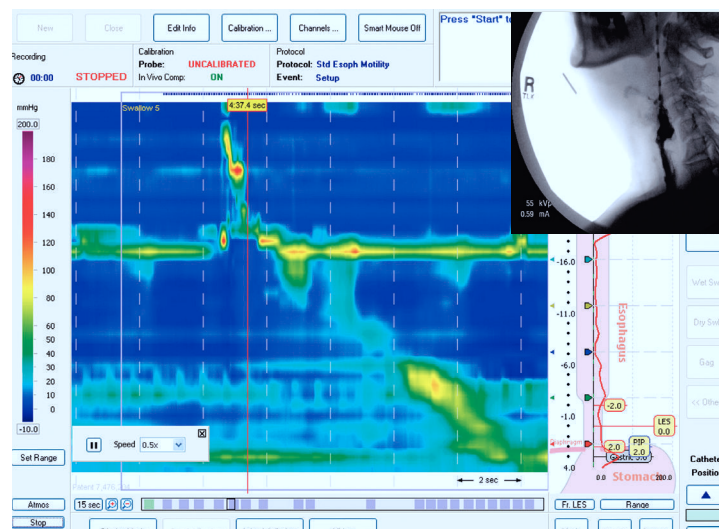


Bolus Escape

ManoScan™ V

The ManoScan video module works in conjunction with high resolution manometry to allow for synchronized, simultaneous video and pressure collection providing a previously unseen diagnostic picture. When used with ManoScan ESO, this module pairs pressure mapping with real-time video visualization of swallow coordination.

- Fluoroscopic studies can provide complementary information to HRM in order to confirm diagnosis and treatment
- Provides tremendous potential for pharyngeal biofeedback retraining in stroke victims and cancer patients



ManoScan Video

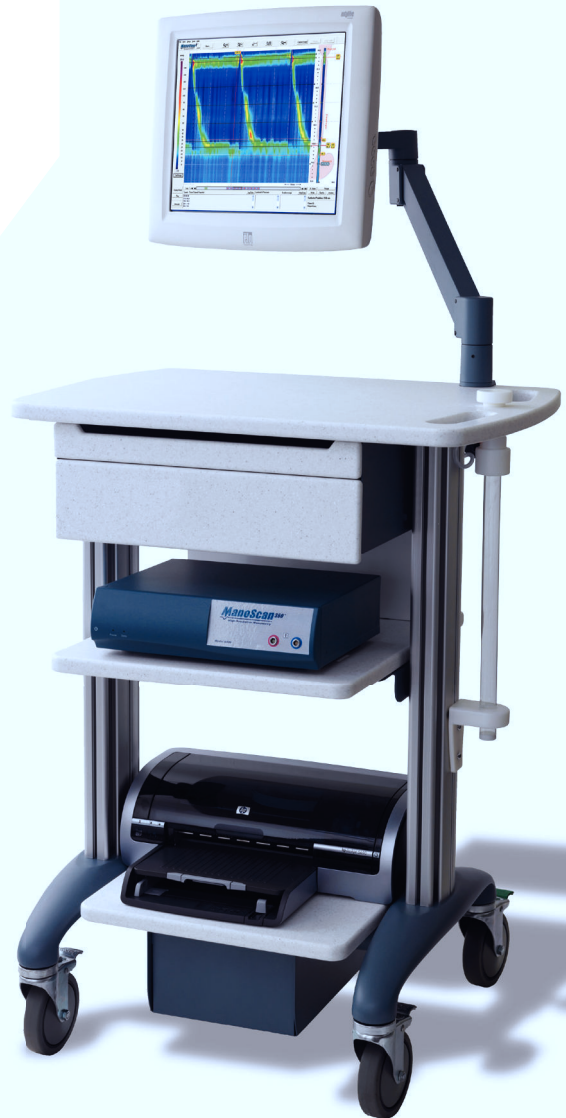
Full Featured Workstation

- Portable trolley system
- 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
- Built-in storage drawer
- Large lockable wheels
- Patient isolation transformer
- High speed quality printer

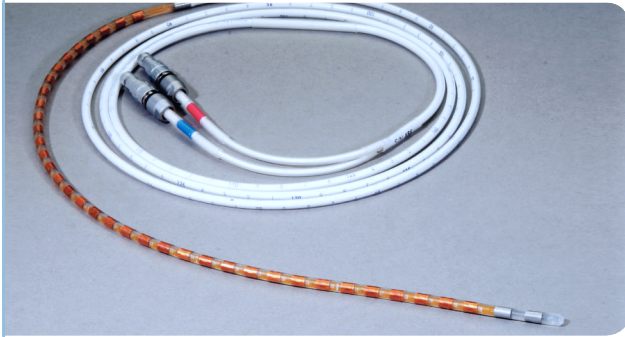
ManoView™ Software

The ManoView™ software provides an intuitive suite of manometry study tools enabling physicians to effectively identify motility disorders.

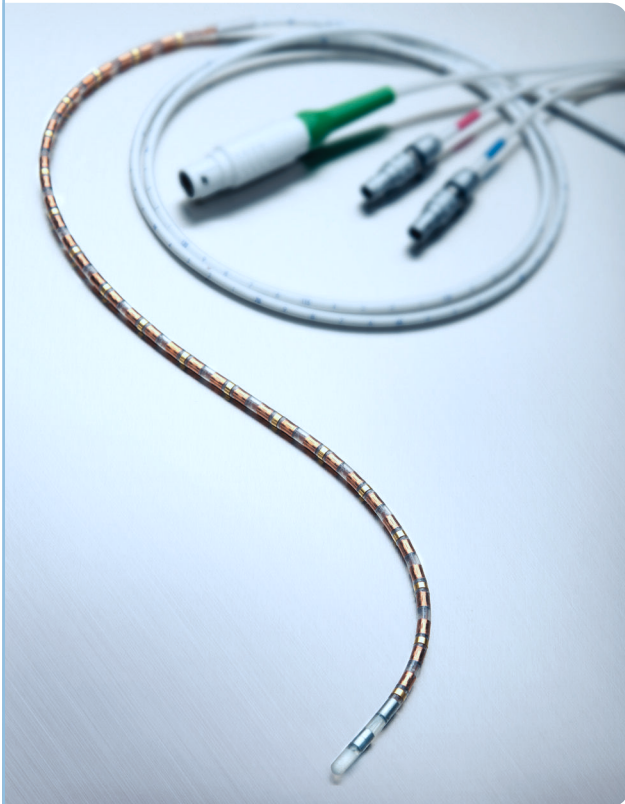
- Advanced tools yield precise measurement and comprehensive data analysis
- Anatomical profile display includes graphical pointers to identify landmarks including LES, UES, and PIP
- eSleeve™ function instantly measures and ensures sphincter barrier pressures are correctly recorded despite movement of the LES/EGJ during swallowing
- High resolution and conventional displays provide versatile and complete motility visualization
- ManoView software can be installed on any Windows®-based computer enabling clinicians to review studies remotely



ManoView™



ManoScan Catheter



ManoScan Z Catheter

ManoScan™ HRM Catheters

ManoScan HRM catheters incorporate the very latest advancements in sensing technology.

- ManoScan HRM catheters work with ManoShield disposable sanitary sheath to minimize the risk of cross-contamination
- With 36 channels providing 432 points of measurement, the ManoScan ESO catheter provides the highest resolution of any available manometry catheter

ManoScan™ Z Catheters

ManoScan Z catheters incorporate the latest advancements in sensing technology.

- All sensors are true circumferential
- 36 pressure channels spaced 1 cm apart, create a pressure image from pharynx to stomach
- 18 impedance channels display bolus transition from pharynx to stomach

ManoShield™ Disposable Catheter Sheath

Micro-thin disposable sheath design creates a protective barrier between the catheter or probe and the patient to enhance patient safety during HRM procedures.

- Creates more efficient workflow and minimizes catheter deterioration by significantly reducing need for cleaning and disinfecting between procedures
- Minimizes risk of cross-contamination, helping clinicians comply with health care patient safety requirements
- All materials are latex-free and hypo-allergenic



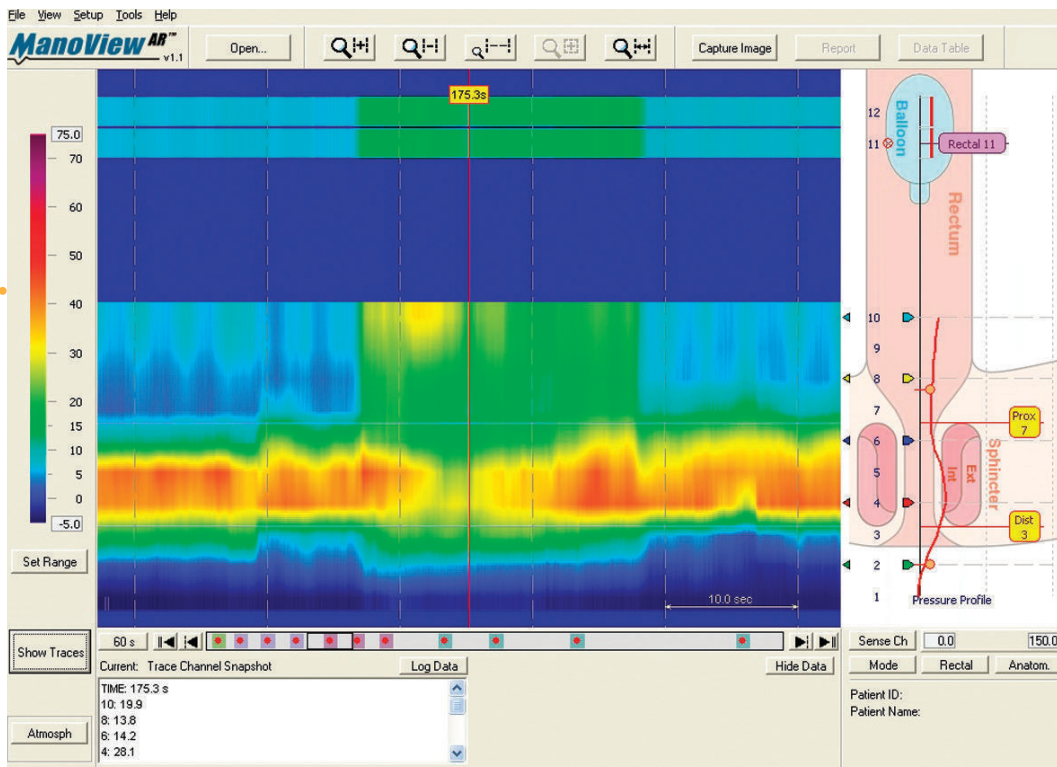
ManoShield

ManoScan™

High Resolution Manometry
Diagnosing with definition

ManoScan™ AR

ManoScan AR provides comprehensive assessment of the pressure activity of the rectum and anal sphincters with a single placement of a catheter. This advanced diagnostic technology allows physicians to evaluate patients with impaired defecation. The procedure is easy for the clinician to perform and is more patient-friendly than conventional manometry.



- Anorectal HRM can assess and quantify normal reflex pathways as well as the relax, squeeze, and bear down functions of the anal sphincter muscles and rectum
- Anorectal HRM identifies patients who can benefit from biofeedback therapy
- Preferred method for defining the functional weakness of the anal sphincter and for the diagnosis of dyssynergia and abnormal rectal sensation

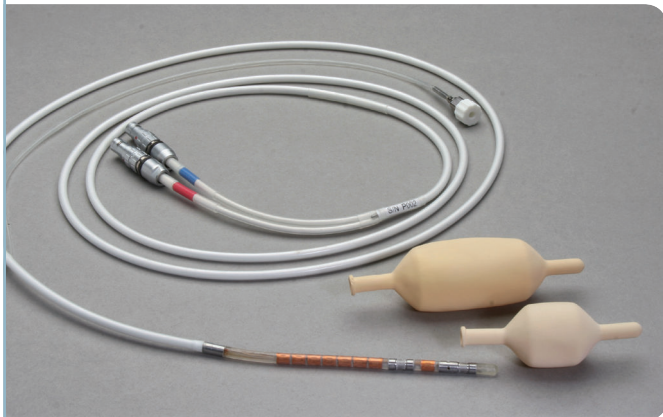
ManoScan™

Catheters and Probes

ManoScan™ HRM Catheters

ManoScan HRM catheters incorporate the very latest advancements in sensing technology.

- ManoScan HRM catheters work with the ManoShield™ disposable sheaths to minimize risk of cross-contamination
- With 12 channels providing 144 points of measurement, the ManoScan AR probe provides the highest resolution of any available manometry system
- ManoScan AR 3D probes feature 256 points of measurement generated by 16 axial x 16 circumferential sensors



ManoScan AR Catheter



ManoShield™ Disposable Catheter Sheath

Micro-thin disposable design creates a protective barrier between the catheter or probe and the patient to enhance patient safety during HRM procedures.

- Creates more efficient workflow and minimizes catheter deterioration by significantly reducing need for cleaning and disinfecting between procedures
- Minimizes risk of cross-contamination, helping clinicians comply with health care patient safety requirements
- ManoShield sheath design for anorectal procedures incorporates rectal compliance balloon



ManoShield

Diagnosing with Definition



“ManoScan has transcended the art of manometry. The diagnostic utility is greatly enhanced by the software tools and catheters. As a result, procedure time is greatly diminished. These factors result in the acquisition of high quality manometric information obtained in a manner that is user-friendly while maximizing patient comfort.”

Laura Haroian, MSN
Coordinator Specialty Procedures
Missouri Baptist Medical Center



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