THD Digital Mobile - Options

The innovative portable outpatient setting for diagnostics

Document intended for Health Care Professionals only.

THD Digital Mobile

The innovative portable outpatient setting for diagnostics

CHARACTERISTICS

ERGONOMIC

THD® Digital Mobile offers the best ergonomic position for the provider. Its size allows comfortable exams even in smaller rooms. THD® Digital Mobile is a lightweight and portable option between outpatient, OR and home visits.

FAST

Each exam can be done in under 10 minutes. THD® Digital Mobile is ready for use and doesn't require previous calibration of the single instruments. Current services and pathways can require the patient to make 3 or more visits to the hospital to complete the diagnostic procedures and subsequent interpretations. THD® Digital Mobile allows the doctor to make a diagnosis and an evaluation at the very first consultation.

EASY

Procedures can be performed as easily in the lateral decubitus, prone, or dorsal lithotomy position. The entire exam is user-friendly both for the clinician and the patient.

COST EFFECTIVE

THD® Digital Mobile is a self-contained, all-in-one modular platform which can connect to different plug & play peripherals to perform most diagnostic examinations utilizing the same hardware. One system can now be used across multiple departments and sites, resulting in reduced patient pathway costs.

THD Digital Mobile

Available configurations

DIGITAL VIDEO ANOSCOPY

Anoscopy is an examination that makes it possible to diagnose pathologies of the anal area and the lower part of the rectum.

The evolution of the examination under vision with images and videos allows the clinician to objectify and highlight the presence of any anorectal diseases such as hemorrhoids, anal fissures and other diseases that cause rectal bleeding, including cancer of the lower rectum and anus.

THD Digital Mobile

ANORECTAL MANOMETRY

Clinical Anorectal Manometry is directed at overcoming many of the alternative technology issues, because it is directly accessible to the physician, and not simply interpreted by an external clinician.
Correlating manometric data to patients' symptoms is simple, rapid and easily repeatable, thus becoming an integral part of the diagnostic pathway and allowing for monitoring the effects of rehabilitation or surgery.

THD Digital Mobile Manometry

ENDO ANAL ULTRASOUND

Transanal ultrasound is a fundamental exam for the anatomical and functional evaluation of the sphincter complex and for the diagnosis of numerous anorectal diseases. Endoanal ultrasound has in fact numerous clinical recommendations and is particularly useful for the diagnosis and the correct evaluation of faecal incontinence, obstructed defecation syndrome, abdominal pelvic dyssynergia, fistulas, anal abscesses and neoplasms of the anal canal.

THD Digital Mobile Ecography

ANORECTAL MANOMETRY & ENDO ANAL ULTRASOUND

An all-in-one portable diagnostic instrument which allows performing:

- **Anorectal manometry exams**: used to evaluate problems in the functioning of anal sphincters.
- **EAUS exam**: a 360° view of the pelvic floor and of the sphincter muscles with a high level of detail.

THD Digital Mobile Advanced

THD Digital Mobile

Digital video anoscopy

CHARACTERISTICS AND ADVANTAGES

THD® Digital Mobile is a compact portable tool that combines a state-of-the-art laptop with a camera (THD® Mini CAM HD). The evolution of the examination under vision with images and videos allows the clinician to objectify and highlight the presence of any anorectal diseases.

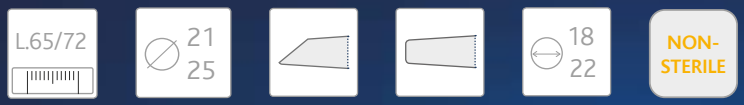
Images and videos can be displayed in parallel on the same display allowing a direct comparison of the conditions present with respect to previous examinations. Images and videos are obtained with THD® ProctoSoftware: **medical device certified by the Notified Body TUV Rheinland Italy (CE 1936)**.

Reporting with video anoscopy through certified medical software allows reliable reproduction of anatomy and pathologies.

The THD® N-Ano Digital line of anoscopes, available in multiple configurations, complement THD® Digital Mobile by eliminating the need for a light source integrated into the anoscope and allowing for more eco-friendly disposal.

THD® N-Ano Digital

Medical device with compact camera



The **THD® N-Ano Digital** anoscope is a medical device indicated for HD video anoscopy of the anorectal canal. It is a practical and lightweight disposable device, which features a **THD® Mini Cam HD** camera slide with built-in lighting, to be used for HD video anoscopy.

In the package there is an antiseptic protective sleeve for the protection of THD® Mini Cam HD and a disposable activation card for use with THD® Procto Software. Available in two sizes (N-Ano and N-Ano Maxi) each of which can have a **TRUNCATED** or **BEVELLED** end.

STERILITY	TIP	OP. LENGTH	DIAMETER	LUMEN	REFERENCE
NON-STERILE	BEVELLED	65 mm	21 mm	18 mm	800314
NON-STERILE	TRUNCATED	65 mm	21 mm	18 mm	800313
NON-STERILE	BEVELLED	72 mm	25 mm	22 mm	800316
NON-STERILE	TRUNCATED	72 mm	25 mm	22 mm	800315

THD Digital Mobile Manometry

The portable solution for Anorectal Manometry

CHARACTERISTICS AND ADVANTAGES

THD® Digital Mobile Manometry offers the specialist all the features and advantages of THD® Digital Mobile, with the addition of **a built-in diagnostic module for performing anorectal manometry, consisting of a mobile workstation, a camera (THD® Mini CAM HD) and THD® Anopress: a compact anorectal manometer**.

THD® Anopress allows the user to correlate the collected data to the patient's symptoms in a simple and fast way, making standardised and replicable pressure values immediately available.

In this way, the specialist performing the exam can immediately evaluate the results and associate them to different pathological conditions. The association between the results of the manometry and specific colorectal diseases are based on the interpretation of a curve which describes the sphincter activity at different times.

THD® Anopress portable system includes an anorectal manometer and disposable probes specially developed for use with the THD® Anopress manometer.

THD Anopress

Simple, rapid and easy. Repeatable for an immediate and effective interpretation

BENEFITS

ACCURATE
Values are replicable and standardized. Device is self-calibrating for a precise, continuous pressure measurement of the entire length of the anal canal. Real time mean pressure of sphincter complex, RAIR and rectal sensation are immediately available.

FAST
Each clinician can perform the test themselves with an extremely short learning curve and no technical difficulties. Comfortable exam lasting between 5 to 10 minutes.

EASY
Results are immediately available for interpretation and symptoms matching. Functional diagnosis and distinction between muscolar activity is intuitive and accurate.

COST EFFECTIVE
Portability allows the use in any location, from the out-patient clinic to the bedside. Disposable inexpensive probes have the longest shelf life with no need of maintenance.

THD PressProbe & THD SensyProbe

Clinical Anorectal Manometry probes

The **THD® Anopress** system includes single-use probes, specially designed to be used in combination with the THD® Anopress manometer:

- **THD® PressProbe**: for the evaluation of the average sphincter tone. The THD® PressProbe has an ergonomic handle and an atraumatic profile to minimise patient discomfort.
- **THD® SensyProbe**: for the evaluation of the average sphincter tone, the rectoanal inhibitory reflex (RAIR) and rectal sensitivity. The THD® SensyProbe has an ergonomic handle and an atraumatic profile to minimise patient discomfort.

WHICH DATA COME FROM A CLINICAL MANOMETRY

1	**ANAL WINK REFLEX:**	Initial pressure peak represents the anal wink reflex, or anal-cutaneous reflex when the physician inserts the probe in the anal canal
2	**RESTING:**	The resting tone is determined by the intrinsic tension of the sphincters, mainly by the IAS
	Average:	Average resting pressure (mmHg)
3	**SQUEEZE:**	During the squeeze stage, the surgeon asks the patient to contract the sphincters. Pressure in this phase is mainly due to EAS contraction
	Max:	Maximum pressure during the interval (mmHg)
	Average:	Average pressure during the interval (mmHg)
	Max/Rest.:	Ratio between the maximum pressure of the interval and the average resting pressure
	% Avg./Max:	Percentage ratio between the average pressure and the maximum pressure
	Endurance:	Calculated as the time between the maximum pressure and the pressure value after falling 50% compared to the difference of the maximum pressure and resting (sec)
4	**COUGH REFLEX:**	Describes a rapid peak with a likewise rapid drop, reflects the involuntary EAS activation
5	**STRAIN:**	During the strain the normal manometric wave has a minimal transitory increase and then decreases before stabilizing at values close to or lower than the resting pressure
	Average:	Average pressure during strain (mmHg)
	% Avg./Res. Avg.:	Percent difference between average pressure during strain and average pressure at rest
6	**RAIR:**	The RectoAnal Inhibitory Reflex is present when a pressure decrease is visible just after a rapid (60 ml) insufflation of the sensyprobe rectal balloon
	RECTAL SENSATION:	First sensation of defecation, desire or urgency detected following progressive insufflation of the THD® SensyProbe rectal balloon

THD Digital Mobile Ecography

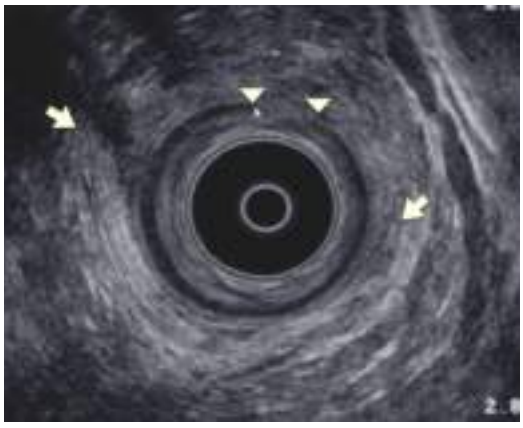
The portable solution for endo anal ultrasound

CHARACTERISTICS AND ADVANTAGES

THD® Digital Mobile Ecography offers the specialist all the features and advantages of THD® Digital Mobile, with the addition of a bulit-in diagnostic module for performing endoanal ultrasound, consisting of a mobile workstation, a camera (THD Mini CAM HD) and THD® EAUS Probe: a USB and 360° ultrasound probe.

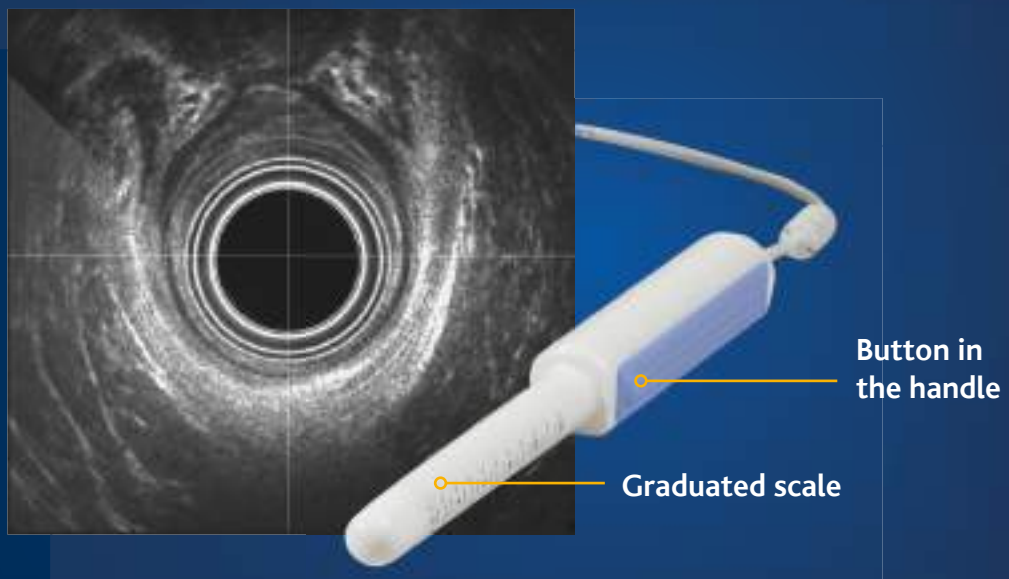
The THD® EAUS Probe allows accurate viewing of the pelvic floor and sphincter muscles, enabling fundamental anatomical and functional evaluations for the subsequent treatment of numerous diseases, including:

- faecal incontinence
- obstructed defecation syndrome
- anal fistulas
- anal abscesses
- obstetric lesions
- Crohn's disease



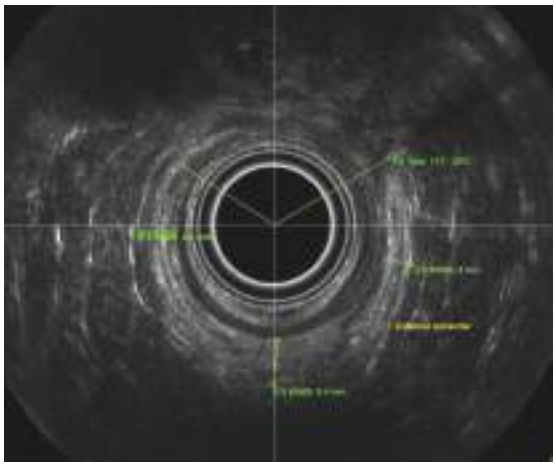
THD EAUS Probe

The gold standard imaging for the morphological assessment of the anal sphincters



CHARACTERISTICS

- Two dimensional 360 degrees rotating array of ultrasonic crystals
- Frequency average of 12 MHz, tuning from 10 to 15 MHz
- Full control of brightness, contrast, depth, frequency, gain
- Linear, angle and volume measurement
- Intra-operative use
- USB connection



SPECIFICATIONS

THD Digital Mobile

Code THD800306

THD Digital Mobile Manometry

Code THD800307

THD Digital Mobile Ecography

Code THD800308

THD Digital Mobile Advanced

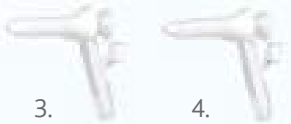
Code THD800309

THD N-Ano Digital Maxi

1) THD800315
2) THD800316

THD N-Ano Digital Mini

3) THD800313
4) THD800314



THD Anopress

Code 800140-1
Includes Portable system for Anorectal Manometry

THD PressProbe

Code 800150-50
Includes THD package of 50 THD® PressProbe probes in a single plastic pouch

THD SensyProbe

Code 800192-15
Includes THD pack of 15 THD® SensyProbe, syringes and 3-way stopcocks in a single plastic envelope

THD EAUS Probe

Code 800179-1
Includes USB Endoanal Ultrasound Probe

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