Technical Data Sheet

THD Digital Mobile

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THD Digital Mobile

Workstation

THD Digital Mobile is a Portable Integrated Proctology System that provides the clinician with a unique, modular and expandable diagnostic system to perform major diagnostic tasks such as anorectal manometry, transanal ultrasound and digital video anoscopy.

General description

The **THD Digital Mobile** hardware is designed to meet the needs for power and versatility. Its small size makes it a portable and compact device. Its processor fully meets the demand for computing and processing power, as well as having ample storage space and a graphics card to support high-definition image and video processing.

	THD DIGITAL MOBILE
Height	23 mm
Width	360 mm
Depth	234 mm
Weight (without packaging)	1.93 Kg

TECHNICAL FEATURES	
Hardware (processor)	HP Workstation (Intel Core i7)
RAM Memory	16 GB
Operating system	MS Windows 11 Pro
Hard drive	SSD 512 GB + SSD 2 TB
Screen	15.6" - HD 16:9 (1920x1080)
Graphics card	Nvidia T600
Ports	3 USB 3.2 Gen1 Type A, 1 USB 3.2 Gen 1 Type C, 1 microphone + audio input, HDMI 1.4, LAN RJ45
Connection	LAN Gigabyte Ethernet 10/100/1000 - Wireless 6 – Bluetooth 5.3, NFC
Smart Card Reader	SC
Power supply	110V/240V – 50/60 Hz
Battery life	Up to 18 h

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THD Procto Software

THD Procto Software is a modular software suite that enables the recording of clinical data such as patient records, manometric examinations, images, videos and ultrasound scans of the anorectal canal.

THD Procto Software interfaces with specially designed and manufactured medical devices to make the user experience unique.

THD PROCTO SOFTWARE MODULES
Patient database
Reporting
User management
Digital anoscopy
Anorectal manometry
Transanal ultrasound

THD Procto Software is a Class IIA Medical Device certified CE 0051 according to MDR 2017/745 and FDA Cleared (K211623)

The modules provided with THD Procto Software are managed by license, for customization of diagnostic needs.

PATIENTS
Secure and encrypted management of examinations.

REPORTS
Detailed and customizable report form.

USER
Advanced patient management service for all users.

ADMINISTRATOR
User profile management service and device configuration.

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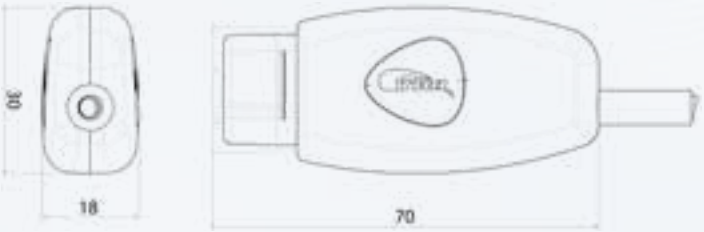
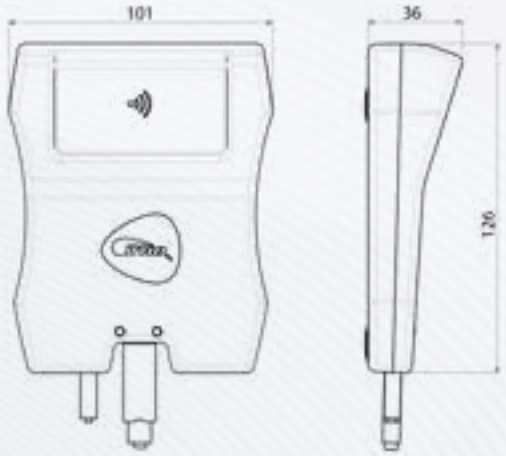
Digital video anoscopy - *THD Digital MiniCam*

THD Digital MiniCam is a medical device that interfaces with THD Procto Software via the digital anoscopy module. **THD Digital MiniCam** is a small digital videocamera that can connect with the THD anoscopes described below.

It has been specifically designed to offer maximum diagnostic and operational versatility and provide high resolution in diagnosis through video and photos. The videocamera can capture high-resolution images and video and illuminate the diagnostic field with cool, stable, high-brightness LED light. The magnification and compactness of the videocamera make for comfortable and immersive user experience.



	THD DIGITAL MINICAM
Height	18 mm
Width	30 mm
Depth	70 mm
Weight (without packaging)	170 g



	CARD READER
Height	126 mm
Width	101 mm
Depth	36 mm
Weight (without packaging)	120 g

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THD Digital MiniCam uses a special reader to read the cards included in the package of each compatible anoscope. Reading these cards allows the software to set functional parameters for the different device models that will be used in diagnostics.

TECHNICAL FEATURES	
Connectivity	USB 2.0 – TYPE A
Power supply (USB)	2.5 W
Maximum current (USB)	500 mA
Maximum consumption (USB)	200 mA at 5 VDC
Lighting	Integrated with high brightness LED, adjustable
Magnification	10x (variable depending on diagnostic device)
Insulation (Category)	II for the portable hardware from which the power is sourced
Hazard class	I (MDR2017/745)
Connectable devices	THD N-Ano Digital (Truncated/Bevelled)
Waterproofness	IPX0 (IEC/EN 60529)
Use in the presence of flammable conditions	NO
Allowed environmental conditions (T°C;Rh%)	-10°C - 30°C 20-80% Rh
Exposure control	Automatic
Gain control	Automatic
White balance	Automatic
Frame rate	30 FPS
Troubleshooting of the THD Digital MiniCam	2K
Magnification	10x

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THD Digital MiniCam integrated with THD Digital Mobile allows for high-resolution images and video while maintaining a high level of detail. Through the digital anoscopy module, the user can adjust image acquisition parameters with immediate ease, ensuring professional results in any situation.

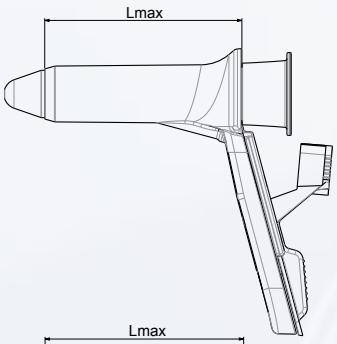
The digital anoscopy module allows easy selection of the disposable device in use, ensuring rapid configuration of settings and smooth integration with medical devices. The intuitive interface allows the operator to monitor and manage settings in real time, optimizing parameters of:

- Brightness
- Contrast
- Light intensity

The videocamera is compatible with **THD N-Ano Digital** disposable devices in different configurations:

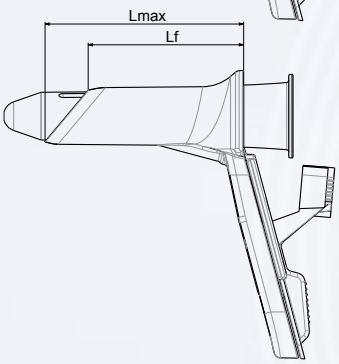
Truncated

	THD N-ANO	THD N-ANO MAXI
Internal lumen	19 mm	23 mm
External diameter	22 mm	26 mm
Device length	91 mm	91 mm



Bevelled

	THD N-ANO	THD N-ANO MAXI
Internal lumen	19 mm	23 mm
External diameter	22 mm	26 mm
Device length	91 mm	91 mm
Min. bevel length	75 mm	72 mm



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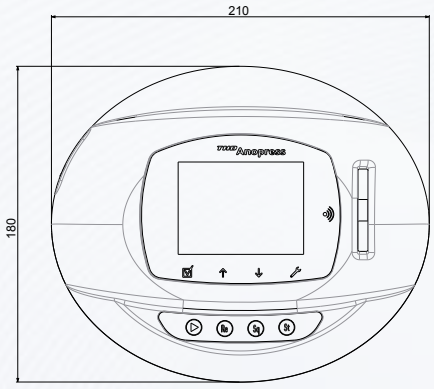
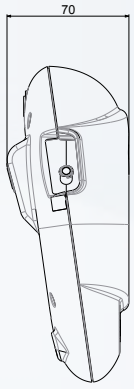
Anorectal manometry - *THD Anopress*

THD Anopress is a medical device that interfaces with THD Procto Software via the anorectal manometry module.

THD Anopress is an innovative portable system that allows anorectal manometry to be performed in a simple and standardized way by detecting anorectal canal pressure data at different stages: Resting, Squeeze and Strain. **THD Anopress** allows a brief and essential, yet extremely accurate, analysis of pressures related to resting conditions, pelvic floor muscle activation and sphincter activation, enabling simple and instantaneous interpretation of the data collected.

	THD ANOPRESS
Height	70 mm
Width	210 mm
Depth	180 mm
Weight	620 g





THD Anopress is a Class IIA Medical Device certified CE 0051 according to MDR 2017/745 and FDA Cleared

Practical and simple to use, compact, lightweight and easily transportable, **THD Anopress** is suitable for immediate use in outpatient and hospital settings. It is equipped with a color display that allows pressure values and the related graph to be viewed adirectly on the device. Management of the examination steps is easily done by means of buttons on the front. Operation is by means of batteries that provide excellent autonomy.

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THD Anopress is a device that can independently manage the calibration of the probes connected to it thanks to the fully automated system that requires no initial calibration and the activation of which takes only a few seconds.

TECHNICAL FEATURES		
Device	Voltage	7.2 V internal batteries
	Maximum absorption	1 A (while charging)
Battery charge	Voltage	T5889ST: 100-240 VAC; 50/60 Hz
	Absorption	T5889ST (0.5 A)
	Output	12 VDC, T5889ST (1 A)
Overcurrent protection	Internal flow	3000 mA self-restoring
Insulation	Class I	Internal flow (while using), II (during charging)
Device type	Hazard class	IIa (according to MDR2017/745)
Protection against contacts	Type	BF (according to IEC/EN 60601-1)
Protection against penetration of substances	IP rating	X0 (according to IEC/EN 60529)
Use in the presence of flammable gases	NO	
Conditions of use	Temperature: from 10°C to 30°C, Rh max. 70% at +30°C	
Display	3.5", colour TFT, 320x240	
Autonomy	Up to 5 hours of autonomy	
Bluetooth	4.2	

THD Anopress can be connected to THD Digital Mobile via Bluetooth connection. This makes it possible to record the examination on the anorectal manometry module of THD Procto Software. The anorectal manometry module makes it possible to record and edit graphs derived from the collected data, manage patient records, and compare examinations in a standardized manner.

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The software has the ability to adjust image acquisition parameters, manage graphs collected during acquisition, and provide a diagnostic and summary report of the examination.
THD Anopress is compatible with the **THD PressProbe** and **THD SensyProbe** disposable probes.

	THD PRESSPROBE
Diameter	16 mm
Total probe length	165 mm
Active part length	50 mm
Power supply line length	1000 mm
Weight	23 g
Connection with THD Anopress	Luer Lock type 1

THD PressProbe is a Class IIA Medical Device certified CE 0051 according to MDR 2017/745 and FDA Cleared

	THD SENSYPROBE
Membrane diameter	16 mm
Probe length	165 mm
Sensitive area length	50 mm
Line length	1000 mm
Weight	33 g
Connection with THD Anopress	Luer Lock type 1
Connection with THD SensyProbe Accessory	Luer Lock type 2

THD SensyProbe is a Class IIA Medical Device certified CE 0051 according to MDR 2017/745 and FDA Cleared

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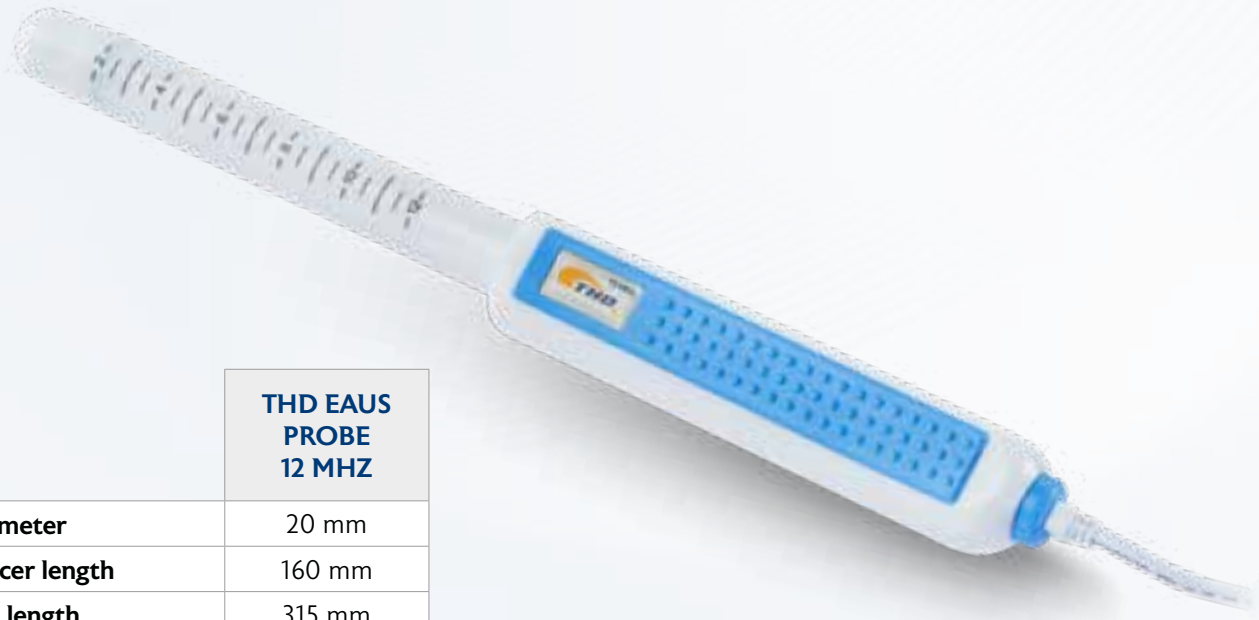
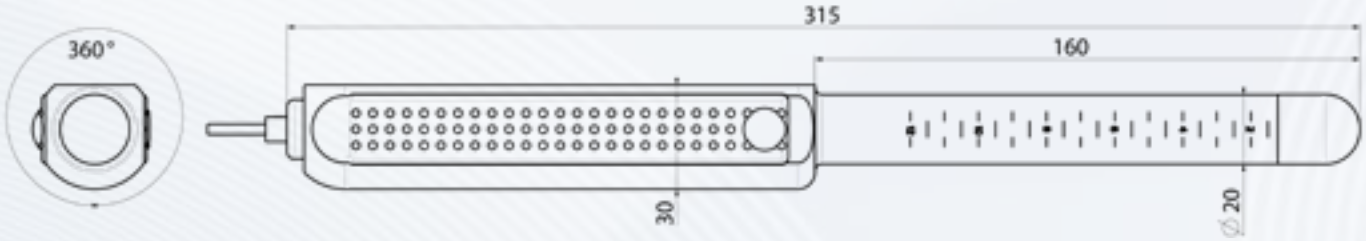
Transanal ultrasound - *THD EAUS Probe 12 MHz*

THD EAUS Probe 12 MHz is a medical device that enables transanal ultrasound imaging using the ultrasound module of THD Procto Software. **THD EAUS Probe 12 MHz** is an ultrasound probe with rotating crystals that allow linear, angular, and volumetric measurements and the acquisition of 360° images.



	THD EAUS PROBE 12 MHZ
Diameter	20 mm
Introducer length	160 mm
Total length	315 mm
Handle diameter	30 mm
Graduated scale	0 to 120 mm
USB 2.0 cable length	180 cm
Weight	300 g



The probe is compact, easy to manage, lightweight and is accessorized with an activation button built into the handle. The graduated scale in millimeters, shown on the outer body of the device, allows easy identification of depth positioning. The rotating crystal is integrated into the probe body, with no moving parts in contact with the patient.

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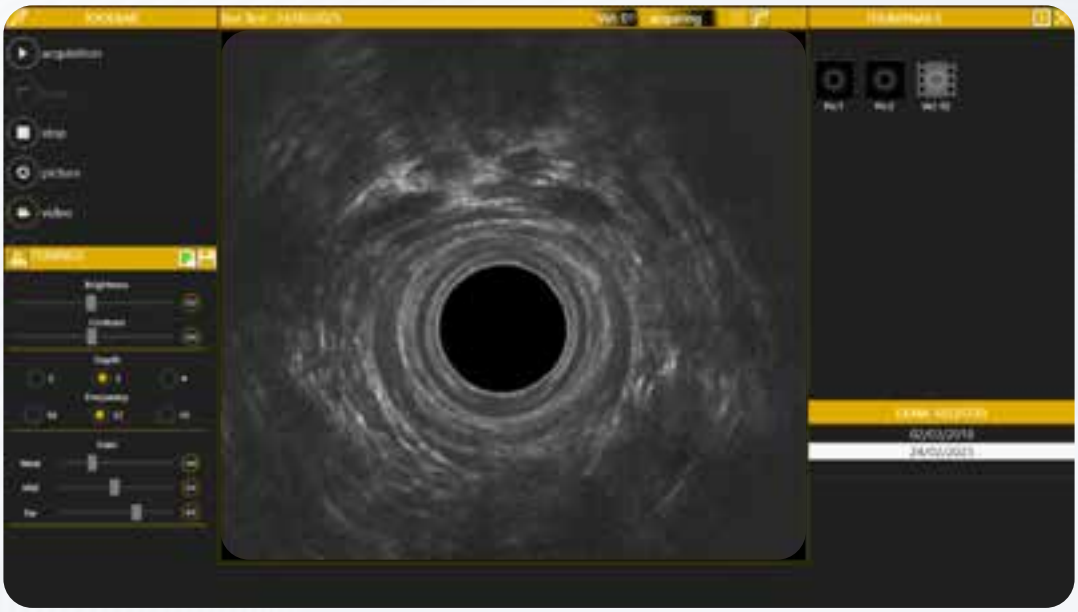
TECHNICAL FEATURES	
Hazard class	MDD (93/42/EEC) Class IIa
Certifications	CE 0086
Connectivity	USB Port Type-A (2.0)
Image mode	B-Mode (Brightness Mode)
Transducer (band)	Rotary, 12 Mhz single element (10 Mhz to 15 Mhz)
Sector	360-degree acquisition
Gray scale	256 shades of gray (8 bits)
Selectable depth	From 2.0 cm to 4.0 cm
Maximum depth	6.0 cm
Focal point	Fixed focal length, 1.6 cm
Power requirements	5.0 V DC, ± 5% at 500 mA (max) 2.5 watts (max) from USB port
Operating environment (T°C, H%)	10°C to 35°C, 20% to 80% non-condensing
Storage environment	-10°C to 50°C

The **THD Probe EAUS 12 MHz** in combination with THD Digital Mobile makes it possible to map the morphology of the sphincter complex and determine the presence and extent of any problems in the region.



The Ultrasound module of THD Procto Software allows comparisons to be made between images and video, with the ability to adjust acquisition parameters, thus enabling critical and objective comparison. The results can then be reported and printed via the appropriate form.

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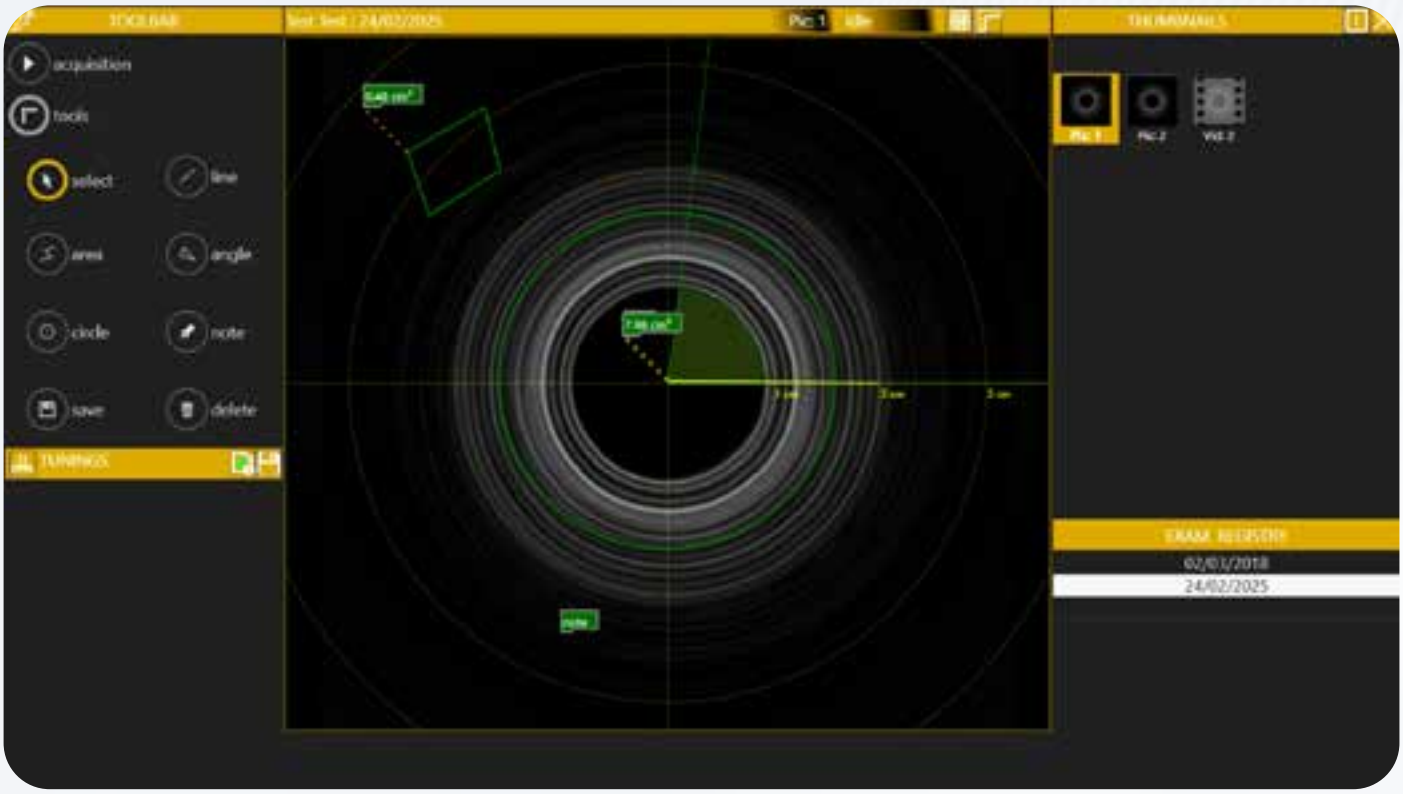
The instrument interface offers a number of functions designed to make length, area, and angle measurements directly on images. Simplifying visual analysis and ensuring accurate results.



THD Procto Software has a dedicated panel for adjusting image display parameters, allowing the user to optimize visual quality according to his or her needs.

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THD Digital Mobile

Product illustration

THD Digital Mobile

- High-performance HP workstation
- Compact and portable system
- THD Procto Software supplied pre-installed
- Modular and intuitive software suite
- THD Procto Software Certification CE 0051 MDR 2017/475 and FDA Cleared (K211623)

THD Digital MiniCam

- High resolution video camera (2K)
- Integrated cool and stable LED light
- 10x magnification
- Dedicated THD Procto Software module (Digital Anoscopy)
- USB 2.0 connection

THD Anopress

- Standardization of manometric examination
- Compact and versatile device
- Dedicated THD Procto Software module (Anorectal manometry)
- Compatibility with THD PressProbe and THD SensyProbe
- Certification CE 0051 MDR 2017/475 and FDA Cleared

THD EAUS Probe 12 MHz

- Compact, easy to manage and lightweight probe
- Ultrasonic crystal for image acquisition
- 360° rotating probe
- Dedicated THD Procto Software module (Transanal ultrasound)
- USB connection (2.0)

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Product configuration

	THD PROCTO SOFTWARE	THD DIGITAL MINICAM	THD ANOPRESS	THD EAUS PROBE 12 MHZ	CODE
THD Digital Mobile	✓	✓			800306
THD Digital Mobile Manometry Light	✓		✓		800321
THD Digital Mobile Ecography Light	✓			✓	800322
THD Digital Mobile Manometry	✓	✓	✓		800307
THD Digital Mobile OASI	✓		✓	✓	800323
THD Digital Mobile Ecography	✓	✓		✓	800308
THD Digital Mobile Advanced	✓	✓	✓	✓	800309

THD Procto Software

	CODE	EMDN
THD Procto Software	760004	Z12020692

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THD Digital Mobile

Digital video anoscopy

		CODE	EMDN	PIECES PER PACK
THD Digital MiniCam		800305	Z12020405	
THD N-Ano Digital	Truncated	800313	G02060301	50
	Bevelled	800314	G02060301	50
THD N-Ano Digital Maxi	Truncated	800315	G02060301	50
	Bevelled	800316	G02060301	50

Anorectal manometry

	CODE	EMDN	PIECES PER PACK
THD Anopress	800140	Z120701	
THD PressProbe	800147	G02060305	10
THD PressProbe	800150	G02060305	50
THD SensyProbe	800192	G02060305	15

Transanal ultrasound

	CODE	EMDN
THD EAUS Probe 12 MHz	800179	Z1104020201

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THD S.p.A.
Via per Carpi 15/B, 42015, Correggio (RE), Italy
Tel +39 0522 634311 - www.thdlab.com

REF. 800306 - 800307 - 800308 - 800309 - 800321 - 800322 - 800323