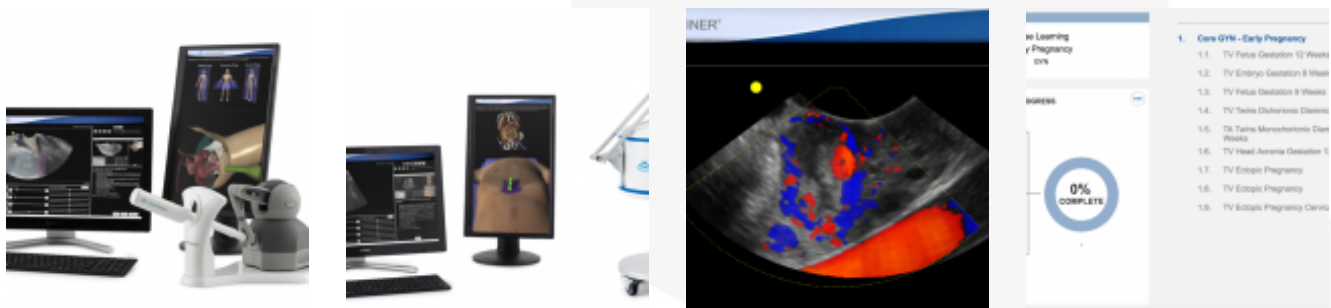


# SCANTRAINER TAS/TVS - OBGYN ultrasound

PRODUCT NUMBER: 1005



## DESCRIPTION:

ScanTrainer is the only ultrasound skills training simulator to offer **curriculum-based teaching using real patient scans** with haptic feedback, real-time assisted guidance and **comprehensive metric-based assessment** in one system.

ScanTrainer Case Library, available via ScanTrainer Examine only, offers flexible cloud-access to a growing library of **over 500 normal and abnormal cases** created using real patient scans.

### MORE THAN SIMULATORS S.L.

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## SKILLS:

- Learn TV probe handling skills to acquire accurate, diagnostic ultrasound images
- Identify and interpret image relationships between anatomy and ultrasound views?
- Recognise pathology relevant to obstetrics and gynaecological practice
- Learn and enhance diagnostic skills
- Test students' theoretical understanding of TV and TA ultrasound
- Test students' scanning skills for quality image acquisition
- Test students' ability to recognise pathology
- Test students' diagnostic skills

## CASES AND PATHOLOGIES:

The ScanTrainer Case Library contains over 600 patient cases including 300+ structured cases for trainees to learn to recognise and diagnose pathology. A selection of patient case exams that use multiple choice questions puts a student's diagnostic skills to the ultimate test.

### MODULE OF ULTRASOUND PHYSICS:

- The nature of ultrasound
- Basic principles of real-time scanning
- Doppler and image optimisation
- Artefacts and Safe practice

### MODULE OF PROBE MANIPULATION SKILLS:

- The ScanTrainer probe manipulation module teaches the effect of probe manipulation on how structures are shown on an ultrasound image.
- It has been designed specifically to improve hand-eye coordination and 3D to 2D visual awareness for ultrasound trainees.

### SKILLS LEARNING MODULES:

- Extensive learning modules by clinical speciality provide students with a wealth of educational resources.
  - ScanTutor, our unique real-time virtual tutor replicates learning one-to-one with an expert and is embedded into all our modules.
  - Trainees will be able to acquire complex, hard-to-learn ultrasound scanning skills independently, in their own time and at their own pace.
  - An extensive library of patient cases allows students to access a diverse range of common normal variants, abnormalities and pathology.
- There are currently over 500 real patient scans in the ScanTrainer Case Library. Over 300 structured patient cases take students through the stages of patient assessment to final diagnosis.

### SKILLS ASSESSMENT:

- After each lesson, students can self-check their performance.

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- Modules are broken down by task and are assessed against Gold Standard metrics set by expert practitioners.
- With each pass or fail grade, an explanation is stated including any relevant expert images to demonstrate the correct technique.
- In 'Test Mode', all aids are deactivated and the trainee is assessed using the in-built metrics as though they are scanning a real patient.

## CHARACTERISTICS:

### TWO SIMULATORS IN ONE:

- **TRANSVAGINAL SIMULATOR:** Learn TV probe handling skills, acquire quality images, recognise pathology and test diagnosis skills.
- **TRANSABDOMINAL SIMULATOR:** Learn TV probe handling skills, acquire quality images, recognise pathology and test diagnosis skills.

### FEATURES:

#### REAL-FEEL HAPTIC TECHNOLOGY:

- The real-feel transvaginal haptic uses force feedback technology to replicate the 'feel' of what it is like to scan a real patient.
- The endo-cavity haptic will track the movement of the probe to measure a trainees' performance and technique and then provide feedback.

#### REAL PATIENT SCANS:

- Full anatomy real patient scans replicate what a student would see on a real ultrasound machine concurrent with ALL planes movement with the probe haptic.
- Doppler functions allow students to practice taking measurements.

#### LEARNING MANAGEMENT SYSTEM:

- The Learning Management System (LMS) is the personalised platform through which users can easily access the extensive functionality of ScanTrainer.
- Tutors can use the LMS to keep track of trainees' progress and set up customised learning programs, while trainees can access their modules and track their individual progress.

#### UPLOAD YOUR OWN SCANS AND CREATE PATIENT CASES:

- Case Generator, which is part of our ScanTrainer Cloud, enables tutors to upload their own scans and create their own patient cases, allowing for further transvaginal scanning opportunities for trainees and increased variety of abnormalities and pathology.

## INCLUDE:

- 1 PC or Laptop
- 2 Screens

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- 1 TA haptic unit
- 1 TV haptic unit
- Set of Core Skills modules: Ultrasound physics, Scanning techniques, Probe manipulation, TV Obstetrics, Gynaecology and Emergency medicine, TA 12 week dating, 20 week anomaly and 27 week fetal growth, TA Gynaecology, FAST and eFAST
- Set of advanced modules: Ectopic, Twins, Miscarriage, Early pregnancy (6 week), Fibroid, Ovarian cyst and ovarian masses, Cervical length, Difficult cases, 20 week FASP, IUFD and IUCD and Echo in Life Support
- 1 Transport case
- 1 User guide

## ADDITIONAL MODULES:

### SCANTRAINER CLOUD:

- Remote access to learning resources and upload scans to create patient cases and design curricula.

### CASE GENERATOR:

- Case Generator is a unique feature of the ScanTrainer Cloud service.
- By enabling tutors to upload their own scans and create patient cases, bespoke training programs can be created, which address the specific teaching points a tutor may wish to make.
- \* Patient cases can be generated from GE Voluson and Toshiba Aplio 500 / 400 / 300 series ultrasound machines.

### SHARE YOUR CASE STUDIES:

- Tutors can choose to publish their cases locally for sole use by their own trainees, or share globally with other ScanTrainer Cloud users around the world via the Cloud Case Library.

### SCAN TRAINER EXAMINE:

- Access extensive pathology and structured patient cases across multiple clinical specialties to learn diagnostic skills.

### CASE LEARNING:

- ScanTrainer Examine includes a cloud-based Case Library, which allows students to develop their diagnostic skills independently and without assistance from the system's ScanTutor, a feature of ScanTrainer that supports guided practice in the early stages of learning scanning skills.
- It gives access to extensive and varied pathology across multiple clinical specialties enabling students to experience real-world patient cases that may otherwise take years to encounter in the real clinical setting.

### CASE EXAMS:

- A number of case exams have been designed to test a student's competency and confidence in ultrasound practice with patient cases that use multiple-choice questions to test the accuracy and certainty of their diagnoses.

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