Powerful ultrasound for PdM professionals

The SDT270 represents an evolution for PdM and Reliability professionals. Sporting many firsts, the SDT270 is consistent with our mission to design progressive and smart instruments.

The first portable ultrasound instrument to include both a built-in temperature sensor and a laser tachometer, also has an onboard SQL database to capture and manage survey data.

Accurate and comparable wave files

SDT270 uses True Amplitude to give ultrasound inspectors, for the first time, the ability to maintain a database of accurate sound files. Each wave file is sampled 250,000 times per second. The result is clear, accurate, and comparable time signals stored in the SDT270's massive internal memory.

Remote support and training

An ultrasound detector that connects to the Internet offers new levels of support options. Remote access for support, training, and measurement triggering brings new possibilities to your ultrasound program.

Two channel inputs

Two channel sequential measurement means multiple sensors can connect to your SDT270 for faster collection of data. Store static data (dBµV), record dynamic sound files, measure temperature and RPM, and acceleration without exchanging sensors. The SDT270 redefines intelligent instrument design to make more efficient use of your time.

SDT270's upgradeable platforms

The SDT270 Platform gives customization with the opportunity to upgrade as your program grows. Choose from six base formats, then add sensors and software to build a collector unique to your needs.

SDT270 is even more powerful with UAS software. UAS forms a synergistic partnership between your SDT270, your PC, and your PdM team.

US - Ultranalysis Suite

UAS manages the collection, processing, and analysis of data measured by the SDT270. It's a library to store and organize info that's easy to retrieve. UAS manages static data (dBµV, °C or °F, RPM, SCFM, dBA), as well as dynamic data (ultrasound signals for time and spectrum analysis). UAS's tree structure allows for as large a database as you need, with the ability to organize smaller surveys so you can set your own pace. Synchronous databases resident on both your PC and your SDT270 allows on-the-fly creation of survey points.

Ultranalysis™ Suite

Our Most Powerful Ultrasound Data Management Software Yet


No matter what your application...WE HEAR MORE
Choose your platform...

At SDT we recognize each customer's ultrasound needs are as unique as they are. So we designed an ultrasonic instrument that can be configured to meet your current needs and reconfigured as those needs change. There are 13 pre-defined kits to choose from depending on your applications. Whether you are a Leak Surveyor, a Lube Technician, a Mechanical Inspector, an Electrical Inspector, or involved with Tightness Testing, SDT has a "basic" or "pro" model that's right for you. And if you don't find what your looking for from our list of pre-defined application driven kits... no problem, lets create a custom kit built just for your ultrasound program.

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**SDT270 Base Versions**

<table>
<thead>
<tr>
<th>SB</th>
<th>SS</th>
<th>SD</th>
<th>SU</th>
<th>QD</th>
<th>DU</th>
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<tbody>
<tr>
<td><strong>MEASUREMENTS</strong></td>
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<tr>
<td>Static (dBµV, °C/F, RPM, dBA, SCFM)</td>
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<tr>
<td>Dynamic (wave file recording)</td>
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<tr>
<td><strong>MEMORY</strong></td>
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<tr>
<td>Generic 20-Node Tree</td>
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<tr>
<td>Unlimited User-Defined Tree with UAS</td>
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<tr>
<td><strong>COMMUNICATION</strong></td>
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<td>DataDump PC Transfer</td>
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<tr>
<td>SQL Auto-Synchronizing database to UAS</td>
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</tbody>
</table>

**Contact**

- Resonant Sensor (RS1 Needle)
- Magnetic Sensor
- Threaded Sensor (RS1 Thread)

**Inspection Applications**

- Mechanical
- Slow Speed Bearings
- Steam Traps & Valves
- Hydraulic Systems
- Gearboxes
- Condition Monitoring
- Acoustic Bearing Lubrication
- Permanent Mount Monitoring
- Quality Control Projects

**Airborne (Distance)**

- Parabolic Dish with Laser Site
- Extended Distance

**Airborne (Precision)**

- Internal Ultrasonic Flexible Wand

**Built-In Multi-Functional**

- Non-contact Temperature
- Non-contact Tachometer

**External Multi Functional**

- Class II Noise Sensor (dBA)
- Mass Air Flow Sensor (SCFM)
- Thermocouple Interface (°C/F)

**Ultrasound Transmitters**

- 200mW Bisonic Transmitter
- 8-Zone Multi Transmitter

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**... then add your sensors and accessories**

**Contact Sensors**

- Resonant Sensor (RS1 Needle)
- Magnetic Sensor
- Threaded Sensor (RS1 Thread)

**Airborne Sensors**

- Parabolic Dish with Laser Site
- Extended Distance

**Internal Ultrasonic Sensors**

- Flexible Wand

**Built-In Sensors**

- Non-contact Temperature
- Non-contact Tachometer

**External Sensors**

- Class II Noise Sensor (dBA)
- Mass Air Flow Sensor (SCFM)
- Thermocouple Interface (°C/F)

**UltraSonic Transmitters**

- 200mW Bisonic Transmitter
- 8-Zone Multi Transmitter

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**Inspection Applications**

**Mechanical**

- Slow Speed Bearings
- Steam Traps & Valves
- Hydraulic Systems
- Gearboxes
- Condition Monitoring
- Acoustic Bearing Lubrication
- Permanent Mount Monitoring
- Quality Control Projects

**Airborne (Distance)**

- Compressed Air Surveys
- Mechanical Inspections
  - Transformers
  - Substation
  - Insulators
  - High KV T&D Lines
- RF Interference
- Tightness Inspections
- Quality Control Projects

**Airborne (Precision)**

- Compressed Air Surveys
- Mechanical Inspections
- Belt Drives and Couplers
- Electrical Inspections
- Switch Gear Panels
- Motor Control Centers
- Arcing, Tracking, Corona
- Tightness Inspections
- Vehicles, Ships, Trains
- Cleanrooms, Autoclaves

**Built-In Multi-Functional**

- Bearing Condition Monitoring
- Slow Speed Bearings
- Bearing Lubrication
- Steam Trap Inspections
- Variable Speed Drives
- Building Envelope Inspections

**External Multi Functional**

- Noise Level Monitoring
- Air Leak Quantification
- Bearing Condition
- Bearing Lubrication
- Steam Trap Inspections
- Contact Temperature Measure

**Ultrasonic Transmitters**

- 200mW Bisonic Transmitter
- 8-Zone Multi Transmitter

**Tightness Inspections**

- Vehicles, Ships, Trains
- Cleanrooms, Autoclaves
- Building Envelope
- Air Intake Leaks
- Turbo Charger Leaks
- Aerospace and Fuselage
- Wind Noise/Water Leaks
Ultranalysis Suite
Powerful software to manage intelligent hardware

There's a lot of powerful measurement capabilities built into the SDT270. Ultranalysis™ Suite (UAS™) software is designed to help you manage the valuable PdM information SDT270 gathers from your critical assets. UAS forms a synergistic partnership between your SDT270, your PC, and your PdM team.

UAS features a familiar 3-pane workspace. In the left pane create a tree structured database to host your plant's critical assets. This is where you define multiple measurement nodes to organize the types of data SDT270 should collect, schedule when it must be collected, and by whom. You can choose to attach alarms now or later, based on three criteria, Absolute, Safe, and Relative. In Survey Mode, SDT270 alerts in the field when any alarm is tripped.

Your SDT270 is capable of collecting both Static data (dBµV, °F, RPM, dBA, SCFM) and Dynamic wave files of any length. Static data is plotted over time and displayed in the main pane. Dynamic wave files are viewed in time or spectrum view. The bottom pane is the control console for UAS. Sort data using virtually any imaginable filter. For instance, run a sort based on last measured points or produce a list of past due measurements. Use this workspace to produce a list based on similar machines. For example a group of sludge pumps in a water treatment plant can be displayed so you can compare and overlay their data simultaneously. Inspectors use this tool to quickly set benchmarks and spot anomalies amongst similar machines. Its a great way to spot trends and use those trends to set alarm criteria. For ultrasound programs at their infant stage the bottom pane provides invaluable control of any sized database.

The SDT270 in combination with UAS Suite maintains simplicity for those who need it while providing sophistication for those who want it.

SDT Ultrasound Training
The cornerstone of an effective ultrasound program

"Investing in ultrasound equipment without investing in training is like buying a Corvette and driving it in first gear; you can make it roll but you will never make it perform."

companies that invest in training see greater participation across more departments. Ultrasound programs have better endurance and the return on investment is much sooner.

Training is the foundation of an effective, and long lasting program. With more than twenty years experience training clients all over the world, SDT recognizes that every program is different and every inspector unique.

Certification
Certification training courses are a 21/2 day comprehensive mix of theoretical and practical learning. We strive to provide the maximum transfer of knowledge and skills identified by ASNT’s Recommended Practice SNT-TC-1A. Ultrasound theory is matched against the many applications you will encounter in the field.

Certification training is offered in both public and private settings. Public classes are a mix of inspectors from many companies resulting in an idea exchange that is productive and enriching. Private classes are held on-site and are equally rewarding since the instructor can address issues specific to your facility. Call today to discuss which is right for you.

Implementation
Implementation training is an on-site consult by a corporate training specialist. Here you form a strategic alliance with a global team of ultrasound coaches committed to getting your ultrasound program on track from day one. The curriculum is customized to your needs and goals.

Together we build an understanding of your applications. Our experts work with you to develop an effective strategy including definition of goals, development of procedures, software training and database setup, and a metric for measuring success.

A follow up site visit helps re-evaluate your program and ask questions from your coach. It is also an opportunity to refresh inspector’s knowledge and train any new hires. Call today to find out which program is for you.

Invest in Training

Training Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
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<tbody>
<tr>
<td>1 Day Onsite</td>
<td>1 Day of training on-site</td>
</tr>
<tr>
<td>2 Day Onsite</td>
<td>2 Days of training on-site</td>
</tr>
<tr>
<td>3 Day Onsite</td>
<td>3 Days of training on-site</td>
</tr>
<tr>
<td>4 Day Onsite</td>
<td>4 Days of training on-site</td>
</tr>
<tr>
<td>CERTIFICATION Level 1 &amp; 2</td>
<td>Certification combined with 1 day of training</td>
</tr>
</tbody>
</table>

Public Venue
Private Onsite
## Technical Support Services

Protect your investment with SDT’s flexible support contracts

SDT Technical Support Services are here to ensure that your SDT products and software operate to the standard you expect and that you benefit from the most current firmware and software. SDT designed a versatile suite of support services aimed at helping you reach the goals of your ultrasound program. Our support contracts protect your technology investment. We focus on maintaining your ultrasound assets so you can focus on maintaining your company’s assets.

### SDT270 SoundCare Warranty

<table>
<thead>
<tr>
<th>SDT270 SOUNDCARE BASIC</th>
<th>Ultranalysis SoftCare Support Plan</th>
</tr>
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</table>
| Every SDT270 comes with our industry leading 2 year** warranty which protects your investment against manufacturer’s defects including workmanship and software issues. | SoftCare Basic is included with every UAS license. You are entitled to industry-leading technical support for 6 months.  
- 6 months support by email  
- 6 months software rejuvenation  
- 6 months access to online user’s group |

### SDT270 SOUNDCARE³ ADVANCED

<table>
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<th>SDT270 SOUNDCARE³ ADVANCED</th>
<th>UAS SOFTCARE³ ADVANCED</th>
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</table>
| SoundCare³ Advanced is a 3 year extended warranty contract that ensures your SDT270 and all sensors are in original working condition. Included in the service offering  
- preferred pricing on yearly calibrations, a 25% savings  
- no haggle repairs  
- priority turnaround on all service requests  
- free battery replacement at the end of contract  
- access to firmware updates for the duration of the contract | SoftCare³ Advanced entitles you to industry-leading technical support for 3 years*  
- 3 years support by email, phone, and remote PC access  
- Registered access to SDT’s technical experts, problem resolution, support, and critical problem acceleration  
- 3 years software rejuvenation  
- 3 years access to online user’s group – Registered access to SDT’s online user’s group community website  
- One Training Voucher* |

### SDT270 SOUNDCARE⁶ PRO

<table>
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<tr>
<th>SDT270 SOUNDCARE⁶ PRO</th>
<th>UAS SOFTCARE⁶ PRO</th>
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</table>
| SoundCare⁶ Pro is a 6 year extended warranty contract that ensures your SDT270 and all sensors are in original working condition. Included in the service offering  
- preferred pricing on yearly calibrations, a 25% savings  
- no haggle repairs  
- priority turnaround on all service requests  
- new battery replacement in year three of contract  
- free battery replacement at the end of year 3 and year 6 of contract  
- access to firmware updates for the duration of the contract | SoftCare⁶ Advanced entitles you to industry-leading UAS technical support for 6 years*  
- 6 years support by email, phone, and remote PC access  
- Registered access to SDT’s technical experts, problem resolution, support, and critical problem acceleration  
- 6 years software rejuvenation  
- 6 years access to online user’s group – Registered access to SDT’s online user’s group community website  
- One Training Voucher* |

*see service terms and conditions for details  
**batteries are warrantied for 6 months. Warranty does not include shipping, handling and importation.

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### SDT Ultrasound Systems

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Toll Free Canada & USA 1-800-667-5325  
Toll Free Fax Line 1-800-224-1546  
www.sdtnorthamerica.com  
info@sdtnorthamerica.com

**Our promise to be our best for you**

At SDT we believe we have a responsibility to produce products that help our global economy while at the same time sustain our planet for future generations. Giving our best to you is more than just a commitment, it is our promise.

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### Your SDT Certified Partner

SDT Ultrasound Systems is committed to continual product development. The contents of this material are accurate at time of printing, however are subject to change without notice.  
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