Vascular assessment range
The Dopplex Bi-directional digital Doppler
A new dimension in sound and vision

Visual confirmation of sound enhances clinical assessment

With over 30 years’ experience in vascular assessment, our latest technological innovations have enabled us to develop a new digital platform for our latest range of Dopplers. Designed to improve efficiency and effectiveness in clinical diagnosis, the DMX offers unrivalled value and quality.

Our bi-directional waveform is uniquely generated from the digital Doppler spectrum. This gives the clinician objective evidence to assist in the diagnosis of vascular disease that other Dopplers may find difficult or impossible to achieve.

Our algorithms optimize the presentation of waveforms and enhance the quality of sound using our unique Dynamic Digital Noise Reduction (DDNR) system and gel filter. Doppler sound recording and playback is just one of the many new features in this state-of-the-art digital Doppler unit.
Diagnose with confidence
Doppler sounds can be misleading. Now with the accompanying waveform you can visually confirm that you are interpreting the sound correctly.

Visually confirm PAD
An early indication of PAD can be seen by the loss of the reverse flow in the Doppler waveform from the lower limb.

Venous testing
A dedicated venous mode allows any reflux to be clearly visualized by the flow pattern above the baseline.

**Instantly visualize waveforms for pictorial evidence**
See the difference — the value of visual representation.

**Improved sound quality**
Audio purity is enhanced by using our DDNR, which significantly reduces background hiss. This clarity aids the clinician in detecting small vessels or calcified arteries that other Dopplers may find difficult or impossible to locate.

**Rechargeable**
Charged via the USB socket, providing low running costs and negates the need to change batteries.

**Real time clock**
Allows the user to store data with a time and date stamp, providing evidence when the test was undertaken.

**Educational resource tool**
Pre-stored files on the SD card can be used to demonstrate the relationship between Doppler waveforms and sounds for teaching and training purposes.
Toe pressures and TBI made easy
Simple and rapid measurement of toe pressures

A comprehensive kit for vascular assessment of the diabetic foot and lymphatic limb

**Advanced ankle and toe brachial index system**

The ankle and toe pressure (ATP) kit is a unique combination of the DMX Doppler, probes and accessories providing the vascular, diabetic or lymphatic specialist with a system to aid the assessment of arterial disease and neuropathy. Our arterial plethysmography (APPG) probe easily attaches to the DMX Doppler unit by simply swapping your Doppler probe with its adaptor.

Toe systolic pressure can be rapidly measured in patients with incompressible ankle arteries and can be repeated on the arms to determine the TBI. The internal pressure sensor in the adaptor provides a direct pressure reading on the Doppler display. PPG waveforms and pressures can be stored on the internal memory and reviewed at any time. In addition, the waveforms and pressures can be transferred to the Dopplex DR5 software package.

**Ankle and toe pressure kit**

**ATP Kit includes:**
- DMX digital Doppler
- Medical grade recharging kit
- EZ8XS widebeam 8 MHz Doppler probe
- APPG probe and adaptor
- Toe cuffs and inflator
- Arm/ankle cuffs (standard and large: latex-free)
- Trigger-operated sphyg
- Neupen and box of tips (includes 10 g monofilament)
- Educational CD
- Large carry bag
Ankle-brachial index kit

The ankle-brachial index (ABI) kit combines a DMX Doppler, Doppler probes and cuffs to provide the wound care or vascular specialist with a system to help in the assessment of arterial disease prior to bandaging.

Doppler waveforms can be stored on the internal memory and reviewed at any time. Alternatively the waveforms can be transferred to the Dopplex DRS software package for archiving, reviewing and printing of reports.

The ABI kit includes:
- DMX digital Doppler
- Medical grade recharging kit
- EZ8XS widebeam 8 MHz Doppler probe
- VP5XS Doppler probe
- Trigger-operated sphyg
- Arm/ankle cuffs (standard and large: latex-free)
- Educational CD
- Large carry bag
A comprehensive suite of ankle brachial index solutions

Dopplex® Ability — automatic ankle-brachial index (ABI) system

The Dopplex Ability has revolutionized the ABI process and provides automatic, easy, fast and accurate measurements with an immediate printout of results from the integral printer or optional Dopplex® DR4 software package.

Requires minimal training and provides rapid bilateral ABI measurements in just 3 minutes. Its portability enables efficient measurements in the primary care clinic, hospital or patient’s home. This helps prioritize clinical services and improves clinical pathways.

Dopplex Ability also records the ankle pulse volume waveforms, which provide pictorial evidence to aid a clinician’s diagnosis; this is of particular value in patients who have diabetes and who are prone to arterial calcification.

Cost-saving, time-saving and improved efficiencies

The Dopplex Ability offers a cost-effective solution for ABI measurement:
- Rapid measurements in 3 minutes
- No need to rest the patient
- Can be used by health care support staff
- Reduces inappropriate referrals
- Immediate printouts
- Printouts and archiving of results with Dopplex DR4 software package

For further details, please refer to our Dopplex Ability brochure
The reusable Dopplex intraoperative probe can be used to immediately confirm blood flow prior to closing, saving time and costs of a potential re-operation.

The high-sensitivity probes are available in packs of three and can be resterilized by autoclave or ethylene oxide. This allows spares to be available in case of contamination.

The probes are specially designed to be lightweight, easy to hold, and should be used instead of a standard probe placed in a sterile glove.

Probes are compatible with the entire Dopplex range of handheld Dopplers. When used with the new DMX digital Doppler unit, immediate visualization of Doppler waveforms can confirm blood flow.

The Dopplers can be mounted onto an IV pole using the specially designed pole clamp or the pole stand.

For further details, please refer to our Dopplex intraoperative probe brochure.
Audio and bi-directional Dopplers

The Dopplex® D900 is an entry-level, audio-only, non-directional Doppler, principally used for ABI measurements by community nurses and doctors in managing leg ulcers.

- Clear audio sounds of blood flow
- Compatible with all XS high-sensitivity vascular probes
- Audio output socket
- Large carry bag

The Dopplex® SD2 provides bi-directional blood flow information to the vascular professional including the display of flow direction. It is ideal for clinical specialists wishing to conduct lower limb Doppler studies.

- Provides bi-directional blood flow information
- Compatible with all XS high-sensitivity vascular probes
- Stereo audio output socket
- Large carry bag

Use any of our handheld Dopplers with our EZ8 widebeam probe for easy location of brachial and pedal arteries.
Dopplex DRS is a unique vascular reporting software package for use in conjunction with the Dopplex DMX.

It allows real time visualization of waveforms on a PC. An unlimited number of traces can be transferred and stored for reviewing, archiving and printing.

**Key Dopplex DRS features:**
- Displays Doppler color spectral waveforms in real time
- Replay of Doppler waveforms and sounds
- An integral database for patient data storage and Doppler sound files
- Save final reports as PDFs and transfer to an external EPR system

Dopplex DR4 is also available for display of waveforms and data from the Dopplex Ability.

**Doppler spectral display**
Doppler color spectral waveforms can be visualized in real time

**Report-style printouts**
Multiple traces can be stored, archived and printed for reports
Huntleigh’s precision engineering and fine-tuning of every component produces a sound and sensitivity that gives clinicians clarity and accuracy like no other Doppler.

The new range of high-sensitivity XS probes have been designed to maximize performance of the DMX Doppler for use in a wide variety of clinical applications and procedures. These include the 4, 5, 8 and 10 MHz options and the unique widebeam EZ8 8 MHz probe. The 2 MHz and 3 MHz probes can also be used for obstetric applications.

Only the new XS range of probes used with the DMX digital Doppler will allow the full sound and waveform features of the unit to be enabled.**
## Technical specification

<table>
<thead>
<tr>
<th>Product Features</th>
<th>DMXR</th>
<th>DMX</th>
<th>ATP Kit</th>
<th>ABI Kit</th>
<th>SD2</th>
<th>D900</th>
<th>Dopplex Ability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product order code</td>
<td>DMXR-USA</td>
<td>DMX-USA</td>
<td>ATP-USA</td>
<td>ABI-USA</td>
<td>SD2-P-USA</td>
<td>D900-P-USA</td>
<td>DA100PB</td>
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<tr>
<td>High-resolution color display</td>
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<tr>
<td>Bi-directional Doppler waveform display</td>
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<td>Appg capability</td>
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<td>Noise reduction</td>
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<td>DDNR</td>
<td>DDNR</td>
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<td>Active Active</td>
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<td>Removable micro SD card storage</td>
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<tr>
<td>Timebase (seconds)</td>
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<td>3, 6 and 12 secs</td>
<td>3, 6 and 12 secs</td>
<td>3, 6 and 12 secs</td>
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<td>Compatible with interchangeable XS probes</td>
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<td>Integrated loudspeaker</td>
<td>Auto</td>
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<td>Auto</td>
<td>Auto</td>
<td>Manual</td>
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<td>Obstetric capability with XS probes</td>
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<td>Flow separated stereo headphone output</td>
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<td>Gain control</td>
<td>Auto</td>
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<tr>
<td>Dopplex software compatible</td>
<td>DR5</td>
<td>DR5</td>
<td>DR5</td>
<td>DR5</td>
<td>DR4</td>
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<tr>
<td>USB capability</td>
<td>Micro</td>
<td>Micro</td>
<td>Micro</td>
<td>Micro</td>
<td>Mini</td>
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</tr>
<tr>
<td>Battery type</td>
<td>2 x AA Rechargeable batteries</td>
<td>2 x AA Alkaline batteries</td>
<td>2 x AA Rechargeable batteries</td>
<td>2 x AA Rechargeable batteries</td>
<td>9 volt alkaline — 6LR61, 6LF22 or equivalent recommended (e.g., MN1604)</td>
<td>NiMH integral</td>
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<tr>
<td>110-240 V medical-grade recharging kit (supplied with country adaptors)</td>
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<tr>
<td>Battery life (number of 1 min exams)</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>250</td>
<td>500</td>
<td>Mains/battery</td>
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<tr>
<td>Warranty*</td>
<td>3-year</td>
<td>3-year</td>
<td>3-year</td>
<td>3-year</td>
<td>5-year</td>
<td>5-year</td>
<td>2-year</td>
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<tr>
<td>Accessories</td>
<td>All handheld models supplied with: gel, soft carry bag, user manual. All kits supplied with large carry case. Dopplex Ability: Supplied with one set of standard cuffs, two rolls of paper, pack of sleeves, mains cable and instructions for use.</td>
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<tr>
<td>Weight</td>
<td>11 oz (310 g)</td>
<td>11 oz (310 g)</td>
<td>Kit: 53 oz (1.5 kg)</td>
<td>10 oz (295 g)</td>
<td>10 oz (295 g)</td>
<td>106 oz (3 kg)</td>
<td></td>
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<tr>
<td>Dimensions</td>
<td>Main unit: Height 5.5” (140 mm) Width 3.0” (75 mm) Depth 1.2” (30 mm)</td>
<td>Kit: Height 13.8” (350 mm) Width 15.8” (400 mm) Depth 3.9” (100 mm)</td>
<td>Height 5.5” (140 mm) Width 2.9” (74 mm) Depth 1.1” (27 mm)</td>
<td>Height 6.3” (160 mm) Width 10.25” (260 mm) Depth 9.5” (240 mm)</td>
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</tbody>
</table>

* Standard  ■ Option  * Refer to separate warranty statements  ** Using Dopplex HS series of probes will only give audio without waveforms, DDNR or gel filter.  *** Depending upon model

As a proud member of the Arjo family, we have been committed to supporting healthcare professionals in improving outcomes and enhancing patient wellbeing since 1979. We do this through our proven solutions for Vascular Assessment & Treatment and Fetal & Patient Monitoring. With innovation and customer satisfaction as our guiding principles, we strive for clinical excellence and improved performance, for life.

Arjo Inc.
2349 West Lake Street, Suite 250 Addison, Illinois 60101
T: +1 (800) 323 1245  F: + 1 888 594 2756
www.huntleigh-diagnostics.us

Registered No: 942245 England & Wales. Registered Office:
ArjoHuntleigh House, Houghton Hall Business Park, Houghton Regis, Bedfordshire, LU5 5XF
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