

dopplex®

Vascular Dopplers

Introducing a new dimension in sound and vision

HUNTLEIGH

A MEMBER OF THE ARJO FAMILY

Dopplex® DMX Digital Doppler

Visual confirmation of sound to enhance clinical assessment

High Resolution Color Display

- Instantly visualize waveforms for pictorial evidence
- Waveforms displayed in high definition
- Wide viewing angle

Audio Output

- Flow separated stereo headphone output

Connectivity

- USB port for communication with our software

Integrated Charging

- Convenient charging via USB port

Probe Parking

- Protection when probe not in use

Data Storage On Micro SD Card

- Store timestamped waveforms and sounds for review or training
- Transfer to optional Dopplex Vascular Reporter software package for reporting and archiving



High Sensitivity Interchangeable Probes

- All probes have been calibrated and fine-tuned for optimum use
- An optional PPG probe provides easy and accurate measurement of toe pressures

Hear the Difference

- Digital sound processing enables our new DDNR system to reduce the background hiss and the gel filter reduces the loud crackle when gel is applied

Integrated Belt/Pocket Clip

- For convenient carrying and storage

The NEW Dopplex Vascular Doppler Series

The Vascular Doppler range from Huntleigh is designed to continue the decades-long tradition of providing clinicians with accurate and reliable diagnostic evidence through innovative, high quality products.

Audio from our high sensitivity probes is enhanced using our Dynamic Digital Noise Reduction (DDNR) and gel filter, reducing background noise and interference.

This enhanced signal can then be presented as a bi-directional flow indicator or HD waveform to provide clinicians with objective evidence to support their diagnoses.

Through the use of our specialty kits featured page 7, Huntleigh Vascular Dopplers can be used in the diagnosis of a wide range of conditions. This makes them a versatile addition to any vascular clinician.



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.

Improved Sound Quality
Audio purity is enhanced by using our DDNR which significantly reduces background hiss. This clarity aids the clinician in the detection of small vessels or calcified arteries that other Dopplers may find difficult or impossible to locate.

Bi-directional Waveform Generated From The Digital Doppler Spectrum With Auto Scaling Feature
Maximizes accuracy and clarity of waveforms; essential for patients with poor blood flow. Scroll facility to review your test and choose the ideal waveforms. Arterial and Venous modes.

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.

Accessories

The Dopplex DMX is supplied with:

- Carry bag
- 60g Tube of ultrasound gel
- Batteries:
  2 x AA Rechargeable batteries and recharging kit (DMXR only)
  2 x AA Alkaline batteries (DMX only)
- Micro SD card
- IFU

Probes: (Sold separately)

- VP4XS-USA – 4MHz
- VP5XS-USA – 5MHz
- VP8XS-USA – 8MHz
- EZ8XS-USA – 8MHz Widebeam
- VP10XS-USA – 10MHz
- PPGA1 – Arterial PPG adaptor and probe
- Surgical probes (refer to page 10)

Optional accessories include:

- ACC21 – Stereo headset
- ACC232 – Doppler stand
- ACC188 – Blood pressure cuff & sphyg
- ACC3 – Ultrasonic gel (box 12x250ml bottles)
- ACC24 – Ultrasonic gel (box 12x60g tubes)



- ACC232 – Doppler trolley compatible with all Dopplers

Dopplex® SD2 Doppler

Provides bi-directional blood flow visualization

Large Monochrome Display

- Large monochrome display screen with blood flow direction indicator to easily identify forward and reverse flow
- Clear probe frequency identification

Audio Output

- Flow separated stereo headphone output

High Sensitivity Interchangeable Probes

- All probes have been calibrated and fine-tuned for optimum use



Controls

- Combined Power ON/OFF/Volume control for ease of use

Probe Parking

- Protection when probe not in use

Hear the Difference

- Clear audio sounds of blood flow

Integrated Belt/Pocket Clip

- For convenient carrying and storage

Accessories

The Dopplex SD2 is supplied with:

- 2 x 20g Packs of ultrasound gel
- 2 x AA Alkaline batteries
- IFU
- Carry bag

Probes: (Sold separately)

- VP4XS-USA – 4MHz
- VP5XS-USA – 5MHz
- VP8XS-USA – 8MHz
- EZ8XS-USA – 8MHz Widebeam
- VP10XS-USA – 10MHz
- Surgical probes (refer to page 10)

Optional accessories include:

- ACC21 – Stereo headset
- ACC232 – Doppler stand
- ACC3 – Ultrasonic gel (box 12x250ml bottles)
- ACC24 – Ultrasonic gel (box 12x60g tubes)
- ACC188 – Blood pressure cuff & sphyg
- ACC232 – Doppler trolley compatible with all Dopplers

Dopplex® D900 Doppler

Most economical, audio only, non-directional Doppler

LED Indicators

- Lights for clear visual indication of power ON/OFF and battery status

Audio Output

- Mono headphone connection socket

High Sensitivity Interchangeable Probes

- All probes have been calibrated and fine-tuned for optimum use



Controls

- Combined Power ON/OFF/Volume control for ease of use

Probe Parking

- Protection when probe not in use

Hear the Difference

- Clear audio sounds of blood flow

Integrated Belt/Pocket Clip

- For convenient carrying and storage

Accessories

The Dopplex D900 is supplied with:

- 2 x 20g Packs of ultrasound gel
- 2 x AA Alkaline batteries
- IFU
- Carry bag

Probes: (Sold separately)

- VP4XS-USA – 4MHz
- VP5XS-USA – 5MHz
- VP8XS-USA – 8MHz
- EZ8XS-USA – 8MHz Widebeam
- VP10XS-USA – 10MHz
- Surgical probes (refer to page 10)

Optional accessories include:

- ACC21 – Stereo headset
- ACC232 – Doppler stand
- ACC3 – Ultrasonic gel (box 12x250ml bottles)
- ACC24 – Ultrasonic gel (box 12x60g tubes)
- ACC188 – Blood pressure cuff & sphyg
- ACC232 – Doppler trolley compatible with all Dopplers


Toe Pressures and TBI made easy
Diabetic Foot Assessment

Simple and Rapid Measurement of Toe Pressures

A comprehensive kit for the vascular assessment of the Diabetic foot and Lymphatic limb

Advanced Ankle & 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. Additionally the waveforms and pressures can be transferred to the optional Dopplex Vascular Reporter software package.



Visual aid for optimum deflation rate

Easy determination of systolic pressures



ATP Kit – The complete Diabetic Foot Assessment Kit

ATP Kit includes:

- DMX digital Doppler
- Medical grade recharging kit
- EZ8XS widebeam 8MHz Doppler probe
- APPG probe and adaptor
- Toe cuffs & inflator
- Arm/Ankle cuffs (standard and large: latex free)
- Trigger operated sphyg
- Neuropen & box of tips (includes 10g monofilament)
- 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 optional Dopplex Vascular Reporter software package for archiving, reviewing and printing of reports.



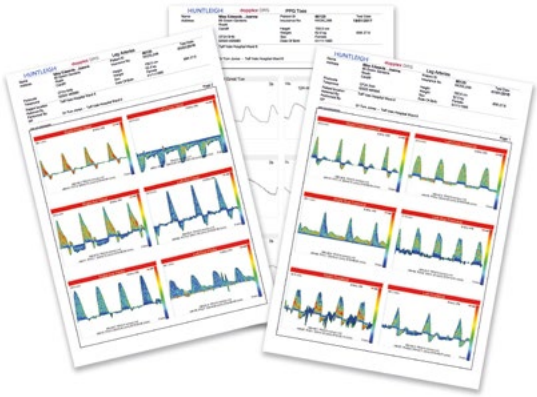
The ABI kit includes:

- DMX digital Doppler
- Medical grade recharging kit
- EZ8XS widebeam 8MHz Doppler probe
- VP5XS Doppler probe
- Trigger operated sphyg
- Arm/Ankle cuffs (standard and large: latex free)
- Large carry bag

Documentation and Archiving

Dopplex Vascular Reporter is a software package for use in conjunction with the Dopplex DMX, ATP and ABI kits. The software facilitates a more detailed examination of Doppler waveforms stored on the DMX Doppler on a PC, including as a color spectrum. Waveforms can be stored for reviewing, archiving and printing.

Vascular Reporter is typically installed as a standalone desktop application although it can be configured to share the database with other Vascular Reporter installations. It can also be configured to work with an existing SQL database as part of a 'hub and spoke' network making it ideal for hospitals, clinics and GP practices. Vascular Reporter runs on Windows™ operating system.



Applications include:

- Upper and lower limb arterial pressure and flow studies
- Lower limb venous studies
- Extra-cranial blood flow studies
- Penile pressure and flow studies
- Podiatry and chiropody studies
- Pre/post-operative studies
- Surgical studies
- Toe pressure studies
- Digit waveforms

Integrated PDF Generator:

- Final reports can be saved as a PDF file and transferred to external EMR systems
- Mixed modality profiles can be printed on a single report e.g. arterial, venous and PPG



Dopplex Single-Use Intraoperative Probe

Sterile 8MHz Surgical Probe

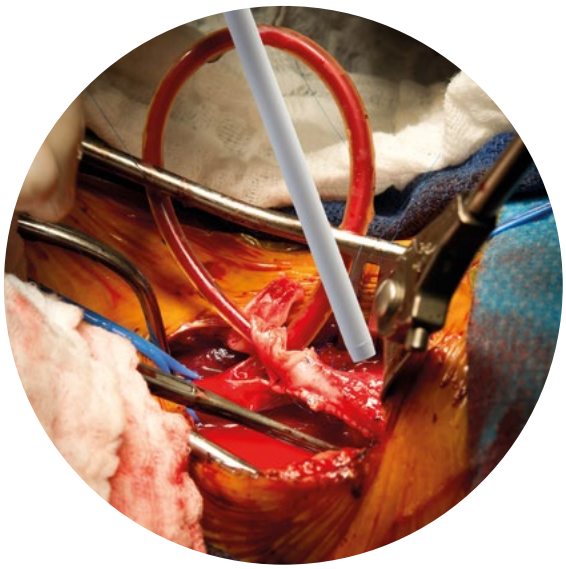
The NEW Single Use Dopplex Intraoperative Probe is supplied pre-sterilized and can be used immediately to confirm blood flow prior to closing. With a decreased risk of cross-contamination. Saving time and costs of a potential re-operation.

The high sensitivity probes are available in pre-sterilized surgical packs in boxes of 10. This allows spares to be available in case of contamination.

The probes have been specially designed to be lightweight, easy to hold, and reduce the risk of surgical site contamination posed by using reusable surgical probes.

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.

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



Dopplex Probes

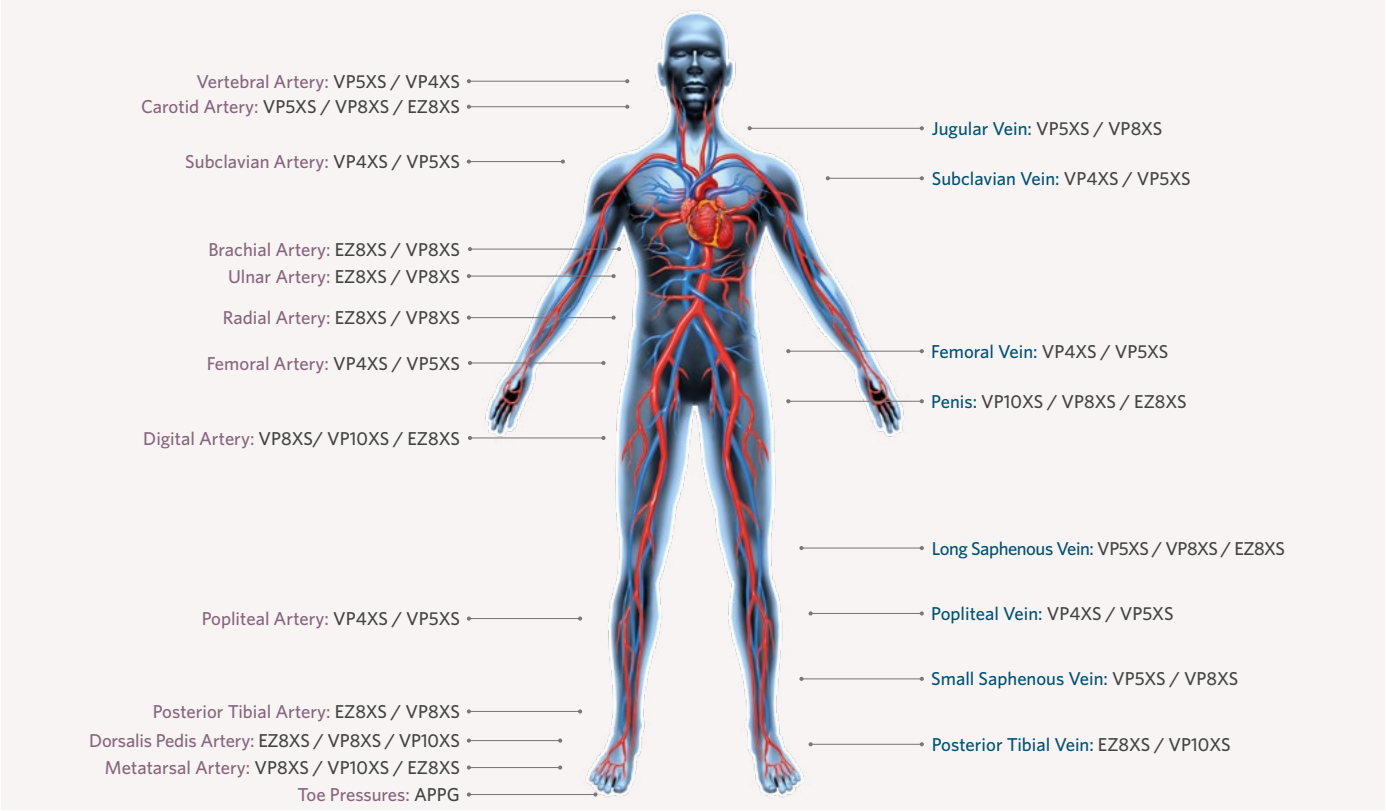
Fine tuned for optimum performance in all applications

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 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 10MHz options and the unique wide-beam EZ8 8MHz probe.

Only the XS range of probes used with the DMX Digital Doppler will allow the full sound and waveform features of the unit to be enabled.



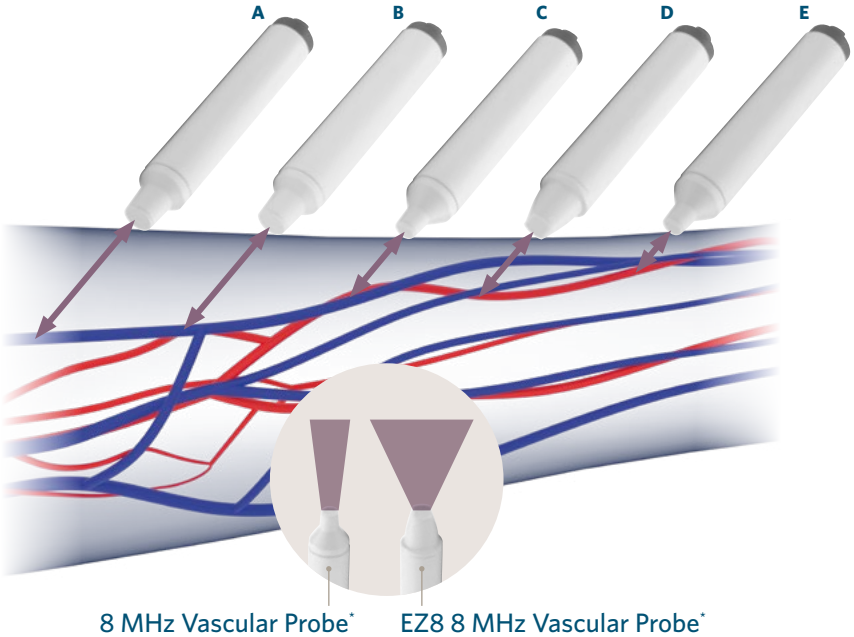
A: 4 MHz Vascular Probe
Detection of deep lying vessels

B: 5 MHz Vascular Probe
Oedematous limbs and deep lying vessels

C: 8 MHz Vascular Probe
Detection of peripheral vessels and calcified arteries

D: EZ8 8 MHz Vascular Probe
Easily locate and maintain contact with vessels during cuff inflation and deflation.

E: 10 MHz Vascular Probe
Detection of smaller vessels



*Beam shape and depth for illustrative purposes only.

Technical Specification

Product Order Codes	Digital Waveform Doppler (Rechargable)	Digital Waveform Doppler	Diabetic Foot Assessment Kit	Ankle Brachial Index Assessment Kit	Bi-directional Flow Indicator Doppler	Audio Only Doppler
High Resolution Color Display	•	•	•	•		
Bi-directional Doppler Waveform Display	•	•	•	•		
Bi-directional Flow Display					•	
APPG Capability	▫	▫	•	▫		
Noise Reduction	DDNR	DDNR	DDNR	DDNR	Active	Active
Removable Micro SD Card Storage	•	•	•	•		
Scroll Memory	20 secs	20 secs	20 secs	20 secs		
Timebase	3, 6 & 12 secs	3, 6 & 12 secs	3, 6 & 12 secs	3, 6 & 12 secs		
Compatible with Interchangeable XS Probes	•	•	•	•	•	•
Integrated Loudspeaker	•	•	•	•	•	•
Flow Separated Stereo Headphone Output	•	•	•	•	•	Mono only
Gain Control	Auto	Auto	Auto	Auto		
Dopplex Software Compatible	VR	VR	VR	VR		
USB Capability	Micro	Micro	Micro	Micro		
Battery Type	2 x AA Rechargeable batteries	2 x AA Alkaline batteries	2 x AA Rechargeable batteries	2 x AA Rechargeable batteries	2 x AA Alkaline batteries	2 x AA Alkaline batteries
110 - 240 V Medical Grade Recharging Kit (supplied with country adaptors)	•	▫	•	•		
Battery Life (no. of 1min exams)	Over 700	Over 700	Over 700	Over 700	Over 600	Over 800
Warranty	3 years (1 year on probes and accessories)					
Weights (all without probe)	280gms (10oz)	280gms (10oz)	Kit: 1.7kg (60oz)		294gms (10oz)	295gms (10oz)
Dimensions	Main unit: Height 140mm (5.5") Width 75mm (3.0") Depth 33mm (1.3")		Kit: Height 350mm (13.8") Width 400mm (15.8") Depth 100mm (3.9").		Main unit: Height 140mm (5.5") Width 75mm (3.0") Depth 33mm (1.3")	

Product Order Codes						
Product Order Code (Main unit only)	DMXR-USA	DMX-USA	ATP-USA	ABI-USA	SD2-USA	D900-USA
- Main Unit with EZ8 Widebeam 8MHz probe	LUS-DMXR-EZ8XS	LUS-DMX-EZ8XS	Included in Kit	Included in Kit	LUS-SD2-EZ8XS	LUS-D900-EZ8XS
- Main Unit with VP8 8MHz probe	LUS-DMXR-VP8XS	LUS-DMX-VP8XS			LUS-SD2-VP8XS	LUS-D900-VP8XS
- Main Unit with VP4 4MHz probe	LUS-DMXR-VP4XS	LUS-DMX-VP4XS			LUS-SD2-VP4XS	LUS-D900-VP4XS
- Main Unit with VP5 5MHz probe	LUS-DMXR-VP5XS	LUS-DMX-VP5XS		Included in Kit	LUS-SD2-VP5XS	LUS-D900-VP5XS
- Main Unit with VP10 10MHz probe	LUS-DMXR-VP10XS	LUS-DMX-VP10XS			LUS-SD2-VP10XS	LUS-D900-VP10XS

• Standard ▫ Option

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.

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As our policy is one of continuous improvement, we reserve the right to modify designs without prior notice.

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