# Table of Contents

## General Information
- How Do Dopplers Work? ................................................................. 1

## Obstetric and Vascular Products

### Elite®
- Nicolet Elite Doppler ........................................................................................................ 2
- Nicolet Elite Features and Benefits .................................................................................. 3
- Nicolet Elite System Configurations .............................................................................. 4

### FreeDop™
- Imex FreeDop Doppler ....................................................................................................... 5
- Imex FreeDop Features and Benefits ................................................................................ 6

### IMEXDOP CT+™
- Nicolet IMEXDOP CT+ Doppler .................................................................................... 7
- Nicolet IMEXDOP CT+ Features and Benefits ................................................................. 8

### Pocket-Dop II™
- Imex Pocket-Dop II Doppler .......................................................................................... 9
- Imex Pocket-Dop II Features and Benefits ................................................................. 10

## Obstetric Products

### Obstetric Dopplers and Antepartum Monitors at a Glance
- Pocket-Dop 3™
  - Imex Pocket-Dop 3 Doppler ......................................................................................... 12

### VersaLab® APM and APM2 Antepartum Monitors
- Nicolet VersaLab Antepartum Monitors ................................................................... 13
- Nicolet VersaLab Antepartum Monitors CPT Codes and Accessories .................. 14
- Nicolet VersaLab Antepartum Monitors Features and Benefits .................................. 15

## Vascular Products

### Vascular Dopplers and ABI Systems at a Glance
- StethoDop™
  - Nicolet StethoDop Doppler ...................................................................................... 17
  - Nicolet StethoDop Features and Benefits .................................................................. 18

### VersaLab® LE/SE
- Nicolet VersaLab Systems .......................................................................................... 19
- Nicolet VersaLab Technical Specifications ................................................................ 20
- Nicolet VersaLab Features and Benefits ..................................................................... 21

### ABI Kit™
- Imex and Nicolet ABI Kits ............................................................................................ 22

## Clinical Indications for Doppler Use in Extended Care

## Accessories

### Cuff Kits
- Doppler Accessories ................................................................................................. 24
- Doppler Accessories & Training Software ............................................................. 25

## Probes & Comparison Guides

### 2 MHz Obstetric Probes
- 3 MHz Obstetric Probes ............................................................................................ 27
- 5 MHz Vascular Probes .............................................................................................. 28
- 8 MHz Vascular Probes ............................................................................................. 29

### VersaLab Probes
- Doppler Comparison Guides .................................................................................... 30
- Battery and Charger Matrix ..................................................................................... 31

## Index

### Domestic Systems and Accessories
- International Systems and Accessories ................................................................. 34
- Terms and Conditions of Sale ................................................................................... 36

To order call 1-877-842-7970
How do Dopplers work?
The term “Doppler effect” honors Austrian physicist Christian Doppler. Doppler discovered that the distance between waves, such as sound or light, changes as an observer of the waves and the source of the waves move relative to each other.

Dopplers operate on the principle of listening to reflections of small, high frequency sound waves. These sound waves, called ultrasound, are generated by microscopic vibrations of a ceramic crystal.

When ultrasound waves reflect off moving objects such as the fetal heart or blood flow, the waves are altered slightly in frequency. The Doppler then picks up these signals, processing and amplifying them so they are audible.

When choosing Doppler probes, lower frequency probes will penetrate the body deeper and will have a wider beam. Likewise, the higher frequency probes will not penetrate as deeply and will have a narrower beam. So, for listening to deeper objects such as a fetal heartbeat, a lower frequency 2 or 3 MHz probe is needed. For listening to superficial objects such as blood vessels, a higher frequency 5 or 8 MHz probe is appropriate.

Vascular Application
Moving red blood cells reflect the transmitted sound wave. The reflected signal is detected by the receiver side of the probe. The difference between the frequency of the transmitted sound wave and the frequency of the received signal is known as the Doppler shift. This Doppler shift is typically in the audio range and is converted into the sound heard from the Doppler unit.

Obstetric Application
Movement of the fetal heart reflects the sound wave, which is then detected by the receiver side of the probe. The difference between the frequency of the transmitted sound wave and the frequency of the received signal is known as the Doppler shift. This Doppler shift is typically in the audio range and converted into the sound heard from the Doppler unit.
Superior Performance, Ultimate Flexibility
The Elite is a configurable, ultrasound Doppler used to detect the fetal heartbeat and to assist in monitoring peripheral arterial and venous blood flow. We’ve taken over 30 years of Doppler experience and created a product that excels in every facet of performance. The Elite has a comfortable probe shape that makes finding a signal easier than ever before. It combines extreme sensitivity and incredibly clear, static-free sound into a compact, pocket-sized package.

Proven Obstetric Reliability
The comfortable shape of the Elite probe is easy to hold and features broad-beam technology, making it very easy to find and lock onto the signal of interest. Our probe technology has been tested in obstetric applications for years and is effective in detecting fetal heartbeats as early as 8 weeks in most pregnancies. The Nicolet Elite obstetric system comes with your choice of a 3 MHz probe for early fetal heart beat detection or a 2 MHz probe for use in later pregnancy or with larger patients.

2 MHz Waterproof Probe Option
For obstetric applications where a waterproof feature is required, Elite offers a solution for every budget. You may choose to use a waterproof sheath, or purchase the 2 MHz waterproof probe. The extra-long cord allows the main unit to remain outside of the water bath to provide crisp, undistorted sound.

Optional Heart-Rate Display
The Elite is available with a heart-rate display for both obstetric and vascular applications. The optional digital readout utilizes autocorrelation, a pattern recognition technique that accurately tracks the heart rate. The convenient display saves you counting and calculating time.

Superior Vascular Performance
The pre-angled crystals, broad-beam technology and large probe face of our 5 MHz probe allow you to quickly locate vascular signals. There is no need to angle the probe, simply align it along the vessel of interest. For more specific vessel assessment, the Elite offers a traditional pencil-style 8 MHz probe. The Elite vascular Doppler locates both superficial and deep vessels faster and provides stronger signals than any other Doppler on the market.

High-Quality Sound
The most important output of any Doppler is the sound. Static Suppression Doppler (SSD) technology provides a crystal clear, static-free signal for the best possible diagnostic information. The large, built-in speaker or optional headset provide reliable sound that can be heard publicly or privately.

Optional Recharger
The Elite is available with a standard 9 Volt alkaline battery or a rechargeable 8.4 volt NiMH battery that cuts down on battery replacement.

Secure Rollstand
Introducing a rollstand with a custom bracket for your Nicolet Elite Doppler. Finally there is a way to secure your hand-held Doppler to prevent theft. Simply secure your Nicolet Elite Doppler with our custom “theft-proof” bracket mounted on a durable, lightweight rollstand.
Vascular and Obstetric
Nicolet Elite

Benefits
1. One Doppler meets many needs - display or not; rechargeable or not; obstetric, vascular or both applications; plus a waterproof probe option.
2. Great value - can be configured to specific needs or budgets.
3. Fastest, easiest signal location possible; eliminates any need to angle the probe.
4. For better signals in tight areas. Higher frequency for shallow vessels.
5. Ability to use Doppler probe in underwater labor and delivery without compromising sound quality.
6. One Doppler can be used for both vascular and obstetric applications.
7. Simple probe upgrades.
8. Easy-to-read numeric display to easily determine heart rate.
9. Automatically calculates fetal heart or pulse rate based on the probe application in order to assure accurate results.
10. Minimizes costs for replacement batteries - more convenient.
11. Can be used in the operating room or other sterile environment.
12. Patient and others can hear Doppler sounds.
13. One of the best available.
14. Convenient to carry and use.
15. Makes it easy and convenient to carry the Elite, extra probes and gel.
16. Private monitoring.

Features
1. Completely configurable.
2. Flexible pricing.
3. Special 2, 3 and 5 MHz probe design with broad-beam technology.
4. 8 MHz vascular “pencil-style” probe.
5. Optional waterproof probe.
6. Interchangeable probes.
7. Optional digital heart-rate display.
8. Autocorrelation.
9. Optional rechargeable batteries.
10. Probes can be gas sterilized or sheathed.
12. Five-year parts warranty against manufacture defects.
13. Small hand-held size.
15. Personal headset available.
16. Roll stand with anti-theft bracket option.

Technical Specifications
Width ......................................... 73 mm
Height with probe attached .. 170 mm
Depth ......................................... 24 mm
Weight ....................................... 263.9 grams
Warranty ... 5 years parts, 1 year labor against manufacture defects

Accessories
Product ................................. Catalog #

Probes
2 MHz obstetric probe .......... N200
3 MHz obstetric probe .......... N300
5 MHz vascular probe .......... N500
8 MHz vascular probe .......... N800
2 MHz waterproof probe .......... NW20

Rollstand
With the bracket ......................... ST1
With bracket & storage basket  ...... ST2
Storage basket for rollstand ..... BSKT
Locking Bracket ......................... B100

Charger (100R and 200R models)
110V ......................................... C640
220V ......................................... C640

Batteries
Elite 100R & 200R ....................... C622
Elite 100 & 200 ............................. C623
Coiled Cord .......................... CB0046

Soft-sided carrying case .......... A420
Headset .................................... A210

To order call 1-877-842-7970
carefusion.com
## System Configurations

**Nicolet Elite**

**Elite 100** non-digital display with alkaline batteries
- With 2 MHz obstetric probe .................................................. EN20
- With 3 MHz obstetric probe .................................................. EN30
- With 5 MHz vascular probe .................................................. EN50
- With 8 MHz vascular probe .................................................. EN80
- With 2 & 3 MHz obstetric probes ......................................... EN23
- With 2 MHz obstetric & 5 MHz vascular probes ..................... EN25
- With 2 MHz obstetric & 8 MHz vascular probes ..................... EN28
- With 3 MHz obstetric & 5 MHz vascular probes ..................... EN35
- With 3 MHz obstetric & 8 MHz vascular probes ..................... EN38
- With 5 & 8 MHz vascular probes ......................................... EN58
- With 2 MHz waterproof obstetric probe ................................ EN2W
- Elite 100 with ABI kit and 5 MHz vascular probe .................... EN5A
- Elite 100 with ABI kit and 8 MHz vascular probe .................... EN8A
- Elite 100 without probe ...................................................... ZPK001NP

**Elite 100** non-digital display with rechargeable batteries
- With 2 MHz obstetric probe .................................................. EN20R
- With 3 MHz obstetric probe .................................................. EN30R
- With 5 MHz vascular probe .................................................. EN50R
- With 8 MHz vascular probe .................................................. EN80R
- With 2 & 3 MHz obstetric probes ......................................... EN23R
- With 2 MHz obstetric & 5 MHz vascular probes ..................... EN25R
- With 2 MHz obstetric & 8 MHz vascular probes ..................... EN28R
- With 3 MHz obstetric & 5 MHz vascular probes ..................... EN35R
- With 3 MHz obstetric & 8 MHz vascular probes ..................... EN38R
- With 5 & 8 MHz vascular probes ......................................... EN58R
- With 2 MHz waterproof obstetric probe ................................ EN2WR
- Elite 100R with ABI kit and 5 MHz vascular probe .................. EN5AR
- Elite 100R with ABI kit and 8 MHz vascular probe .................. EN8AR
- Elite 100R without probe .................................................... ZPK002NP

**Elite 200** digital display with alkaline batteries
- With 2 MHz obstetric probe .................................................. ED20
- With 3 MHz obstetric probe .................................................. ED30
- With 5 MHz vascular probe .................................................. ED50
- With 8 MHz vascular probe .................................................. ED80
- With 2 & 3 MHz obstetric probes ......................................... ED23
- With 2 MHz obstetric & 5 MHz vascular probes ..................... ED25
- With 2 MHz obstetric & 8 MHz vascular probes ..................... ED28
- With 3 MHz obstetric & 5 MHz vascular probes ..................... ED35
- With 3 MHz obstetric & 8 MHz vascular probes ..................... ED38
- With 5 & 8 MHz vascular probes ......................................... ED58
- With 2 MHz waterproof obstetric probe ................................ ED2WR
- Elite 200 with ABI kit and 5 MHz vascular probe .................... ED5A
- Elite 200 without probe ...................................................... ZPK003NP

**Elite 200R** digital display with rechargeable batteries
- With 2 MHz obstetric probe .................................................. ED20R
- With 3 MHz obstetric probe .................................................. ED30R
- With 5 MHz vascular probe .................................................. ED50R
- With 8 MHz vascular probe .................................................. ED80R
- With 2 & 3 MHz obstetric probes ......................................... ED23R
- With 2 MHz obstetric & 5 MHz vascular probes ..................... ED25R
- With 2 MHz obstetric & 8 MHz vascular probes ..................... ED28R
- With 3 MHz obstetric & 5 MHz vascular probes ..................... ED35R
- With 3 MHz obstetric & 8 MHz vascular probes ..................... ED38R
- With 5 & 8 MHz vascular probes ......................................... ED58R
- With 2 MHz waterproof obstetric probe ................................ ED2WR
- Elite 200R without probe .................................................... ZPK004NP

*Please refer to page 36 for international and/or 220 volt system catalog numbers*
Doppler Freedom

- High quality speakers.
- Convenient on/off and volume controls on the probe. You’re free to use your other hand to take a blood pressure, locate the fetus or comfort the patient.
- No cord - move anywhere in the room with no restrictions.
- A unique array of multiple infrared transmissions provide a crystal clear, continuous Doppler sound as you move.
- Easy to read, large digital display with autocorrelation.

Vascular Applications

- Vessel detection and localization, aiding in catheter insertion, vessel patency and vessel identification.
- Blood pressures - excellent for low systolic pressure determination and quick ABI (ankle/brachial index) studies.
- Surgery - sheath the probe for surgery, place the base unit outside the surgical field, yet control everything from the probe. One-handed operation simplifies use.

Many areas of the hospital, including the vascular lab, radiology/ultrasound, post-op, anesthesiology, ER, ICU, PICU and CCU, use the FreeDop for vascular applications. The 5 MHz vascular probe is best for deeper vessels and the 8 MHz probe is best for superficial vessels.

Obstetric Applications

The FreeDop offers unmatched accuracy and reliability in fetal heartbeat detection. The 3 MHz probe is used early in pregnancy while the 2 MHz probe has a deeper signal penetration and is best used later in pregnancy or with larger patients.

Versatile Recharging Stand

Place the FreeDop charging stand in the location most convenient for you. Mount it on a wall, place it on a counter top or attach it to an IV pole, then move about with the probe as needed. The base automatically charges when on the recharging stand and the probe recharges when in the base.

Advanced technology

The cordless FreeDop includes features usually available only on large systems, such as high-quality dual speakers and autocorrelation. All four FreeDop probes are interchangeable for the ultimate in convenience. The very high frequency infrared system produces Doppler sounds that are crystal clear and free of distortion.
Vascular and Obstetric

Imex FreeDop

Features
1. Cordless design.
2. Controls on probe.
3. Interchangeable probes.
4. Autocorrelation.
5. Built-in dual speakers.
6. Recharging base with optional IV pole mount.
7. Digital display.
8. Probes can be gas sterilized or sheathed.
9. Five-year parts warranty against manufacture defects.
10. Larger size.
11. Automatic shut off

Benefits
1. Freedom of movement anywhere in the room.
2. One-handed operation. Second hand is free to take blood pressure, manipulate fetus or comfort patient.
3. One system can be used for vascular and obstetric applications.
4. Accurately tracks the fetal heart rate.
5. Superb sound quality. Patient and others can hear sounds.
6. Convenience. System is always ready to use.
7. Accurate display of heart rate in large, easy-to-read numbers.
8. Can be used in operating room.
9. One of the best available.
10. Easy to find. Less likely to be lost or stolen.
11. Keeps batteries from inadvertent discharge.

Technical Specifications
Weight.......................... 1.2 kg (2.6 lbs)
Dimensions
22.6x16.0x11.2 cm (8.9x6.3x4.4 in)
Power Source 110V or 220V recharger.
Main Unit
   Replaceable 12V NiMH battery
Probes
   Replaceable 7.2V NiMH battery
Warranty ... 5 years parts, 1 year labor against manufacture defects

System Configurations*
FreeDop with
2 MHz obstetric probe .......... FR20
3 MHz obstetric probe .......... FR30
5 MHz vascular probe .......... FR50
8 MHz vascular probe .......... FR80
2 & 3 MHz obstetric probes ... FR23
2 MHz obstetric &
5 MHz vascular probes .......... FR25
2 MHz obstetric &
8 MHz vascular probes .......... FR28
3 MHz obstetric &
5 MHz vascular probes .......... FR35
3 MHz obstetric &
8 MHz vascular probes .......... FR38
5 & 8 MHz vascular probes .... FR58
No probe ......................... ZLF00S

*Please refer to page 36 for international and/or 220 volt catalog numbers

Accessories

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<td>F500</td>
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<tr>
<td>8 MHz vascular probe</td>
<td>F800</td>
</tr>
<tr>
<td>Charger with Stand</td>
<td></td>
</tr>
<tr>
<td>110V..................</td>
<td>C643</td>
</tr>
<tr>
<td>220V..................</td>
<td>C630I</td>
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<td>Batteries</td>
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<td>Non-sterile...........</td>
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<tr>
<td>Sterile.............</td>
<td>S300</td>
</tr>
<tr>
<td>Roll Stand with Basket</td>
<td>ST3</td>
</tr>
<tr>
<td>IV Pole/Roll Stand mount kit</td>
<td>V100</td>
</tr>
</tbody>
</table>
Proven Performance

Once you use the IMEXDOP CT+™, you’ll understand why CareFusion is known for giving you more features for your investment. From the easy-to-use touch controls to the unique smart-charging stand, we included all of the features our customers asked for in a Doppler system. The reliability and performance of the IMEXDOP CT+ has been proven with years of experience and thousands of units in use.

Interchangeable Probes

Five interchangeable probes covering a wide range of applications are available for use with the IMEXDOP CT+. The 2 MHz probe has deeper penetration and is best suited for monitoring the fetal heart tones in larger women and women later in their pregnancy. A 2 MHz waterproof probe can be used for patients who opt for underwater labor or delivery. The 3 MHz probe has a shallower penetration than the 2 MHz probe and is used in the early stages of pregnancy.

For vascular use, the 5 and 8 MHz probes provide access to both deep and superficial arteries and veins for determining systolic blood pressures, vessel patency and locating hard-to-find vessels. IMEXDOP CT+ probes are interchangeable with probes from the Pocket-Dop II for maximum flexibility between CareFusion Doppler systems. You can store two probes at a time in the protective probe holders on the unit.

Exceptional Features

Built-in, dual speakers provide superb sound quality, even in the noisiest environments. The unit is larger than our pocket style Dopplers, to ensure it does not get misplaced or stolen, yet it is lightweight at 2.7 lbs. The “On/Off” and volume controls are easily accessible. An LED display shows whether the system is turned on, charging or has low batteries. An automatic “Off” circuit conserves battery life when not on the charging stand.

Digital Readout

The IMEXDOP CT+ automatically calculates the fetal heart rate or a pulse, so there is no need to use a watch. State-of-the-art autocorrelation tracks the complex fetal heart sounds and vascular blood flow to provide an accurate count every time.

Automatic Recharging

The IMEXDOP CT+ can be placed on a counter, mounted on the wall or an IV pole. The convenient charging stand is one of a kind. Simply place the IMEXDOP CT+ into the stand between uses. It will automatically recharge so it is ready to go when you need it next.
Vascular and Obstetric

IMEXDOP CT+

Features
1. Interchangeable probes.
2. Autocorrelation.
4. Recharging base with optional IV pole mount.
5. Digital display.
6. Probes can be gas sterilized or sheathed.
7. Five-year parts warranty against manufacture defects.
8. Waterproof probe option.
9. Larger size.

Benefits
1. One system can be used for vascular and obstetric applications.
2. Accurately tracks the fetal heart rate or vascular pulse rate.
3. Superb sound quality. Patient and others can hear sounds.
4. Convenience. System is always ready to use.
5. Accurate display of heart rate in large, easy-to-read numbers.
6. Can be used in sterile environments.
7. One of the best available.
8. For underwater labor and deliveries.
9. Easy to find. Less likely to be lost or stolen.

Technical Specifications
- **Weight**: 1.2 kg (2.7 lbs)
- **Dimensions**: 22.4x10.9x15.7 cm (8.8x4.3x6.3 in)
- **Power Source**: 110V or 220V recharger
- **Warranty**: 5 years parts, 1 year labor against manufacture defects

System Configurations*

<table>
<thead>
<tr>
<th>IMEXDOP CT+ with</th>
<th>Catalog #</th>
</tr>
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<tbody>
<tr>
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*Please refer to page 36 for international and/or 220 volt catalog numbers

Accessories

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<td>2 MHz obstetric probe</td>
<td>T200</td>
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<td>3 MHz obstetric probe</td>
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<td>5 MHz vascular probe</td>
<td>T500</td>
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<tr>
<td>8 MHz vascular probe</td>
<td>T800</td>
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<tr>
<td>2 MHz waterproof obstetric probe</td>
<td>WP20</td>
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<tr>
<td>Charger with Stand</td>
<td>C643</td>
</tr>
<tr>
<td>110V</td>
<td>C630I</td>
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<td>220V</td>
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<td>Battery</td>
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<td>Roll Stand with Basket</td>
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<td>IV Pole/Roll Stand mount kit</td>
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</tr>
<tr>
<td>Coiled Cord</td>
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</table>
Obstetric and Vascular Versatility

Pocket-Dop II is a full-featured Doppler with interchangeable obstetric and vascular probes. Use the 2 or 3 MHz obstetric probes to monitor the fetal heartbeat. Use the 5 or 8 MHz vascular probes to screen patients at risk for stroke, peripheral arterial disease and other occlusive vascular conditions or to monitor difficult pulses and obtain systolic blood pressures quickly and easily.

Obstetric Examination

The Pocket-Dop II is a valuable aid in detecting pregnancy and monitoring the fetal heartbeat. The built-in speaker amplifies fetal sounds to reassure the expectant mother. A complete obstetric system should include a 3 MHz probe for early fetal heartbeat detection and a 2 MHz probe for use in later pregnancy or with larger patients. A 2 MHz waterproof probe is ideal for underwater labor or delivery.

Vascular Applications

Use the Pocket-Dop II to compare simple Doppler blood pressures in the arm and ankle to help diagnose arterial disease in the lower extremities. Or quickly screen for lower extremity vascular conditions such as valvular incompetence.

Emergencies and Challenging Clinical Situations

The Pocket-Dop II can be used to accurately monitor pulses and systolic blood pressures, even in the noisiest environments; confirm blood flow to wound sites, locate vessels for catheterization, withdrawal, injection or IV therapy; clearly hear low systolic blood pressures with patients who are diabetic, elderly or in shock.

To order call 1-877-842-7970
### Technical Specifications

**Weight** ........................................ 0.285 kg (10 oz)

**Dimensions**

3.17x5.71x10.79 cm (1.25x2.25x4.25 in)

**Power Source**

110V or 220V recharger

**Warranty**

... 5 years parts, 1 year labor against manufacture defects

### System Configurations*

**Pocket-Dop II with**

- 2 MHz obstetric probe ............... P200
- 3 MHz obstetric probe ............... P300
- 5 MHz vascular probe ................. P500
- 8 MHz vascular probe ................. P800
- Two 2 MHz obstetric probes ........ P220
- 2 & 3 MHz obstetric probes ......... P230
- 2 MHz obstetric & 5 MHz vascular probes ............... P250
- 2 MHz obstetric & 8 MHz vascular probes ............... P280
- Two 3 MHz obstetric probes ....... P330
- 3 MHz obstetric & 5 MHz vascular probes ............... P350
- 3 MHz obstetric & 8 MHz vascular probes ............... P380
- Two 5 MHz vascular probes ........ P550
- 5 & 8 MHz vascular probes ........ P580
- Two 8 MHz vascular probes .......... P880
- 2 MHz waterproof obstetric probe ...................... P2WP
- No probe ........................................ PX00

*Please refer to page 36 for international and/or 220 volt catalog numbers

### Accessories

**Probes**

- 2 MHz obstetric probe ............... T200
- 3 MHz obstetric probe ............... T300
- 5 MHz vascular probe ................. T500
- 8 MHz vascular probe ................. T800
- 2 MHz waterproof probe ........... WP20

**Rollstand**

- With the bracket ...................... ST1
- With bracket & storage basket ..... ST2
- Storage basket for rollstand ...... BSKT
- Locking bracket only ............... B100

**Charger**

- 110V................................. C610
- 220V................................. C619I
- Battery............................... C620
A Variety of Solutions

Nicolet Dopplers offer unmatched accuracy and reliability in fetal heartbeat detection and are the first choice of most OB/GYNs. Most of our Dopplers offer interchangeable obstetric probes: 2 MHz for larger women or later in pregnancy, 3 MHz as a general purpose probe and a 2 MHz waterproof probe for underwater labor and delivery. Most units also offer vascular probes for monitoring blood flow.

Elite® - The versatile solution

Broad-beam technology and a large probe face provide a unique method of quickly locating the fetal heartbeat - no need to angle the probe! Exclusive SSD™ technology ensures the best possible sound. Optional recharger and digital display. Waterproof 2 MHz and vascular probes are also available.

Pocket-Dop II™ - Flexible and reliable

The favorite Doppler worldwide. Full-featured system with built-in speaker to amplify fetal heartbeat. Complete with all accessories: headset, rechargeable batteries, recharger, carrying case and audio CD. Waterproof 2 MHz probe and vascular probes are also available.

Pocket-Dop 3™ - Versatile fetal heartbeat detection

The Pocket-Dop 3 is a valuable aid in detecting pregnancy and monitoring the fetal heartbeat. The built-in speaker amplifies fetal heart sounds to reassure the expectant mother. The Pocket-Dop 3 features interchangeable probes: the 3 MHz probe is for early fetal heartbeat detection and the 2 MHz probe for use in later pregnancy or with larger patients. The small “footprint” of these probes enables them to be easily angled down behind the pubic bone for optimum detection of early fetal heartbeats.

VersaLab® APM/APM2 - Portable and affordable

A portable, economical antepartum monitor (VersaLab APM or APM2 for twins) for performing non-stress tests. It is the smallest and lightest (4.1 lbs) APM available featuring an integrated printer. Both monitors can be battery or line operated. Set up is simple with special strip belts, color-coded connectors and easy-load paper.

FreeDop™ - Revolutionary cordless Doppler

Total freedom of movement! Perfect in the operating/delivery room. One-hand operation - controls are on the probe. Unit stays outside the sterile field. Digital readout with auto-correlation. Recharging stand mounts on a counter, wall or IV pole. Vascular probes are also available.

IMEXDOP CT+™ - The hospital Doppler of choice

A sturdy, portable system with easy-to-use controls. Includes digital readout with autocorrelation. Recharging stand mounts on a counter, wall or IV pole. It’s perfect for semi-permanent mounting in any exam room. Waterproof 2 MHz probe and vascular probes are also available.
Imex Pocket-Dop 3

Interchangeable, Convenient Probes
The Pocket-Dop 3 is a valuable aid in detecting pregnancy and monitoring the fetal heartbeat. The built-in speaker amplifies fetal heart sounds to reassure the expectant mother. The Pocket-Dop 3 features interchangeable probes: the 3 MHz probe is for early fetal heartbeat detection and the 2 MHz probe for use in later pregnancy or with larger patients. The small “footprint” of these probes enables them to be easily angled down behind the pubic bone for optimum detection of early fetal heartbeats. When not in use, the probe is attached to the side of the unit by a unique magnetic holder. Obstetric exams are quick, easy and reliable with the Pocket-Dop 3.

Accuracy of Autocorrelation
The Pocket-Dop 3 features auto-correlation which is a pattern recognition technique that quickly acquires and accurately tracks the complex signal of the fetal heart rate. This reduces the time wasted waiting for the system to acquire the best signal to read the fetal heart rate. The system averages the heart rate on command and then shows it in a high-contrast display panel. After three minutes of non-use, the unit turns itself off.

Smart Recharging System
The Pocket-Dop 3 comes with a convenient recharging stand to be placed on a counter or mounted to a wall. This smart recharging system won’t overcharge the Doppler which ensures maximum battery life. The Pocket-Dop 3 is always handy and ready for use.

Features
1. Digital Heart Rate Display
2. Autocorrelation
3. Interchangeable probes
4. Recharging stand
5. Belt clip
6. Educational Doppler Sounds CD
7. Personal Headset
8. Magnetic Probe Holder
9. Soft-sided carrying case

Benefits
1. Large, easy to read numeric display clearly shows the fetal heart rate.
2. A pattern recognition technique that accurately tracks the fetal heart rate.
3. One unit can be used to detect fetal heart tones in early and late term pregnancy.
4. Minimizes cost for replacement batteries; convenient to use.
5. Eliminates the need to carry the unit in your hand – simply attach it to your pocket or belt.
6. Helps to learn and recognize the sound of fetal heart beat and maternal blood flow.
7. Allows for private monitoring.
8. Gently cradles probe and protects probe face.
9. Makes it easy and convenient to carry the Pocket-Dop 3 and extra gel. Helps to protect Doppler.

Technical Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>12.7x8.38x2.5 cm (5x3.3x1 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.285 kg (10 oz)</td>
</tr>
<tr>
<td>Power Source</td>
<td>110 volt recharger,.............8.4 volt rechargeable battery...........220 volt rechargeable available</td>
</tr>
<tr>
<td>Warranty</td>
<td>5 years parts, 1 year labor against manufacture defects This product is not CE marked.</td>
</tr>
</tbody>
</table>

System Configurations*

Pocket-Dop 3 with
2 MHz obstetric probe .......... J200
Two 2 MHz obstetric probes ...... J220
3 MHz obstetric probe .......... J300
2 & 3 MHz obstetric probes ...... J230
Two 3 MHz obstetric probes ...... J330
No probe ........................... JX00

*Please refer to page 36 for international and/or 220 volt catalog numbers

Accessories

Product............................Catalog #
Probes
2 MHz obstetric probe .......... H200
3 MHz obstetric probe .......... H300
Charger
110V.............................................C640
220V............................................. C640I
Charging Stand.........................C641
Battery........................................C622
Coiled Cord...........................CB0046
The Perfect Portable Solution
The Nicolet VersaLab APM is a portable, economical antepartum monitor (APM) for performing non-stress tests. It is the smallest and lightest APM available that features a built-in printer. The Versalab APM2 system allows you to perform non-stress testing on one or two fetuses simultaneously.

 Truly Portable
The VersaLab APM and APM2 are the only compact antepartum monitors with a built-in printer. Each system weighs less than 2 kg (4.1 pounds) and can be battery or line operated for portability and convenience. It can be easily moved between exam rooms, satellite clinics, or taken to remote settings, which makes it ideal for clinicians who do in-home monitoring. Now with battery operation there is no need to interrupt monitoring if you have to move the patient.

 Integrated Printer
The integrated printer in the VersaLab systems provides an immediate, real time printout of the non-stress test so there is no waiting for results. Unlike other “portable” systems that require connection to a separate printer, there is no reason to delay interpretation with VersaLab’s built-in printer.

 Patient Records
The VersaLab systems provide on-the-spot documentation of the non-stress test. Both systems print the date, start time, end time and time elapsed for the exam. The printout includes simple notation areas for the patient name and number, examiner name and notes. If alarm limits have been turned on, the High and Low alarm settings will appear on the printout as well as indicate when an alarm has been triggered. This comprehensive documentation is clear, easy to interpret, aids in reimbursement, allows for placement in the patient’s chart and makes follow-up tests easier to compare.

 Numeric or Graphic Display
You can choose whether the display on the VersaLab APM shows the Fetal Heart Rate (FHR) and Toco readouts as large numbers or as a graph trended over time. The printout will always show the test data in a simple to review graphic format.

 The VersaLab APM2 display automatically switches from a single FHR when one Doppler probe is in use to a dual FHR mode when two probes are used for monitoring twins. When two Doppler probes are in use, the data is shown in different colors in separate display boxes for each fetal heart rate. The Toco data is shown in its own display box. When viewing the printout, the two heart rates are easy to distinguish with one shown in black and the other in gray.

“Nicolet VersaLab Antepartum Monitors from CareFusion are the perfect addition to my clinical practice.”

To order call 1-877-842-7970
Obstetric

Nicolet VersaLab APM and APM2

Applicable CPT Codes for Fetal Monitoring

The information about Medicare’s relative value payment below represents a national average reimbursement amount associated with the codes. This fee schedule applies to Medicare payments only and may not reflect the true cost of the services provided. Private sector fees will vary.

Medicare Payment***

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Non Facility*</th>
<th>Facility**</th>
</tr>
</thead>
<tbody>
<tr>
<td>59050</td>
<td>Fetal monitoring during labor by consulting physician (i.e., non-attending</td>
<td>$52.60</td>
<td>$52.60</td>
</tr>
<tr>
<td></td>
<td>physician) with written report; supervision and interpretation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>59051</td>
<td>Fetal monitoring during labor by consulting physician (i.e., non-attending</td>
<td>$43.77</td>
<td>$43.77</td>
</tr>
<tr>
<td></td>
<td>physician) with written report; interpretation only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99500</td>
<td>Home visit for prenatal monitoring and assessment to include fetal heart rate, non-stress test, uterine monitoring, and</td>
<td>$0.00</td>
<td>$0.00</td>
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<tr>
<td></td>
<td>gestational diabetes monitoring</td>
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<tr>
<td>99356</td>
<td>Prolonged physician service in the inpatient setting, requiring direct (face-to-face) patient contact beyond the usual</td>
<td>$87.55</td>
<td>$87.55</td>
</tr>
<tr>
<td></td>
<td>service (e.g., maternal fetal monitoring for high risk delivery or other physiological monitoring, prolonged care of an</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>acutely ill patient); first hour (List separately in addition to code for inpatient Evaluation and Management service)</td>
<td></td>
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<tr>
<td>99357</td>
<td>Prolonged physician service in the inpatient setting, requiring direct (face-to-face) patient contact beyond the usual</td>
<td>$88.29</td>
<td>$88.29</td>
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<tr>
<td></td>
<td>service (e.g., maternal fetal monitoring for high risk delivery or other physiological monitoring, prolonged care of an</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>acutely ill patient); each additional 30 minutes (List separately in addition to code for prolonged physician service)</td>
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<tr>
<td>59025</td>
<td>Fetal non-stress test</td>
<td>$43.28</td>
<td>$43.28</td>
</tr>
</tbody>
</table>

*Non Facility: Includes all other settings.
**Facility: Includes hospitals (inpatient, outpatient and emergency department), ambulatory surgical centers (ASCs), and skilled nursing facilities (SNFs).
***Current Procedural Terminology (CPT) codes, descriptions and other data only are copyright 2002 American Medical Association. All Rights Reserved. CPT is a trademark of the American Medical Association.

Accessories

Product.............................................................................Catalog #
Probes
2.0 MHz VersaLab APM/APM2 Doppler Probe.......TV200
1.8 MHz VersaLab APM2 Doppler Probe..............TV180
VersaLab APM/APM2 Toco Probe ......................TV100
Accessories
VersaLab APM/APM2 Event Marker ..............DV100
VersaLab Carrying Case ................................A430
Reusable Transducer Belts (2 per package).......D300
Printer Paper (Qty 5)........................................A355
Toco Probe Covers (Qty 5)......................DV400
Roll Stand with Basket..............................ST3
Tilt-Stand .............................................ST30
VersaLab APM/APM2 Power Supply .............C644
VersaLab APM/APM2 Power Cord (110V)........C645
VersaLab APM/APM2 Power Cord (220V)........C645I
VersaLab APM/APM2 Battery Pack ...............C633
IV Pole/Roll Stand Mount Kit ....................V200

To order call 1-877-842-7970
### Features
1. Easy to set-up and simple to operate.
2. Can be battery or line operated.
3. Weighs only 1.9 kg (4.1 lbs.).
4. Fast, integrated printer.
5. Real-time print out.
6. Fetal heart rate signal quality indicator.
7. Renowned Nicolet Doppler quality.
8. Sensitive Toco transducer.
10. Configurable alarms.
11. Large display in numeric or graphic mode.
12. Belts easily connect to transducers.
15. Adjustable tilt stand for wall mounting or desk-top use.
17. Attractively priced.
18. Convenient roll stand/IV pole mount kit option.

### Benefits
1. Short training period.
2. Perform a non-stress test anywhere needed. No need to interrupt testing to move the patient.
3. It’s portable and convenient.
4. Totally integrated into one unit for convenience and portability. No ink cartridges to replace. Lower-cost paper. Fewer connections, less to go wrong.
5. Provides on-the-spot documentation of the non-stress test. Comprehensive documentation is clear, easy to interpret and aids in reimbursement.
6. Assists in best transducer placement and minimizes trace drop-outs.
7. Easier to locate and track fetal heart rate.
8. Provides valuable movement information.
10. Set to your requirements. More personalized testing.
11. Makes Fetal Heart Rate (FHR) and Toco data easy-to-read. On APM2 model display automatically switches from a single FHR when one Doppler probe is used to dual FHR mode when two probes are used for simultaneous monitoring of twins.
13. Quick identification, easy and fast set-up.
14. Makes it easy to transport APM and APM2 between exam rooms and satellite clinics, or to take to remote settings.
15. Increased versatility. Eliminates countertop clutter.
16. Designed for durability and long life.
17. Affordable for most office practices or where multiple units are needed.
18. Allows freedom to easily move VersaLab between exam rooms.

### Technical Specifications
**Weight, Main Unit Only**: 1.9 kg (4.1 lbs)

**Dimensions**
31x23x7.3 cm (12.2x9.1x2.9 in)

**Doppler Technology**
Continuous Wave (CW) unfocused
2.0 MHz probe
Continuous Wave (CW) unfocused
1.8 MHz probe

**Battery Type**
7.2V NiMH, 6x4/5A, rechargeable

**Full Charge Life**: 3 hours

**Battery Recharge Time**: 3 hours

**Operating Ambient Temperature**
10º C - 40º C (50º F - 104º F)

**Graphic Display**
320 x 240 pixel color or b/w

**Printer**
Thermal, 104 mm print width, 832 dots, 8 dots/mm

**Printer Paper**
Roll, 82 ft, 112 mm wide, thermal (7 year print-out archiveability)

**Print Speed**
1 cm/minute, 2 cm/minute and 3 cm/minute

**Speakers**
(2) 66 mm, 8Ω, 0.5 watt

**Audio Output**
0.5 watt per channel

**Recharger, INPUT**
100 - 250 VAC, 50/60 Hz, Model WSL170M

**Recharger, OUTPUT**
7vDC @ 3.5 A, Model WSL170M

**Safety Standards**
IEC 606-1 Classification
Internally/Externally powered equipment

**Warranty**
1 year parts and labor against manufacture defects

### System Configurations*

**Complete VersaLab APM System** with 2.0 MHz Probe** for single fetus heart rate monitoring
MVAPM

**Complete VersaLab APM System** with Roll Stand with 2.0 MHz Probe** for single fetus heart rate monitoring
MVAPMS

**Complete VersaLab APM2 System** with 2.0 MHz & 1.8 MHz Probes** for single and twin heart rate monitoring
MVAPT

**Complete VersaLab APM2 System** with Roll Stand, 2.0 MHz and 1.8 MHz Probes** for single and twin heart rate monitoring
MVAPTS

**All systems include Toco probe, event marker, tilt stand, transducer belts, printer paper, users manual, gel, power supply and cord**

*Please refer to page 36 for international and/or 220 volt catalog numbers

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[Image of a patient with a fetal monitor setup]
Vascular

Portable and Hand-Held Vascular Dopplers

A Variety of Solutions

Unmatched accuracy and reliability. Nicolet Dopplers are perfect for monitoring hard-to-find pulses and low systolic blood pressures, locating vessels for catheterization and performing an ankle/brachial index (ABI) test to screen for peripheral vascular disease. Most of our Dopplers offer interchangeable 5 and 8 MHz vascular probes; 5 MHz for deeper vessels as well as some superficial, 8 MHz strictly for superficial applications.

Elite® - The versatile solution

Broad-beam technology and a large probe face provide a unique method of quickly locating vascular signals - no need to angle the probe! Exclusive SSD™ technology ensures the best possible sound. Optional recharger and digital display. An 8 MHz pointed-style probe is available. Obstetric and waterproof probes are available.

Pocket-Dop II™ - Flexible and reliable

The favorite Doppler worldwide. Full-featured system with built-in speaker. Complete with all accessories; headset, rechargeable batteries, recharger, carrying case and audio training CD. Obstetric and waterproof probes are also available.

FreeDop™ - Revolutionary cordless Doppler

Total freedom of movement! One-hand operation - controls are on the probe. Standard digital readout with auto-correlation included. Recharging stand mounts on a counter, wall or IV pole. Probe can be sheathed for use in surgery, with base unit conveniently placed outside the surgical field. Obstetric probes also available.

VersaLab® LE & SE - Compact and economical

A portable, battery or line operated Doppler system to perform basic vascular and ABI (Ankle/Brachial Index) testing anywhere. Bi-directional Doppler with a display and printout makes documentation for reimbursement fast and convenient. All the features you need at an affordable price.

StethoDop™ - Twists onto your stethoscope

This innovative 5 MHz vascular Doppler twists quickly and easily onto a stethoscope. It's ideal for listening to blood flow in peripheral vessels, improving diagnostic capabilities. The small, lightweight StethoDop allows the user to quickly switch between stethoscope and Doppler use. It fits many existing bell-style stethoscopes and doesn’t interfere with stethoscope function.

IMEXDOP CT+™ - The hospital Doppler of choice

A sturdy, portable system with easy-to-use controls. Includes digital readout with auto-correlation. Recharging stand mounts on a counter, wall or IV pole. It's perfect for semi-permanent mounting in any exam room. Obstetric and waterproof probes are also available.
Turn your Stethoscope into a Doppler

Your most familiar diagnostic tool just got better. Now CareFusion offers something truly unique for your stethoscope - a 1.5 ounce quick-connect Doppler. Nothing is more convenient, lightweight, powerful and versatile than the StethoDop. It is the first Doppler that twists on and off most bell-style stethoscopes in seconds. Most importantly, it never interferes with the normal operation of your stethoscope.

Compact Convenience

The ingenious StethoDop provides many benefits previously available only in larger Doppler systems, including crystal-clear signals, high-quality audio and a sensitive, easy-to-use 5 MHz transducer. The pre-angled, wide beam crystals cover a large area, allowing for faster vessel location. Simply align the StethoDop probe face flat along the desired vessel, press the instant “on” button and listen to something new.

Powerful Diagnostic Aid

Use the StethoDop to quickly and easily listen to blood flow throughout the peripheral vascular system.

- Obtain systolic blood pressures even with weak pulses.
- Perform fast ABI (ankle/brachial index) exams to screen for peripheral arterial disease.
- Evaluate blood flow to wound sites.
- Quickly screen for lower extremity vascular conditions.
- Use as an aid to catheter insertion and to determine vessel patency.

Now sensitive blood flow detection is available in high ambient noise environments, including emergency vehicles, aircraft, trauma centers and other high-traffic areas.
Vascular

Nicolet StethoDop

Features
1. Twists onto many existing bell-style stethoscopes.
2. Uses custom non-chill ring to attach to many existing stethoscopes.
3. Special broad-beam probe design.
4. Small size, light weight.
5. Easy “On/Off” button.
6. Convenient carrying pouch.
7. Replaceable batteries.
8. Simple to operate.
9. Evaluates blood flow sounds, not body sounds.

Benefits
1. Adding Doppler capability to a stethoscope is quick and easy.
2. Doesn’t interfere with use of stethoscope.
3. Easy-to-find signal. Simple to use, even for inexperienced staff members.
4. Convenient to keep in a pocket - always available.
5. Eliminates risk of unit accidentally being left on, draining batteries.
6. Easy-to-carry when not attached to stethoscope. Helps to prevent damage.
7. Changing batteries is quick and simple - just swing open battery door and replace the three button batteries.
8. Short learning curve with fast results. Not intimidating to those wary of technology.
9. Increases the use and versatility of the stethoscope. Improves diagnostic capabilities.

Technical Specifications
- **Weight**: 45 grams (1.5 oz)
- **Dimensions**: 6.25x3.75x2.5 cm. (2.5x1.4x1 in)
- **Battery Type**: 3 each, 3 VDC lithium-type 1/3N cells
- **Warranty**: 1 year parts and labor against manufacture defects

System Configurations
- StethoDop .................................. SD50
- StethoDop with cardiology-style stethoscope .................................. SD52

Accessories
- **Product**.......................... **Catalog #**
- **Stethoscope** .......................... SS10
- **Cardiology style** .................... A600
- **Accessory Pack (battery/non-chill ring/speaker coupler)** .................... A410
The Nicolet VersaLab is a portable, battery or line operated Doppler system for evaluation of the peripheral vasculature. Crisp, clear Doppler sound is now complemented with a display and printout to make documentation for reimbursement fast and convenient!

Compact, Economical and Versatile
The VersaLab lets you perform basic vascular testing anywhere. This bi-directional Doppler has a built-in printer for fast and easy documentation. And best of all, the compact VersaLab is loaded with diagnostic features at a value-packed price.

Bi-Directional
The VersaLab is available with bi-directional 4 or 8 MHz frequency, continuous wave Doppler transducers. You can select the optimum frequency for the peripheral application of your choice.

Documentation for Reimbursement
Now you can hear and see the results from your Doppler testing procedures. VersaLab’s built-in printer provides fast, complete and accurate documentation. A unique image scrolling feature allows you to review up to 50 seconds of data and choose the ideal waveforms to document the patient’s condition. No other portable system offers the flexibility to preview the printout helping to eliminate wasted time and paper! All of the pertinent information appears on the printout: date, time, probe frequency and settings, velocity and various calculations. Documentation is complete with room for examiner’s comments. This comprehensive documentation aids in reimbursement, allows for placement in the patient’s chart and makes repeat studies for follow-up or research purposes easier.

Portable and Convenient
The VersaLab weighs a mere 1.9 kg (4.1 pounds) and is battery or line operated for the ultimate in portability and convenience. A tilt-stand allows for wall mounting or desktop use with adjustment for the perfect viewing angle. Roll stand/IV pole mount kit makes it easy to make the VersaLab portable keeping counter-tops clear.

Accurate Visualization and Quantification
The VersaLab portable Doppler system is available in two models. The simple waveform traces on the VersaLab LE clearly indicate the peak or mean blood flow profile. The VersaLab SE, with spectral analysis, displays more comprehensive information about all components of the blood flow profile. It allows you to quickly delineate venous from arterial flow, and accurately indicate conditions such as turbulence. Both systems offer accurate visualization and quantification of blood flow parameters including velocity, directionality and a host of calculated measurements.

Benefits of Color Spectral Display
- Review all frequency components of blood flow profile
- Visualize turbulence and other flow disturbances
- Determine and document the quality of flow
- Quickly distinguish arterial from venous signals
**Technical Specifications**

**Weight, main unit only**
1.9 kg (4.1 lbs)

**Dimensions**
31 x 23 x 7.3 cm
(12.2 x 9.1 x 1.9 in)

**Doppler Technology**
Continuous Wave (CW) unfocused
Both 4 MHz and 8 MHz probes available

**Battery type**
7.2V NiMH, 6x4/5A, rechargeable
(Cat #C633)

**Full Charge Life**
3 hours

**Operating Ambient Temperature**
10º C - 40º C (50º F - 104º F)

**Graphic Display**
320 x 240 pixel; Color or B&W LCD available

**Printer**
Thermal, 104 mm print width, 832 dots, 8 dots/mm

**Printer Paper**
Roll, 82 ft, 112 mm wide, thermal (7 year print-out archivability)

**Print Speed**
12.5 mm/s

**Timescales**
7.5, 15, 25 mm/s

**Speakers**
(2) 66 mm, 8W, 0.5 watt

**Audio Output**
0.5 watt per channel

**Headset**
3.5 mm jack, 32 ohm

**Spectral Response**
200 Hz - 10 KHz

**FFT (Fast Fourier Transform)**
256 point, 10 msec Hamming window

**Recharger, INPUT**
100 - 250 VAC, 50/60 Hz, Model WSL170M

**Recharger, OUTPUT**
7vDC @ 3.5A, Model WSL170M

**Safety Standards**
IEC 601-1

**Classification**
Internally/Externally powered equipment

**Classification of Protection Against Electrical Shock**
Type B

**Warranty**
1 year parts and labor against manufacture defects

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**Vascular Nicolet VersaLab LE/SE**

<table>
<thead>
<tr>
<th>System Configurations</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete system includes:</td>
<td>Product</td>
</tr>
<tr>
<td>- probe(s) (of your choice)</td>
<td>4 MHz probe only</td>
</tr>
<tr>
<td>- power supply with cord</td>
<td>8 MHz probe only</td>
</tr>
<tr>
<td>- tilt stand</td>
<td>Power Supply 110-250V</td>
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<tr>
<td>- printer paper (1 roll)</td>
<td>Power Cord, 110V</td>
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<tr>
<td>- 1 pad report forms</td>
<td>Power Cord, 220V</td>
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<tr>
<td>- laminated ABI chart</td>
<td>Battery</td>
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<tr>
<td>- gel</td>
<td>Printer Paper (Qty. 5 rolls)</td>
</tr>
<tr>
<td>- users manual</td>
<td>Soft-sided Carrying Case</td>
</tr>
</tbody>
</table>

**VersaLab LE with:**

- 4 MHz probe | VLL40 |
- 8 MHz probe | VLL80 |
- 4 & 8 MHz probe | VLL48 |
- 8 MHz probe & ABIV Cuff Kit | VLL80A |
- 8 MHz probe, ABIV Cuff Kit, V200 Mounting Bracket & ST3 Roll Stand | VLL80AS |
- 8 MHz probe, V200 Mounting Bracket & ST3 Roll Stand | VLL80S |

**VersaLab SE with:**

- 8 MHz probe | VLS40 |
- 8 MHz probe | VLS80 |
- 4 & 8 MHz probe | VLS48 |

**VersaLab LE Int'l with:**

- 8 MHz probe | VLL40I |
- 8 MHz probe | VLL80I |
- 4 & 8 MHz probes | VLL48I |

**VersaLab SE Int'l with:**

- 8 MHz probe | VLS40I |
- 8 MHz probe | VLS80I |
- 4 & 8 MHz probes | VLS48I |
Features
1. Perform comprehensive vascular testing anywhere.
2. Bi-directional.
3. Color spectral analysis feature with VersaLab SE.
4. Black and white waveform trace with VersaLab LE.
5. Fast, built-in thermal printer.
7. 4 and 8 MHz bi-directional probes.
8. Variety of industry standard diagnostic calculations and indices.
9. Adjustable tilt stand for wall mounting or counter-top use.
10. Convenient roll stand/IV pole mount kit option.

Benefits
1. VersaLab can be line or battery operated.
2. Required for reimbursement. Determines flow direction.
3. The color spectral analysis option offers accurate visualization, quantification and documentation of blood flow parameters including velocity, directionality and a number of calculated measurements.
4. The black and white waveform trace is perfect for basic evaluation and documentation with a more economical price.
5. For quality documentation of all information obtained, ready to submit or place in patient records.
6. Weighs only 1.9 kg (4.1 lbs) so it is portable and convenient.
7. Continuous wave Doppler transducers optimized for detecting blood flow throughout peripheral parts of the body.
8. Calculated to complement the capabilities of the VersaLab and quantify the study for research, patient records and monitoring of patient progress.
9. Allows user to angle display to their preference. Mounting to the wall eliminates counter-top clutter.
10. Allows freedom to easily move VersaLab between exam rooms.

Ankle/Brachial Index (ABI) Exams
Codes that May be Applicable for Use with VersaLab*

CPT Code 93922
Non-invasive physiologic studies of upper or lower extremity arteries, single level, bilateral (for example, ankle/brachial indices, Doppler waveform analysis, volume plethysmography, transcutaneous oxygen tension measurement).

ICD-9 Codes for Extremity Arterial Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>440.0</td>
<td>Atherosclerosis of aorta</td>
</tr>
<tr>
<td>440.21</td>
<td>Atherosclerosis of the extremities with intermittent claudication</td>
</tr>
<tr>
<td>440.22</td>
<td>Atherosclerosis of the extremities with rest pain</td>
</tr>
<tr>
<td>440.23</td>
<td>Atherosclerosis of the extremities with ulceration</td>
</tr>
<tr>
<td>440.24</td>
<td>Atherosclerosis of the extremities with gangrene</td>
</tr>
<tr>
<td>440.30-440.32</td>
<td>Atherosclerosis of bypass graft of extremities</td>
</tr>
<tr>
<td>443.0-443.89</td>
<td>Other peripheral vascular diseases</td>
</tr>
<tr>
<td>443.9</td>
<td>Other peripheral vascular diseases</td>
</tr>
</tbody>
</table>

* Please note: ICAVL recommends that you contact the insurance carriers in your area for the most accurate and current reimbursement information.
The ABI Kits

- Quick and Easy
- Affordable
- Everything for screening included

PAD Screening, more important than cholesterol screening?

Now you can screen for life-threatening disease quickly, easily and affordably in your office. According to studies published in the New England Journal of Medicine, the risk of death is 3 to 6 times higher for patients who have Peripheral Arterial Disease (PAD) than for those who don’t. Patients over age 60 with symptomatic and severe disease have a risk of death up to 15 times higher compared with risk only 1.4 to 1.7 times higher for high-cholesterol patients.

A related study published by Dr. Criqui, et al. states: “A new understanding of PAD has emerged from recent studies. The new data demonstrates how non-invasive testing can define the presence of PAD more precisely than the crude assessments physicians have had to rely on at times in the past. These studies have identified, more clearly than ever before, the associated risk factors requiring the intervention of the primary physician.”

Getting Started

CareFusion has developed a kit to test for Peripheral Arterial Disease (PAD). The ABI Kit has everything you need to screen your patients. The test only takes a few minutes and is as simple as taking a blood pressure.

Training Is Fast and Easy

A quick reference guide and short PowerPoint presentation on a CD-ROM shows your staff how to perform the test and document the results. After a little practice, your staff will be ready to start identifying disease. Results are quickly recorded on a preprinted report form that includes a vascular history questionnaire.

Value-Added Package

The ABI Kits are affordable and complete. A kit includes the following:

- Nicolet Elite or Imex Pocket-Dop II, a reliable, highly-sensitive Doppler
- Choice of either a 5 MHz or 8 MHz probe
- 4-10 cm quick disconnect vascular cuffs
- Sphygmomanometer
- Training CD-ROM presentation and booklet
- Patient Education Pamphlets
- Report forms and vascular history questionnaire with ABI chart

Kit Configurations

System with ABI Cuff Kit .................. Catalog #
Elite 100 with 5 MHz vascular probe .......... EN5A
Elite 100 with 8 MHz vascular probe .......... EN8A
Elite 100R with 8 MHz vascular probe ....... EN8AR
Elite 200 with 8 MHz vascular probe .......... ED8A
Pocket-Dop II with 5 MHz vascular probe .. PAD5
Pocket-Dop II with 8 MHz vascular probe .. PAD8

---

Clinical Indications for Doppler Use in Extended Care

Older patients’ veins and arteries are less pliable than younger patients’. This makes even a simple pulse hard to hear with a stethoscope, or for that matter, even to palpate. This is especially true with diabetic patients whose arteries tend to calcify (harden) and become even less pliable as a result of the disease. Using a Nicolet Doppler makes finding those difficult pulses much easier and faster.

Wound care and bed sore care are major medical issues in the extended care arena. Without adequate circulation, wounds and sores will not heal. Given the size of the arteries that need to be identified as patent, only a Doppler can reassure you that blood flow is adequate for healing.

More post-surgical patients are showing up in subacute wings of extended-care facilities. In many cases, a Doppler is essential to care because poor circulation and clotting can be extremely detrimental to recovery. Listening with a Nicolet Doppler can help reveal deep vein thrombosis (blockage) allowing for more timely medical intervention for this life threatening condition.

A Nicolet Doppler can help reduce some of the time, effort and costs involved in transferring and admitting a patient to the hospital for a simple vascular examination. With a Doppler, this exam can be done quickly and painlessly in any extended-care facility.

ABI studies using a Doppler are very important in the routine care of both elderly and diabetic patients. Early detection of circulatory problems is essential for effective treatment.

The ABI Exam

The Ankle/Brachial Index is a quick, simple comparison of blood pressure readings. This procedure is similar to taking a standard blood pressure, but a Doppler is used instead of stethoscope. The ABI is an accurate indicator of common circulatory problems in the extremities, often referred to as Peripheral Arterial Disease (PAD). It is a common pre-screening test for PAD in hospitals and clinics.

Taking the Ankle/Brachial Index is recommended for diabetic patients and those over the age of 65. The Doppler is used to take the ABI because of its sensitivity. It detects blood flow even in patients with advanced PAD or calcified arteries.

This simple test takes approximately 5 minutes and is painless for the patient. Simply take a systolic pressure on the right brachial (arm) artery using the Nicolet Doppler, blood pressure cuff, and an aneroid cuff inflator. Repeat on the left brachial artery. Repeat at either the posterior tibial artery, or the dorsalis pedis on both legs. Once the data is obtained, divide both ankle values by the highest brachial value. The numbers represent your ratios. A healthy patient should have a ratio of approximately 1.00. A general guideline to follow for determining PAD severity is:

<table>
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<tr>
<th>ABI Value*</th>
<th>Indication</th>
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<tbody>
<tr>
<td>0.96 or Above</td>
<td>Generally Normal</td>
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<tr>
<td>0.81-0.95</td>
<td>Mild Disease</td>
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<tr>
<td>0.51-0.80</td>
<td>Moderate Disease</td>
</tr>
<tr>
<td>0.31-0.50</td>
<td>Moderate to Severe Disease</td>
</tr>
<tr>
<td>0.30 or below</td>
<td>Severe Disease</td>
</tr>
</tbody>
</table>

Complete Cuff Kits
CareFusion offers a variety of cuff kits for performing vascular competency testing. These kits contain an aneroid, the appropriate size cuffs and support materials to allow you to perform Ankle/Brachial Index tests, Brachial/Toe Index tests or both.

Ankle/Brachial Index Cuff Kit
Catalog # ABIK
Includes:
Sphygmomanometer
10 cm cuffs (4)
Laminated ABI Chart
ABI Training CD
ABI Training Booklet
Pad of ABI Report Forms (50 sheets)
Get Your Pipes Checked Booklet (5)

Toe/Brachial Index Cuff Kit
Catalog # TOEK
Includes:
Sphygmomanometer
10 cm cuffs (2)
2.5 cm cuffs (2)
Get Your Pipes Checked Booklet (5)

Combination Ankle/Brachial/Toe Index Cuff Kit
Catalog # ABITO
Includes:
Sphygmomanometer
10 cm cuffs (4)
2.5 cm cuffs (2)
Laminated ABI Chart
ABI Training CD
ABI Training Booklet
Pad of ABI Report Forms (50 sheets)
Get Your Pipes Checked Booklet (5)

ABI Kit for VersaLab LE/SE:
Catalog # ABIV
Includes:
Sphygmomanometer
10 cm cuffs (4)
VersaLab Printer Paper (5 rolls)
T-Spray Ultrasound Disinfectant Spray

Accessories
Product.......................................... Catalog #
10 cm cuff........................................XR0075
12 cm cuff........................................XR0076
2.5 cm digit cuff .............................. M20101
1.9 cm digit cuff .............................. M20167
1.6 cm digit cuff .............................. M20178
2.5 cm digit cuff w/coiled tubing ....XR0089
6.5 cm cuff ........................................XR0020
17 cm contoured thigh cuff ......... XR0031
12 cm long .................................XR0077
Sphygmomanometer..................XR0013
Pad of report forms (50 sheets) ...... ABI12
Laminated ABI Chart...................... ABI13
StethoDop Accessories

Cardiology-Style Stethoscope
Catalog #SS10

Battery/non-chill ring/speaker coupler pack
Catalog #A600

StethoDop Carrying Pouch
Catalog #A410

Accessories for Hand-Held Dopplers

2 oz. ultrasound gel tubes (qty. 12)
Catalog #A100

Sheaths (qty. 24)
Catalog #S100

Sterile sheaths w/gel (qty. 24)
Catalog #S300

Soft-sided carrying case
Catalog #A420

.25 liter ultrasound gel bottles (qty. 12)
Catalog #A120

Personal Headset
Catalog #A210

T-Spray Ultrasound Disinfectant
Catalog #A140

1 gram gel packs (box of 200)
Catalog #A130

Roll-stand with “anti-theft” bracket for Elite and Pocket-Dop II
Catalog #ST1

Roll-stand with “anti-theft” bracket & storage basket for Elite and Pocket-Dop II
Catalog #ST2

Storage basket for roll-stand
Catalog #BSKT

Rollstand “anti-theft” bracket
Catalog #B100

To order call 1-877-842-7970

carefusion.com 25
Accessories

VersaLab APM/APM2 and VersaLab LE/SE Accessories

- IV Pole Mount Catalog #V200
- Roll-Stand with Basket for VersaLab Catalog #ST3
- Tilt Stand Catalog #ST30
- Thermal Printer Paper (5 rolls) Catalog #A355
- VersaLab Headset Catalog #A220
- Transducer belts Catalog #D300
- Patient event marker VersaLab APM/APM2 Catalog #DV100
- Soft-sided Carrying Case Catalog #A430

IMEXDOP CT+ and FreeDop Accessories

- Roll Stand/IV Pole Mount Bracket Catalog #V100
- Charging Stand Catalog #C643
- Z-fold Chart Paper Catalog #D200

IMEX Antepartum Monitor Accessories

Training Software

- ABI Training CD and Booklet Catalog #ABIC
- VersaLab APM/APM2 Tutorial CD Catalog #M80899
- Using VersaLab LE/SE & Performing ABI CD and Booklet Catalog #VCDB
- Nicolet Doppler Sounds CD Catalog #M80889

To order call 1-877-842-7970 carefusion.com
The 2 MHz obstetric probe has a deeper signal penetration and is best used to determine fetal viability in larger women and later in pregnancy. It will consistently pick up the fetal heartbeat at 12 weeks, and is preferred for use during labor and delivery. The 2 MHz waterproof obstetric probe is ideal for underwater labor and delivery. When using the 2 MHz waterproof probe, the main unit of the Doppler remains outside of the water bath to provide clear, undistorted sound.

2 MHz Elite, CareDop probe ...................... Catalog #N200
2 MHz waterproof Elite/CareDop probe ........ Catalog #NW20
Probe face diameter ........................................ 18 x 25 mm
Overall dimensions ....................................... 72 x 45 x 23 mm
Weight .......................................................... 40.37 grams

2 MHz FreeDop probe .............................. Catalog #F200
Probe face diameter ........................................ 37 mm
Overall dimensions ....................................... 137 x 38 x 38 mm
Weight .......................................................... 143 grams

2 MHz Pocket-Dop II, IMEXDOP CT+, Pocket-Dop One, Pocket-Dop OB black style probe .......... Catalog #T200
2 MHz waterproof Pocket-Dop II, IMEXDOP CT+, Pocket-Dop One, Pocket-Dop OB probe ........ Catalog #WP20
Probe face diameter ........................................ 37 mm
Overall dimensions ....................................... 67 x 41 mm
Weight .......................................................... 39 grams

2 MHz Pocket-Dop 3 probe ...................... Catalog #H200
Probe face diameter ........................................ 17 mm
Overall dimensions ....................................... 127 x 23 x 24 mm
Weight .......................................................... 35 grams

The images shown do not represent actual probe size.
The 3 MHz obstetric probe has a shallow signal penetration and is more sensitive to early fetal heartbeats. It can pick up the fetal signals as early as 8 - 10 weeks. It is most commonly used to find fetal heartbeats and to monitor the fetus in the earlier stages of pregnancy.

### 3 MHz Elite, CareDop probe

- **Catalog #N300**
- **Probe face diameter**: 18 x 25 mm
- **Overall dimensions**: 72 x 45 x 23 mm
- **Weight**: 40.37 grams

### 3 MHz FreeDop probe

- **Catalog #F300**
- **Probe face diameter**: 19 mm
- **Overall dimensions**: 142 x 38 x 38 mm
- **Weight**: 138 grams

### 3 MHz Pocket-Dop II, IMEXDOP CT+, Pocket-Dop One, Pocket-Dop OB probe

- **Catalog #T300**
- **Probe face diameter**: 19 mm
- **Overall dimensions**: 72 x 41 mm
- **Weight**: 34 grams

### 3 MHz Pocket-Dop 3 probe

- **Catalog #H300**
- **Probe face diameter**: 17 mm
- **Overall dimensions**: 127 x 23 x 24 mm
- **Weight**: 35 grams

The images shown do not represent actual probe size.
The 5 MHz vascular probe has a deeper penetration than the 8 MHz. It is most commonly used for post-surgical patients, locating hard-to-find pulses, and monitoring deep veins and arteries in legs; and for ABI studies in larger patients.

5 MHz Elite, CareDop probe .......................... Catalog #N500
Probe face diameter ........................................ 18 x 25 mm
Overall dimensions ........................................ 72 x 45 x 23 mm
Weight .............................................................. 40.37 grams

5 MHz FreeDop probe .......................... Catalog #F500
Probe face diameter ........................................ 12 mm
Overall dimensions ........................................ 168 x 38 x 38 mm
Weight .............................................................. 141 grams

StethoDop without stethoscope .................. Catalog #SD50
StethoDop with cardiology-style stethoscope ... Catalog #SD52
Probe face diameter ........................................ 15 x 23 mm
Overall dimensions ........................................ 61 x 45 x 17 mm
Weight .............................................................. 32.2 grams

5 MHz Pocket-Dop II, IMEXDOP CT+, Pocket-Dop One probe .................. Catalog #T500
Probe face diameter ........................................ 12 mm
Overall dimensions ........................................ 97 x 41 mm
Weight .............................................................. 39 grams

The images shown do not represent actual probe size.
Vascular Probes

8 MHz Probes

The 8 MHz vascular probe has a shallow signal penetration and is best used to assess superficial vessels. It is most commonly used for Ankle/Brachial Index (ABI) studies; finding pedal pulses; wound care applications; and locating hard-to-find pulses in diabetic patients.

8 MHz Elite, CareDop probe .......................... Catalog #N800
Probe face diameter .......................................................... 9mm
Overall dimensions ....................................................... 99 x 45 x 25 mm
Weight ................................................................. 37 grams

8 MHz FreeDop probe .......................... Catalog #F800
Probe face diameter .......................................................... 12 mm
Overall dimensions ...................................................... 168 x 38 x 38 mm
Weight ................................................................. 141 grams

8 MHz Pocket-Dop II, IMEXDOP CT+, Pocket-Dop One probe .......................... Catalog #T800
Probe face diameter .......................................................... 9 mm
Overall dimensions ....................................................... 104 x 41 mm
Weight ................................................................. 39 grams

The images shown do not represent actual probe size.
Vascular and Obstetric

VersaLab Probes

**VersaLab APM/APM2 Probes**

- **1.8 MHz VersaLab APM/APM2 Doppler Probe**
  - Catalog #TV180

- **2.0 MHz VersaLab APM2 Doppler Probe**
  - Catalog #TV200

- **Toco probe VersaLab APM/APM2**
  - Catalog #TV100

**VersaLab LE/SE Probes**

- **4 MHz Probe VersaLab LE/SE**
  - Catalog #BD40

- **8 MHz Probe VersaLab LE/SE**
  - Catalog #BD80

To order call 1-877-842-7970  carefusion.com
# Vascular and Obstetric Doppler Comparison Guide

<table>
<thead>
<tr>
<th>Features</th>
<th>Pocket-Dop II</th>
<th>Pocket-Dop 3</th>
<th>IMEXDop CT+</th>
<th>FreeDop</th>
<th>StethoDop</th>
<th>Elite 100 &amp; 100R</th>
<th>Elite 200 &amp; 200R</th>
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<tbody>
<tr>
<td>Hand-held/Counter Top</td>
<td>Hand-held</td>
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<td>BOTH</td>
<td>VASCULAR</td>
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<td>YES - DUAL</td>
<td>YES - DUAL</td>
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<td>Interchangeable Probes</td>
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<td>Probe Frequencies</td>
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<td>2 MHz, 3 MHz</td>
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Please refer to specific product pages for complete listing of product configurations and catalog numbers.

*January 2010 prices. Prices subject to change without advance notification.
# Vascular and Obstetric Battery and Charger Matrix

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<thead>
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<th>Model</th>
<th>Battery</th>
<th>Charger</th>
<th>Int’l Charger</th>
<th>Other</th>
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<td>CareDop</td>
<td>C623 (9 volt Alkaline)</td>
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<td>C622</td>
<td>C640</td>
<td>C640I</td>
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<tr>
<td>FreeDop</td>
<td>C631</td>
<td>C643</td>
<td>C630I</td>
<td>C632 (FreeDop Probe Battery)</td>
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<td>ImexDop CT+</td>
<td>C631</td>
<td>C643</td>
<td>C630I</td>
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<tr>
<td>Pocket-Dop 3</td>
<td>C622</td>
<td>C640</td>
<td>C640I</td>
<td>C641 (Charging Stand)</td>
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<td>Pocket-Dop II</td>
<td>C620</td>
<td>C610</td>
<td>C619</td>
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<td>Pocket-Dop OB</td>
<td>C620</td>
<td>C610</td>
<td>C619</td>
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<td>Pocket-Dop One</td>
<td>“AA” Alkaline</td>
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<td>StethoDop</td>
<td>A600 (includes non-chill rings)</td>
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<td>VersaLab LE &amp; SE</td>
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<td>C644</td>
<td>C644I</td>
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<td>A130</td>
<td>Gel, 1 Gram Gel Packs, 200/bx</td>
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<td>A210</td>
<td>Personal Walkman Style Headset - Hand-held and Counter Top Boppers</td>
<td>25</td>
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<td>A220</td>
<td>Stereo Headset - VersaLab Only</td>
<td>26</td>
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<td>A420</td>
<td>Soft Sided Carrying Case - Hand Held Dopplers</td>
<td>25</td>
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<td>Probe, 4 MHz Bi-Directional (VersaLab LE/55)</td>
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<td>BD80</td>
<td>Probe, 8 MHz Bi-Directional (VersaLab LE/55)</td>
<td>31</td>
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<td>B100</td>
<td>Theft Proof Doppler Bracket</td>
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<tr>
<td>BSKT</td>
<td>Basket for Roll Stand</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C610</td>
<td>110V AC Battery Charger (Pocket-Dop II &amp; OB)</td>
<td>33</td>
<td></td>
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</tr>
<tr>
<td>C620</td>
<td>Batteries, Rechargeable NiMH, AA Size (for Pocket-Dop II &amp; OB)</td>
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<td></td>
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</tr>
<tr>
<td>C622</td>
<td>Battery, 8.4V Rechargeable for Pocket-Dop 3, Elite 100R &amp; Elite 200R</td>
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</tr>
<tr>
<td>C623</td>
<td>Battery, 9V Alkaline for Elite 100, Elite 200 &amp; CareDop</td>
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<td>C631</td>
<td>Battery, Rechargeable NiMH for Imex Dop Ct+ &amp; FreeDop Main Unit</td>
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</tr>
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<td>C632</td>
<td>Battery, Rechargeable NiMH for Imex FreeDop Probe</td>
<td>33</td>
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<tr>
<td>C633</td>
<td>Battery, VersaLab</td>
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<tr>
<td>C640</td>
<td>Replacement Charger for Pocket-Dop 3, Elite 100R &amp; Elite 200R</td>
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<td>Recharging Stand for Pocket-Dop 3</td>
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<td>C643</td>
<td>Replacement Charger &amp; Stand for ImexDop Ct+ &amp; FreeDop</td>
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<td>VersaLab Power Supply, 110 - 250 volt</td>
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<td>C645</td>
<td>VersaLab Power Cord, 110 volt</td>
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<td></td>
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<td>CT20+</td>
<td>Imex Dop Ct+ w/2 MHz Obstetric Probe</td>
<td>7-8</td>
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<td>CT22+</td>
<td>Imex Dop Ct+ with two 2 MHz Obstetric Probes</td>
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<td>7-8</td>
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<td>CT88+</td>
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<td>7-8</td>
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<td>CTWP</td>
<td>Imex Dop Ct+ w/8 MHz Waterproof Obestetric Probe</td>
<td>7-8</td>
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<tr>
<td>CTX0+</td>
<td>Imex Dop Ct+ without probe</td>
<td>7-8</td>
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<td>DV100</td>
<td>VersaLab APM/APM2 Event Marker</td>
<td>14</td>
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<td>DV400</td>
<td>VersaLab Toco Probe Covers (Oxy 5)</td>
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<td>D200</td>
<td>Z-Fold Chart Paper (for Imex Antepartum Monitor)</td>
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<td>Belts, Pre-Cut, 2/pk</td>
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<td>Elite 200 w/2 MHz Obstetric Probe</td>
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<td>ED2W</td>
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<td>3, 27</td>
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<td>PADS</td>
<td>Pocket-Dop II with 5 MHz Vascular Probe and ABI Cuff Kit</td>
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<td>Pocket-Dop II with 8 MHz Vascular Probe and ABI Cuff Kit</td>
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<td>Pocket-Dop II without Probe</td>
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<td>S100</td>
<td>Non-Sterile Doppler Sheaths, 24/cs</td>
<td>6, 25</td>
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<td>S300</td>
<td>Sterile Doppler Sheaths with 20mL of Ultrasound Gel, 3.5&quot; 24/cs</td>
<td>6, 25</td>
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<td>S505</td>
<td>Imex StethoDop w/3 MHz Probe</td>
<td>17-18, 29</td>
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<td>S552</td>
<td>Imex StethoDop w/Cardiology Style Stethoscope</td>
<td>17-18, 29</td>
<td></td>
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<td>S510</td>
<td>Imex Cardiology Stethoscope</td>
<td>17-18, 25</td>
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<td>ST1</td>
<td>Roll Stand w/theft proof bracket for Elite &amp; Pocket-Dop II</td>
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<td>ST2</td>
<td>Roll stand w/theft proof bracket and basket for Elite &amp; Pocket-Dop II</td>
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<td>ST3</td>
<td>ST3 Roll stand with basket (VersaLab)</td>
<td>6, 8, 20, 26</td>
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<td>ST30</td>
<td>VersaLab Tilt Stand</td>
<td>14, 20, 26</td>
<td></td>
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<tr>
<td>TOEK</td>
<td>Toe Cuff Kit</td>
<td>20, 24</td>
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<td>TV100</td>
<td>VersaLab APM/AM2 Toco Probe</td>
<td>14, 31</td>
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<tr>
<td>TV180</td>
<td>VersaLab APM2 - 1.8 MHz Doppler Probe</td>
<td>14, 31</td>
<td></td>
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<td>TV200</td>
<td>VersaLab APM2 - 2.0 MHz Doppler Probe</td>
<td>14, 31</td>
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<tr>
<td>T200</td>
<td>2 MHz Obstetric Probe for Pocket-Dop II, OB &amp; ImexDop CT+</td>
<td>8, 10, 27</td>
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<tr>
<td>T300</td>
<td>3 MHz Obstetric Probe for Pocket-Dop II, OB &amp; ImexDop CT+</td>
<td>8, 10, 28</td>
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<td>T500</td>
<td>5 MHz Vascular Probe for Pocket-Dop II, OB &amp; ImexDop CT+</td>
<td>8, 10, 29</td>
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<td>T800</td>
<td>8 MHz Vascular Probe for Pocket-Dop II, OB &amp; ImexDop CT+</td>
<td>8, 10, 30</td>
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<td>VCDB</td>
<td>VersaLab Training CD with booklet</td>
<td>26</td>
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<td></td>
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<tr>
<td>VLL40</td>
<td>VersaLab LE with 4 MHz Bi-Directional Probe and Printer</td>
<td>19-21</td>
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<td>VLL80</td>
<td>VersaLab LE with 8 MHz Bi-Directional Probe and Printer</td>
<td>19-21</td>
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<td>VLL80A</td>
<td>VersaLab LE with 8 MHz Bi-Directional Probe and ABIV Cuff Kit</td>
<td>19-21</td>
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<td>VLL80AS</td>
<td>VersaLab LE with 8 MHz Bi-Directional Probe, ABIV Cuff Kit, V200 Mounting Bracket and ST3 Roll Stand</td>
<td>19-21</td>
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<td>VLL80S</td>
<td>VersaLab LE with 8 MHz Bi-Directional Probe, V200 Mounting Bracket and ST3 Roll Stand</td>
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<td>VLL48</td>
<td>VersaLab LE with 4 &amp; 8 MHz Bi-Directional Probe and Printer</td>
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<td>VersaLab SE with 4 MHz Bi-Directional Probe and Printer</td>
<td>19-21</td>
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<td>VLS80</td>
<td>VersaLab SE with 8 MHz Bi-Directional Probe and Printer</td>
<td>19-21</td>
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<td>VLS48</td>
<td>VersaLab SE with 4 &amp; 8 MHz Bi-Directional Probe and Printer</td>
<td>19-21</td>
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<td>V100</td>
<td>IV Pole Mount Kit for Imex Dop CT+/Imex FreeDop</td>
<td>6, 8, 26</td>
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<td>V200</td>
<td>IV Pole Mount Kit for VersaLab</td>
<td>14, 20, 26</td>
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<td>Description</td>
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<td>ImexDop CT+ w/2 MHz Obstetric Probe, 220 volt</td>
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<td>CT20</td>
<td>220 volt</td>
<td>7-8</td>
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<td>ImexDop CT+ w/2 MHz Obstetric &amp; 5 MHz Vascular Probes, 220 volt</td>
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<td>ImexDop CT+ w/2 MHz Obstetric &amp; 8 MHz Vascular Probes, 220 volt</td>
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<td>CT28I</td>
<td>ImexDop CT+ w/2 MHz Obstetric &amp; 8 MHz Vascular Probes, 220 volt</td>
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<td>ImexDop CT+ w/3 MHz Obstetric, 220 volt</td>
<td>7-8</td>
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<td>ImexDop CT+ w/3 MHz Obstetric Probe, 220 volt</td>
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<td>ImexDop CT+ w/8 MHz Vascular Probe, 220 volt</td>
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<tr>
<td>CTWPI</td>
<td>ImexDop CT+ w/2 MHz Waterproof Obstetric Probe, 220 volt</td>
<td>7-8</td>
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<td>ZL701111P</td>
<td>ImexDop CT+ without Probe, 220 volt</td>
<td>7-8</td>
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<td>Elite 200 w/2 MHz Obstetric Probe</td>
<td>2-4</td>
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<td>Elite 200 w/2 &amp; 3 MHz Obstetric Probes</td>
<td>2-4</td>
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<td>Elite 200 w/2 MHz Obstetric &amp; 5 MHz Vascular Probes</td>
<td>2-4</td>
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<td>ED25RI</td>
<td>Elite 200 w/2 MHz Waterproof Obstetric Probe, 220 volt</td>
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Acceptance: Amendment of Terms: By submitting an order to seller for delivery within the United States, Canada, Puerto Rico or the US Virgin Islands, Purchaser agrees to these Terms and Conditions, which constitute the entire agreement of the parties. No term or condition of the Purchaser’s order additional to, or different from these terms and conditions and no waiver, alteration, or modification of any of the provisions hereof shall become part of these Terms and Conditions or be binding unless in writing and signed by an officer of the Seller at its principal offices in Colorado. All claims for damages, errors, or shortages must be made by the buyer in writing within 15 business days after the goods are delivered. Failure to make such claims within the stated period shall constitute an irrevocable acceptance of the goods and an admission that they fully comply with all of the terms, conditions and specifications of the order and the invoice.

Returns: It is the Purchaser’s responsibility to contact CareFusion Neurocare at 1-877-842-7970 to request a return authorization number (RMA#) before returning equipment allowing adequate shipping time to ensure product is received at CareFusion NeuroCare within 30 days from original ship date. Shipping and handling is the responsibility of the Purchaser. Doppler systems returned to CareFusion NeuroCare within 30 days of the original ship date with all accessories in original and unused condition will receive a full credit. An RMA# will not be issued for consumable items such as batteries, gel, t-spray, cuffs, sheathes or repair components such as housings, PC Boards, etc. Evaluation Returns: Purchaser must have indicated at the time the order was placed that the order is for evaluation. Evaluation product must be returned to CareFusion NeuroCare within 30 days from original ship date. Evaluation orders returned after 30 days will not be accepted. Probe Exchange: Probe exchanges are allowed for incorrect probe frequencies or wrong probe type up to 90 days from original purchase date as long as the probe has not been used. Any price differences as well as shipping and handling charges to ship the replacement probe are the responsibility of the Purchaser. It is the Purchaser’s responsibility to ensure product is returned to CareFusion NeuroCare within 90 days from original ship date. All returns may be subject to a restocking fee.

Price; Taxes: Quoted prices do not include federal, state and local taxes, including without limitations, sale, use or excise taxes. Purchaser shall pay all such taxes, and such taxes when applicable, will appear as separate and additional items on Seller’s invoices unless Purchaser provides seller with a proper tax-exemption certificate.

Price; Shipping: All products are shipped F.O.B. Seller’s plant in Middleton, Wisconsin. Unless otherwise specified, shipping, handling and any insurance or special charges will be prepaid and added to the invoice and are the responsibility of the Purchaser. Orders requiring shipping by collect or third party service must provide a valid UPS or Federal Express account number on the purchase order.

Deliveries: Products will be shipped regular Fed Express or UPS Ground or by similar conveyance unless otherwise indicated by the Purchaser at time of order. Quoted shipping dates are approximate. Seller does not assume any liability, consequential or otherwise, because of delay or failure to deliver all or part of any order for any reason. Partial shipments will be considered as separate sales and invoiced accordingly. Minimum order is $25.00, excluding shipping and handling charges and sales tax.

Terms of Payment: Terms for payment are net 30 days from date of invoice. Purchasers may open accounts only with approved credit. If, in the Seller’s judgment, the financial condition of the Purchaser at the time the goods are ready for shipment does not justify the terms specified, Seller may change these terms or require full or partial payment in advance. Past due accounts are subject to a 1½ per month service charge where lawful, or otherwise the maximum charge, and reasonable attorney’s fees.

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To order call 1-877-842-7970