Obstetric and Vascular Dopplers

Product and Accessory Guide

Nicolet™

natus.
neurology

Table of Contents

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.
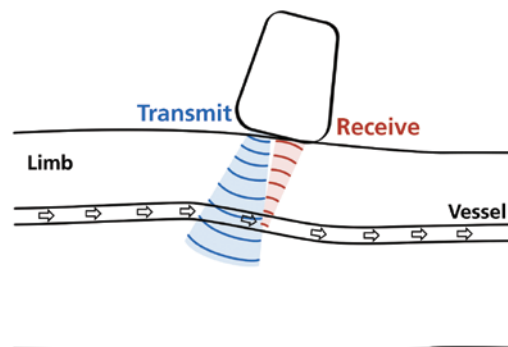
Obstetric Application

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.
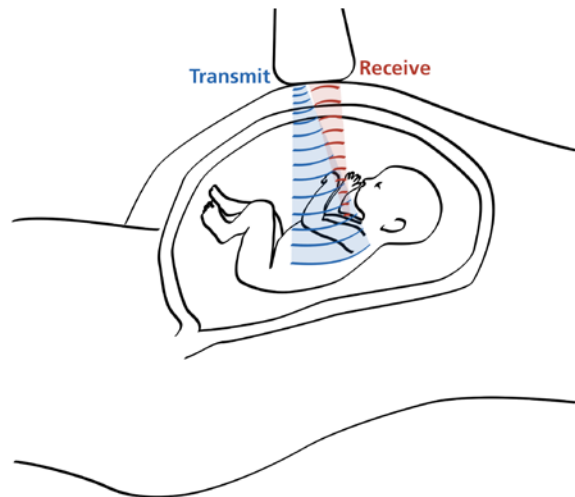
Nicolet Elite

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.

Nicolet Elite

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.

11. Built-in speaker.

12. Five-year parts warranty against manufacture defects.

13. Small hand-held size.

14. Soft-sided carrying case available.

15. Personal headset available.

16. Roll stand with anti-theft bracket option.

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. Simple probe upgrades.

7. Easy-to-read numeric display to easily determine heart rate.

8. Automatically calculates fetal heart or pulse rate based on the probe application in order to assure accurate results.

9. Minimizes costs for replacement batteries - more convenient.

10. Can be used in the operating room or other sterile environment.

11. Patient and others can hear Doppler sounds.

12. One of the best available.

13. Convenient to carry and use.

14. Makes it easy and convenient to carry the Elite, extra probes and gel.

15. Private monitoring.

16. Prevents theft.

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 C640I
Batteries
  Elite 100R & 200R........................C622
  Elite 100 & 200 ....C623
Coiled Cord............................... CB0046
Soft-sided carrying case A420
Headset.. A210
UK/Australian
  Power Supply Cord..........698-634200

$C\epsilon$

Nicolet Elite

Features at a Glance

Standard 9V Alkaline Battery

Rechargeable
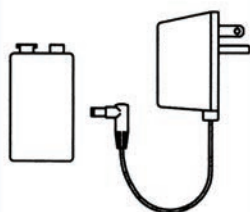
Display and 9V Alkaline Battery

132
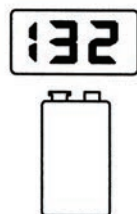
Rechargeable with Display

132
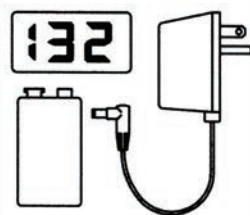
System Configurations

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
With 2 MHz waterproof & 3 MHz standard obstetric probes EN2W3
Elite 100 with ABI cuff kit and 5 MHz vascular probe EN5A
Elite 100 with ABI cuff kit and 8 MHz vascular probe EN8A
Elite 100 without probe ZPK001NP

Elite 100R* 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
With 2 MHz waterproof & 3 MHz standard obstetric probes ...EN2W3R
Elite 100R with ABI cuff 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......................................ED2W
With 2 MHz waterproof & 3 MHz standard obstetric probes.....ED2W3
Elite 200 with ABI cuff kit and 8 MHz vascular probe ED8A
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
With 2 MHz waterproof & 3 MHz standard obstetric probes...ED2W3R
Elite 200R without probe ZPK004NP

*Please refer to page 34 for international and/or 220 volt system catalog numbers

Imex FreeDop

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 or roll-stand, 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 and the charging stand is plugged in to a wall outlet.

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.
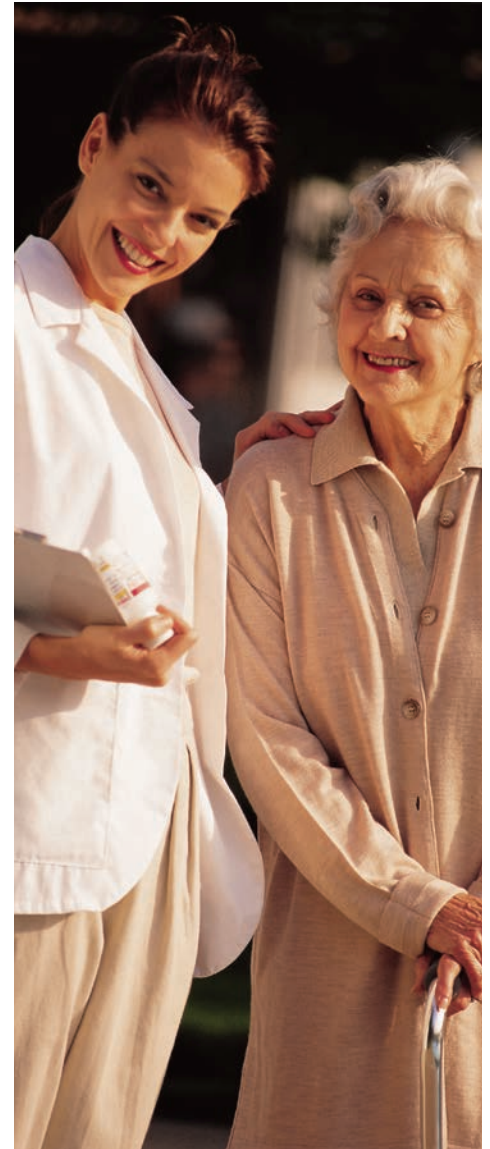
FreeDop gives you cordless freedom of movement

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 or roll stand 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 ZLF005NP

Please refer to page 34 for international and/or 220 volt catalog numbers

Accessories

Product	Catalog #
Probes	
2 MHz obstetric probe	F200
3 MHz obstetric probe	F300
5 MHz vascular probe	F500
8 MHz vascular probe	F800
Charger with Stand	
110V	C643
220V	C630l
Batteries	
Main	C631
Probe	C632
Sheath	
Non-sterile	S100
Sterile	S300
Roll Stand with Basket	ST3
IV Pole/Roll Stand mount kit	V100
Recharger UK/Australian	698-634100

CE

IMEXDOP CT+

Proven Performance

Once you use the IMEXDOP CT+™, you'll understand why Natus Neurology 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 Natus Neurology 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 or roll-stand. The convenient charging stand is one of a kind. Simply place the IMEXDOP CT+ into the stand between uses. It will automatically recharge when the adapter is plugged in to a wall outlet, so it is ready to go when you need it next.

To order call 1-877-842-7970
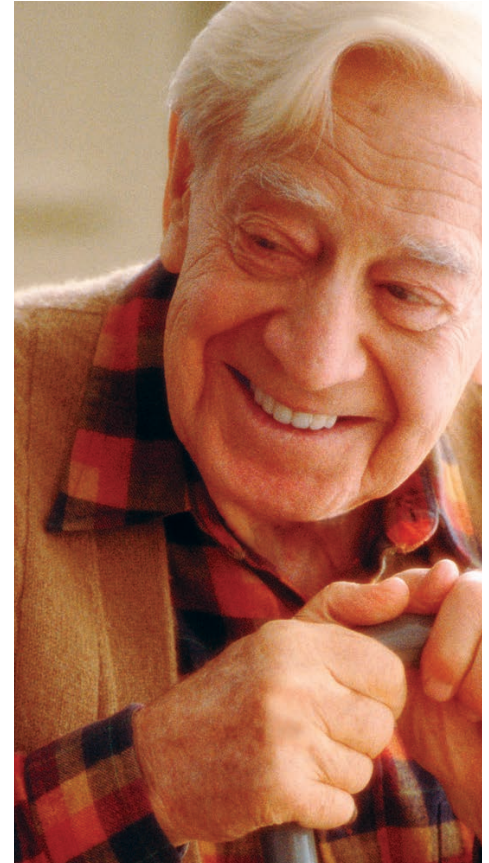
IMEXDOP CT+

Features

1. Interchangeable probes.
2. Autocorrelation.
3. Built-in dual speakers.
4. Recharging base with optional IV pole or roll-stand 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
.......Replaceable 12 Volt NiMH battery
Warranty .... 5 years parts, 1 year labor against manufacture defects

System Configurations*

IMEXDOP CT+ with
2 MHz obstetric probe ....CT20+
3 MHz obstetric probe ....CT30+
5 MHz vascular probe ....CT50+
8 MHz vascular probe ....CT80+
Two 2 MHz obstetric probes ......CT22+
2 & 3 MHz obstetric probes ....CT23+
2 & 3 MHz obstetric &
    5 & 8 MHz vascular probes CT2358
2 MHz obstetric &
    5 MHz vascular probes ....CT25+
2 MHz obstetric &
    8 MHz vascular probes ....CT28+
Two 3 MHz obstetric probes ......CT33+
3 MHz obstetric &
    5 MHz vascular probes ....CT35+
3 MHz obstetric &
    8 MHz vascular probes ....CT38+
Two 5 MHz vascular probes ....CT55+
5 & 8 MHz vascular probes ....CT58+
Two 8 MHz vascular probes ....CT88+
2 MHZ waterproof
    obstetric probe .... CTWP
No probe .... CTX0+

Please refer to page 34 for international and/or 220 volt catalog numbers

Accessories

Product ....Catalog #
Probes
    2 MHz obstetric probe T200
    3 MHz obstetric probe T300
    5 MHz vascular probe T500
    8 MHz vascular probe T800
    2 MHz waterproof
        obstetric probe WP20
Charger with Stand
    110V C643
    220V C630I
Battery C631
Roll Stand with Basket ST3
IV Pole/Roll Stand mount kit V100
Coiled Cord AC0175
Recharger UK/Australian ...698-634100

$\text{C}\epsilon$

Imex Pocket-Dop II

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. The 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.

This product is not CE marked and not available for sale in the EU.

Vascular and Obstetric

Imex Pocket-Dop II

Features

1. Interchangeable probes.
2. Rechargeable batteries.
3. Built-in speaker.
4. Five-year parts warranty against manufacture defects.
5. Belt clip.
6. Soft-sided carrying case.
7. Probes can be gas sterilized or sheathed.
8. Waterproof probe.
9. Personal headset available.

Benefits

1. One unit can be used for vascular and obstetric applications.
2. Minimizes costs for replacement batteries.
3. Convenient. Patient and others can hear sounds.
4. One of the best available.
5. No need to hold main unit.
6. Makes it easy and convenient to carry the Pocket-Dop II, extra probes and gel. Helps to protect Doppler.
7. Can be used in a sterile environment.
8. For underwater labor and delivery.
9. Private monitoring.

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
.... 2 replaceable AA NiMH batteries
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 & 3 MHz obstetric and
   5 & 8 MHz vascular probes P2358
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
2 MHz waterproof & 3 MHz
   standard obstetric probes P2W3
No probe PX00

Accessories

Product .... Catalog #
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

Portable and Hand-Held Obstetric Dopplers

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[1]

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[2]

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 a small lightweight (4.1 lbs) APM system 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, IV pole or roll-stand. 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, IV pole or roll-stand. It's perfect for semi-permanent mounting in any exam room. Waterproof 2 MHz probe and vascular probes are also available.

[1] Pocket-Dop II not for sale in Europe. Not CE marked.
[2] Pocket-Dop 3 not for sale in Europe and Canada. Not CE marked.

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.

Pocket-Dop 3 not for sale in Europe and Canada. Not CE marked.

Technical Specifications

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

System Configurations*

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

Please refer to page 34 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

Nicolet VersaLab APM and APM2
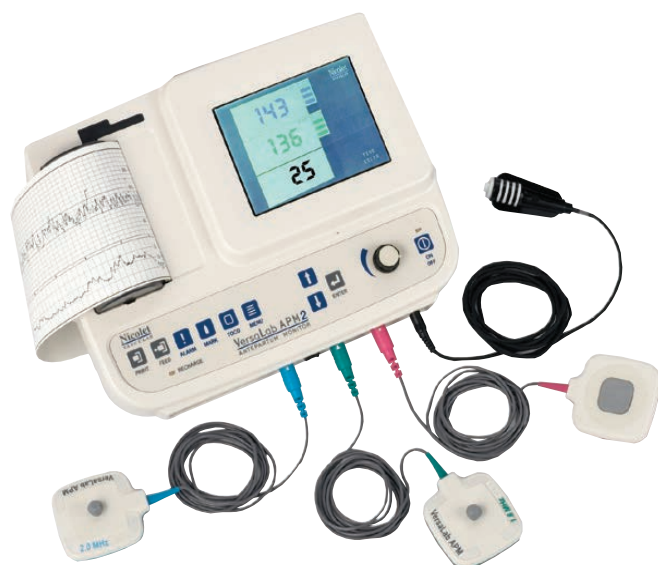
The Perfect Portable Solution

The Nicolet VersaLab APM is a portable, economical antepartum monitor (APM) for performing non-stress tests. It is a small lightweight APM system 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 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 Natus Neurology are the perfect addition to my clinical practice."

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***

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

*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
Power Cord (UK/Australia) 085-441700
VersaLab APM/APM2 Battery Pack C633
IV Pole/Roll Stand Mount Kit V200

ST30

DV100

D300

C644

TV180   TV100   TV200

Nicolet VersaLab APM and APM2

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.
9. Separate patient and clinician event markers.
10. Configurable alarms.
11. Large display in Numeric or Graphic Mode.
12. Belts easily connect to transducers.
13. Color-coded connectors.
14. Soft-sided carrying case available.
15. Adjustable tilt stand for wall mounting or desk-top use.
16. Rugged construction.
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.
9. Prints separate event marks for easier interpretation.
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.
12. Saves time by making patient preparation simple.
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 counter-top 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
10° C - 40° C (50° F - 104° 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 601-1
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 34 for international and/or 220 volt catalog numbers
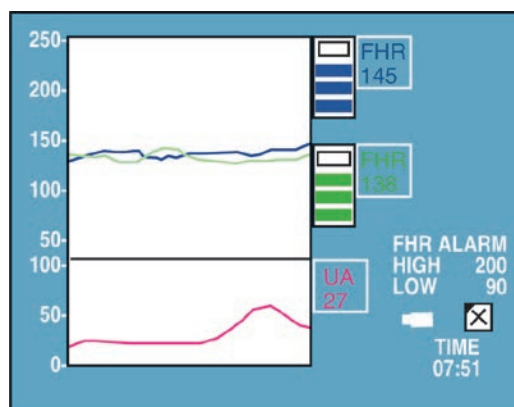
Portable and Hand-Held Vascular Dopplers

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.

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.

Pocket-Dop II™ - Flexible and reliable[1]

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.

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, IV pole or roll-stand. It's perfect for semi-permanent mounting in any exam room. 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, IV pole or roll-stand. Probe can be sheathed for use in surgery, with base unit conveniently placed outside the surgical field. Obstetric probes also available.

[1] Pocket-Do II not for sale in EU. Not CE marked.

Nicolet VersaLab LE/SE

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
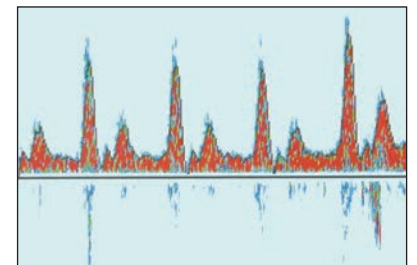
VersaLab SE with Spectral Analysis
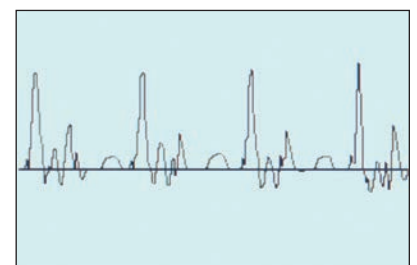
VersaLab LE with simple waveform trace

Nicolet VersaLab LE/SE

System Configurations

Complete system includes:
- probe(s) (of your choice)
- power supply with cord
- tilt stand
- printer paper (1 roll)
- 1 pad report forms
- laminated ABI chart
- gel
- users manual

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:
4 MHz probe................................VLS40
8 MHz probe................................VLS80
4 & 8 MHz probe.........................VLS48

VersaLab LE Int'l with:
4 MHz probe VLL40I
8 MHz probe...............................VLL80I
4 & 8 MHz probes VLL48I

VersaLab SE Int'l with:
4 MHz probe VLS40I
8 MHz probe...............................VLS80I
4 & 8 MHz probes VLS48I

Accessories

Product	Catalog #
4 MHz probe only	BD40
8 MHz probe only	BD80
Power Supply 110-250V	C644
Power Cord, 110V	C645
Power Cord, 220V	C645I
Power Cord (UK/Australia)	085-441700
Battery	C633
Printer Paper (Qty. 5 rolls)	A355
Soft-sided Carrying Case	A430
Roll Stand with Basket	ST3
IV Pole/Roll Stand Mount kit	V200
Tilt-stand	ST30
ABI Report Form	ABI12
Ultrasound Gel, 0.25 Liter Bottles (Case of 12 bottles)	A120
Ankle/Brachial/Toe cuff Kit	ABITO
Ankle Brachial cuff kit for VersaLab	ABIV
Toe/Brachial Cuff Kit	TOEK
2.5 cm digit cuff	M20101
1.9 cm digit cuff	M20167
1.6 cm digit cuff	M20178
6.5 cm cuff	XR0020
17 cm cuff	XR0031
2.5 cm toe cuff (for use with XR0013)	XR0089
10 cm cuff	XR0075
12 cm cuff	XR0076
Sphygmomanometer	XR0013

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
10° C - 40° C (50° F - 104° 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
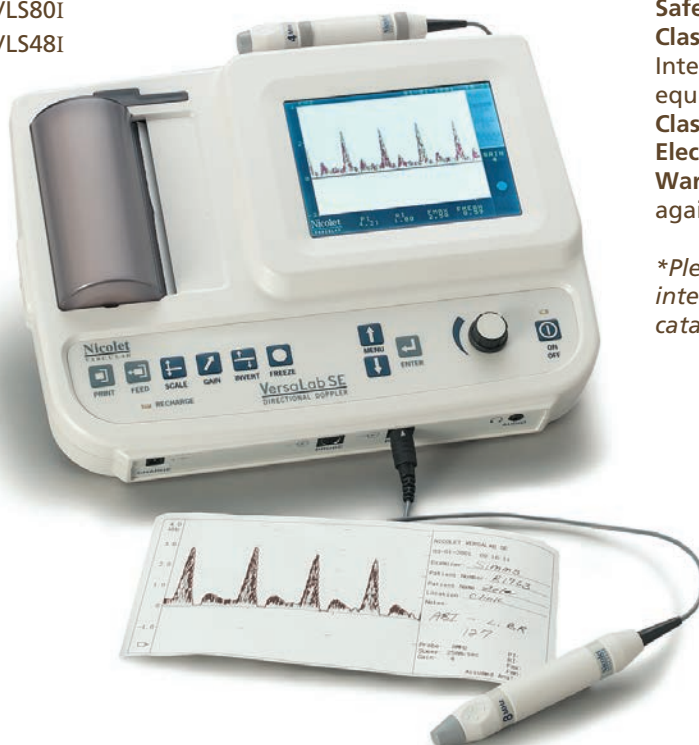**Classification**
Internally/Externally powered equipment
Classification of Protection Against Electrical Shock .... Type B
Warranty...........1 year parts and labor against manufacture defects

Please refer to page 34 for international and/or 220 volt catalog numbers

CE

Nicolet VersaLab LE/SE

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.

6. Lightweight.
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

440.0	Atherosclerosis of aorta
440.21	Atherosclerosis of the extremities with intermittent claudication
440.22	Atherosclerosis of the extremities with rest pain
440.23	Atherosclerosis of the extremities with ulceration
440.24	Atherosclerosis of the extremities with gangrene
440.30-440.32	Atherosclerosis of bypass graft of extremities
443.0-443.89	Other peripheral vascular diseases
443.9	Other peripheral vascular diseases

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

Imex and Nicolet ABI Kits

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.[1] 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

Natus Neurology 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

Please refer to page 34 for international and/or 220 volt catalog numbers

---

1. Criqui, M.H. et al. "Mortality Over a Period of 10 years in Patients with Peripheral Arterial Disease."
   The New England Journal of Medicine, February 6, 1992, Vol. 326, No. 6, pp. 381-386.

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 difficult 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:

ABI Value* .... **Indication**

0.96 or Above .... Generally Normal

0.81-0.95 .... Mild Disease

0.51-0.80 .... Moderate Disease

0.31-0.50 .... Moderate to Severe Disease

0.30 or below .... Severe Disease

Reference: Daigle, R.J. BA, RVT. *Techniques in Noninvasive Vascular Diagnosis.* Summer Publishing, 2002.

Screening for Peripheral Arterial Disease Has Never Been Easier

Cuff Kits

Complete Cuff Kits

Natus Neurology 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.

Sphygmomanometer

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)

10 cm cuff

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)

2.5 cm cuff

Accessories

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

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

Protex™ Disinfecting Wipes (pack of 60)
Catalog #019-473000

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 .... Catalo #BSKT

Rollstand "anti-theft" bracket
Catalog #B100

StethoDop Accessories

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

StethoDop
Carrying Pouch
Catalog #A410

Accessories

VersaLab APM/APM2 and VersaLab LE/SE Accessories

IV Pole Mount
Catalog #V200

Thermal Printer Paper (5 rolls)
Catalog #A355

Soft-sided Carrying Case
Catalog #A430

Roll-Stand with Basket for VersaLab
(also requires the V200)
Catalog #ST3

VersaLab Headset
Catalog #A220

Transducer belts
Catalog #D300

Patient event marker VersaLab APM/APM2
Catalog #DV100

Tilt Stand
Catalog #ST30

IMEXDOP CT+ and FreeDop Accessories

Roll Stand/IV Pole Mount Bracket
Catalog #V100

Charging Stand
Catalog #C643

IMEX Antepartum Monitor Accessories

Z-fold Chart Paper
Catalog #D200

Training Software
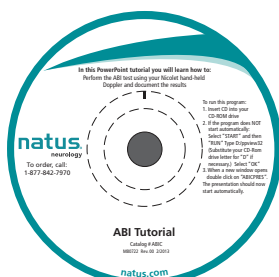
ABI Training CD and Booklet
Catalog #ABIC
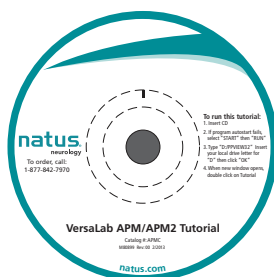
VersaLab APM/APM2 Tutorial CD
Catalog #M80899
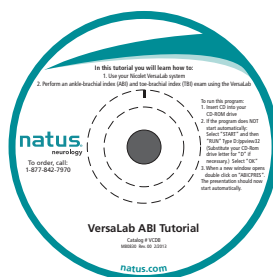
Using VersaLab LE/SE &
Performing ABI CD and Booklet
Catalog #VCDB

Nicolet Doppler Sounds CD
Catalog #M80889

2 MHz Probes

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.

3 MHz Probes

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.

5 MHz Probes

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

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.

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 .... 9 mm
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.

VersaLab Probes

VersaLab APM/APM2 Probes

1.8 MHz VersaLab APM/APM2
Doppler Probe..................................... Catalog #TV180
Probe face diameter .... 70 x 63 mm
Cord Length .... 1780 mm (6 feet)
Weight (with cord) .... 80 grams

2.0 MHz VersaLab APM2
Doppler Probe .... Catalog #TV200
Probe face diameter .... 70 x 63 mm
Cord Length .... 1780 mm (6 feet)
Weight (with cord) .... 77 grams

Toco Probe VersaLab APM/APM2 ..... Catalog #TV100
Probe face diameter .... 70 x 63 mm
Cord Length .... 1780 mm (6 feet)
Weight (with cord) .... 69 grams

VersaLab LE/SE Probes

4 MHz Probe VersaLab LE/SE .... Catalog #BD40
Probe Face Diameter .... 11 mm
Overall Dimensions .... 110 mm
Cord Length .... 1704 mm (5'7")
Weight (with cord) .... 48 grams

8 MHz Probe VersaLab LE/SE .... Catalog #BD80
Probe Face Diameter .... 9 mm
Overall Dimensions .... 115 mm
Cord Length .... 1704 mm (5'7")
Weight (with cord) .... 46 grams

The images shown do not represent actual probe size.

Doppler Comparison Guide

Model	Pocket-Dop II	Pocket-Dop 3	IMEXDopCT+	FreeDop	Elite 100 & 100R	Elite 200 & 200R
Features						
Hand-held/ Counter Top	Hand- held	Hand- held	Counter top	Counter top	Hand-held	Hand-held
OB/Vascular/ Both	BOTH	OB	BOTH	BOTH	BOTH	BOTH
Built-in Speaker	YES	YES	YES - DUAL	YES- DUAL	YES	YES
Interchangeable Probes	YES	YES (OB Only)	YES	YES	YES	YES
Number of Probes	5	2	5	4	5	5
Probe Frequencies	2WP, 2, 3, 5, 8 MHz	2 MHz, 3 MHz	2WP, 2, 3, 5, 8 MHz	2, 3, 5, 8 MHz	2WP, 2, 3, 5, 8 MHz	2WP, 2, 3, 5, 8 MHz
Automatic Shut Off	NO	YES	YES	YES	YES	YES
LCD Display	NO	YES	YES	YES	NO	YES
Rechargeable	YES	YES	YES	YES	Elite 100-NO Elite 100R-YES	Elite 200-NO Elite 200R-YES
Headset	Included	Included	Additional	Additional	Elite 100-NO Elite100R- Included	Included
Protective Carrying Case	YES	YES	NO	NO	Additional	YES
Made in USA	YES	YES	YES	YES	YES	YES
Belt Clip	YES	YES	NO	NO	YES	YES
Warranty	1 yr labor, 5 yrs parts	1 yr labor, 5 yrs parts	1 yr labor, 5 yrs parts	1 yr labor, 5 yrs parts	1 yr labor, 5 yrs parts	1 yr labor, 5 yrs parts
Price						
U.S. List Price with One Standard Probe*	$750	$895	$1,195	$1,795	100 100R $495 $615	200 200R $725 $795
Additional Probes*	$295 $350 waterproof	$295	$295 $350 waterproof	$495	$295 $350 waterproof	$295 $350 waterproof

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.

Nicolet Dopplers -
a variety of solutions for every budget

Battery and Charger Matrix

Model	Battery	Charger	Int'l Charger	Other
CareDop	C623 (9 volt Alkaline)	n/a	n/a	
Elite 100 & Elite 200	C623 (9 volt Alkaline)	n/a	n/a	
Elite 100R & Elite 200R	C622	C640	C640I	
FreeDop	C631	C643 (includes stand)	C630I (includes stand)	C632 (FreeDop Probe Battery)
ImexDop CT+	C631	C643 (includes stand)	C630I (includes stand)	
Pocket-Dop 3	C622	C640	C640I	C641 (Charging Stand)
Pocket-Dop II	C620	C610	C619	
Pocket-Dop OB*	C620	C610	C619	
Pocket-Dop One*	"AA" Alkaline	n/a	n/a	
StethoDop*	A600 (also includes non-chill rings)	n/a	n/a	
VersaLab LE & SE VersaLab APM & APM2	C633	C644	C644	C645 (Power Supply Cord) C645I (Int'l Power Supply Cord)

*Discontinued item.

Index

Domestic

Catalog #	Description	Page
J330	Pocket-Dop 2 with two 3 MHz Obstetric Probes	12
JX00	Pocket-Dop 3 without probe	12
MVAPM	VersaLab APM Antepartum Monitor	13-15
MVAPMS	VersaLab APM Antepartum Monitor with V200 Mounting Bracket and ST3 Roll Stand	13-15
MVAPT	VersaLab APM2 Twin Antepartum Monitor	13-15
MVAPTS	VersaLab APM2 Twin Antepartum Monitor with V200 Mounting Bracket and ST3 Roll Stand	13-15
M20101	2.5 cm. digit cuff	18, 22
M20167	1.9 cm. digit cuff	18, 22
N200	Probe, 2 MHz Obstetric Probe for Elite & CareDop	3, 25
N300	Probe, 3 MHz Obstetric Probe for Elite & CareDop	3, 26
N500	Probe, 5 MHz Vascular Probe for Elite & CareDop	3, 27
N800	Probe, 8 MHz Pointed Vascular Probe for Elite & CareDop	3, 28
NW20	Probe, 2 MHz Waterproof Obstetric Probe for Elite & CareDop	3, 25
PAD5	Pocket-Dop II with 5 MHz Vascular Probe and ABI Cuff Kit	20
PAD8	Pocket-Dop II with 8 MHz Vascular Probe and ABI Cuff Kit	20
PX00	Pocket-Dop II without Probe	9-10
P200	Pocket-Dop II w/2 MHz Obstetric Probe	9-10
P220	Pocket-Dop II with two 2 MHz Obstetric Probes	9-10
P230	Pocket-Dop II w/2 & 3 MHz Obstetric Probes	9-10
P2358	Pocket-Dop II w/2 & 3 MHz Obstetric and 5 & 8 MHz vascular probes	9-10
P250	Pocket-Dop II w/2 MHz Obstetric & 5 MHz Vascular Probes	9-10
P280	Pocket-Dop II w/2 MHz Obstetric & 8 MHz Vascular Probes	9-10
P2WP	Pocket-Dop II w/2 MHz Waterproof Obstetric Probe	9-10
P2W3	Pocket-Dop II with 2 MHz Waterproof & 3 MHz Standard Obstetric Probes	9-10
P300	Pocket-Dop II w/3 MHz Obstetric Probe	9-10
P330	Pocket-Dop II with two 3 MHz Obstetric Probes	9-10
P350	Pocket-Dop II w/3 MHz Obstetric & 5 MHz Vascular Probes	9-10
P380	Pocket-Dop II w/3 MHz Obstetric & 8 MHz Vascular Probes	9-10
P500	Pocket-Dop II w/5 MHz Vascular Probe	9-10
P550	Pocket-Dop II with two 5 MHz Vascular Probes	9-10
P580	Pocket-Dop II w/5 & 8 MHz Vascular Probes	9-10
P800	Pocket-Dop II w/8 MHz Vascular Probe	9-10
P880	Pocket-Dop II with two 8 MHz Vascular Probes	9-10
S100	Non-Sterile Doppler Sheaths, 24/cs	6, 25
S300	Sterile Doppler Sheaths w/20ml of Ultrasound Gel, 3.5" 24/cs	6, 23
ST1	Roll Stand w/"theft proof" bracket for Elite and Pocket-Dop II	3, 10, 23
ST2	Roll stand w/"theft proof" bracket and basket for Elite and Pocket-Dop II	3, 10, 23
ST3	ST3 Roll stand with basket (VersaLab)	6, 8, 14, 18, 24
ST30	VersaLab Tilt Stand	14, 18, 24
TOEK	Toe Cuff Kit	20, 24
TV100	VersaLab APM/APM2 Toco Probe	13, 29
TV180	VersaLab APM2 - 1.8 MHz Doppler Probe	13, 29
TV200	VersaLab APM/APM2 - 2.0 MHz Doppler Probe	13, 29
T200	2 MHz Obstetric Probe for Pocket-Dop II, OB & ImexDop CT+	8, 10, 25
T300	3 MHz Obstetric Probe for Pocket-Dop II, OB & ImexDop CT+	8, 10, 26
T500	5 MHz Vascular Probe for Pocket-Dop II, OB & ImexDop CT+	8, 10, 27
T800	8 MHz Vascular Probe for Pocket-Dop II, OB & ImexDop CT+	8, 10, 28

Catalog #	Description	Page
VCDB	VersaLab Training CD with booklet	24
VLL40	VersaLab LE with 4 MHz Bi-Directional Probe and Printer	17-19
VLL80	VersaLab LE with 8 MHz Bi-Directional Probe and Printer	17-19
VLL80A	VersaLab LE with 8 MHz Bi-Directional Probe and ABIV Cuff Kit	17-19
VLL80AS	VersaLab LE with 8 MHz Bi-Directional Probe, ABIV Cuff Kit, V200 Mounting Bracket and ST3 Roll Stand	17-19
VLL80S	VersaLab LE with 8 MHz Bi-Directional Probe, V200 Mounting Bracket and ST3 Roll Stand	17-19
VLL48	VersaLab LE with 4 & 8 MHz Bi-Directional Probe and Printer	17-19
VLS40	VersaLab SE with 4 MHz Bi-Directional Probe and Printer	17-19
VLS80	VersaLab SE with 8 MHz Bi-Directional Probe and Printer	17-19
VLS48	VersaLab SE with 4 & 8 MHz Bi-Directional Probe and Printer	17-19
V100	IV Pole Mount Kit for Imex Dop CT+/Imex FreeDop	6, 8, 24
V200	IV Pole Mount Kit for VersaLab	14, 18, 24
WP20	2 MHz Waterproof Probe For Pocket-Dop II, OB & ImexDop CT+	8, 10, 25
XR0013	Aneroid with 4' hose and quick disconnect	18, 22
XR0020	6.5 cm. Cuff	18, 22
XR0031	17 cm. Contour Cuff	18, 22
XR0075	10 cm. Cuff	18, 22
XR0076	12 cm. Cuff	18, 22
XR0077	12 cm. Cuff, long	18, 22
XR0089	2.5 cm. Cuff with coiled tubing (for use with aneroid Cat # XR0013)	18, 22
ZLF005NP	FreeDop without Probe	5-6
ZPK001NP	Elite 100 without Probe	2-4
ZPK002NP	Elite 100R without Probe	2-4
ZPK003NP	Elite 200 without Probe	2-4
ZPK004NP	Elite 200R without Probe	2-4
019-473000	Protex™ Disinfecting Wipes	21

Index

International

Catalog #	Description	Page
CT20I	ImexDop CT+ w/2 MHz Obstetric Probe, 220 volt	7-8
CT23I	ImexDop CT+ w/2 & 3 MHz Obstetric Probes, 220 volt	7-8
CT25I	ImexDop CT+ w/2 MHz Obstetric & 5 MHz Vascular Probes, 220 volt	7-8
CT28I	ImexDop CT+ w/2 MHz Obstetric & 8 MHz Vascular Probes, 220 volt	7-8
CT30I	ImexDop CT+ w/3 MHz Obstetric Probe, 220 volt	7-8
CT35I	ImexDop CT+ w/3 MHz Obstetric & 5 MHz Vascular Probes, 220 volt	7-8
CT38I	ImexDop CT+ w/3 MHz Obstetric & 8 MHz Vascular Probes, 220 volt	7-8
CT50I	ImexDop CT+ w/5 MHz Vascular Probe, 220 volt	7-8
CT58I	ImexDop CT+ w/5 & 8 MHz Vascular Probes, 220 volt	7-8
CT80I	ImexDop CT+ w/8 MHz Vascular Probe, 220 volt	7-8
CTWPI	ImexDop CT+ w/2 MHz Waterproof Obstetric Probe, 220 volt	7-8
ZLT011NP	ImexDop CT+ without Probe, 220 volt	7-8
ED20I	Elite 200 w/2 MHz Obstetric Probe	2-4
ED23I	Elite 200 w/2 & 3 MHz Obstetric Probes	2-4
ED25I	Elite 200 w/2 MHz Obstetric & 5 MHz Vascular Probes	2-4
ED28I	Elite 200 w/2 MHz Obstetric & 8 MHz Vascualr Probes	2-4
ED2WI	Elite 200 w/2 MHz Waterproof Obstetric Probe	2-4
ED30I	Elite 200 w/3 MHz Obstetric Probe	2-4
ED35I	Elite 200 w/3 MHz Obstetric & 5 MHz Vascular Probes	2-4
ED38I	Elite 200 w/3 MHz Obstetric & 8 MHz Vascular Probes	2-4
ED50I	Elite 200 w/5 MHz Vascular Probe	2-4
ED58I	Elite 200 w/5 & 8 MHz Vascular Probes	2-4
ED80I	Elite 200 w/8 MHz Vascular Probe	2-4
ED20RI	Elite 200R w/2 MHz Obstetric Probe, 220 volt	2-4
ED23RI	Elite 200R w/2 & 3 MHz Obstetric Probes, 220 volt	2-4
ED25RI	Elite 200R w/2 MHz Obstetric & 5 MHz Vascular Probes, 220 volt	2-4
ED28RI	Elite 200R w/2 MHz Obstetric & 8 MHz Vascular Probes, 220 volt	2-4
ED2WRI	Elite 200R w/2 MHz Waterproof Obstetric Probe, 220 volt	2-4
ED30RI	Elite 200R w/3 MHz Obstetric Probe, 220 volt	2-4
ED35RI	Elite 200R w/3 Obstetric & 5 MHz Vascular Probes, 220 volt	2-4
ED38RI	Elite 200R w/3 Obstetric & 8 MHz Vascular Probes, 220 volt	2-4
ED50RI	Elite 200R w/5 MHz Vascular Probe, 220 volt	2-4
ED58RI	Elite 200R w/5 & 8 MHz Vascular Probes, 220 volt	2-4
ED80RI	Elite 200R w/8 MHz Vascular Probe, 220 volt	2-4
EN20I	Elite 100 w/2 MHz Obstetric Probe	2-4
EN23I	Elite 100 w/2 & 3 MHz Obstetric Probes	2-4
EN25I	Elite 100 w/2 MHz Obstetric & 5 MHz Vascular Probes	2-4
EN28I	Elite 100 w/2 MHz Obstetric & 8 MHz Vascular Probes	2-4
EN2WI	Elite 100 w/2 MHz Waterproof Obstetric Probe	2-4
EN30I	Elite 100 w/3 MHz Obstetric Probe	2-4
EN35I	Elite 100 w/3 MHz Obstetric & 5 MHz Vascular Probes	2-4
EN38I	Elite 100 w/3 MHz Obstetric & 8 MHz Vascular Probes	2-4
EN50I	Elite 100 w/5 MHz Vascular Probe	2-4
EN58I	Elite 100 w/5 & 8 MHz Vascular Probes	2-4
EN80I	Elite 100 w/8 MHz Vascular Probe	2-4
EN20RI	Elite 100R w/2 MHz Obstetric Probe	2-4
EN23RI	Elite 100R w/2 & 3 MHz Obstetric Probes	2-4
EN25RI	Elite 100R w/2 MHz Obstetric & 5 MHz Vascular Probes	2-4
EN28RI	Elite 100R w/2 MHz Obstetric & 8 MHz Vascular Probes	2-4
EN2WRI	Eilte 100R w/2 MHz Waterproof Probe	2-4
EN30RI	Elite 100R w/3 MHz Obstetric Probe, 220 volt	2-4
EN35RI	Elite 100R w/3 MHz Obstetric & 5 MHz Vascular Probes, 220 volt	2-4
EN38RI	Elite 100R w/3 MHz Obstetric & 8 MHz Vascular Probes, 220 volt	2-4
EN50RI	Elite 100R w/5 MHz Vascular Probe, 220 volt	2-4
EN58RI	Elite 100R w/5 & 8 MHz Vascular Probes, 220 volt	2-4
EN5AR-I	Elite 100R w/5 MHz Vascular Probe & ABI Cuff Kit, 220 volt	2-4, 20
EN80RI	Elite 100R w/8 MHz Vascular Probe, 220 volt	2-4
EN8ARI	Elite 100R w/8 MHz Vascular Probe & ABI Cuff Kit, 220 volt	2-4, 20

Catalog #	Description	Page
FR20I	Imex FreeDop w/2 MHz Obstetric Probe, 220 volt	5-6
FR23I	Imex FreeDop w/2 & 3 MHz Obstetric Probe, 220 volt	5-6
FR25I	Imex FreeDop w/2 & 5 MHz Vascular Probes, 220 volt	5-6
FR28I	Imex FreeDop w/2 & 8 MHz Vascular Probes, 220 volt	5-6
FR30I	Imex FreeDop w/3 MHz Obstetric Probe, 220 volt	5-6
FR35I	Imex FreeDop w/3 MHz Obstetric & 5 MHz Vascular Probes, 220 volt	5-6
FR38I	Imex FreeDop w/3 MHz Obstetric & 8 MHz Vascular Probes, 220 volt	5-6
FR50I	Imex FreeDop w/5 MHz Vascular Probe, 220 volt	5-6
FR58I	Imex FreeDop w/5 & 8 MHz Vascular Probes, 220 volt	5-6
FR80I	Imex FreeDop w/8 MHz Vascular Probe, 220 volt	5-6
FRX0I	Imex FreeDop without Probe, 220 volt	5-6
J200I	Pocket-Dop 3 w/2 MHz Obstetric Probe, 220 volt	12
J300I	Pocket-Dop 3 w/3 MHz Obstetric Probe, 220 volt	12
J230I	Pocket-Dop 3 w/2 & 3 MHz Obstetric Probe, 220 volt	12
MVAPMI	VersaLab APM Single Antepartum Monitor, 220 volt	13-15
MVAPTI	VersaLab APM2 Twin Antepartum Monitor, 220 volt	13-15
VLL40I	VersaLab LE w/4 MHz Bi-Directional Probe and Printer, 220 volt	17-19
VLL80I	VersaLab LE w/8 MHz Bi-Directional Probe and Printer, 220 volt	17-19
VLL48I	VersaLab LE w/4 & 8 MHz Bi-Directional Probe and Printer, 220 volt	17-19
VLS40I	VersaLab SE w/4 MHz Bi-Directional Probe and Printer, 220 volt	17-19
VLS80I	VersaLab SE w/8 MHz Bi-Directional Probe and Printer, 220 volt	17-19
VLS48I	VersaLab SE w/4 & 8 MHz Bi-Directional Probe and Printer, 220 volt	17-19
ZPKNP101	Elite 100 without Probe	2-4
ZPKNP201	Elite 100R without Probe, 220 volt	2-4
ZPKNP301	Elite 200 without Probe	2-4
ZPKNP401	Elite 200R without Probe, 220 volt	2-4
	CHARGERS & CHARGING STANDS	
C619	220V AC Battery Charger (Pocket-Dop II & OB)	10, 31
C630I	Replacement Charging Stand for ImexDop CT+ & Imex FreeDop, 220 volt	6, 8, 31
C640I	Replcement Charger for Pocket-Dop 3, Elite 100R & Elite 200R, 220 volt	3, 12, 31
C641	Recharging Stand For Pocket-Dop 3	12, 31
C644	VersaLab Power Supply, 110 - 250 volt	14, 18, 31
C645I	VersaLab Power Cord, 220 volt	14, 18, 31

Natus Terms and Conditions of Sale of Goods and Services

1. General. For purposes of these Terms and Conditions of Sale of Goods and Services, Natus means Natus Medical Incorporated and all of its wholly-owned subsidiaries. Unless Natus has a separate written agreement with Customer or with Customer's designated Group Purchasing Organization, these Terms and Conditions of Sale of Goods and Services, the separate Natus Software License Agreement ("NSLA"), if applicable, any applicable Service Agreement and associated service contract and related schedules constitute the entire agreement between Natus and Customer. Any additional or different terms, including but not limited to those on Customer'spurchase order or other forms, are hereby objected to by Natus. Natus' failure to object to provisions contained in any communication from the Customer shall not be deemed an acceptance of such provisions or a waiver of the terms and conditions contained herein. Any changes in the terms and conditions contained herein must specifically be agreed to in writing by a duly authorized officer of Natus before becoming binding upon Natus. In the event Natus and Customer have executed and entered into a corporate account contract covering Customer's purchase of the goods, the terms and conditions contained in such agreement shall take precedence over those herein.

2. Prices and Taxes. Prices for goods and services purchased under this Agreement are in U.S. dollars, unless otherwise noted. Irrespective of any prices quoted by Natus or listed in Customer's order, an order is accepted only at the prices shown on the face of this form. Prices quoted for the terms described on the face of this form are firm and not subject to re-determination. Prices do not include and Customer acknowledges and agrees that it shall be responsible for any other amount including without limitation fees for export, customs duties, tariffs, special packaging, transportation, insurance and all federal, state and local charges, sales, use, gross receipts, excise, valued-added, services, or any similar transaction or consumption taxes ("Taxes"). Any such amount including taxes, fees or charges imposed by any governmental authority on, or measured by, the transaction between Natus and Customer will be paid by Customer in addition to the price specified herein. In the event that Natus is required to pay any amount in addition to the prices on the face of this form, Customer will reimburse Natus therefore, including costs for any interest or penalty that may be due to any taxing authority. If Customer is exempt from any such amount, Customer must provide Natus with a valid exemption.

Each party is responsible for any personal property or real estate taxes on property that the party owns or leases, for franchise and privilege taxes on its business, and for taxes based on its net income or gross receipts.

3. Terms and Method of Payment. Provided that Customer establishes and maintains open account credit to Natus' satisfaction and within credit limits established by Natus, the invoiced amount shall be due and payable in full 30 days after the invoice date. Accounts outstanding for more than 30 days will be subject to a monthly service charge at the rate of 1.5% per month or the maximum amount permitted by applicable law, whichever is less. At Natus' sole discretion, Natus may terminate a Customer's open account credit at any time without advance notice to Customer whether for Customer's failure to pay for any products or services when due or for any other reason deemed good or sufficient by Natus, and in such event all subsequent shipments and services shall be paid for on receipt. For any products requiring final assembly or installation by Natus, if such assembly or installation is delayed by more than 30 days after delivery of the products for any reason for which Customer is responsible, Natus will bill Customer for and Customer will pay Natus any remaining payments due under this agreement. If Customer has a good faith dispute regarding payment for a particular product or service, such dispute shall not entitle Customer to withhold payment for any other product or service purchased from Natus. Customer grants Natus a purchase money security interest in all items of equipment listed in the Natus Quotation until full payment is received, and Customer agrees to perform all acts and execute all documents as may be necessary to perfect Natus' security interest upon request from Natus. Prices for upgrades and revisions assume that Customer returns the replaced component and transfers title to Natus at no charge to Natus.

4. Late Payment. Failure to make timely payment is a material breach of this agreement, for which (in addition to other available remedies) Natus may suspend performance under any or all Natus agreements until all past due amounts are brought current. If Natus so suspends, Natus will not be responsible for the completion of planned maintenance due to be performed during the suspension period and any product downtime will not be included in the calculation of any uptime commitment (if applicable). Customer will reimburse Natus for reasonable costs (including attorneys' fees) relating to collection of past due amounts. Any credits that may be due to Customer under an agreement may be applied first to any outstanding balance. If, after product delivery, Customer does not make any payments for the products within 45 days after such payments are due, Natus may, upon 10 days prior written notice to Customer, either (a) enter upon Customer's site and remove the products or (b) temporarily disable the products so that they are not operational.

5. Title, Shipment, Delivery and Risk of Loss. For domestic deliveries, all deliveries are F.O.B. point of shipment. For international deliveries, all deliveries are Ex Works point of shipment (Incoterms 2000). For all deliveries, (i) delivery will be deemed to have occurred upon making the goods available to a carrier at the shipping point; (ii) title to the goods ordered will pass to Customer upon delivery of the goods by Natus to the carrier. Freight and insurance will be added to invoice as a separate line item. Natus shall arrange for and select the method and route of shipment. Unless otherwise specified, the goods will be shipped in standard commercial packaging. When special or export packaging is requested, or in the opinion of Natus, required under the circumstances, the costs of such packaging, if not set forth on the invoice, will be separately invoiced. While Natus may prepay transportation, insurance and freight charges, all such charges shall be paid by Customer and Customer shall reimburse Natus therefore. Natus reserves the right to make partial deliveries and to ship as product becomes available. Natus will use its reasonable commercial efforts to meet estimated delivery times, but Natus shall not be responsible for any amount, loss, damage, penalty or liability suffered by Customer as a result of delay in or failure to deliver the goods. In the event of a loss or damage of Product shipped, Customer shall bear complete and exclusive responsibility to notify Natus within 10 days of delivery and Natus shall provide the Customer with replacement Product at no charge and Natus will receive, and Customer acknowledges Natus' right to receive, any payment from the insurer.

6. Acceptance and Returns. Product shall be deemed accepted upon shipment unless it is shipped in error and Natus shall not accept return of any product unless the product is shipped in error. In such cases, the customer must contact Natus Customer Service at 1-800-356-0007, option 1 within ten (10) business days after delivery to receive a return authorization number and to arrange return shipment to Natus at Natus' expense. The return authorization number must be clearly written on each box or return label. Product must be returned prior to use or installation in its original packaging. Acceptance of Products requiring installation by Natus shall be deemed to have occurred when Natus has completed installation and demonstrated to the Customer that the Product(s) is/are (a) operating according to Specifications and (b) completely ready for clinical use.

7. Warranties. Product warranties (if applicable) for products purchased hereunder are subject to a limited product warranty that, if applicable, accompanies the goods and is available at www.natus.com and is incorporated into this agreement by reference. For Services provided under this Agreement, Natus warrants that such services will be performed by trained individuals in a professional, workman-like manner. Natus will promptly re-perform any non-conforming services for no charge as long as Customer provides reasonably prompt written notice to Natus. The foregoing service remedy, together with any remedy provided in the applicable Natus product warranty forms delivered with this agreement, are Customer's sole and exclusive remedies (and Natus' sole and exclusive liability) for warranty claims. These exclusive remedies shall not have failed of their essential purpose (as that term is used in the Uniform Commercial Code) as long as Natus remains willing to repair or replace defective warranted products or re-perform any non- conforming services for no charge, as applicable, within a commercially reasonable time after being notified of Customer's warranty claim.

NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, SYSTEM INTEGRATION AND DATA ACCURACY, WILL APPLY.

Natus may use refurbished parts in new products as long as it uses the same quality control procedures and warranties as for new products. Any part for which Natus has supplied a replacement shall become Natus property.

8. Limitation of Liability. NOTWITHSTANDING THE FOREGOING, NATUS' LIABILITY ARISING OUT OF OR RELATED TO (I) ANY GOODS PURCHASED UNDER THIS AGREEMENT; AND (II) SERVICES PROVIDED UNDER THIS AGREEMENT AND/OR SALE SHALL BE LIMITED TO REFUND OF THE PURCHASE PRICE OF SUCH GOODS OR SERVICES. IN NO EVENT SHALL NATUS BE LIABLE FOR LOST USE, PROFITS, REVENUE, COST OF PROCUREMENT OF SUBSTITUTE GOODS, OR ANY OTHER SPECIAL, INDIRECT, RELIANCE, INCIDENTAL OR CONSEQUENTIAL DAMAGES HOWEVER CAUSED AND UNDER ANY THEORY OF LIABILITY. THE FOREGOING LIMITATIONS SHALL APPLY REGARDLESS OF WHETHER NATUS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, NOTWITHSTANDING THE FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY AND REGARDLESS OF WHETHER SUCH DAMAGES ARISE OUT OF THIRDPARTY CLAIMS AGAINST CUSTOMER.

9. Software License. Natus grants to Customer a non-exclusive, non-transferable license to use for internal business only the Natus software, third-party software and associated documentation provided hereunder by Natus to Customer, subject to the license scope and other restrictions set forth in this agreement and the Natus Software License Agreement ("NSLA"). Customer may permit its employees, agents and independent contractors to use the software and associated documentation consistent with this agreement; provided, however, that Customer shall be responsible for any acts of its employees, agents and/or independent contractors which are inconsistent with this agreement. Customer may only use any third-party software provided by Natus together with the Natus software and will comply with all third-party software license terms. Without Natus' prior written consent, Customer may not: (i) copy, sublicense, distribute, rent, lease, loan, resell, modify or translate the software or create derivative works based thereon; (ii) directly or indirectly decompile, disassemble, reverse engineer or otherwise attempt to learn the source code, structure, algorithms or ideas underlying the software; (iii) provide service bureau, time share or subscription services based on the software; or (iv) remove, obscure or modify any markings, labels or any notice of the proprietary rights, including copyright, patent and trademark notices of Natus or its licensors. Customer may make one copy of the software solely for backup purposes. Natus and its licensors, as applicable, retain all ownership and intellectual property rights to the software and documentation. If Customer acquires any rights to the software or documentation, Customer hereby assigns all of those rights to Natus or its licensors, as applicable. No license rights are granted (whether by implied license or otherwise), to Customer, except as specifically provided in this section. If Customer is a U.S. Government agency, Customer acknowledges that the software licensed under this agreement is a commercial item that has been developed at private expense and not under a Government contract. The Government's rights relating to the software are limited to those rights applicable to Customers as set forth herein and are binding on Government users in accordance with Federal Acquisition Regulation 48 C.F.R. Section 12.212 for non-defense agencies and/or Defense FAR Supplement 48 C.F.R. Section 227.7202-1 for defense agencies.

10. Bankruptcy. If Customer (i) becomes bankrupt or insolvent, (ii) compounds with its creditors, (iii) commences to be wound up, or (iv) suffers a receiver to be appointed, Natus will be at liberty by notice in writing to cancel this contract without judicial intervention or declaration of default by Customer and without prejudice to any right or remedy that may have accrued or may accrue thereafter.

11. General Indemnification. Natus will defend, indemnify and hold harmless Customer from any third party claims brought against Customer for infringement of intellectual property rights arising from Customer's use of the Natus manufactured equipment and/or Natus proprietary software purchased or licensed by Customer from Natus in accordance with their specifications and within the license scope granted in this agreement. If any such claim materially interferes with Customer's use of the Natus manufactured equipment and/or Natus proprietary software, Natus shall, at its option: (i) substitute functionally equivalent non-infringing products; (ii) modify the Natus product so that it no longer infringes but remains functionally equivalent; (iii) obtain for Customer at Natus' expense the right to continue to use the infringing Natus product; or (iv) if the foregoing are not commercially reasonable, refund to Customer the purchase price, as depreciated (based on five year's straight-line depreciation), for the Natus product that gave rise to the claim. Any such claims against Customer arising from Customer's use of the Natus manufactured equipment and/or proprietary software after Natus has notified Customer to discontinue use of such equipment and/or software and offered one of the remedies set forth in clauses (i) through (iv) above are the sole responsibility of Customer. This section represents Customer's sole and exclusive remedy (and Natus' sole and exclusive liability) regarding any claim of infringement associated with the Natus manufactured equipment and/or proprietary software and/or any use thereof. The above indemnification obligation is conditional upon Customer providing Natus prompt written notice of the third party infringement claim after receipt of notice of such claim, allowing Natus to control the defense and disposition of such claim, and reasonably cooperating with Natus in the defense. Natus shall not have any obligation to Customer hereunder: (a) for damages sought by a third party claimant based on or resulting from the amount of revenues or profits earned or other value obtained by the use of such Natus product, or the amount of use of such Natus product; or (b) for infringement claims based on or resulting from: (i) the use of such Natus product in combination with any computer software, tools, hardware, equipment, or any other materials, or any part thereof, or services, not furnished by Natus or authorized by Natus in its documentation; (ii) the use of such Natus product in a manner or environment, or for any purpose, for which Natus \ Healthcare did not design or license it, or in violation of Natus' instructions on use; or (iii) any modification of such Natus product by Customer or any third party. Natus shall not be responsible for any compromise made by Customer or its agents without Natus' consent. This indemnification obligation is expressly limited to the product purchased or licensed by Customer from Natus. In addition to any other limitations stated in this section, this section does not apply to Gold Seal Exchange Products.

Terms and Conditions

12. Health Information and Indemnification. Customer shall comply with all laws, rules and regulations relating to the confidentiality of the physical or mental health or condition of an individual, the provision of health care to an individual or payment for the provision of health care to an individual. Customer shall indemnify and defend Natus in respect of and hold Natus harmless against any and all debts, obligations and other liabilities (whether absolute, accrued, contingent, fixed or otherwise, or whether known or unknown, or due or to become due, or otherwise), monetary damages, fines, fees, penalties, interest obligations, deficiencies, losses and expenses (including without limitation amounts paid in settlement, interest, court costs, costs of investigators, fees and expenses of attorneys, accountants, financial advisors and other experts, and other expenses of litigation) incurred or suffered by Natus or any affiliate thereof resulting from, arising out of, relating to or constituting any allegation that Customer's act or failure to act is a violation of such laws, rules or regulations, or that such act or failure to act caused or contributed to Natus' violation of such laws, rules or regulations.

13. Excusable Delays. If the performance of any obligation of Natus is prevented, restricted or interfered with by reason of any act or condition whatsoever beyond Natus' reasonable control (including without limitation, strike, fire, riot, war, rebellion, insurrection, acts of God, failure or shortage of transportation, materials or facilities, or governmental regulations), Natus upon giving prompt notice shall be excused from such performance to the extent of such prevention, restriction or interference.

14. Governing Law; Disputes; Limitation of Liability. THESE TERMS AND CONDITIONS ARE GOVERNED BY THE LAWS OF THE STATE OF CALIFORNIA, WITHOUT REFERENCE TO CONFLICT OF LAW PRINCIPLES. EACH PARTY EXPRESSLY WAIVES ALL RIGHTS TO A JURY TRIAL IN CONNECTION WITH ANY DISPUTE ARISING UNDER THIS AGREEMENT. Disputes (other than collection matters) arising under or relating to this agreement will be submitted to the American Arbitration Association ("AAA") office located closest to the largest metropolitan area of the state where the product is installed or the service is provided for binding arbitration in accordance with the AAA's Commercial Arbitration Rules. The cost of the arbitration, including the fees and expenses of the arbitrator, will be shared equally, with each party paying its own attorneys' fees.

The arbitrator will have the authority to award damages only to the extent otherwise available under this agreement. NATUS' (AND ITS REPRESENTATIVES') LIABILITY UNDER THIS AGREEMENT, REGARDLESS OF THE FORM OF ACTION, SHALL NOT EXCEED: (A) FOR STAND-ALONE PRODUCT OR SERVICE OFFERINGS, THE PRICE FOR THE PRODUCT OR SERVICE THAT IS THE BASIS FOR THE CLAIM; OR (B) FOR SERVICE CONTRACTS, THE ANNUAL CONTRACT PRICE FOR THE SERVICE THAT IS THE BASIS FOR THE CLAIM.

The limitation of liability and exclusion of damages shall apply even if the limited remedies fail of their essential purpose.

None of the goods or underlying information or technology may be exported or re-exported, directly or indirectly, contrary to any law or export control.

15. Notification of Discount. Customer's price paid to Natus for goods or services hereunder, or Natus' provision of goods or services to Customer, particularly pursuant to any promotional Program or other discount, may constitute a "discount or other reduction in price" for purposes of the federal anti-kickback statute, 42 USC §1320a-7b(b). To the extent required by the statute or by the discount safe harbor regulations at 42 CFR §1001.952(g)-(h), a Customer hospital will be responsible for fully and accurately reporting in applicable cost reports and providing information upon request to Medicare, Medicaid and other federal health care programs on all discounts or other price reductions provided under this agreement. Consistent with the discount safe harbors, Natus will inform a Customer hospital of the price reduction of any items purchased or any free items it provides to a hospital as part of any similar program and also will inform a hospital of the price discounts related to the purchase of Natus products or services.

16. Confidentiality. Natus will treat patient information as confidential and comply with applicable privacy laws. Each party will treat the terms of this agreement and the other party's written, proprietary business information as confidential if marked as confidential or proprietary. Customer will treat Natus (and Natus' third party vendors') software and technical information as confidential information whether or not marked as confidential and shall not use or disclose to any third parties any such confidential information except as specifically permitted in this agreement or as required by law (with reasonable prior notice to Natus). The receiving party shall have no obligations with respect to any information which (i) is or becomes within the public domain through no act of the receiving party in breach of this agreement, (ii) was in the possession of the receiving party prior to its disclosure or transfer and the receiving party can so prove, (iii) is independently developed by the receiving party and the receiving party can so prove, or (iv) is received from another source without any restriction on use or disclosure.

17. Termination. If either party materially breaches this agreement and the other party seeks to terminate on the basis of that breach, such other party shall notify the breaching party in writing, setting out the breach, and the breaching party will have 60 days following such notice to remedy the breach. If the breaching party fails to remedy the breach during that period, the other party may, subject to the terms and conditions of this agreement and by written notice terminate this agreement. All orders are subject to (i) Natus' on-going credit review and approval and (ii) Natus' on-going determination that Customer and the proposed order or related service agreement comply with all applicable laws and regulations, including those relating to workplace safety, FDA matters, Federal Healthcare Program Anti-kickback compliance, export/import control and money laundering prevention. Customer acknowledges that the products are or may be subject to regulation by the FDA and other federal or state agencies. Customer shall not use or permit the products to be used in any manner that does not comply with applicable FDA or other regulations or for any non-medical, entertainment, or amusement purposes. Further, Customer represents that it is purchasing the products for its own use consistent with the terms of this agreement and that it does not intend to re-sell the products to any other party or to export the products outside the country to which Natus delivers the products. If Natus determines in good faith at any time that there are legal or regulatory compliance and/or material credit issues with the order or related service agreement, Natus may terminate this agreement (including warranty services hereunder) immediately upon written notice to Customer.

18. Record Retention. If Section 1861(v)(1)(I) of the Social Security Act applies to this agreement, subsections (i) and (ii) of such Section are made a part hereof. If applicable, Natus will retain and make available, and insert the requisite clause in each applicable subcontract requiring its subcontractors to retain and make available, the contracts, books, documents and records to the persons, upon the requests, and for the periods of time as required by such subsections. 19. Cost Reporting. Customer will (i) fully and accurately account for, and report in any applicable cost reports or otherwise fully disclose to government program payors and accurately reflect where and as appropriate to the applicable reimbursement methodology, and (ii) provide information upon request by federal or state agencies concerning, all services and other items, including any discounts, received from Natus under this agreement in compliance with all applicable laws, including the federal Social Security Act and implementing regulations relating to Medicare, Medicaid, and other federal and state health care programs.

20. Customer Responsibilities. In order for Natus to perform its obligations under this agreement (including warranty obligations), Customer agrees to:

• Provide and maintain a suitable, safe and hazard-free location and environment for the Natus products and services in material compliance with any written requirements provided by Natus, perform Natus recommended routine maintenance and operator adjustments, ensure that any non-Natus provided service is performed by, and Natus products are used by, qualified personnel in accordance with applicable user documentation.

• Provide Natus prompt and unencumbered access to the products, network cabling and communication equipment as necessary to perform services. This access includes providing and maintaining connectivity to the products (modem line, internet connection, vpn persistent access, broadband internet connection, or other secure remote access reasonably requested by Natus) to permit Natus to perform support services and meet service levels, including remote diagnostic, monitoring and repair services. Natus may separately charge Customer for a scheduled service call where Customer does not provide such access and Natus is therefore required to schedule an additional service call.

• Promptly place service calls in accordance with any reasonable Natus protocols provided to Customer and designate a Customer representative and alternate as Natus' support contacts with the necessary skills to assist Natus in the diagnosis of service problems.

• Establish and maintain security, virus protection, backup and disaster recovery plans for any data, images, software or equipment (Natus' services do not include recovery of lost data or images) according to Natus technical requirements. This responsibility includes maintaining secure network and network security components, firewalls and security-related hardware or software, preventing unauthorized access to the product and preventing interception of communications between Natus' service center and the product.

• Obtain and maintain all licenses, permits, and other approvals necessary for installation, use, disposal, and recycling (each as applicable) of products provided under this agreement. During the term of this agreement, Customer will take all necessary and legally required precautions for the health and safety of Natus personnel who will perform any service at the Customer site, including, but not limited to, (i) instructing any Natus personnel who will be present at the Customer site about Customer's safety procedures and practices, (ii) providing Natus with current written information identifying all known existing hazardous materials (including wastes) on or near the Customer site that could affect the Natus personnel, (iii) taking all necessary and/or legally required actions to properly store, remove and/or remediate any safety conditions and hazardous materials so that Natus may safely perform its services, and (iv) maintaining a workplace and operating environment in accordance with Federal, State and/or local requirements. Natus shall have no obligation to perform services until Customer has complied with each of the items identified above.

Unless expressly provided otherwise, Customer is separately responsible for: (a) the repair, replacement or removal of any disposables, consumables, supplies, accessories or collateral equipment; (b) the provision of or payment for any applicable rigging or facility cost; and (c) any service necessitated by (i) Customer's or its representative's designs, specifications, or instructions, (ii) anything external to the products, including any causes or events beyond Natus' reasonable control, (iii) product misuse, (iv) combining any component of the products with any incompatible equipment or software, or (v) Customer's relocation, additions, or changes to the products, unless Natus has consented in writing to such relocations, additions or changes.

21. Installation. Natus installation services provided or identified in its Quotation will be performed in accordance with applicable Natus installation guides and project plans, if any, and otherwise subject to the following additional provisions. Customer agrees to review the applicable installation guides and project plans and perform its obligations set forth in those materials.

Customer will prepare the location for the installation consistent with Natus written specifications and applicable law. Customer will install necessary system cable and assemble any necessary equipment or hardware not provided by Natus, unless agreed otherwise in writing by the parties. For products that will be operated on or in connection with Customer supplied hardware or software, Customer is responsible for ensuring that its hardware and software conform with Natus minimum hardware and software requirements as made available to Customer. Customer will be responsible for enabling the connectivity and interoperability between its Customer supplied hardware or software or other systems or devices and the Natus product, including, without limitation, procuring and installin installing any modifications, interfaces or upgrades consistent with Natus written specifications.

Customer is solely responsible for ensuring that Customer's network is adequate for the proper operation and performance of the products and that it otherwise meets Natus network configuration requirements (including requirements for preparation of Customer's site, remote interconnections and Internet Protocol address assignments) provided by Natus to Customer.

22. Customer Training. Unless otherwise agreed to by the parties, training of Customer staff by Natus must be completed within 12 months after (i) the date of product delivery for training purchased with products and (ii) the start date for services for training purchased with services. If training is not completed within the applicable time period, Natus' obligation to provide the training will expire without refund.

23. Assignment; Use of Subcontractors. Neither party may assign any of its rights or obligations under this agreement without the prior written consent of the other party, which consent shall not be unreasonably withheld; provided, however, that either party may transfer and assign this agreement without the other party's consent to any person or entity (except to a Natus competitor) that is an affiliate of such party or that acquires substantially all of the stock or assets of such party's applicable business if any such assignees agree, in writing, to be bound by the terms of this agreement. Subject to such limitation, this agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and permitted assigns. Natus may hire subcontractors to perform work under this agreement; provided, however, that Natus will at all times remain responsible for the performance of its obligations and duties under this agreement.

24. Medical Diagnosis and Treatment. Customer hereby acknowledges and agrees that all clinical and medical treatment and diagnostic decisions are the responsibility of Customer and its professional healthcare providers.

25. Amendment; Waiver; Survival. This agreement may be amended only in writing signed by both parties. Any failure to enforce any provision of this agreement is not a waiver of that provision or of either party's right to later enforce each and every provision. The terms of this agreement that by their nature are intended to survive its expiration (such as the confidentiality provisions included herein) will continue in full force and effect after its expiration. Software license provisions applicable to perpetual software licenses fully paid for prior to termination shall survive termination of this agreement.

26. Contract Formation. Natus' Quotation is subject to withdrawal at any time before acceptance. Customer accepts by signing and returning the Quotation or by sending a purchase order in response to the Quotation. Upon Customer's acceptance, Natus' Quotation and the related terms and conditions referred to in the Quotation shall constitute the entire agreement relating to the products and services covered by the Quotation. The parties agree that they have not relied on any oral or written terms, conditions, representations or warranties outside those expressly stated or incorporated by reference in this agreement in making their decisions to enter into this agreement. No agreement or understanding, oral or written, in any way purporting to modify these terms and conditions or the Quotation, whether contained in Customer's purchase order or shipping release forms, or elsewhere, shall be binding on Natus unless hereafter made in writing and signed by Natus' authorized representative. Customer is hereby notified of Natus' objection to any terms inconsistent with this Quotation and to any other terms proposed by Customer in accepting this Quotation. Neither Natus' subsequent lack of objection to any such terms, nor the delivery of the products or services, shall constitute an agreement by Natus to any such terms.

TERMS AND CONDITIONS FOR SUPPORT SERVICES

1. Equipment Inspection. Equipment covered under Support Services offered under this Agreement, if any, must be in safe, normal operating condition and substantially in compliance with Natus' specifications ("Operating Condition") when added to any Service Schedule (if not at time of purchase). Natus may inspect all equipment that has been without Natus warranty or service contract coverage for more than 30 days. This service agreement will be effective for such equipment only after a Natus service representative has determined its eligibility. If, after inspection, Natus determines an item of Equipment is not in Operating Condition, we will notify you within 30 days of the inspection, and you will be responsible for bringing that item of Equipment into Operating Condition. Natus will have no service responsibility with respect to Equipment that is not in Operating Condition when added to a Schedule.

2. Inflation Adjustments. After the first year of any Service agreement, but no more than annually, Natus may adjust the service fees by an amount no more than the prior 12-month increase in the US Bureau of Labor Statistics (BLS) Employment Cost Index (ECI) for "Installation, Maintenance and Repair (not seasonally adjusted, total compensation)", or any replacement index as determined by the BLS. Natus will notify customer approximately 60 days prior to any adjustment. This adjustment shall be no more than 5% annually. The valid address for any such notification will be the same address that Natus sends agreement invoices.

3. Power and Grounding. Customer is responsible for ensuring satisfactory power quality and grounding for all Equipment.

4. Customer Responsibilities. Prior to the commencement of any services hereunder, Customer shall provide to Natus (and those employees that will be working on Customer's site) a list of all chemicals or hazardous materials (e.g., asbestos, lead, mercury, etc.) located in or on Customer's site that Natus' employees may be exposed to and/or expected to handle and any associated Material Safety Data Sheets.

5. End of Support Announcement. If Natus announces to its customers that it will no longer offer support ("end of product life") for a product or component, then upon at least 12 months' prior written notice to Customer, Natus may, at its option, remove any such item from all Natus service agreements, with an appropriate adjustment of charges, without otherwise affecting such agreements. Natus will use its reasonably diligent efforts to continue its support obligations under this service agreement for any product or component that is approaching its end of product life for as long as it is covered by this service agreement.

6. Termination of Services Prior to the End of Term. You are not permitted to terminate support services provided under this Agreement prior to the end of the term hereof other than as expressly provided pursuant to the termination provisions hereof. In the event Natus terminates this Agreement upon your material breach in accordance with the termination provisions hereof, then, in addition to any other charges or fees that may have accrued up to the date of such termination, you will immediately render payment to Natus in an amount equal to 50% of the Normal Fixed Charges due under the remaining term of this Agreement (from the date of such termination). Natus and Customer agree that this liquidated damages provision represents reasonable compensation for the loss that would be incurred by the Natus due to any such breach. Customer also agrees that nothing in this section is intended to limit Natus' other rights, remedies or relief at law or in equity as may be appropriate.

Notwithstanding the foregoing, should customer purchase replacement equipment covered under a valid support services agreement and otherwise subject to these terms and conditions of sale, Natus shall, in its sole discretion, terminate any support services agreement and waive the payment of Normal Fixed Charges noted above by providing Customer with a credit towards the purchase price of such replacement equipment equal to the amount of waived Normal Fixed Charges. To receive this waiver/replacement credit, Customer must reference the applicable support service agreement a by contract number and inform Natus that Customer is eligible for the credit at the time of the order. Such a waiver/credit of termination fess may not be applied retroactively for orders placed outside the term of a valid support services agreement or except in conjunction with the terms of this Agreement.

7. Solicitation of Employees. For the duration of this Agreement, and for 90 days after its expiration, the parties agree that neither party nor any of their controlled affiliates will directly or indirectly solicit for hire any employee of the other party or the other party's subsidiaries who is engaged in the performance of this Agreement. In the event of a breach of this provision, the breaching party agrees to pay the non-breaching party a sum equal to twelve (12) months' pay for each solicited employee at the rate the non-breaching party or its subsidiary paid the person during his or her last full month of employment with the non-breaching party or its subsidiary.

8. Exclusions. In addition to the Customer Responsibilities listed in the Standard Terms and Conditions, this Agreement does not cover the following:

NEUROLOGY PRODUCTS – excludes parts damaged through misuse. Peripherals such as electrodes, cartridges, disposable batteries, cables, flash disks, keyboards and other human interfaces devices are not covered by this agreement.

PEDIATRIC AND NEWBORN PRODUCTS - excludes parts damaged through misuse. Peripherals such as electrodes, cartridges, disposable batteries, cables, flash disks, keyboards and other human interfaces devices are not covered by this agreement.

In addition, this Agreement does not cover: (i) any defect or deficiency (including failure to conform to Equipment Specifications and/or Documentation, as applicable) that results, in whole or in part, from any improper storage or handling, failure to maintain the Equipment in the manner described in any applicable instructions or specifications, inadequate back-up or virus protection or any cause external to the Equipment or beyond Natus' reasonable control, including, but not limited to, power failure and failure to keep Customer's site clean and free of dust, sand and other particles or debris; (ii) the payment or reimbursement of any facility costs arising from repair or replacement of the Equipment; (iii) any adjustment, such as alignment, calibration, or other normal preventative maintenance required of Customer, unless such coverage is provided by Natus as indicated on a Schedule; (iv) expendable supply items; and (v) stockpiling of replacement parts. For network and antenna installations not provided by Natus or its authorized agent(s), network and antenna system troubleshooting will be billable at Natus' standard service rates.

9. Software Updates. Operating software updates for Natus-manufactured equipment that revise or correct safety issues or enhance the productivity of system operations will be provided at no additional charge during the term of this Agreement. Software upgrades that provide additional clinical procedures or applications will be made commercially available at standard applicable rates. Software updates and upgrades for non-Natus-manufactured equipment are subject to the policies and conditions imposed by the relevant manufacturer.

U.S. phone orders

Toll Free: 1-877-842-7970

Monday through Friday

7 am to 5:30 pm (MT)

Fax or e-mail orders

24 hours a day, 7 days a week

Fax: 1-303-431-0429

Email: golden.salesdistro@natus.com

International orders

Phone: +1-303-431-9400

Fax: +1-303-431-0429

Email: golden.intlsales@natus.com

Mail in orders

Natus Neurology Incorporated

720 Corporate Circle, Suite A

Golden, CO 80401 USA

Attention: Customer Service

natus
neurology