

Obstetric & Vascular Dopplers

Product and Accessory Catalog

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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.

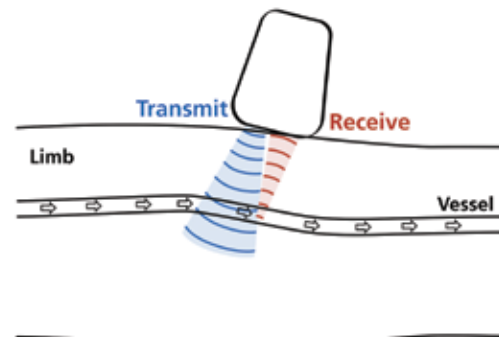
When ultrasound waves reflect off moving objects such as the fetal heart or blood flow, the waves are altered slightly in frequency. The Doppler then picks up these signals, processing and amplifying them so they are audible.

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.



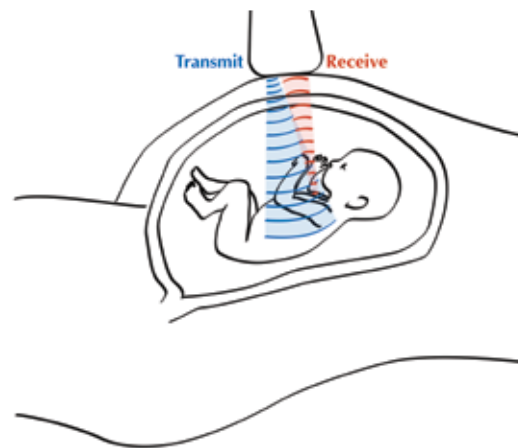
Vascular Application

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 9V alkaline battery or a rechargeable 8.4V 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

Unit:1 year labor and 10 years parts against manufacture defects.

Probes:1 year parts and labor against manufacture defects.

Detailed warranty information is provided with the Doppler at time of purchase.

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
UK 220V Standard Charger	698-364200
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

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



Nicolet® Elite



Elite 100



Elite 100R



Elite 200



Elite 200R

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 and 3 MHz standard obstetric probes	EN2W3
With ABI kit and 5 MHz vascular probe	EN5A
With ABI kit and 8 MHz vascular probe	EN8A
Without probe (with accessories)	ZPK001NP
Main unit only (without probes and accessories)	XMD010

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 and 3 MHz standard obstetric probes	EN2W3R
With ABI kit and 8 MHz vascular probe	EN8AR
Without probe (with accessories)	ZPK002NP
Main unit only (without probe and accessories)	XMD011

Elite 100R non-digital display with rechargeable batteries, 220V (For international only)

No display, Rechargeable battery	
With 2 MHz obstetric probe	EN20RI
With 3 MHz obstetric probe	EN30RI
With 5 MHz vascular probe	EN50RI
With 8 MHz vascular probe	EN80RI
With 2 and 3 MHz obstetric probes	EN23RI
With 2 MHz obstetric and 5 MHz vascular probes	EN25RI
With 2 MHz obstetric and 8 MHz vascular probes	EN28RI
With 3 MHz obstetric and 5 MHz vascular probes	EN35RI
With 3 MHz obstetric and 8 MHz vascular probes	EN38RI
With 5 and 8 MHz vascular probes	EN58RI
With 2 MHz waterproof obstetric probe	EN2WRI
With 5 MHz vascular probe & ABI cuff kit	EN5AR-I
With 8 MHz vascular probe & ABI cuff kit	EN8ARI
Without probe	ZPKNP201
Main unit only (without probe and accessories)	XMD011

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 and 3 MHz standard obstetric probes	ED2W3
With ABI kit and 8 MHz vascular probe	ED8A
Without probe (with accessories)	ZPK003NP
Main unit only (without probe and accessories)	XMD007

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 and 3 MHz standard obstetric probes	ED2W3R
Without probe (with accessories)	ZPK004NP
Main unit only (without probe and accessories)	XMD008

Elite 200R digital display with rechargeable batteries, 220V (For international only)

With 2 MHz obstetric probe	ED20RI
With 3 MHz obstetric probe	ED30RI
With 5 MHz vascular probe	ED50RI
With 8 MHz vascular probe	ED80RI
With 2 and 3 MHz obstetric probes	ED23RI
With 2 MHz obstetric and 5 MHz vascular probes	ED25RI
With 2 MHz obstetric and 8 MHz vascular probes	ED28RI
With 3 MHz obstetric and 5 MHz vascular probes	ED35RI
With 3 MHz obstetric and 8 MHz vascular probes	ED38RI
With 5 and 8 MHz vascular probes	ED58RI
With 2 MHz waterproof obstetric probe	ED2WRI
Without probe	ZPKNP401
Main unit only (without probe and accessories)	XMD008

IMEXDOP CT+™



Obstetric and Vascular Versatility

Proven Performance

Once you use the IMEXDOP CT+, you'll understand why Nicolet 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 durable design, reliability and performance of the IMEXDOP CT+ has been proven with years of experience and thousands of units in use.

Exceptional Features

Built-in, dual speakers provide superb sound quality, even in high ambient noise 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 lb. 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 to the wall or on 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 so it is ready to go when you need it next.



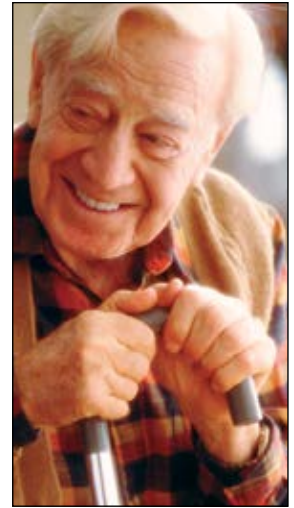
IMEXDOP CT+™

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



System Configurations

Product	Catalog #
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 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
2 & 3 MHz obstetric and 5 & 8 MHz vascular probes	CT2358
No probe	CTX0+
Main unit only includes battery and coiled cord (without probes and accessories)	XLT009

Technical Specifications

Weight	1.2 kg (2.7 lb)
Dimensions	22.4 x 10.9 x 15.7 cm (8.8 x 4.3 x 6.3 in)
Power Source	110V or 220V charger, replaceable 12 volt NiMH battery

Warranty

Unit: 10 years parts and 1 year labor against manufacture defects.
Probes: 1 year parts and labor against manufacture defects.

Detailed warranty information is provided with the Doppler at time of purchase.

International System Configurations (220V for outside the US only)

Product	Catalog #
IMEXDOP CT+ with	
2 MHz obstetric probe	CT20I
3 MHz obstetric probe	CT30I
5 MHz vascular probe	CT50I
8 MHz vascular probe	CT80I
2 & 3 MHz obstetric probes	CT23I
2 MHz obstetric & 5 MHz vascular probes	CT25I
2 MHz obstetric & 8 MHz vascular probes	CT28I
3 MHz obstetric & 5 MHz Vascular probes	CT35I
3 MHz obstetric & 8 MHz Vascular probes	CT38I
5 & 8 MHz vascular probes	CT58I
2 MHz waterproof obstetric probe	CTWPI
No probe	ZLT001NP

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
UK 220V Standard Charger	698-634100
Battery	C631
Roll Stand with Basket	ST3
IV Pole/Roll Stand mount kit	V100
Coiled Cord	AC0175

Pocket-Dop™ II



Obstetric and Vascular Screening and Monitoring

Obstetric & 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. The 2 MHz waterproof obstetric probe is suited for underwater labor and delivery.

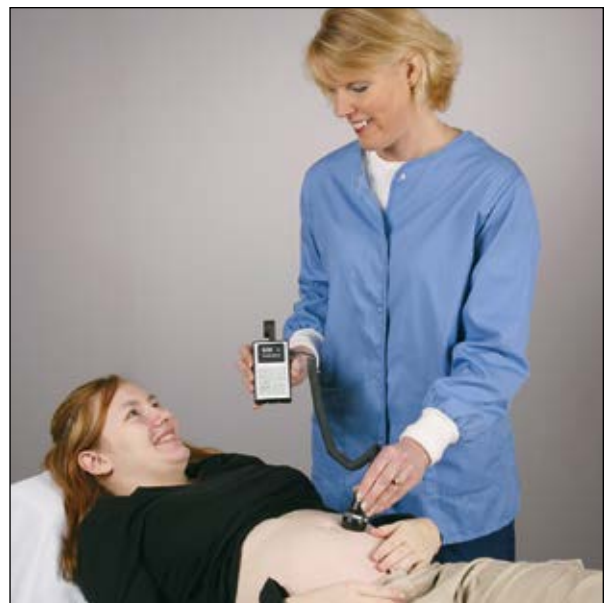
Vascular Applications

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 & Challenging Clinical Situations

The Pocket-Dop II can be used to accurately monitor pulses and systolic blood pressures, even in noisy environments; helps 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.



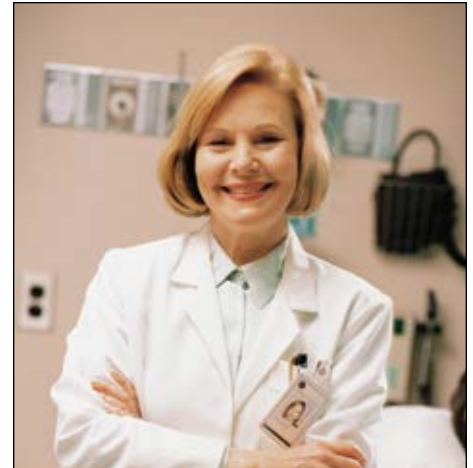
Pocket-Dop™ II

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



“Obstetric and Vascular Dopplers from Natus Neuro are the perfect addition to my clinical practice”

System Configurations

Product	Catalog #
Pocket-Dop II with	
2 MHz obstetric probe	P200
3 MHz obstetric probe.....	P300
5 MHz vascular probe	P500
8 MHz vascular probe	P800
Two 2 MHz obstetric probes	P220
2 & 3 MHz obstetric probes	P230
2 MHz obstetric & 5 MHz vascular probes	P250
2 MHz obstetric & 8 MHz vascular probes	P280
Two 3 MHz obstetric probes	P330
3 MHz obstetric & 5 MHz vascular probes	P350
3 MHz obstetric & 8 MHz vascular probes	P380
Two 5 MHz vascular probes	P550
5 & 8 MHz vascular probes	P580
Two 8 MHz vascular probes	P880
2 MHz waterproof obstetric probe	P2WP
2 MHz waterproof and 3 MHz obstetric probes	P2W3
2 & 3 MHz obstetric and 5 & 8 MHz vascular probes	P2358
No probe (with accessories)	PX00
No probe and no accessories	XPA002

Technical Specifications

Weight	0.285 kg (10 oz.)
Dimension	3.17 x 5.71 x 10.79 cm (1.25 x 2.25 x 4.25 in)
Power Source	2 replaceable AA NiMH batteries, 110V or 220V charger

Warranty against manufacture defects

Unit	10 years parts and 1 year labor against manufacture defects
Probes	1 year parts and labor against manufacture defects

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

International System Configurations (220V for outside the US only)

Product	Catalog #
Pocket-Dop II System with	
2 MHz obstetric probe	P200I
3 MHz obstetric probe	P300I
5 MHz vascular probe	P500I
8 MHz vascular probe	P800I
2 and 3 MHz obstetric probes	P230I
2 MHz obstetric and 5 MHz vascular probes	P250I
2 MHz obstetric and 8 MHz vascular probes	P280I
3 MHz obstetric and 5 MHz vascular probes	P350I
3 MHz obstetric and 8 MHz vascular probes	P380I
Two 8 MHz vascular probes	P880I
5 and 8 MHz vascular probes	P580I
2 MHz waterproof obstetric probe	P2WPI
No probe and no accessories	XPA002

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
Rollstands and Rollstand Accessories	
With the bracket	ST1
With bracket & storage basket	ST2
Storage basket for rollstand	BSKT
Locking bracket only	B100
Chargers	
110V	C610
220V	C619I
Battery	C620

Nicolet® ABI Kits

Diagnosis of Vascular Disease using the Doppler ABI Kits

A standard of care for older or diabetic patients

- The American Heart Association and the American Diabetes Association have recommended that all physician offices providing routine care to adult diabetic patients be able to measure the ankle and brachial blood pressures with a Doppler ultrasound instrument.¹
- The ABI has been shown to be a good predictor of cardiovascular mortality even in the subclinical/asymptomatic patients.^{2,3}

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 a stethoscope. The ABI is an accurate indicator of common circulatory problems in the extremities, often referred to as Peripheral Vascular Disease (PVD). Taking the Ankle/Brachial Index is often recommended for any patient with the following risk factors: 65+ years old; diabetic; high blood pressure; overweight; high cholesterol; inactive or bedridden; family history of heart attack or stroke. The Doppler is used to take the ABI because of its sensitivity. It detects blood flow even in patients with advanced PVD or calcified arteries.

This simple test typically takes less than ten minutes and is virtually painless for the patient. Take a systolic blood pressure on the right arm brachial artery using your Doppler, blood pressure cuff and a sphygmomanometer. Repeat on the left brachial artery. This same procedure is repeated at either the posterior tibial artery, or the dorsalis pedis on both legs. Once the data is obtained, divide the left and right ankle values by the highest brachial value. The numbers represent your ratios. The ratio of 0.96 or greater is generally considered normal.⁴

Please contact our inside sales department at 877-842-7970 if you would like a copy of the complete ABI calculation chart or CD presentation on how to perform an ABI.



Nicolet® ABI Kits

Versatile and Accurate Peripheral Vascular Evaluation

The ABI Kits

- Quick & Easy
- Affordable
- Includes everything you need for screening

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.⁵ 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

Nicolet 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 basically 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 Pocket-Dop II, a reliable, highly-sensitive Doppler
- Choice of either a 5 MHz or 8 MHz probe
- Four 10cm quick disconnect vascular cuffs
- Sphygmomanometer
- Training CD presentation and booklet
- Patient education pamphlets
- Report forms and vascular history questionnaire with ABI chart



Sphygmomanometer



2.5cm cuff



10cm cuff

Nicolet® ABI Kits

The ABI Exam

- The Ankle/Brachial Index (ABI) is a systolic blood pressure comparison between the arms and ankles.
- This procedure is similar to taking a standard blood pressure, but a Nicolet Doppler is used to listen to the blood flow instead of a stethoscope.
- You only need to determine the systolic pressures for this simple procedure.

Why Do an ABI Exam?

- It is a fast, effective tool for screening for right Peripheral Arterial Disease (PAD).
- It is non-invasive, easy, and affordable.
- Often, an ABI exam is recommended for patients with the following risk factors:
 - 65+ years old
 - diabetic
 - high blood pressure
 - overweight
 - inactive or bedridden
 - high cholesterol
 - family history of heart attack or stroke.

Peripheral Arterial Disease

(PAD) A walking time bomb:⁶

- 8-12 million people in the USA alone are living with PAD.⁷
- PAD sufferers have a five-fold risk of death from heart attack or stroke.⁷
- Diabetic patients are at an even higher risk.⁷

This is why the American Diabetes Association (ADA) December 2003 Consensus Statement recommends that anyone over the age of 50 with Diabetes be screened for PAD. Screening is also recommended for diabetic patients under 50 with other risk factors such as smoking, high blood pressure, high cholesterol or having diabetes for 10 years or more.⁴

ABI Results

Determine the severity of disease:

ABI Value*	Indication
> 1.4	Non-compressible
1.00 – 1.4	Normal
0.91 – 0.99	Borderline
≤ 0.90	Abnormal

*Always use the highest ABI value obtained.⁴

2016 AHA/ACC Guideline on the Management of Patients with Lower Extremity Peripheral Artery Disease, circ. 2017:135:e726-e779

Ankle/Brachial Index (ABI) Exams

Codes that may be applicable for use with VersaLab LE & SE*

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-10 Codes for Extremity Arterial Studies**

170.0	Atherosclerosis of aorta
170.219	Atherosclerosis of the extremities with intermittent claudication
170.229	Atherosclerosis of the extremities with rest pain
170.25	Atherosclerosis of the extremities with ulceration
170.269	Atherosclerosis of the extremities with gangrene
170.399, 170.499,	Atherosclerosis of bypass graft of extremities
170.599	
173.00-173.89	Other peripheral vascular diseases
443.9	Peripheral vascular disease, unspecified

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

**Please reference <https://www.aapc.com/icd-10/codes/for-specific-icd-code-information>

Nicolet® ABI Kits

Geriatric Medicine: Prime for Doppler Use

The veins and arteries of older patients are less pliable than those of younger patients. This makes a simple pulse hard to hear with a stethoscope and even more difficult to palpate. This is especially true with diabetic patients whose arteries tend to calcify and harden, becoming even less pliable as a result of the disease. Using a Nicolet Doppler helps make finding those difficult pulses much easier and faster.

Wound and bedsore care are major medical issues in extended-care facilities. Without adequate circulation, wounds and sores will not heal. Given the size of the arteries that need to be identified as patent (open), a Doppler can provide reassurance that blood flow is adequate for healing.

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

A Nicolet Doppler can help reduce some of the time, effort and cost involved with transferring and admitting a patient to the hospital for a simple vascular examination. With a Doppler, this exam can be done quickly and virtually pain free in any extended care facility. ABI studies using a Doppler are very important in the routine care of both the elderly and diabetic patients. Early detection of circulatory problems is essential for effective treatment.

References

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- 2 Newman, A.V., et al. "Ankle-arm Index as a Marker of Atherosclerosis in the Cardiovascular Health Study." *Circulation*, 88:837, 1993.
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- 4 Reference: Daigle, R. J. BA, RVT. "Techniques in Noninvasive Vascular Diagnosis." Summer Publishing, 2002
- 5 Crique, 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.381-385
- 6 Reference: Alan Hirsch, MD, "Peripheral Arterial Disease: Are You a Walking Time Bomb" February 2003
- 7 Consensus Statement: American Diabetes Association "Peripheral Arterial Disease in People with Diabetes" *DIABETES CARE*, Volume 26, Number 12, December 2003

Ankle/Brachial Index (ABI) Cuff Kit

Nicolet offers cuff kits for performing vascular competency testing. These kits contain a sphygmomanometer, the appropriate size cuffs and support materials to allow you to perform the Ankle/Brachial Index test.

ABI - ABI Cuff kit for hand-held Dopplers:

- Sphygmomanometer
- 10cm cuffs (4)
- Laminated ABI Chart
- ABI Training CD
- ABI Training Booklet
- Pad of ABI Report Forms (100 sheets)
- Get Your Pipes Checked Booklet (5)

ABI Kit Configurations

System with ABI Cuff Kit	Catalog #
Elite 100 with 5 MHz Probe and ABI Cuff Kit	EN5A
Elite 100 with 8 MHz Probe and ABI Cuff Kit	EN8A
Elite 100R with 8 MHz Probe and ABI Cuff Kit	EN8AR
Elite 200 with 8 MHz Probe and ABI Cuff Kit	ED8A
Pocket-Dop II with 5 MHz Probe and ABI Cuff Kit	PAD5
Pocket-Dop II with 8 MHz Probe and ABI Cuff Kit	PAD8
Optional Replacement Kit Items:	
10cm Quick Disconnect vascular cuff	XR0075
12cm Quick Disconnect vascular cuff	XR0076
Sphygmomanometer	XR0013
Report Forms (100 sheets)	ABI12
6.5cm cuff	XR0020
2.5cm toe cuff with coiled tubing and aneroid adapter	XR0089
1.9cm replacement cuff (no coiled tubing/adapter)	M20167
2.5cm replacement cuff (no coiled tubing/adapter)	M20101
Ankle/Brachial Index Cuff Kit	ABIK
ABI/Brachial/Toe cuff kit	ABIT0
Toe/Brachial cuff kit	TOEK

Nicolet® Obstetric Probes

2 MHz Obstetric Probes

The 2 MHz obstetric probe has a deep 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 well suited 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 0.7 x 1" (18 x 25 mm)
 Overall dimensions 2.8 x 1.8 x 0.9" (72 x 45 x 23 mm)
 2 MHz waterproof probe cord length 5' (152 cm)
 Weight 1.4 oz (40.4 g)

2 MHz Pocket-Dop II, IMEXDOP CT+, Pocket-Dop One probe Catalog # – T200
 2 MHz waterproof Pocket-Dop II, IMEXDOP CT+, Pocket-Dop One probe Catalog # – WP20
 Probe face diameter 1.5" (37 mm)
 Overall dimensions 2.6 x 1.6" (67 x 41 mm)
 2 MHz waterproof probe cord length 5' (152 cm)
 Weight 1.4 oz (39 g)

3 MHz Obstetric 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 0.7 x 1" (18 x 25 mm)
 Overall dimensions 2.8 x 1.8 x 0.9" (72 x 45 x 23 mm)
 Weight 1.4 oz (40.4 g)

3 MHz Pocket-Dop II, IMEXDOP CT+, Pocket-Dop One probe Catalog # – T300
 Probe face diameter 0.7" (19 mm)
 Overall dimensions 2.8 x 1.6" (72 x 41 mm)
 Weight 1.2 oz (34 g)

*The images shown in this brochure do not represent actual probe size.

Nicolet® Vascular Probes

5 MHz Vascular Probes

The 5 MHz vascular probe has a deeper penetration than the 8 MHz probe. 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 0.7 x 1" (18 x 25 mm)
 Overall dimensions 2.8 x 1.8 x 0.9" (72 x 45 x 23 mm)
 Weight 1.4 oz (40.4 g)



5 MHz Pocket-Dop II, IMEXDOP CT+, Pocket-Dop One probe Catalog # – T500
 Probe face diameter 0.5" (13 mm)
 Overall dimensions 3.8 x 1.6" (97 x 41 mm)
 Weight 1.4 oz (39 g)

8 MHz Vascular 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 and trauma patients.



8 MHz Elite, CareDop probe Catalog # – N800
 Probe face diameter 0.4" (10 mm)
 Overall dimensions 3.9 x 1.8 x 0.9" (99 x 45 x 23 mm)
 Weight 1.4 oz (40.4 g)



8 MHz Pocket-Dop II, IMEXDOP CT+, Pocket-Dop One probe Catalog # – T800
 Probe face diameter 0.3" (8 mm)
 Overall dimensions 3.8 x 1.6" (97 x 41 mm)
 Weight 1.4 oz (39 g)

*The images shown in this brochure do not represent actual probe size.

Cuff Kits

Complete Cuff Kits

Natus Neuro 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 Cuff 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
Sphygmomanometer	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



Personal Headset
Catalog # – A210



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



Soft-sided carrying case Catalog
– A420



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



Rollstand "anti-theft" bracket
Catalog # – B100



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

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

Storage basket for roll-stand
Catalog # – BSKT



Thermasonic® Gel Warmer
Gel Warmer, 110V
Catalog # – 222-515500
Gel Warmer, 220V
Catalog # – 222-515600

Accessories for Hand-Held Dopplers

IMEXDOP CT+ and FreeDop Accessories



Roll Stand/IV Pole Mount Bracket
Catalog # – V100



UK/Australian Adapter Kit
Catalog # – 698-634200



110V Charging Stand
Catalog # – C643



220V Charging Stand
Catalog # – C630I

IMEX Antepartum Monitor Accessories



Z-fold Chart Paper
Catalog # – D200

VersaLab APM/APM2 and VersaLab LE/SE Accessories



IV Pole Mount
Catalog # – V200



Thermal Printer Paper (5 rolls)
Catalog # – A355



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



Transducer belts
Catalog # – D300

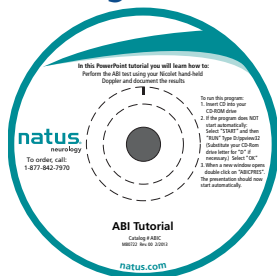


Patient event marker VersaLab APM/APM2
Catalog # – DV100



Tilt Stand
Catalog # – ST30

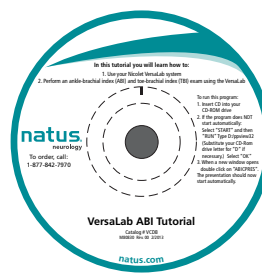
Training Software



ABI Training CD and Booklet
Catalog # – ABIC



Nicolet Doppler Sounds CD
Catalog # – M80889



Using VersaLab LE/SE & Performing ABI CD and Booklet
Catalog # – VCDB



VersaLab APM/APM2 Tutorial CD
Catalog # – M80899

Doppler Comparison Guide

Model	Pocket-Dop II	IMEXDopCT+	Elite 100 & 100R	Elite 200 & 200R
Features				
Hand-held/Counter Top	Hand- held	Counter top	Hand-held	Hand-held
OB/Vascular/ Both	BOTH	BOTH	BOTH	BOTH
Built-in Speaker	YES	YES - DUAL	YES	YES
Interchangeable Probes	YES	YES	YES	YES
Number of Probes	5	5	5	5
Probe Frequencies	2WP, 2, 3, 5, 8 MHz	2WP, 2, 3, 5, 8 MHz	2WP, 2, 3, 5, 8 MHz	2WP, 2, 3, 5, 8 MHz
Automatic Shut Off	NO	YES	YES	YES
LCD Display	NO	YES	NO	YES
Rechargeable	YES	YES	Elite 100-NO Elite 100R-YES	Elite 200-NO Elite 200R-YES
Headset	Included	Additional	Elite 100-NO Elite100R-Included	Included
Protective Carrying Case	YES	NO	Additional	YES
Made in USA	YES	YES	YES	YES
Belt Clip	YES	NO	YES	YES
Unit Warranty against manufacture defects	1 year labor, 10 years parts	1 year labor, 10 years parts	1 year labor, 10 years parts	1 yr labor, 10 yrs parts

Please refer to specific product pages for complete listing of product configurations and catalog numbers.

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)	698-634100 UK/Australia Charger
Pocket-Dop 3*	C622	C640	C640I	C641* (Charging Stand no longer manufactured)
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.

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ED2WRI	Elite 200R with 2 MHz Waterproof Obstetric Probe, 220V	2-4
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ED35RI	Elite 200R with 3 Obstetric & 5 MHz Vascular Probes, 220V	2-4
ED38RI	Elite 200R with 3 Obstetric & 8 MHz Vascular Probes, 220V	2-4
ED50RI	Elite 200R with 5 MHz Vascular Probe, 220V	2-4
ED58RI	Elite 200R with 5 & 8 MHz Vascular Probes, 220V	2-4
ED80RI	Elite 200R with 8 MHz Vascular Probe, 220V	2-4
ZPKNP40I	Elite 200R without Probe, 220V	2-4
XMD008	Elite 200R without Probe and Accessories, 220V	2-4
EN20RI	Elite 100R with 2 MHz Obstetric Probe, 220V	2-4
EN23RI	Elite 100R with 2 & 3 MHz Obstetric Probes, 220V	2-4
EN25RI	Elite 100R with 2 MHz Obstetric & 5 MHz Vascular Probes, 220V	2-4
EN28RI	Elite 100R with 2 MHz Obstetric & 8 MHz Vascular Probes, 220V	2-4
EN2WRI	Elite 100R with 2 MHz Waterproof Probe, 220V	2-4
EN30RI	Elite 100R with 3 MHz Obstetric Probe, 220V	2-4
EN35RI	Elite 100R with 3 MHz Obstetric & 5 MHz Vascular Probes, 220V	2-4
EN38RI	Elite 100R with 3 MHz Obstetric & 8 MHz Vascular Probes, 220V	2-4
EN50RI	Elite 100R with 5 MHz Vascular Probe, 220V	2-4
EN58RI	Elite 100R with 5 & 8 MHz Vascular Probes, 220V	2-4
EN5AR-I	Elite 100R with 5 MHz Vascular Probe & ABI Cuff Kit, 220V	2-4
EN80RI	Elite 100R with 8 MHz Vascular Probe, 220V	2-4
EN8ARI	Elite 100R with 8 MHz Vascular Probe & ABI Cuff Kit, 220V	2-4
ZPKNP20I	Elite 100R without Probe, 220V	2-4
XMD011	Elite 100R without Probe and Accessories, 220V	2-4
Chargers & Charging Stands		
C619	220V AC Battery Charger (Pocket-Dop II & OB)	9, 18
C630I	Replacement Charging Stand for ImexDop CT+ & Imex FreeDop, 220V	7, 18
C640I	Replacement Charger for Pocket-Dop 3, Elite 100R & Elite 200R, 220V	3, 18
C644	VersaLab Power Supply, 110 – 250V	18
C645I	VersaLab Power Cord, 220V	18
698-634100	220V UK/Australian Charger	6, 17, 18

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A photograph of two male doctors in white lab coats walking away from the camera down a bright, modern hospital hallway. The hallway has a polished floor that reflects the overhead lights and the doctors. The architecture features clean lines and large windows on the left side, letting in natural light. The overall color palette is a soft, teal-blue tint.

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