

JUL 14 2006

**510(k) Summary****1.0 SUBMITTER INFORMATION**

1.1 Submitter: SHIMADZU MEDICAL SYSTEMS  
20101 South Vermont Ave.  
Torrance, CA 90502-1328  
PH: 310-217-8855  
FX: 310-217-8869

1.2 Contact: Randal Walker

1.3 Date: March 31, 2006

**2.0 DEVICE NAME**

2.1 Proprietary Name: sarano

2.2 Common Name: Ultrasound Imaging System

2.3 Classification: Ultrasonic Pulsed Echo Imaging System  
FR # 892.1560, Product Code 90-IYO  
Diagnostic Ultrasound Transducer  
FR # 892.1570, Product Code 90-ITX

2.4 Predicate Device: Shimadzu Corporation SDU-1100 (K050510, 4/1/05)

**3.0 DEVICE DESCRIPTION**

The sarano is a mobile diagnostic ultrasound system. This system has flat linear array, convex linear and with a frequency range of approximately 2 to 15 MHz. It has B mode, M mode, or in a combination of modes.

**4.0 INTENDED USE**

The sarano is intended for the following applications:  
Fetal, Abdominal, Pediatric, Small Organs (Specify), Neonatal Cephalic, Adult Cephalic, Cardiac, Transrectal, Transvaginal, Peripheral Vascular, Musculo-skeletal Superficial and Musculo-skeletal Conventional.

## **5.0 SAFETY CONSIDERATIONS**

The sarano has been designed to meet the following voluntary and measurement standards:

- IEC 60601-1 Safety of Medical Electric Equipment
- AIUM NEMA UD2 Acoustic Output Measurement Standard for Diagnostic Ultrasound Equipment
- Acoustic Output Measurement and Labeling Standard for Diagnostic Ultrasound Equipment Revision 1 (AIUM 1998)
- AIUM NEMA UD3 Standard for Real-time Display of Thermal and Mechanical Acoustic Output Indices on Diagnostic Ultrasound Equipment



Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

JUL 14 2006

Mr. Randal Walker  
National Service Manager  
Shimadzu Medical Systems  
20101 South Vermont Avenue  
TORRANCE CA 90502-1328

Re: K061641

Trade Name: EchoView/Shimasonic Diagnostic Ultrasound System - sarano  
Regulation Number: 21 CFR §892.1560  
Regulation Name: Ultrasonic pulsed echo imaging system  
Regulation Number: 21 CFR §892.1570  
Regulation Name: Diagnostic ultrasonic transducer  
Regulatory Class: II  
Product Code: IYO and ITX  
Dated: May 12, 2006  
Received: June 13, 2006

Dear Mr. Walker:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

This determination of substantial equivalence applies to the following transducers intended for use with the sarano Diagnostic Ultrasound System, as described in your premarket notification:

Transducer Model Number

L040-120HU  
L040-100U  
L070-075U  
VA11R-055U  
VA13R-035U

VA40R-035U  
VA57R-0375WU  
TV11R-055U  
EC11R-055U  
UB10R-065U

L072-050U  
VA20R-035U  
VA57R-0375U

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This determination of substantial equivalence is granted on the condition that prior to shipping the first device, you submit a postclearance special report. This report should contain complete information, including acoustic output measurements based on production line devices, requested in Appendix G, (enclosed) of the Center's September 30, 1997 "Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers." If the special report is incomplete or contains unacceptable values (e.g., acoustic output greater than approved levels), then the 510(k) clearance may not apply to the production units which as a result may be considered adulterated or misbranded.

The special report should reference the manufacturer's 510(k) number. It should be clearly and prominently marked "ADD-TO-FILE" and should be submitted in duplicate to:

Food and Drug Administration  
Center for Devices and Radiological Health  
Document Mail Center (HFZ-401)  
9200 Corporate Boulevard  
Rockville, Maryland 20850

This letter will allow you to begin marketing your device as described in your premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus permits your device to proceed to market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>

If you have any questions regarding the content of this letter, please contact Andrew Kang, M.D. at (301) 594-1212.

Sincerely yours,



*for*

Nancy C. Brogdon  
Director, Division of Reproductive,  
Abdominal and Radiological Devices  
Office of Device Evaluation  
Center for Devices and Radiological Health

Enclosure(s)

Prescription Use (Per 21 CFR 801.109)

Ultrasound Device Indications Statement Page 1 of 13

510(k) Number (if known) : K061641

Device Name : Diagnostic Ultrasound System sarano. system

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal		N	N						N	N	
Abdominal		N	N						N	N	
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *		N	N						N	N	
Neonatal Cephalic											
Adult Cephalic											
Cardiac		N	N						N	N	
Transesophageal											
Transrectal		N	N						N	N	
Transvaginal		N	N						N	N	
Transurethral											
Intravascular											
Peripheral Vascular		N	N						N	N	
Laparoscopic											
Musculo-skeletal Conventional		N	N						N	N	
Musculo-skeletal Superficial		N	N						N	N	
Other (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\* Thyroid, Testicles, Breast

\*\* B/M

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. Ferguson*

Director, Office of Device Evaluation, Abdominal, Pelvic and Urological Devices

K061641

Prescription Use ✓

Prescription Use (Per 21 CFR 801.109)

Ultrasound Device Indications Statement Page 2 of 14

510(k) Number (if known) : K061641

Device Name : Diagnostic Ultrasound System sarano. L040-120HU

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal											
Abdominal											
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *		N	N						N	N	
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Transesophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral Vascular		N	N						N	N	
Laparoscopic											
Musculo-skeletal Conventional		N	N						N	N	
Musculo-skeletal Superficial		N	N						N	N	
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\* Thyroid, Testicles, Breast

\*\* B/M

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. Ligon*

Regional,

K061641

Prescription Use

Prescription Use (Per 21 CFR 801.109)

Ultrasound Device Indications Statement Page 3 of 14

510(k) Number (if known) : K061641

Device Name : Diagnostic Ultrasound System sarano, L040-100U

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal											
Abdominal											
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *		N	N						N	N	
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Transesophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral Vascular		N	N						N	N	
Laparoscopic											
Musculo-skeletal Conventional		N	N						N	N	
Musculo-skeletal Superficial		N	N						N	N	
Other (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\* Thyroid, Testicles, Breast

\*\* B/M

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. Loggins*

Indication: Abdominal,

Device: K061641

Prescription Use ✓

Prescription Use (Per 21 CFR 801.109)

Ultrasound Device Indications Statement Page 4 of 14

510(k) Number (if known) : K061641

Device Name : Diagnostic Ultrasound System sarano. L070-075U

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal											
Abdominal											
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *		N	N						N	N	
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Transesophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral Vascular		N	N						N	N	
Laparoscopic											
Musculo-skeletal Conventional		N	N						N	N	
Musculo-skeletal Superficial		N	N						N	N	
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\* Thyroid, Testicles, Breast

\*\* B/M

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. Sarano*

Director, Office of Device Evaluation, Abdominal, Devices

K061641

Prescription Use

510(k) Number (if known) : K061641

Device Name : Diagnostic Ultrasound System sarano, VA11R-055U

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal		N	N						N	N	
Abdominal		N	N						N	N	
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *											
Neonatal Cephalic											
Adult Cephalic											
Cardiac		N	N						N	N	
Transesophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral Vascular											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\*\* B/M

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)  
Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. Leppmann*  
 (Device Sign-Off)  
 Director of Reproductive, Abdominal,  
 and Neurological Devices  
 510(k) Number K061641

Prescription Use (Per 21 CFR 801.109)

Ultrasound Device Indications Statement Page 6 of 14

510(k) Number (if known) : K061641

Device Name : Diagnostic Ultrasound System sarano, VA13R-035U

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal		N	N						N	N	
Abdominal		N	N						N	N	
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *											
Neonatal Cephalic											
Adult Cephalic											
Cardiac		N	N						N	N	
Transesophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral Vascular											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\*\* B/M

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Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. Degross*

(Operator Sign-Off)

Indications of Reproductive, Abdominal,  
Neurological Devices

510(k) Number

K061641

Prescription Use



Prescription Use (Per 21 CFR 801.109)

Ultrasound Device Indications Statement Page 7 of 14

510(k) Number (if known): K061641

Device Name: Diagnostic Ultrasound System sarano. VA40R-035U

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal		N	N						N	N	
Abdominal		N	N						N	N	
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *											
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Transesophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral Vascular											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\*\* B/M

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Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. Ferguson*

Indications: Abdominal,

Transvaginal

K061641



510(k) Number (if known): K061641

Device Name: Diagnostic Ultrasound System sarano. VA57R-0375WU

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal		N	N						N	N	
Abdominal		N	N						N	N	
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *											
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Transesophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral Vascular											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\*\* B/M

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Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. Seymour*

(Division Sign Off)

Director of Reproductive, Abdominal,  
and Urological Devices

Device Number

K061641



Prescription Use (Per 21 CFR 801.109)

Ultrasound Device Indications Statement Page 9 of 14

510(k) Number (if known) : K 061641

Device Name : Diagnostic Ultrasound System sarano. TV11R-055U

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal		N	N						N	N	
Abdominal											
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *											
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Transesophageal											
Transrectal		N	N						N	N	
Transvaginal		N	N						N	N	
Transurethral											
Intravascular											
Peripheral Vascular											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\*\* B/M

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Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. Segman*

Indications: Abdominal,

Device ID: K061641



Prescription Use (Per 21 CFR 801.109)

Ultrasound Device Indications Statement Page 10 of 14

510(k) Number (if known): K061641

Device Name: Diagnostic Ultrasound System sarano. EC11R-055U

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal		N	N						N	N	
Abdominal											
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *											
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Transesophageal											
Transrectal		N	N						N	N	
Transvaginal		N	N						N	N	
Transurethral											
Intravascular											
Peripheral Vascular											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\*\* B/M

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Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. Berger*

(Signature)

Director, Office of Device Evaluation, Abdominal,

Reproductive and General Devices

K061641



Prescription Use (Per 21 CFR 801.109)

Ultrasound Device Indications Statement Page 11 of 14

510(k) Number (if known) : K061641

Device Name : Diagnostic Ultrasound System sarano, UB10R-065U

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal											
Abdominal											
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *											
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Transesophageal											
Transrectal		N	N						N	N	
Transvaginal											
Transurethral											
Intravascular											
Peripheral Vascular											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\*\* B/M

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Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. DeGeron*

(Diagnostic Support)

Division of Radiologic, Abdominal,  
and Urogenital Devices

510(k) Number

K061641



Prescription Use (Per 21 CFR 801.109)

Ultrasound Device Indications Statement Page 12 of 14

510(k) Number (if known): K061641

Device Name: Diagnostic Ultrasound System sarano, L072-050U

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal											
Abdominal											
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *		N	N						N	N	
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Transesophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral Vascular		N	N						N	N	
Laparoscopic											
Musculo-skeletal Conventional		N	N						N	N	
Musculo-skeletal Superficial											
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

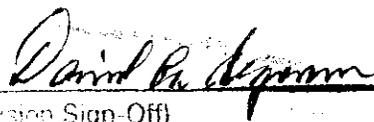
Other Indications or Modes:

\* Thyroid, Testicles, Breast

\*\* B/M

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Concurrence of CDRH, Office of Device Evaluation (ODE)



(Division Sign-Off)

Division of Reproductive, Abdominal,  
and Radiological Devices

510(k) Number

K061641

510(k) Number (if known) : K061641

Device Name : Diagnostic Ultrasound System sarano, VA20R-035U

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal		N	N						N	N	
Abdominal		N	N						N	N	
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *											
Neonatal Cephalic											
Adult Cephalic											
Cardiac		N	N						N	N	
Transesophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral Vascular											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\*\* B/M

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Concurrence of CDRH, Office of Device Evaluation (ODE)

*David A. Seymour*

Abdominal,  
K061641

✓

510(k) Number (if known) : K061641

Device Name : Diagnostic Ultrasound System sarano. VA57R-0375U

Fill out one form for each ultrasound system or transducer.

Indications for use: Diagnostic ultrasound imaging or Doppler analysis of the human body as follows:

Mode of Operation

Clinical Application	A	B	M	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)**	Tissue Harmonic Imaging	Other (Specify)
Ophthalmic											
Fetal		N	N						N	N	
Abdominal		N	N						N	N	
Intra-operative (Specify)											
Intra-operative Neurological											
Pediatric											
Small Organ (Specify) *											
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Transesophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral Vascular											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Others (Specify)											

N= new indication; P= previously cleared by FDA; E= added under Appendix E

Other Indications or Modes:

\*\* B/M

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

*David L. Legram*  
 (Division Sign-Off)

Division of Reproductive, Abdominal,  
 and Urological Devices

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