

3.2 Summary of Safety and Effectiveness

This summary of 510(k) safety and effectiveness information is submitted in accordance with the requirements of the Safe Medical Devices Act of 1990 as implemented in 21 C.F.R. §807.92.

The submitter of this premarket notification is:

William Picatti
Manager, Regulatory Affairs
Philips Ultrasound, Inc.
22100 Bothell Everett Highway
Bothell, WA 98021-8431
Tel: (425) 487-7151
Fax: (425) 487-8666

This summary was prepared on May 12, 2009.

The proprietary name of the device is the HD15 Diagnostic Ultrasound System. In combination with transducers – 3D9-3v, BP10-5ec, C5-2, C6-3, C8-4v, C8-5, D2cwc, L12-3, L12-5, L15-7io, S5-2, S8-3, S7-2omni and V6-2 – are commonly known as a diagnostic ultrasound system and transducers.

These devices are classified as follows:

90IYN	Ultrasonic Pulsed Doppler Imaging System
90IYO	Ultrasonic Pulsed Echo Imaging System
90ITX	Diagnostic Ultrasound Transducer

As stated in 21 CFR, parts 892.1550, 892.1560 and 892.1570, each of these generic types of devices have been classified as Class II.

The HD15 is a diagnostic ultrasound device. It consists of a system console containing the power supply and electronic circuitry required to generate the image, a display screen, and a connection to the separate transducers. It is substantially equivalent to the currently marketed HD11 Diagnostic Ultrasound System (K043535 and K062247).

The HD15 system and transducers function in a manner identical to all Philips ultrasound systems and transducers. The system circuitry generates an electronic voltage pulse, which is transmitted to the transducer. In the transducer, a piezo-electric array converts the electronic pulse into an ultrasonic pressure wave. When coupled to the body, the pressure wave transmits through body tissues. The differing acoustic properties of the tissues in the body reflect some of the transmitted energy back to the transducer, where it is converted back to electrical signals and sent back to the system. In the system, advanced signal processing technologies convert the returned signals into images of the tissues. The Doppler functions of this system process the Doppler shift frequencies from the echoes of moving targets (such as blood), to detect and graphically display the Doppler shifts of these tissues as flow.

The HD15 is intended for diagnostic ultrasound imaging and fluid flow analysis.

The HD15 is substantially equivalent in safety and effectiveness to the predicates identified above:

- Both the predicate device and the HD15 are indicated for the diagnostic ultrasonic imaging and fluid flow analysis.
- Both the predicate device and the HD15 have the same gray-scale and Doppler capabilities.
- Both the predicate device and the HD15 use essentially the same technologies for imaging, Doppler functions and signal processing.
- Both the predicate device and the HD15 have acoustic output levels below the Track 3 FDA limits.
- Both the predicate device and the HD15 are manufactured under equivalent quality systems.
- Both the predicate device and the HD15 are manufactured of materials with equivalent biosafety. The materials have been evaluated and found to be safe for this application.
- Both the predicate device and HD15 are designed and manufactured to the same electrical and physical safety standards.



Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

JUN 24 2008

Philips Ultrasound, Inc.
% Mr. Mark Job
Responsible Third Party Official
Regulatory Technology Services LLC
1394 25th Street NW
BUFFALO MN 55313

Re: K081661
Trade/Device Name: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System
Regulation Number: 21 CFR 892.1550
Regulation Name: Ultrasonic pulsed doppler imaging system
Regulatory Class: II
Product Code: IYN, IYO, and ITX
Dated: June 12, 2008
Received: June 13, 2008

Dear Mr. Job:

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 Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System, as described in your premarket notification:

Transducer Model Number

3D9-3v 4D Endovaginal
BP10-5ec Endocavity
C5-2 Curved Linear Array
C6-3 Curved Linear
(C8-4v) Endovaginal
C8-5 Curved Linear

D2cwc Non-image Pencil
L12-3 Linear Array
L12-5 50mm Linear Array
L15-7io Linear Array
S5-2 Sector Phased Array
S7-2 omni TEE Phased Array
S8-3 Sector Phased Array
V6-2 Mechanical 3D

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 Lauren Hefner at (240) 276-3666.

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)

4.3.2 Indications for Use Tables

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661
 Device name: **Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System**
 Intended Use: **Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:**

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic	N		N	N	N	N	N
Fetal Imaging & Other	Fetal	N	N	N	N	N	N	N
	Abdominal	N	N	N	N	N	N	N
	Intra-operative (vascular/epicardial)	N	N	N	N	N	N	N
	Intra-operative (Neuro)	N	N	N		N	N	N
	Laparoscopic							
	Pediatric	N	N	N	N	N	N	N
	Small Organ (thyroid, scrotum, breast)	N	N	N		N	N	N
	Neonatal Cephalic	N	N	N	N	N	N	N
	Adult Cephalic	N	N	N	N	N	N	N
	Trans-rectal	N	N	N		N	N	N
	Trans-vaginal	N	N	N		N	N	N
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)	N	N	N		N	N	N
	Musculo-skel (superficial)	N	N	N		N	N	N
Intra-luminal								
Other (Gynecological)	N	N	N	N	N	N	N	
Cardiac	Cardiac Adult	N	N	N	N	N	N	N
	Cardiac Pediatric	N	N	N	N	N	N	N
	Trans-esoph. (Cardiac)	N	N	N	N	N	N	N
	Other (specify)							
Peripheral Vessel	Peripheral vessel	N	N	N	N	N	N	N
	Other (Carotid, I/O)	N	N	N		N	N	N

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

*Other modes: Panoramic, Color Power Angio (CPA, formerly Angio), 3D/4D, Harmonics (Tissue and Contrast), Directional Angio Imaging, Tissue Doppler Imaging.

Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
 Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)
 Division of Reproductive, Abdominal, and Radiological Devices
 510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661

System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System

Transducer: 3D9-3v 4D Endovaginal transducer

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation							
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)	
Ophthalmic	Ophthalmic								
Fetal Imaging & Other	Fetal	P	P	P		P	P	P	
	Abdominal								
	Intra-operative (Specify)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric								
	Small Organ (Prostate)								
	Neonatal Cephalic								
	Adult Cephalic								
	Trans-rectal								
	Trans-vaginal		P	P	P		P	P	P
	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skel (conventional)								
Musculo-skel (superficial)									
Intra-luminal									
Other (Gynecological)									
Cardiac	Cardiac Adult								
	Cardiac Pediatric								
	Trans-esoph. (Cardiac)								
	Other (specify)								
Peripheral Vessel	Peripheral vessel								
	Other (Specify)								

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

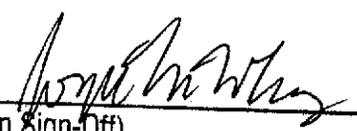
*Other modes: Color Power Angio, Panoramic, 3D/4D Imaging, Directional Angio Imaging

Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color

Previous submission: First use on this ultrasound system (See 4.4.1.4)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

✓Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices

510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661
 System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System
 Transducer: BP10-5ec Endocavity transducer
 Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal	P	P	P		P	P	P
	Abdominal							
	Intra-operative (vascular/epicardial)							
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric							
	Small Organ (scrotum)	P	P	P		P	P	P
	Neonatal Cephalic							
	Adult Cephalic							
	Trans-rectal	P	P	P		P	P	P
	Trans-vaginal	P	P	P		P	P	P
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)							
Musculo-skel (superficial)								
Intra-luminal								
Other (Gynecological)								
Cardiac	Cardiac Adult							
	Cardiac Pediatric							
	Trans-esoph. (Cardiac)							
	Other (Specify)							
Peripheral Vessel	Peripheral vessel							
	Other (Carotid, I/O)							

N= new indication; P= previously cleared by FDA; E= added under Appendix E
 *Other modes: Color Power Angio, Panoramic, Harmonics (Tissue & Contrast), 3D/4D Imaging, Directional Angio Imaging, Tissue Doppler Imaging
 Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color
 Previous submission: First use on this ultrasound system (See 4.4.1.4)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
 Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

✓ Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)
 Division of Reproductive, Abdominal, and Radiological Devices
 510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

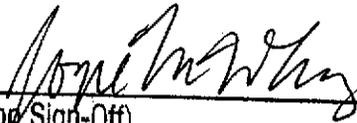
510(k) Number: K081661
 System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System
 Transducer: C5-2 Curved linear array transducer
 Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal	P	P	P		P	P	P
	Abdominal	P	P	P		P	P	P
	Intra-operative (vascular/epicardial)							
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric	P	P	P		P	P	P
	Small Organ (thyroid, scrotum, breast)	P	P	P		P	P	P
	Neonatal Cephalic							
	Adult Cephalic							
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)							
	Musculo-skel (superficial)							
Intra-luminal								
Other (Gynecological)		P	P	P		P	P	P
Cardiac	Cardiac Adult							
	Cardiac Pediatric							
	Trans-esoph. (Cardiac)							
	Other (Specify)							
Peripheral Vessel	Peripheral vessel	P	P	P		P	P	P
	Other (Carotid, I/O)							

N= new indication; P= previously cleared by FDA; E= added under Appendix E
 *Other modes: Color Power Angio, Panoramic, Harmonics (Tissue & Contrast), 3D/4D Imaging, Directional Angio Imaging.
 Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color
 Previous submission: First use on this ultrasound system (See 4.4.1.4)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
 Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

✓ Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)
 Division of Reproductive, Abdominal, and Radiological Devices
 510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661

System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System

Transducer: C6-3 Curved linear Transducer

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal	P	P	P		P	P	P
	Abdominal	P	P	P		P	P	P
	Intra-operative (vascular/epicardial)							
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric	P	P	P		P	P	P
	Small Organ (thyroid, scrotum, breast)	P	P	P		P	P	P
	Neonatal Cephalic							
	Adult Cephalic							
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)							
Musculo-skel (superficial)								
Intra-luminal								
Other (Gynecological)		P	P	P		P	P	P
Cardiac	Cardiac Adult							
	Cardiac Pediatric							
	Trans-esoph. (Cardiac)							
	Other (Specify)							
Peripheral Vessel	Peripheral vessel	P	P	P		P	P	P
	Other (Carotid, I/O)							

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

*Other modes: Color Power Angio, Panoramic, Harmonics (Tissue & Contrast), 3D/4D Imaging, Directional Angio Imaging,

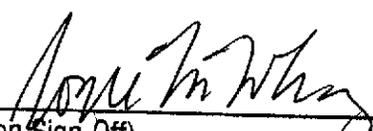
Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color, Dual

Previous submission: First use on this ultrasound system (See 4.4.1.4)

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

Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

✓ Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices

510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661

System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System

Transducer: (C8-4v) Endovaginal transducer

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation							
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)	
Ophthalmic	Ophthalmic								
Fetal Imaging & Other	Fetal	P	P	P		P	P	P	
	Abdominal								
	Intra-operative (vascular/epicardial)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric								
	Small Organ (thyroid, scrotum, breast)								
	Neonatal Cephalic								
	Adult Cephalic								
	Trans-rectal								
	Trans-vaginal		P	P	P		P	P	P
	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skel (conventional)								
Musculo-skel (superficial)									
Intra-luminal									
Other (Gynecological)									
Cardiac	Cardiac Adult								
	Cardiac Pediatric								
	Trans-esoph. (Cardiac)								
	Other (Specify)								
Peripheral Vessel	Peripheral vessel								
	Other (Carotid, I/O)								

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

*Other modes: Color Power Angio, Panoramic, 3D/4D Imaging, Directional Angio Imaging

Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color

Previous submission: First use on this ultrasound system (See 4.4.1.4)

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

Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices

510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661

System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System

Transducer: C8-5 Curved linear Transducer

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal	P	P	P		P	P	P
	Abdominal	P	P	P		P	P	P
	Intra-operative (vascular/epicardial)							
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric	P	P	P		P	P	P
	Small Organ (thyroid, scrotum, breast)							
	Neonatal Cephalic	P	P	P		P	P	P
	Adult Cephalic							
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)							
	Musculo-skel (superficial)							
Intra-luminal								
Other (Gynecological)		P	P	P		P	P	P
Cardiac	Cardiac Adult							
	Cardiac Pediatric							
	Trans-esoph. (Cardiac)							
	Other (specify)							
Peripheral Vessel	Peripheral vessel	P	P	P		P	P	P
	Other (Carotid, I/O)							

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

*Other modes: Color Power Angio, Panoramic, 3D/4D Imaging, Harmonics (Tissue), Directional Angio Imaging, Tissue Doppler Imaging,

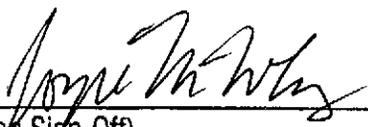
Combined modes: Duplex = 2D + Doppler, Triplex = 2D + Doppler + Color, Dual

Previous submission: First use on this ultrasound system (See 4.4.1.4)

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

Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices

510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661

System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System

Transducer: D2cwc Non-Imaging Pencil

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal							
	Abdominal							
	Intra-operative (vascular/epicardial)							
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric							
	Small Organ (thyroid, scrotum, breast)							
	Neonatal Cephalic							
	Adult Cephalic							
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)							
Musculo-skel (superficial)								
Intra-luminal								
Other (Gynecological)								
Cardiac	Cardiac Adult					P		
	Cardiac Pediatric					P		
	Trans-esoph. (Cardiac)							
	Other (Specify)							
Peripheral Vessel	Peripheral vessel							
	Other (Carotid, I/O)							

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

*Other modes include: None

Combined modes: None.

Previous submission: First use on this ultrasound system (See 4.4.1.4)

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

Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)
 Division of Reproductive, Abdominal, and
 Radiological Devices
 510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661

System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System

Transducer: L12-3 Linear array transducer

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal							
	Abdominal	P	P	P		P	P	P
	Intra-operative (vascular/epicardial)							
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric	P	P	P		P	P	P
	Small Organ (thyroid, scrotum, breast)	P	P	P		P	P	P
	Neonatal Cephalic							
	Adult Cephalic							
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)	P	P	P		P	P	P
Musculo-skel (superficial)	P	P	P		P	P	P	
Intra-luminal								
Other (Gynecological)								
Cardiac	Cardiac Adult							
	Cardiac Pediatric							
	Trans-esoph. (Cardiac)							
	Other (Specify)							
Peripheral Vessel	Peripheral vessel	P	P	P		P	P	P
	Other (Carotid, I/O)	P	P	P		P	P	P

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

*Other modes: Color Power Angio, Panoramic, Harmonics (Tissue & Contrast), 3-D Imaging, Directional Angio Imaging

Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color

Previous submission: First use on this ultrasound system (See 4.4.1.4)

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

Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices

510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661

System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System

Transducer: L12-5 50mm Linear array transducer

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal							
	Abdominal	P	P	P		P	P	P
	Intra-operative (vascular/epicardial)							
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric	P	P	P		P	P	P
	Small Organ (thyroid, scrotum, breast)	P	P	P		P	P	P
	Neonatal Cephalic							
	Adult Cephalic							
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)	P	P	P		P	P	P
Musculo-skel (superficial)	P	P	P		P	P	P	
Intra-luminal								
Other (Gynecological)								
Cardiac	Cardiac Adult							
	Cardiac Pediatric							
	Trans-esoph. (Cardiac)							
	Other (Specify)							
Peripheral Vessel	Peripheral vessel	P	P	P		P	P	P
	Other (Carotid, I/O)							

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

*Other modes: Color Power Angio, Panoramic, Harmonics (Tissue & Contrast), 3-D Imaging, Directional Angio Imaging, Tissue Doppler Imaging

Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color

Previous submission: First use on this ultrasound system (See 4.4.1.4)

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

Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)
 Division of Reproductive, Abdominal, and
 Radiological Devices
 510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661

System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System

Transducer: L15-7io Linear array transducer

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal							
	Abdominal							
	Intra-operative (vascular/epicardial)	P	P	P		P	P	P
	Intra-operative (Neuro)	P	P	P		P	P	P
	Laparoscopic							
	Pediatric	P	P	P		P		P
	Small Organ (thyroid, scrotum, breast)	P	P	P		P	P	P
	Neonatal Cephalic							
	Adult Cephalic							
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)	P	P	P		P	P	P
	Musculo-skel (superficial)	P	P	P		P	P	P
Intra-luminal								
Other (Gynecological)								
Cardiac	Cardiac Adult							
	Cardiac Pediatric							
	Trans-esoph. (Cardiac)							
	Other (Specify)							
Peripheral Vessel	Peripheral vessel	P	P	P		P	P	P
	Other (Carotid, I/O)	P	P	P		P	P	P

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

*Other modes: Amplitude Doppler, Panoramic, Directional Angio Imaging

Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color

Previous submission: First use on this ultrasound system (See 4.4.1.4)

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

Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)
 Division of Reproductive, Abdominal, and
 Radiological Devices
 510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661

System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System

Transducer: S5-2 Sector phased array transducer

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic	P		P	P	P	P	P
Fetal Imaging & Other	Fetal	P	P	P	P	P	P	P
	Abdominal	P	P	P	P	P	P	P
	Intra-operative (vascular/epicardial)	P	P	P	P	P	P	P
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric	P	P	P	P	P	P	P
	Small Organ (thyroid, scrotum, breast)							
	Neonatal Cephalic							
	Adult Cephalic	P	P	P	P	P	P	P
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)							
Musculo-skel (superficial)								
Intra-luminal								
Other (Gynecological)	P	P	P	P	P	P	P	
Cardiac	Cardiac Adult	P	P	P	P	P	P	P
	Cardiac Pediatric	P	P	P	P	P	P	P
	Trans-esoph. (Cardiac)							
	Other (Specify)							
Peripheral Vessel	Peripheral vessel	P	P	P	P	P	P	P
	Other (Carotid, I/O)							

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

*Other modes: Color Power Angio, Panoramic, Harmonics (Tissue & Contrast), 3D/4D Imaging, Directional Angio Imaging, Tissue Doppler Imaging

Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color

Previous submission: First use on this ultrasound system (See 4.4.1.4)

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

Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)



 (Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices

510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661

System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System

Transducer: S7-2 omni TEE phased array transducer

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal							
	Abdominal							
	Intra-operative (vascular/epicardial)							
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric							
	Small Organ (thyroid, scrotum, breast)							
	Neonatal Cephalic							
	Adult Cephalic							
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)							
	Musculo-skel (superficial)							
Intra-luminal								
Other (Gynecological)								
Cardiac	Cardiac Adult	P	P	P	P	P	P	P
	Cardiac Pediatric	P	P	P	P	P	P	P
	Trans-esoph. (Cardiac)	P	P	P	P	P	P	P
	Other (Specify)							
Peripheral Vessel	Peripheral vessel							
	Other (Carotid, I/O)							

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

*Other modes: Color Power Angio, Tissue Doppler Imaging, Directional Angio Imaging,

Combined modes: Duplex = 2D + Doppler

Previous submission: First use on this ultrasound system (See 4.4.1.4)

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

Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices

510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K081661

System: Philips Ultrasound, Inc. HD15 Diagnostic Ultrasound System

Transducer: **S8-3 Sector phased array transducer**

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal	P	P	P		P	P	P
	Abdominal	P	P	P	P	P	P	P
	Intra-operative (vascular/epicardial)							
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric	P	P	P	P	P	P	P
	Small Organ (thyroid, scrotum, breast)							
	Neonatal Cephalic	P	P	P	P	P	P	P
	Adult Cephalic							
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)							
Musculo-skel (superficial)								
Intra-luminal								
Other (Gynecological)		P	P	P	P	P	P	P
Cardiac	Cardiac Adult	P	P	P	P	P	P	P
	Cardiac Pediatric	P	P	P	P	P	P	P
	Trans-esoph. (Cardiac)							
	Other (Specify)							
Peripheral Vessel	Peripheral vessel	P	P	P	P	P	P	P
	Other (Carotid, I/O)							

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

*Other modes: Color Power Angio, Panoramic, 3-D Imaging, Directional Angio Imaging, Tissue Doppler Imaging

Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color

Previous submission: First use on this ultrasound system (See 4.4.1.4)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
 Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)
 Division of Reproductive, Abdominal, and
 Radiological Devices
 510(k) Number K081661

DIAGNOSTIC ULTRASOUND INDICATIONS FOR USE FORM

510(k) Number: K

K081661

System: Philips Ultrasound, Inc. Pathfinder Diagnostic Ultrasound System

Transducer: **V6-2 Mechanical 3D Transducer**

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

Clinical Application		Mode of Operation						
General (Track I Only)	Specific (Tracks I & III)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Other* (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal	P	P	P		P	P	P
	Abdominal	P	P	P		P	P	P
	Intra-operative (Specify)							
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric	P	P	P		P	P	P
	Small Organ (Scrotum, Thyroid, Breast)							
	Neonatal Cephalic							
	Adult Cephalic							
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skel (conventional)							
Musculo-skel (superficial)								
Intra-luminal								
Other (Gynecological)		P	P	P		P	P	P
Cardiac	Cardiac Adult							
	Cardiac Pediatric							
	Trans-esoph. (Cardiac)							
	Other (specify)							
Peripheral Vessel	Peripheral vessel							
	Other (Carotid)							

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

*Other modes: Color Power Angio, Panoramic, Harmonics (Tissue), 3D/4D Imaging, Directional Angio Imaging

Combined modes: Duplex = 2D + Doppler; Triplex = 2D + Doppler + Color,

Previous submission: First use on this ultrasound system (See 4.4.1.4)

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

Concurrence of Center for Devices and Radiological Health, Office of Device Evaluation

✓ Prescription Use (Per 21 CFR 801.109)


 (Division Sign-Off)
 Division of Reproductive, Abdominal, and
 Radiological Devices
 510(k) Number K081661