

Medical Diagnostic & Therapeutic Ultrasound Devices Market (2012 - 2017) - Global Trends & Competitive Analysis

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Abstracts

Medical Diagnostic & Therapeutic Ultrasound Devices Market (2012 - 2017) - Global Trends & Competitive Analysis

“Medical Diagnostic & Therapeutic Ultrasound Devices Market (2012 - 2017) [By Technology, Applications & Products, (2D, 3D & 4D, Doppler, High Intensity Focused Ultrasound (HIFU), Extracorporeal Shockwave Lithotripsy (ESWL), Cart/Trolley, Compact/Portable & Hand-held] Global Trends & Competitive Analysis”

The medical ultrasound devices market consists of devices that involve the projection of cyclic sound waves ranging between 20 KHz – 10 MHz. These waves create varying pressures on biological tissues, based on the level of frequencies used. Ultrasound has the ability to raise the temperature of a substance when directed in focused waves, and thus also finds therapeutic applications.

Medical application of ultrasound began post World War II in the 1940s, with the first diagnostic application being in cardiology and brain tumor identification. Today ultrasound has medical applications in every area of the body and gives accurate results regarding overall structural composition, based on the density and transmission of the sound waves through biological tissue. Along with the conventional black and white ultrasound imaging systems, the global market also has high potential for color Doppler and 3D/4D imaging systems. The imaging clarity and diagnostic abilities offered by recent ultrasound devices is predicted to give a thrust to the overall global diagnostic market; this will also support other imaging technologies such as Magnetic Resonance Imaging, Computed Tomography, and PET/SPECT.

Ultrasound frequencies ranging between 0.8 MHz - 3.3 MHz have found use in therapeutic application in ablation of tissue. The ultrasound energy focused and directed towards unwanted tissue is transmitted harmlessly through the upper layers of tissue and focused only on the target area. This raises the temperature of the tissue, as a large amount of sonic energy is deposited within. As living cells are not able to dissipate the heat created quickly enough, the temperature rises above the survival threshold and the cells finally die due to coagulation necrosis. Cell death is also caused by cavitation, which is the implosion of microscopic bubbles inside the cell, thus leading to destruction of the cellular wall.

Ultrasound also has other applications in movement detection for security, structural integrity of constructions, detection of welding cracks, navigation and ranging in military and astronomy.

The 2011 global ultrasound medical devices market is estimated to be at \$5.6 billion and is predicted to grow at a CAGR of 6.2% to reach \$8.1 billion by 2017. Cart-based systems command the largest share of the ultrasound systems and are predicted to remain so for the coming decade. Devices such as Vscan (GE Healthcare), Acuson p10 (Siemens) and by other niche players such as Mobisante (U.S.) are expected to propel the growth of the hand-held segment of ultrasound devices. Meanwhile, the market for therapeutic ultrasound devices such as High Intensity Focused Ultrasound (HIFU) and lithotripters is driven by the increasing demand from changing trends in fields such as cosmetology, ablative procedures, and lithotripsy applications in kidney stones, bladder stones and others.

The global diagnostic ultrasound devices market is led by key market players such as GE Healthcare (U.K.), Philips Healthcare (The Netherlands), Siemens Healthcare (Germany), Esaote Group (Italy), Toshiba Medical Systems Corporation (Japan), HITACHI-Aloka Medical Corporation (Japan), SonoSite, Inc. (U.S.), Misonix, Inc. (U.S.), Ultrasonix Medical Corporation (Canada), Zonare Medical Systems (U.S.), and other players such as Mindray Medical (China), Terason Corporation (U.S.), Verathon, Inc. (Canada), Supersonic Imagine (France), Analogic Corporation (U.S.), and TomTec Imaging Systems GMBH (Germany).

The global therapeutic ultrasound market is led by companies such as EDAP TMS (France), Dornier Medtech (Germany), InSightec (U.S.), Siemens Healthcare (Germany), Philips Healthcare (The Netherlands), and Misonix, Inc. (U.S.).

Contents

1 INTRODUCTION

- 1.1 KEY TAKE-AWAYS
- 1.2 REPORT DESCRIPTION
- 1.3 MARKETS COVERED
- 1.4 STAKEHOLDERS
- 1.5 RESEARCH METHODOLOGY
 - 1.5.1 MARKET SIZE
 - 1.5.2 MARKET SHARE
 - 1.5.3 KEY DATA POINTS FROM SECONDARY SOURCES
 - 1.5.4 KEY DATA POINTS FROM PRIMARY SOURCES
 - 1.5.5 ASSUMPTIONS

2 EXECUTIVE SUMMARY

3 MARKET OVERVIEW

- 3.1 INTRODUCTION
- 3.2 MARKET SEGMENTATION
- 3.3 MARKET DYNAMICS
 - 3.3.1 DRIVERS
 - 3.3.1.1 Aging population to drive cardiology & vascular ultrasound
 - 3.3.1.2 Long-term effects & high costs deter patients from opting for radiation-based imaging techniques
 - 3.3.1.3 Rise in number of healthcare institutes & improved healthcare infrastructure estimated to boost medical ultrasound
 - 3.3.1.4 Large untapped market available for ultrasound
 - 3.3.1.5 Increase in minimally invasive surgeries & acceptance of non-invasive procedures to drive the ultrasound market
 - 3.3.2 RESTRAINTS
 - 3.3.2.1 Lack of experienced & skilled technicians
 - 3.3.2.2 Technological limitation of ultrasound
 - 3.3.3 OPPORTUNITIES & CHALLENGES
 - 3.3.3.1 Technical & educational challenges
 - 3.3.3.2 Increasing number of applications in therapeutic ultrasound
 - 3.3.4 TRENDS
 - 3.3.5 MARKET SHARE ANALYSIS

4 ULTRASOUND DEVICES MARKET, BY TECHNOLOGY

4.1 INTRODUCTION

4.2 DIAGNOSTIC IMAGING ULTRASOUND

4.2.1 2D ULTRASOUND

4.2.2 3D & 4D ULTRASOUND

4.2.3 DOPPLER IMAGING

4.3 THERAPEUTIC ULTRASOUND

4.3.1 HIGH INTENSITY FOCUSED ULTRASOUND (HIFU)

4.3.2 EXTRACORPOREAL SHOCKWAVE LITHOTRIPSY (ESWL)

5 ULTRASOUND MARKET, BY APPLICATION AREA

5.1 INTRODUCTION

5.2 DIAGNOSTIC ULTRASOUND MARKET, BY CONVENTIONAL APPLICATIONS

5.2.1 CARDIOLOGY

5.2.2 RADIOLOGY/ONCOLOGY

5.2.3 OBSTETRICS & GYNAECOLOGY

5.2.4 BREAST MAMMOGRAPH ULTRASOUND

5.3 DIAGNOSTIC ULTRASOUND MARKET, BY NON-CONVENTIONAL APPLICATIONS

5.3.1 EMERGENCY MEDICINE

5.3.2 ANESTHESIOLOGY

5.3.3 MUSCULOSKELETAL ULTRASOUND

5.3.4 VASCULAR ULTRASOUND

5.3.5 UROLOGICAL ULTRASOUND

5.4 HIFU ULTRASOUND MARKET, BY APPLICATIONS

5.4.1 ONCOLOGY

5.4.2 OBSTETRICS & GYNAECOLOGY

5.4.3 CARDIOLOGY

5.5 HIFU AND LITHOTRIPSY ULTRASOUND MARKET, BY APPLICATIONS

5.5.1 UROLOGY & NEPHROLOGY

6 DIAGNOSTIC ULTRASOUND MARKET, BY PRODUCT TYPE

6.1 CART & TROLLEY BASED ULTRASOUND DEVICES

6.2 COMPACT & PORTABLE ULTRASOUND SYSTEMS

6.3 HAND-HELD ULTRASOUND DEVICES

7 GEOGRAPHIC ANALYSIS

7.1 INTRODUCTION

7.1.1 NORTH AMERICA

7.1.2 DRIVERS

7.1.2.1 Increased incidences of uterine fibroids

7.1.2.2 Non-conventional applications areas to continue pushing the market

7.1.2.3 Demand for hand-held ultrasound devices

7.1.3 RESTRAINTS

7.1.3.1 Unstable reimbursement policies

7.1.3.2 Abortion laws and compulsory pregnancy tests expected to hinder growth

7.2 EUROPE

7.2.1 DRIVERS

7.2.1.1 Stable reimbursement system

7.2.1.2 Highest number of hospital beds per 1,000 capita is expected to be a key factor contributing to demand of ultrasound

7.2.2 RESTRAINTS

7.2.2.1 Reducing size of European population and low birth-rate to reduce usage of ultrasound

7.2.2.2 Economic slowdown in western Europe predicted to be challenging scenario

7.3 ASIA-PACIFIC

7.3.1 DRIVERS

7.3.1.1 Medical tourism and low healthcare costs to expand healthcare market in Asia and Pacific

7.3.1.2 Expansion of Asian economies and investment in healthcare infrastructure to boost ultrasound market

7.3.2 RESTRAINTS

7.3.2.1 Illegal use and strict government guidelines causing a restraint on the ultrasound market

7.3.2.2 Low number of trained professionals to operate ultrasound

7.4 REST OF THE WORLD

8 COMPETITIVE LANDSCAPE

8.1 INTRODUCTION

8.2 MERGERS & ACQUISITIONS

8.3 AGREEMENTS, PARTNERSHIPS, COLLABORATIONS & JOINT VENTURES

8.4 NEW PRODUCT LAUNCHES

8.5 APPROVALS

8.6 OTHER DEVELOPMENTS

9 COMPANY PROFILES

9.1 ANALOGIC CORPORATION

9.1.1 OVERVIEW

9.1.2 FINANCIALS

9.1.3 PRODUCTS & SERVICES

9.1.4 STRATEGY

9.1.5 DEVELOPMENTS

9.2 EDAP TMS SA

9.2.1 OVERVIEW

9.2.2 FINANCIALS

9.2.3 PRODUCTS & SERVICES

9.2.4 STRATEGY

9.2.5 DEVELOPMENTS

9.3 ESAOTE GROUP

9.3.1 OVERVIEW

9.3.2 FINANCIALS

9.3.3 PRODUCTS & SERVICES

9.3.4 STRATEGY

9.3.5 DEVELOPMENTS

9.4 FUKUDA DENSHI CO., LTD.

9.4.1 OVERVIEW

9.4.2 FINANCIALS

9.4.3 PRODUCTS & SERVICES

9.4.4 STRATEGY

9.4.5 DEVELOPMENTS

9.5 GE HEALTHCARE

9.5.1 OVERVIEW

9.5.2 FINANCIALS

9.5.3 PRODUCTS & SERVICES

9.5.4 STRATEGY

9.5.5 DEVELOPMENTS

9.6 HITACHI-ALOKA MEDICAL CORPORATION

9.6.1 OVERVIEW

9.6.2 FINANCIALS

9.6.3 PRODUCTS & SERVICES

- 9.6.4 STRATEGY
- 9.6.5 DEVELOPMENTS
- 9.7 INSIGHTEC, LTD.
 - 9.7.1 OVERVIEW
 - 9.7.2 FINANCIALS
 - 9.7.3 PRODUCTS & SERVICES
 - 9.7.4 STRATEGY
 - 9.7.5 DEVELOPMENTS
- 9.8 MINDRAY MEDICAL INTERNATIONAL LIMITED
 - 9.8.1 OVERVIEW
 - 9.8.2 FINANCIALS
 - 9.8.3 PRODUCTS & SERVICES
 - 9.8.4 STRATEGY
 - 9.8.5 DEVELOPMENTS
- 9.9 MISONIX, INC.
 - 9.9.1 OVERVIEW
 - 9.9.2 FINANCIALS
 - 9.9.3 PRODUCTS & SERVICES
 - 9.9.4 STRATEGY
 - 9.9.5 DEVELOPMENTS
- 9.10 ROYAL PHILIPS ELECTRONICS
 - 9.10.1 OVERVIEW
 - 9.10.2 FINANCIALS
 - 9.10.3 PRODUCTS & SERVICES
 - 9.10.4 STRATEGY
 - 9.10.5 DEVELOPMENTS
- 9.11 SASET HEALTHCARE
 - 9.11.1 OVERVIEW
 - 9.11.2 FINANCIALS
 - 9.11.3 PRODUCTS & SERVICES
 - 9.11.4 STRATEGY
- 9.12 SHANTOU INSTITUTE OF ULTRASONIC INSTRUMENTS CO., LTD.
 - 9.12.1 OVERVIEW
 - 9.12.2 FINANCIALS
 - 9.12.3 PRODUCTS & SERVICES
 - 9.12.4 STRATEGY
 - 9.12.5 DEVELOPMENTS
- 9.13 SHENZHEN LANDWIND INDUSTRY CO., LTD
 - 9.13.1 OVERVIEW

- 9.13.2 FINANCIALS
- 9.13.3 PRODUCTS & SERVICES
- 9.13.4 STRATEGY
- 9.14 SIEMENS HEALTHCARE
 - 9.14.1 OVERVIEW
 - 9.14.2 FINANCIALS
 - 9.14.3 PRODUCTS & SERVICES
 - 9.14.4 STRATEGY
 - 9.14.5 DEVELOPMENTS
- 9.15 SONOSCAPE CO., LTD.
 - 9.15.1 OVERVIEW
 - 9.15.2 FINANCIALS
 - 9.15.3 PRODUCTS & SERVICES
 - 9.15.4 STRATEGY
 - 9.15.5 DEVELOPMENTS
- 9.16 SONOSITE, INC.
 - 9.16.1 OVERVIEW
 - 9.16.2 FINANCIALS
 - 9.16.3 PRODUCTS & SERVICES
 - 9.16.4 STRATEGY
 - 9.16.5 DEVELOPMENTS
- 9.17 TERASON CORPORATION
 - 9.17.1 OVERVIEW
 - 9.17.2 FINANCIALS
 - 9.17.3 PRODUCTS & SERVICES
 - 9.17.4 STRATEGY
 - 9.17.5 DEVELOPMENTS
- 9.18 TOMTEC IMAGING SYSTEMS GMBH
 - 9.18.1 OVERVIEW
 - 9.18.2 FINANCIALS
 - 9.18.3 PRODUCTS & SERVICES
 - 9.18.4 STRATEGY
 - 9.18.5 DEVELOPMENTS
- 9.19 TOSHIBA MEDICAL SYSTEMS CORPORATION
 - 9.19.1 OVERVIEW
 - 9.19.2 FINANCIALS
 - 9.19.3 PRODUCTS & SERVICES
 - 9.19.4 STRATEGY
 - 9.19.5 DEVELOPMENTS

- 9.20 TYCOMED BIO-MEDICAL CO., LTD.
 - 9.20.1 OVERVIEW
 - 9.20.2 FINANCIALS
 - 9.20.3 PRODUCTS & SERVICES
 - 9.20.4 STRATEGY
 - 9.20.5 DEVELOPMENTS
- 9.21 ULTRASONIX MEDICAL CORPORATION
 - 9.21.1 OVERVIEW
 - 9.21.2 FINANCIALS
 - 9.21.3 PRODUCTS & SERVICES
 - 9.21.4 STRATEGY
 - 9.21.5 DEVELOPMENTS
- 9.22 VERATHON, INC.
 - 9.22.1 OVERVIEW
 - 9.22.2 FINANCIALS
 - 9.22.3 PRODUCTS & SERVICES
 - 9.22.4 STRATEGY
 - 9.22.5 DEVELOPMENTS
- 9.23 ZONARE MEDICAL SYSTEMS
 - 9.23.1 OVERVIEW
 - 9.23.2 FINANCIALS
 - 9.23.3 PRODUCTS & SERVICES
 - 9.23.4 STRATEGY
 - 9.23.5 DEVELOPMENTS

List Of Tables

LIST OF TABLES

TABLE 1 GLOBAL ULTRASOUND MARKET REVENUE, BY SEGMENTS, 2010 – 2017 (\$MILLION)

TABLE 2 ULTRASOUND MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 3 GLOBAL ULTRASOUND MARKET REVENUE, BY TECHNOLOGIES, 2010 – 2017 (\$MILLION)

TABLE 4 DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 5 2D ULTRASOUND TECHNOLOGY MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 6 3D & 4D ULTRASOUND TECHNOLOGY MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 7 DOPPLER ULTRASOUND TECHNOLOGY MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 8 GLOBAL THERAPEUTIC ULTRASOUND MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 9 GLOBAL THERAPEUTIC ULTRASOUND MARKET REVENUE, BY TECHNOLOGY, 2010 – 2017 (\$MILLION)

TABLE 10 GLOBAL THERAPEUTIC ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)

TABLE 11 HIGH INTENSITY FOCUSED ULTRASOUND (HIFU) DEVICES MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 12 HIGH INTENSITY FOCUSED ULTRASOUND (HIFU) DEVICES MARKET VOLUME, BY GEOGRAPHY, 2010 – 2017 (NO. OF UNITS)

TABLE 13 EXTRACORPOREAL SHOCKWAVE LITHOTRIPSY (ESWL) DEVICES MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 14 EXTRACORPOREAL SHOCKWAVE LITHOTRIPSY (ESWL) DEVICES MARKET VOLUME, BY GEOGRAPHY, 2010 – 2017 (NO. OF UNITS)

TABLE 15 GLOBAL DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY APPLICATIONS, 2010 – 2017 (\$MILLION)

TABLE 16 GLOBAL CONVENTIONAL DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY APPLICATIONS, 2010 – 2017 (\$MILLION)

TABLE 17 GLOBAL NON-CONVENTIONAL DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY APPLICATIONS, 2010 – 2017 (\$MILLION)

TABLE 18 GLOBAL THERAPEUTIC ULTRASOUND MARKET REVENUE, BY

APPLICATIONS, 2010 – 2017 (\$MILLION)

TABLE 19 GLOBAL DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 20 GLOBAL DIAGNOSTIC ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)

TABLE 21 CART-BASED ULTRASOUND MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 22 LOW-END CART-BASED ULTRASOUND DEVICES MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 23 LOW-END CART-BASED ULTRASOUND DEVICES MARKET VOLUME, BY GEOGRAPHY, 2010 – 2017 (NO. OF UNITS)

TABLE 24 MID-END CART-BASED ULTRASOUND DEVICES MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 25 MID-END CART-BASED ULTRASOUND DEVICES MARKET VOLUME, BY GEOGRAPHY, 2010 – 2017 (NO. OF UNITS)

TABLE 26 GLOBAL CART-BASED ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 27 GLOBAL CART-BASED ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 28 HIGH & PREMIUM-END CART-BASED ULTRASOUND DEVICES MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 29 HIGH & PREMIUM-END CART-BASED ULTRASOUND DEVICES MARKET VOLUME, BY GEOGRAPHY, 2010 – 2017 (NO. OF UNITS)

TABLE 30 COMPACT/PORTABLE ULTRASOUND MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 31 GLOBAL COMPACT/PORTABLE ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 32 GLOBAL COMPACT/PORTABLE ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 33 LOW-END COMPACT/PORTABLE ULTRASOUND DEVICES MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 34 LOW-END COMPACT/PORTABLE ULTRASOUND DEVICES MARKET VOLUME, BY GEOGRAPHY, 2010 – 2017 (NO. OF UNITS)

TABLE 35 MID-END COMPACT/PORTABLE ULTRASOUND DEVICES MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

TABLE 36 MID-END COMPACT/PORTABLE ULTRASOUND DEVICES MARKET VOLUME, BY GEOGRAPHY, 2010 – 2017 (NO. OF UNITS)

TABLE 37 HIGH & PREMIUM-END COMPACT/PORTABLE ULTRASOUND DEVICES MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)

- TABLE 38 HIGH & PREMIUM-END COMPACT/PORTABLE ULTRASOUND DEVICES MARKET VOLUME, BY GEOGRAPHY, 2010 – 2017 (NO. OF UNITS)
- TABLE 39 HAND-HELD ULTRASOUND MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)
- TABLE 40 GLOBAL HAND-HELD ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)
- TABLE 41 GLOBAL HAND-HELD ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)
- TABLE 42 LOW-END HAND-HELD ULTRASOUND DEVICES MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)
- TABLE 43 LOW-END HAND-HELD ULTRASOUND DEVICES MARKET VOLUME, BY GEOGRAPHY, 2010 – 2017 (NO. OF UNITS)
- TABLE 44 MID-END HAND-HELD ULTRASOUND DEVICES MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)
- TABLE 45 MID-END HAND-HELD ULTRASOUND DEVICES MARKET VOLUME, BY GEOGRAPHY, 2010 – 2017 (NO. OF UNITS)
- TABLE 46 HIGH & PREMIUM-END HAND-HELD ULTRASOUND DEVICES MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)
- TABLE 47 HIGH & PREMIUM-END HAND-HELD ULTRASOUND DEVICES MARKET VOLUME, BY GEOGRAPHY, 2010 – 2017 (NO. OF UNITS)
- TABLE 48 ULTRASOUND MARKET REVENUE, BY GEOGRAPHY, 2010 – 2017 (\$MILLION)
- TABLE 49 NORTH AMERICA: ULTRASOUND MARKET REVENUE, BY SEGMENTS, 2010 – 2017 (\$MILLION)
- TABLE 50 NORTH AMERICA: DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY TECHNOLOGIES, 2010 – 2017 (\$MILLION)
- TABLE 51 NORTH AMERICA: DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)
- TABLE 52 NORTH AMERICA: DIAGNOSTIC LOW-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)
- TABLE 53 NORTH AMERICA: DIAGNOSTIC LOW-END ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)
- TABLE 54 NORTH AMERICA: DIAGNOSTIC MID-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)
- TABLE 55 NORTH AMERICA: DIAGNOSTIC MID-END ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)
- TABLE 56 NORTH AMERICA: DIAGNOSTIC HIGH & PREMIUM-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)
- TABLE 57 NORTH AMERICA: CART-BASED ULTRASOUND MARKET REVENUE, BY

PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 58 NORTH AMERICA: CART-BASED ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 59 NORTH AMERICA: COMPACT/PORTABLE ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 60 NORTH AMERICA: COMPACT/PORTABLE ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 61 NORTH AMERICA: HAND-HELD ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 62 NORTH AMERICA: HAND-HELD ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 63 NORTH AMERICA: THERAPEUTIC ULTRASOUND MARKET REVENUE, BY TECHNOLOGIES, 2010 – 2017 (\$MILLION)

TABLE 64 NORTH AMERICA: THERAPEUTIC ULTRASOUND MARKET VOLUME, BY TECHNOLOGIES, 2010 – 2017 (NO. OF UNITS)

TABLE 65 EUROPE: ULTRASOUND MARKET REVENUE, BY SEGMENTS, 2010 – 2017 (\$MILLION)

TABLE 66 EUROPE: DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY TECHNOLOGIES, 2010 – 2017 (\$MILLION)

TABLE 67 EUROPE: DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 68 EUROPE: DIAGNOSTIC LOW-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 69 EUROPE: DIAGNOSTIC LOW-END ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)

TABLE 70 EUROPE: DIAGNOSTIC MID-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 71 EUROPE: DIAGNOSTIC MID-END ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)

TABLE 72 EUROPE: DIAGNOSTIC HIGH & PREMIUM-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 73 EUROPE: DIAGNOSTIC HIGH & PREMIUM-END ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)

TABLE 74 EUROPE: CART-BASED ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 75 EUROPE: CART-BASED ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 76 EUROPE: COMPACT/PORTABLE ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 77 EUROPE: COMPACT/PORTABLE ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 78 EUROPE: HAND-HELD ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 79 EUROPE: HAND-HELD ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 80 EUROPE: THERAPEUTIC ULTRASOUND MARKET REVENUE, BY TECHNOLOGIES, 2010 – 2017 (\$MILLION)

TABLE 81 EUROPE: THERAPEUTIC ULTRASOUND MARKET VOLUME, BY TECHNOLOGIES, 2010 – 2017 (NO. OF UNITS)

TABLE 82 ASIA-PACIFIC: ULTRASOUND MARKET REVENUE, BY SEGMENTS, 2010 – 2017 (\$MILLION)

TABLE 83 ASIA-PACIFIC: DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY TECHNOLOGIES, 2010 – 2017 (\$MILLION)

TABLE 84 ASIA-PACIFIC: DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 85 ASIA-PACIFIC: DIAGNOSTIC LOW-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 86 ASIA-PACIFIC: DIAGNOSTIC LOW-END ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)

TABLE 87 ASIA-PACIFIC: DIAGNOSTIC MID-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 88 ASIA-PACIFIC: DIAGNOSTIC MID-END ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)

TABLE 89 ASIA-PACIFIC: DIAGNOSTIC HIGH & PREMIUM-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 90 ASIA-PACIFIC: DIAGNOSTIC HIGH & PREMIUM-END ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)

TABLE 91 ASIA-PACIFIC: CART-BASED ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 92 ASIA-PACIFIC: CART-BASED ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 93 ASIA-PACIFIC: COMPACT/PORTABLE ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 94 ASIA-PACIFIC: COMPACT/PORTABLE ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 95 ASIA-PACIFIC: HAND-HELD ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 96 ASIA-PACIFIC: HAND-HELD ULTRASOUND MARKET VOLUME, BY

PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 97 ASIA-PACIFIC: THERAPEUTIC ULTRASOUND MARKET REVENUE, BY TECHNOLOGIES, 2010 – 2017 (\$MILLION)

TABLE 98 ASIA-PACIFIC: THERAPEUTIC ULTRASOUND MARKET VOLUME, BY TECHNOLOGIES, 2010 – 2017 (NO. OF UNITS)

TABLE 99 ROW: ULTRASOUND MARKET REVENUE, BY SEGMENTS, 2010 – 2017 (\$MILLION)

TABLE 100 ROW: DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY TECHNOLOGIES, 2010 – 2017 (\$MILLION)

TABLE 101 ROW: DIAGNOSTIC ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 102 ROW: DIAGNOSTIC LOW-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 103 ROW: DIAGNOSTIC LOW-END ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)

TABLE 104 ROW: DIAGNOSTIC MID-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 105 ROW: DIAGNOSTIC MID-END ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)

TABLE 106 ROW: DIAGNOSTIC HIGH & PREMIUM-END ULTRASOUND MARKET REVENUE, BY PRODUCTS, 2010 – 2017 (\$MILLION)

TABLE 107 ROW: DIAGNOSTIC HIGH-END & PREMIUM-END ULTRASOUND MARKET VOLUME, BY PRODUCTS, 2010 – 2017 (NO. OF UNITS)

TABLE 108 ROW: CART-BASED ULTRASOUND MARKET REVENUE, BY PRICE RANGE, 2010 – 2017 (\$MILLION)

TABLE 109 ROW: CART-BASED ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 110 ROW: COMPACT/PORTABLE ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 111 ROW: COMPACT/PORTABLE ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 112 ROW: HAND-HELD ULTRASOUND MARKET REVENUE, BY PRICE RANGES, 2010 – 2017 (\$MILLION)

TABLE 113 ROW: HAND-HELD ULTRASOUND MARKET VOLUME, BY PRICE RANGES, 2010 – 2017 (NO. OF UNITS)

TABLE 114 ROW: THERAPEUTIC ULTRASOUND MARKET REVENUE, BY TECHNOLOGIES, 2010 – 2017 (\$MILLION)

TABLE 115 ROW: THERAPEUTIC ULTRASOUND MARKET VOLUME, BY TECHNOLOGIES, 2010 – 2017 (NO. OF UNITS)

TABLE 116 MERGERS & ACQUISITIONS, 2009 –2012

TABLE 117 AGREEMENTS, PARTNERSHIPS, COLLABORATIONS & JOINT VENTURES, 2009 – 2012

TABLE 118 NEW PRODUCT LAUNCHES, 2009 – 2012

TABLE 119 APPROVALS, 2009 –2012

TABLE 120 OTHER DEVELOPMENTS, 2009 –2012

TABLE 121 ANALOGIC CORP.: NET REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 122 ANALOGIC CORP.: NET REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 123 ANALOGIC CORP.: NET REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 124 EDAP TMS SA: TOTAL REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 125 EDAP TMS SA: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 126 FUKUDA DENSHI CO., LTD.: TOTAL REVENUE AND R&D EXPENDITURE, 2009 - 2011 (\$MILLION)

TABLE 127 FUKUDA DENSHI CO., LTD.: TOTAL REVENUE, BY SEGMENTS, 2009 - 2011 (\$MILLION)

TABLE 128 GE HEALTHCARE: TOTAL REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$BILLION)

TABLE 129 GE HEALTHCARE: TOTAL REVENUE, BY GEOGRAPHY, 2009 - 2011 (\$BILLION)

TABLE 130 GE HEALTHCARE: TOTAL HEALTHCARE REVENUE, BY SEGMENTS, 2009 - 2011 (\$BILLION)

TABLE 131 HITACHI–ALOKA MEDICAL CORP. NET SALES AND R&D EXPENDITURE, 2008 – 2010 (\$MILLION)

TABLE 132 HITACHI–ALOKA MEDICAL CORP.: NET SALES, BY GEOGRAPHY, 2008 – 2010 (\$MILLION)

TABLE 133 HITACHI-ALOKA MEDICAL CORP.: NET SALES, BY SEGMENTS, 2008 – 2010 (\$MILLION)

TABLE 134 MINDRAY: TOTAL REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 135 MINDRAY: TOTAL REVENUE, BY GEOGRAPHY, 2009 - 2011 (\$MILLION)

TABLE 136 MINDRAY: TOTAL REVENUE, BY SEGMENTS, 2009 - 2011 (\$MILLION)

TABLE 137 MISONIX, INC.: TOTAL REVENUE AND R&D EXPENDITURE, 2009 - 2011 (\$MILLION)

TABLE 138 MISONIX, INC.: TOTAL REVENUE, BY SEGMENTS, 2009 - 2011

(\$MILLION)

TABLE 139 MISONIX INC.: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011

(\$MILLION)

TABLE 140 ROYAL PHILIPS ELECTRONICS: NET SALES AND R&D EXPENDITURE, 2009 - 2011 (\$MILLION)

TABLE 141 ROYAL PHILIPS ELECTRONICS: NET SALES, BY SEGMENTS, 2009 - 2011 (\$MILLION)

TABLE 142 PHILIPS HEALTHCARE: NET SALES, BY SEGMENTS, 2009 - 2011 (\$MILLION)

TABLE 143 SIEMENS HEALTHCARE: TOTAL REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 144 SIEMENS HEALTHCARE: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 145 SIEMENS HEALTHCARE: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 146 SONOSITE, INC.: TOTAL REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 147 SONOSITE, INC.: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

List Of Figures

LIST OF FIGURES

- FIGURE 1 ULTRASOUND MARKET REVENUE BY GEOGRAPHY, 2011
- FIGURE 2 ULTRASOUND DIAGNOSTIC & THERAPEUTIC APPLICATION, BY FREQUENCY & INTENSITY RANGE
- FIGURE 3 GLOBAL DIAGNOSTIC & THERAPEUTIC ULTRASOUND DEVICES MARKET SEGMENTATION
- FIGURE 4 GLOBAL DIAGNOSTIC & THERAPEUTIC ULTRASOUND DEVICES MARKET, 2010 – 2017 (\$MILLION)
- FIGURE 5 GLOBAL ULTRASOUND MARKET DYNAMICS, 2012
- FIGURE 6 GLOBAL ULTRASOUND MARKET, COMPETITOR SHARE ANALYSIS, 2011
- FIGURE 7 DIAGNOSTIC ULTRASOUND MARKET, COMPETITIVE SHARE ANALYSIS, 2011
- FIGURE 8 HIFU GLOBAL MARKET, COMPETITIVE SHARE ANALYSIS, 2011
- FIGURE 9 LITHOTRIPSY GLOBAL MARKET, COMPETITIVE SHARE ANALYSIS, 2011
- FIGURE 10 GLOBAL DIAGNOSTIC ULTRASOUND DEVICES MARKET, BY TECHNOLOGY (2010 – 2017)
- FIGURE 11 GLOBAL THERAPEUTIC ULTRASOUND DEVICES MARKET, BY TECHNOLOGY, 2010 – 2017 (\$MILLION)
- FIGURE 12 HIFU ABLATION MECHANISM
- FIGURE 13 EXTRACORPOREAL SHOCKWAVE LITHOTRIPSY MECHANISM
- FIGURE 14 TRENDS IN MEDICAL ULTRASOUND
- FIGURE 15 GLOBAL ULTRASOUND MARKET, BY CONVENTIONAL APPLICATIONS, 2011
- FIGURE 16 GLOBAL ULTRASOUND MARKET, BY NON-CONVENTIONAL APPLICATIONS, 2011
- FIGURE 17 GLOBAL THERAPEUTIC ULTRASOUND MARKET, BY APPLICATIONS, 2011
- FIGURE 18 GLOBAL DIAGNOSTIC ULTRASOUND DEVICES MARKET, BY PRODUCT TYPE, 2010 – 2017 (\$MILLION)
- FIGURE 19 CONVENTIONAL ULTRASOUND SYSTEM ARCHITECTURE
- FIGURE 20 PURCHASE PATTERN OF ULTRASOUND SYSTEMS FOR 50 YEARS
- FIGURE 21 KEY GROWTH STRATEGIES, JANUARY 2009 - JUNE 2012

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