

# **Egypt Ultrasound System Market, By Technology (Diagnostic Ultrasound, Therapeutic Ultrasound), By Display Type (Colored, Black & White), By Mobility (Mobile, Fixed), By Application (Obstetrics/Gynecology, General Imaging, Cardiology, and Urology), By End User (Hospitals & Clinics, Diagnostic Centers, and Others), By Region, Competition, Forecast and Opportunities, 2028**

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## **Abstracts**

Egypt ultrasound system market is expected to grow at an impressive rate during the forecast period, 2024-2028. This is on account of the rapidly expanding number of pregnancies and growing need to maintain routine examinations of both, pregnant women, and infants for a healthy and safe delivery. In the next five years, the market for ultrasound systems in the Egypt is expected to rise because of an increase in demand for early diagnosis of chronic diseases and the rising prevalence of these conditions among the Egypt population.

Additionally, the growing technological advancement in ultrasound devices along with the rising health awareness and increasing research and development among people is expanding the usage of ultrasound imaging technology and is leading to expanding the ultrasound imaging market in the forecast period.

### **Development of New Technologies and Equipment**

Development of advanced technology in ultrasound imaging has improved the quality and accuracy of the images produced. For instance, 3D and 4D ultrasound technology

allows physicians to view images in real-time, providing a much more detailed and accurate view of the internal structures of the body.

Major advancement includes advancement in ultrasound technology is the development of 3D and 4D ultrasound imaging. Unlike traditional 2D imaging, 3D imaging provides a three-dimensional view of the area being examined, allowing doctors to see the depth and shape of structures within the body. 4D imaging has brought advanced care in the diagnosis by adding the element of time, allowing doctors to view real-time images of a developing fetus or a heartbeat.

Additionally, the development of high-frequency ultrasound is another best advancement in the ultrasound devices. High-frequency ultrasound uses sound waves with a frequency of over 20 MHz, providing detailed images of superficial structures such as skin, muscles, and blood vessels. This technology is particularly useful in the diagnosis of skin cancer and other skin conditions. Also, the use of contrast agents in ultrasound imaging has become more widespread across the world. Contrast agents are substances injected into the body that enhance the visibility of certain structures, making them easier to see on ultrasound images. This technology has proven particularly useful in the diagnosis of liver and kidney diseases.

Furthermore, advancements in computer processing technology have also had a significant impact on ultrasound imaging services. The development of artificial intelligence (AI) algorithms has allowed for the automation of certain tasks, such as image segmentation and analysis. This technology has proven particularly useful in the diagnosis of certain cancers such as breast cancer.

Moreover, ultrasound imaging is a safe and non-invasive technique that does not expose patients to ionizing radiation, unlike other medical imaging techniques such as X-rays and CT scans. This makes it a preferred choice for many physicians and patients, as it carries minimal risk and can be repeated as often as necessary without causing harm.

### Growing Prevalence of Liver and Kidney Diseases

Ultrasound imaging is a non-invasive diagnostic tool that uses high-frequency sound waves to produce images of the inside of the body. It is commonly used to diagnose various kidney diseases, including kidney stones, tumors, cysts, and infections. According to the latest WHO data published in 2020 Kidney Disease Deaths in Egypt reached 21,087 or 3.93% of total deaths. The age adjusted Death Rate is 32.58 per

100,000 of population and ranks 46 in the world.

Ultrasound imaging is particularly useful in diagnosing kidney diseases because it can provide real-time images of the kidneys and surrounding structures, such as the bladder and ureters. The images produced by ultrasound are also very detailed, allowing doctors to see the size, shape, and texture of the kidneys. In conditions of kidney stones, ultrasound imaging can detect the presence of stones and determine their location and size, and which is crucial for deciding on the appropriate treatment for the patient. Also, ultrasound imaging is also used to monitor the growth and progression of kidney cysts, which is an indicator of more serious kidney diseases. Also, ultrasound imaging is useful in guiding kidney biopsies. A kidney biopsy is a procedure in which a small sample of kidney tissue is removed for analysis. Ultrasound imaging can help doctors accurately locate the area of the kidney that needs to be biopsied, reducing the risk of complications and improving the accuracy of the biopsy results.

Additionally, ultrasound imaging is utilized in detecting liver lesions, it can also help diagnose and monitor liver diseases such as hepatitis, cirrhosis, and fatty liver disease. Ultrasound imaging can detect changes in liver size, shape, and texture that may indicate the presence of these conditions. It can also detect the presence of fluid in the abdomen, which is a common symptom of liver disease. Also, ultrasound imaging is a valuable tool in the diagnosis of liver diseases, both acute and chronic. Chronic liver diseases are conditions that cause liver damage over an extended period, and ultrasound imaging can help diagnose and monitor these conditions. The primary use of ultrasound imaging in liver disease diagnosis is to detect the presence of liver lesions, such as tumors or cysts. Ultrasound imaging can provide detailed images of these lesions, allowing doctors to determine their size, location, and characteristics. This is helpful in deciding on the best course of treatment for the patient during a liver illness.

### Growing Incidences of Surgeries

Ultrasound imaging is a safe and effective diagnostic tool for kidney diseases. It is non-invasive, painless, and does not expose patients to ionizing radiation. Ultrasound imaging can provide valuable information for the diagnosis and treatment of kidney diseases, chronic liver diseases allowing doctors to provide the best possible care for their patients. It can be used to guide liver biopsies, which are necessary to diagnose certain liver diseases accurately. A liver biopsy involves removing a small sample of liver tissue for analysis. Ultrasound imaging can help doctors accurately locate the area of the liver that needs to be biopsied, reducing the risk of complications and improving the accuracy of the biopsy results. Ultrasound imaging is a non-invasive and safe

diagnostic tool for liver diseases. It is painless, does not expose patients to ionizing radiation, and can be performed quickly and easily. It is a valuable tool in the diagnosis and monitoring of allowing doctors to provide the best possible care for their patients. In Egypt, ultrasound imaging is commonly used to diagnose gallstones, a condition that may require surgery to remove the gallbladder. By accurately diagnosing gallstones, doctors can further recommend the appropriate treatment, including surgery.

Ultrasound imaging is also useful in guiding minimally invasive surgical procedures, such as laparoscopic surgery. Laparoscopic surgery is a technique that involves making small incisions in the abdomen and using a camera and specialized instruments to perform surgery. Ultrasound imaging can help guide the surgeon during the procedure, providing real-time images of the inside of the body and improving the accuracy and safety of the procedure. Also, in diagnosing and guiding surgical procedures, ultrasound imaging is also useful in monitoring the progress of patients after surgery which in turn is fueling the ultrasound imaging system market and is expected to boost it in the forecast period.

## Market Segmentation

Egypt ultrasound system market is segmented based on the technology, display type, mobility, end users, and region. Based on technology, the market is segmented into diagnostic ultrasound and therapeutic ultrasound. Based on technology, the market is segmented into digital, android, and wearable. Based on display type, the market is segmented into colored and black & white. Based on application, the market is segmented into obstetrics/gynecology, general imaging, cardiology, and urology. Based on the region, the market is further segmented into Alexandria, Suze Canal, Asyut region, Delta, Greater Cairo & upper North region, and South upper region.

## Market Players

Meditech, Siemens Healthineers AG Egypt, GE healthcare Egypt, Philips -Egypt, Canon Medical Technology, FUJIFILM Healthcare Middle East S.A.E, Carestream health inc., Mindray Medical International Limited, Samsung Healthcare, and Shimadzu Middle East & Africa are some of the leading companies operating in the market.

## Report Scope:

In this report, Egypt ultrasound system market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

## Egypt Ultrasound System Market, By Technology

Diagnostic Ultrasound

Therapeutic Ultrasound

## Egypt Ultrasound System Market, By Display Type

Colored

Black & White

## Egypt Ultrasound System Market, By Mobility

Obstetrics/Gynecology

General Imaging

Cardiology

Urology

## Egypt Ultrasound System Market, By End User

Hospitals & Clinics

Diagnostic Centers

Others

## Egypt Ultrasound System Market, By Region:

Cairo

Alexandria

Giza

Port Said

Suez

Rest of Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Egypt ultrasound system market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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