

# Mr Imaging System Hitachi

Raymond Damadian magnetic resonance imaging ("MRI") scan of the human body, albeit using a "focused field" technique that differs considerably from modern imaging. According to Raymond Vahan Damadian (March 16, 1936 – August 3, 2022) was an American physician, medical researcher, and inventor of the first nuclear magnetic resonance (NMR) scanning machine

In 2011, Olympus attracted worldwide media scrutiny when it fired its CEO Michael Christopher Woodford for...

Geography Markup Language GML serves as a modeling language for geographic systems as well as an open interchange format for geographic transactions on the Internet. Staff (Kurt Buehler, David Schell), Mr. Shige Kawano (DPC), Mr. Key to GML's utility is its ability to integrate all forms of geographic information, including not only conventional "vector" or discrete objects, but coverages (see also GMLJP2) and sensor data. Shimada (Hitachi CRL) led to the signing of an MOU between The Geography Markup Language (GML) is the XML grammar defined by the Open Geospatial Consortium (OGC) to express geographical features. Akifumi Nakai (NTT Data) and Dr

Automatix Its founders were Victor Scheinman, inventor of the Stanford arm; Phillippe Villers, Michael Cronin, and Arnold Reinhold of Computervision; Jake Dias and Dan Nigro of Data General; Gordon VanderBrug, of NBS, Donald L. It did design and manufacture Automatix Inc. Pieper of General Electric and Norman Wittels of Clark University. Apple Macintosh II. Automatix mostly used robot mechanisms imported from Hitachi at first and later from Yaskawa and KUKA. , founded in January 1980, was the first company to market industrial robots with built-in machine vision

CT scanners use a rotating X-ray tube and a row of detectors placed in a gantry to measure X-ray attenuations by different tissues inside the body. The multiple X-ray measurements taken from different angles are then processed on a computer using tomographic reconstruction algorithms to produce tomographic (cross-sectional) images (virtual "slices") of a body. CT scans can be used in patients with metallic implants or pacemakers, for whom magnetic resonance imaging (MRI) is contraindicated.

Vein matching "Biometric Attendance System". "Barclays – Hitachi Digital Security". (19 June 2024). However, it can be used in conjunction with existing forensic data in support of a conclusion. Retrieved 17 May 2018 Vein matching, also called vascular technology, is a technique of biometric identification through the analysis of the patterns of blood vessels visible from the surface of the skin. Fortuna Impex. Though used by the Federal Bureau of Investigation and the Central Intelligence Agency, this method of identification is still in development and has not yet been universally adopted by crime labs as it is not considered as reliable as more established techniques, such as fingerprinting. Retrieved 9 September 2024

Since its development in the 1970s... A member of the Mitsubishi Group, Mitsubishi Electric produces elevators and escalators, high-end home appliances, air conditioning, factory automation systems, train systems, electric motors, pumps, semiconductors, digital signage, and satellites.

Medical imaging Medical imaging is the technique and process of imaging the interior of a body for clinical analysis and medical intervention, as well as visual representation Medical imaging is the technique and process of imaging the interior of a body for clinical analysis and medical intervention, as well as visual representation of the function of some organs or tissues (physiology). Although imaging of removed organs and tissues can be performed for medical reasons, such procedures are usually considered part of pathology instead of medical imaging. Medical imaging also establishes a database of normal anatomy and physiology to make it possible to identify abnormalities. Medical imaging seeks to reveal internal structures hidden by the skin and bones, as well as to diagnose and treat disease

Measurement and recording techniques that are not primarily designed to produce images, such as electroencephalography (EEG), magnetoencephalography (MEG), electrocardiography... Damadian's research into sodium and potassium in living cells led him to his first experiments with nuclear magnetic resonance (NMR) which caused him to first propose the MR body scanner in 1969. Damadian discovered that tumors and normal tissue can be distinguished in vivo by nuclear magnetic resonance (NMR) because of their prolonged relaxation times, both T1 (spin-lattice relaxation) or T2 (spin-spin relaxation). Damadian was the first to perform a full-body scan of a human being in 1977 to diagnose cancer. Damadian invented an apparatus and method to use NMR safely and accurately to scan the human body, a method...

Mitsubishi Electric Business sold to Hitachi. Particle Beam Treatment System, until 2017. Kosho Company in July, 2001. The company was established in 1921 as a spin-off from the electrical machinery manufacturing division of Mitsubishi Shipbuilding (Mitsubishi Heavy Industries) at the Kobe Shipyard. As of 2013,[update] Mitsubishi Electric's business network Mitsubishi Electric Corporation (株式会社三菱電機, Mitsubishi Denki kabushikigaisha; formerly branded as 三菱, MELCO) is a Japanese multinational electronics (appliances & consumer electronics) and electrical equipment manufacturing company headquartered in Tokyo, Japan

CT scan The personnel that perform CT scans are called radiographers or radiology technologists. axial tomography scan (CAT scan), is a medical imaging technique used to obtain detailed internal images of the body. The personnel that perform CT scans A computed tomography scan (CT scan), formerly called computed axial tomography scan (CAT scan), is a medical imaging technique used to obtain detailed internal images of the body

It was formerly also a maker of cameras, camera lenses and dictaphones, until it divested this part to OM Digital Solutions in 2020. It divested from its microscopy and scientific imaging division in 2023, which spun off as Evident Corporation. It is contraindicated if there are some implanted metal or electronic devices such as some intracerebral clips or claustrophobia. Conventional MRI sequences are adapted for cardiac imaging by using ECG gating and high temporal resolution protocols. The development of cardiac MRI is an active field of research and...

Olympus Corporation 5 billion. As of 2025, endoscopes and related surgical technologies are now Olympus's exclusive product line. Olympus holds roughly a 70 percent share of the global endoscope market, estimated to be worth approximately US\$2. new model of their 4K surgical endoscopy system, which also allows for Infared imaging and Narrow Band imaging. Olympus was established in 1919, initially specializing in microscopes and thermometers, and later in imaging. This new model was made available for purchase Olympus Corporation is a Japanese manufacturer of optics and reprography products, headquartered in Hachioji, Tokyo f14c01cb8f

List of Japanese inventions and discoveries Japanese pioneers have made contributions across a number of scientific, technological and art domains. Hitachi. The Development of a Modern Microscopy&quot;. In particular, Japan has played a crucial role in the digital revolution since the 20th century, with many modern revolutionary and widespread technologies in fields such as electronics and robotics introduced by Japanese inventors and entrepreneurs. Retrieved 5 August 2025. Imaging & Microscopy. García-Villena, This is a list of Japanese inventions and discoveries. Retrieved 2 August 2025. &quot;History&quot; f14c01cb8f

Cardiac magnetic resonance imaging It can also be used to look at pulmonary veins. Cardiac magnetic resonance imaging (cardiac MRI, CMR), also known as cardiovascular MRI, is a magnetic resonance imaging (MRI) technology used for non-invasive Cardiac magnetic resonance imaging (cardiac MRI, CMR), also known as cardiovascular MRI, is a magnetic resonance imaging (MRI) technology used for non-invasive assessment of the function and structure of the cardiovascular system. Conditions in which it is performed include congenital heart disease, cardiomyopathies and valvular heart disease, diseases of the aorta such as dissection, aneurysm and coarctation, coronary heart disease f14c01cb8f

While other types of biometric scanners are more widely employed in security systems, vascular scanners are growing in popularity. Fingerprint scanners are more frequently used, but they generally do not provide enough data points for... f14c01cb8f

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