HITACHI Inspire the Next

LISENDO 880

REDEFINING THE VISION OF CARDIOVASCULAR ULTRASOUND

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231 Ангарск (3955)60-70-56 Архангельск (8182)63-90-72 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Благовещенск (4162)22-76-07 Брянск (4832)59-03-52 Владикавказ (8672)28-90-48 Владикавказ (8672)28-90-48 Владикавказ (8672)28-90-48 Владикавказ (8672)28-90-48 Волоград (844)278-03-48 Волоград (844)278-03-48 Волоград (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48

Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Коломна (4966)23-41-49 Кострома (4942)77-07-48 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курган (3522)50-90-47 Курск (4712)77-13-04 Липецк (4742)52-20-81 Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новосибирск (383)227-86-73 Ноябрьск (3496)41-32-12 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Пермь (342)205-81-47 Петрозаводск (8142)55-98-37 Псков (8112)59-10-37 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саранск (8342)22-96-24 Саранск (8342)22-96-24 Саранск (845)249-38-78 Севастополь (8652)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35

Киргизия +996(312)96-26-47

Сыктывкар (8212)25-95-17 Тамбов (4752)50-40-97 Тверь (4822)63-31-35 Тольятти (8482)63-91-07 Томск (3822)98-41-53 Тула (4872)33-79-87 Тюмень (3452)66-21-18 Улан-Удэ (3012)59-97-51 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Чебоксары (8352)28-53-07 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Чита (3022)38-34-83 Якутск (4112)23-90-97 Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

hic@nt-rt.ru || https://hitachimed.nt-rt.ru

Cardiovascular Diagnosis supported by three Innovations.

What do optimum image quality, applications, and operability mean to the cardiologist? These are the definitive challenges Hitachi has been continuously addressing since we released the world's first diagnostic ultrasound system. From the complete redesign of platform components and functions, to arrive finally at the three core innovations of LISENDO 880: "Pure Image", "Your Application", "Seamless Workflow", meeting your requirements and aspirations for cutting-edge cardiovascular diagnosis.

Pure Image

Attaining the next level of image quality

Technologies fostered by Hitachi to hone the high quality "sound" have evolved further, giving life to Pure Symphonic Architecture. The combination of transducer/front-end, variable beamformer, active back-end, and OLED monitor: all technologies work together to realize the highest level of premium class performance.

Your Application

Attaining the next level of diagnostic confidence

LISENDO 880 performs within an extensive variety of advanced applications that offer support across a broad clinical range. With efficient assistance for rapid and accurate diagnosis, treatment guidance, and research opportunities, Hitachi creates new clinical value.

Seamless Workflow

Attaining the next level

in operability

The ergonomic design of the LISENDO 880 minimizes operator fatigue. Supporting seamless workflow, the many easy-to-use functions shorten examination time and provide a more comfortable examination environment. As a result, the patient experience is also improved.





LISENDO 880 Recettring the Visio of Cardiovescular

Pure Image

Attaining the next level of image quality

A wide range of essential image adjustment parameters dedicated to optimizing cardiac image quality; a variety of technologies to reduce confounding factors that inhibit signal fidelity such as patient dependent variability; transducers, image processing algorithms, monitor display: Hitachi has further refined technologies at every level for LISENDO 880. PURE SYMPHONIC ARCHITECTURE providing premium level image clarity for cardiac diagnosis.



PURE SYMPHONIC ARCHITECTURE

Active

Variable Beamformer Back-end

C. P. Fairly

Transducer

Front-end

2DTTE Transducer

The phased array transducer has been newly designed to realize the high spatial, temporal and contrast resolution especially required for cardiology. With an improved shape that is comfortable to hold and easily fits in intercostal spaces, it can reduce variable factors such as user skill- and patient disease-dependencies that can inhibit image clarity.



eFocusing

The eFocusing transmission and reception technology newly developed for LISENDO 880 significantly improves S/N and reduces focal dependency. The outstanding clarity of clinical images is performed from near to far field with excellent penetration at higher frequencies.



Active Back-end

Hitachi's unique image processing technologies evolved from former models are further refined for LISENDO 880. Combined with the newly developed transducers and eFocusing technology, they deliver imaging with outstanding definition which can be optimized for each user's preference.









Your Application

HemoDynamic Analytics

HDAnalytics (HemoDynamic Analytics) for Heart Failure Diagnosis

Understanding the hemodynamics of the heart is essential when assessing cardiovascular performance. Hitachi is the gold standard in hemodynamics and redefines the vision of cardiovascular ultrasound by offering a ground-breaking collection of cardiovascular analytic tools. HDAnalytics provided by LISENDO 880 is a unique and accurate analysis package for cardiac hemodynamic assessments in your daily practice. HDAnalytics Package for Heart Failure Diagnosis

eTRACKING with Wave Intensity (WI)

eTRACKING provides multiple parameters, including arterial stiffness, necessary for early-stage detection of atherosclerosis.

In addition, Wave Intensity (ventriculo-arterial coupling) is able to provide information about the dynamic behavior of the heart, the vascular system and their interactions.

LV eFLOW

LV eFLOW is a non-invasive, high definition and sensitivity blood flow imaging mode that drastically improves visualization of the endocardial border in the left ventricle. With technically difficult patients, LV eFLOW may improve time

and cost efficiency in the Echo Lab.



iDGD (Dual Gate Doppler) with R-R Navigation

Automatically measure the E/e' value in only 5 seconds (83% time saving based on Hitachi engineering study)

Based on Artificial Intelligence technology, the automatic settings of two separate sample volumes simultaneously provide Doppler waveforms in real time during the same cardiac cycle, eliminating beat-to-beat variations. In addition, R-R Navigation automatically detects appropriate heartbeats for measurement in patients with irregular heartbeats.

Measurements such as the E/e' ratio, isovolumetric contraction and relaxation times as well as evaluation of dyssynchrony in septal and lateral walls can be obtained from the same heartbeat.



VFM (Vector Flow Mapping)

Vector Flow Mapping is a validated application that evaluates blood flow distribution and patterns in the heart in a completely new way. From one loop, flow direction without angle dependency, vorticity, energy loss, wall stress and relative pressure can be identified



LISENDO 880

TRASOUND EARLY FINED

Your Application Cardiac

re Image / Your Application / Seamless Workflow

Attaining the next level of diagnostic confidence

LISENDO 880 supports multiple easy-to-use advanced application tools that can enhance diagnostic accuracy and offer new clinical value. In specific clinical settings where high precision and rapid diagnosis are a premium requirement, simple steps result in the highest level of performance and effective diagnostic information in cardiology.

Cardiac 3D

Cardiac 3D is becoming an indispensable part of the cardiac examination. Diagnostic information is attained at the next level for diagnosis and treatment in cardiac disease. Quality unique to "made-in-Japan" products is achieved in all aspects of image quality, operability, and functionality.



Analysis of Cardiac 3D

The acquired 3D data can be used for different analysis packages, including valve diameter measurement, 3D morphological observation, volume calculation, and tracking.



GLS (Global Longitudinal Strain)

Recent interest has been shown in the GLS, the ratio of change in LV endocardium length, which can be altered significantly in patients with heart failure even when a normal Ejection Fraction (EF) is maintained. The enhanced workflow for both the tracing and GLS calculation has significantly reduced the measurement and analysis time, bringing its use into routine examinations.

i2DTT

The fully automatic speckle tracking function of LISENDO 880 provides precise quantification of strain and strain rate for the left and right ventricles and the left atrium to visualize, quantify and analyse regional and global myocardial mechanics. Not only GLS, but also SAX radial strain and ejection fraction measurements in the apical view are available.



iDGD (Dual Gate Doppler)

Simultaneous FFT analysis from two sample gates is provided by Dual Gate Doppler, including the combination of PW and TDI. This function has special value in the measurement of E/e' and TE-e' for evaluating diastolic performance.



RR HD

RRp RRos

R-R Navigation

By automatically detecting the most accurate and optimum time phases during the examination of arrhythmia, atrial fibrillation, and in other situations, R-R Navigation overcomes former difficulties by choosing an appropriate waveform, to significantly enhance workflow. LISENDO 880 Receibling the Viewn of Cerrifowaculer Ultraeound Ultraeound

Your Application Vascular

Attaining the next level of diagnostic confidence

Blood pumped from the heart is circulated throughout the body by the blood vessels. Various applications provided by LISENDO 880 evaluate and display different functional changes of the vessels and blood flow with time, giving a more detailed understanding of the morphology, kinetics, and physiology of the vasculature throughout the body.

eTRACKING

A gate automatically tracks the time-dependent distension of the vessel, calculating diameter change in real time with high precision. One of the parameters calculated automatically, Stiffness Parameter, provides a key indication of the "stiffness" of the arterial wall with less dependence on the change in blood pressure.



Auto IMT

Automatically detects the Intima-Media Thickness (IMT) following the placement of a ROI on the long axis view of the carotid artery, measuring max and mean IMT according to diagnostic guidelines. By calculating the maximum, minimum, mean, and Standard Deviation (SD) from all points in the ROI, Auto IMT is expected to improve quantification accuracy.



Linear CW

Continuous Wave Doppler mode is available with linear and convex transducers, allowing a fast and accurate evaluation of stenotic blood flow without changing transducers.





Seamless Workflow





LISENDO 880 Recefining the Vision

Seamless Workflow

our Application / Seamless Workflow

Attaining the next level in operability, using our HemoDynamic Structural Intelligence (HDSI)

LISENDO 880 is equipped with a sophisticated automatic cardiac function measurement package based on our HDSI (HemoDynamic Structural Intelligence). Using learning data structured by Hitachi's big data and Artificial Intelligence (AI) technology, high precision in automated diagnosis can be attained, leading to significant workflow improvements. Our AI fueled analytics HDSI provides a collection of automated analysis tools of complex cardiac functions to which measurement accuracy has been improved with the addition of a vast knowledge-based data bank. The resultant ease-of-use and exam consistency significantly improve throughput, streamlining workflow. Rapid, accurate examinations in a comfortable environment are realized for both operators and patients, thanks to our smart cardiac measurements.

Automated anatomical and structural intelligent measurements and design

- Beat Mode: Automated detection of End Diastolic & End Systolic frames
- Auto LV, LA, and RA Volumes and FAC
- Auto LA/Ao

DAGOUND

- Auto EF: in 2D and M-Mode
- Doppler Cursor Assist: Uses AI technology to identify MV flow, AV flow and Annulus placement automatically
- Protocol Assistant: Move through your study protocol efficiently with automated progressions of modes, measurements, and annotations
- Ergonomic Design: Provides maximum scanning comfort and individual user configuration



RA Volume



LV Volume (EF)



LA Volume



Automated ED-ES Detection

When this function is selected, ED and ES frames are automatically detected and displayed instantly. The combination of automated ED-ES detection and automatic measurement packages offers seamless workflow.



Intuitive Operating Console

The freeze button is located close to the trackball, bringing basic console operations together. Additionally, the core 5-switch arrangement around the trackball streamlines the workflow for intuitive performance of more advanced functions such as Cardiac 3D and cardiac function analysis.

Beat Mode

Zoom



Advanced Cardiac Report

An ASE-compliant measurement package is available. Multiple measurement results are managed with the work sheet display and findings can be entered into a report page which can be exported in PDF format.

and the state of the second second	
	田田 田田

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231 Ангарск (3955)60-70-56 Архангельск (8182)63-90-72 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Благовещенск (4162)22-76-07 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Владикавказ (8672)28-90-48 Владимир (4922)49-43-18 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48

Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Коломна (4966)23-41-49 Кострома (4942)77-07-48 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курган (3522)50-90-47 Курск (4712)77-13-04 Липецк (4742)52-20-81 Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Ноябрьск (3496)41-32-12

Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Пермь (342)205-81-47 Петрозаводск (8142)55-98-37 Псков (8112)59-10-37 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саранск (8342)22-96-24 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35

Сыктывкар (8212)25-95-17 Тамбов (4752)50-40-97 Тверь (4822)63-31-35 Тольятти (8482)63-91-07 Томск (3822)98-41-53 Тула (4872)33-79-87 Тюмень (3452)66-21-18 Улан-Удэ (3012)59-97-51 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Чебоксары (8352)28-53-07 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Чита (3022)38-34-83 Якутск (4112)23-90-97 Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

hic@nt-rt.ru || https://hitachimed.nt-rt.ru