Ligence

We Are



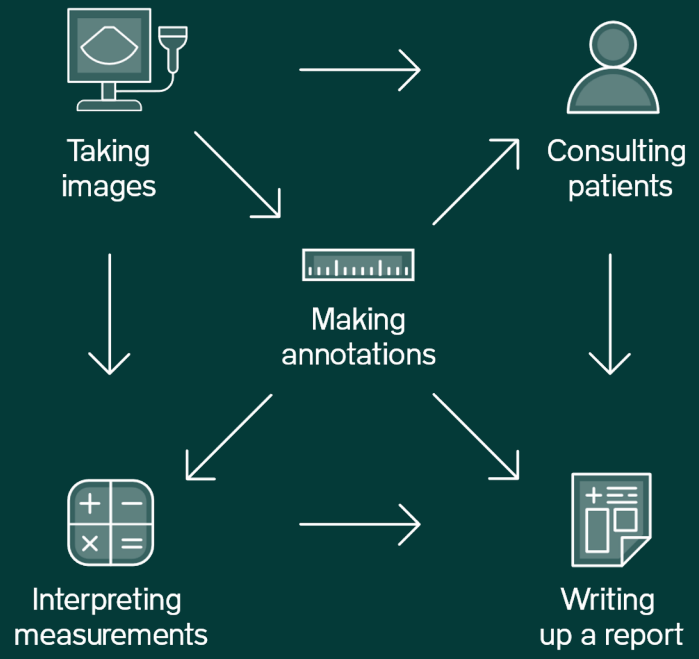
Ligence Heart™

Software for Echocardiography Analysis and Reporting

Speeding up cardiologist‘s workflow from 30 to 15 min

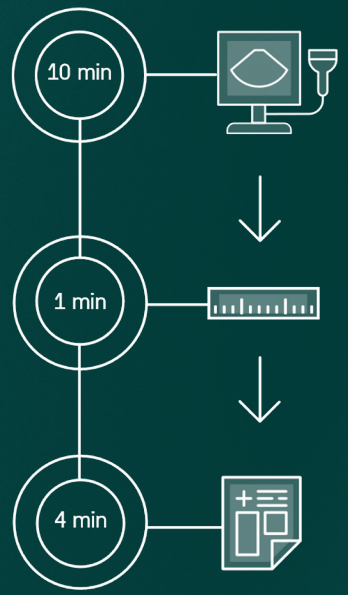
Hectic echocardiography workflow now

30min



Workflow with Ligence Heart

15min



Clinician takes plenty images

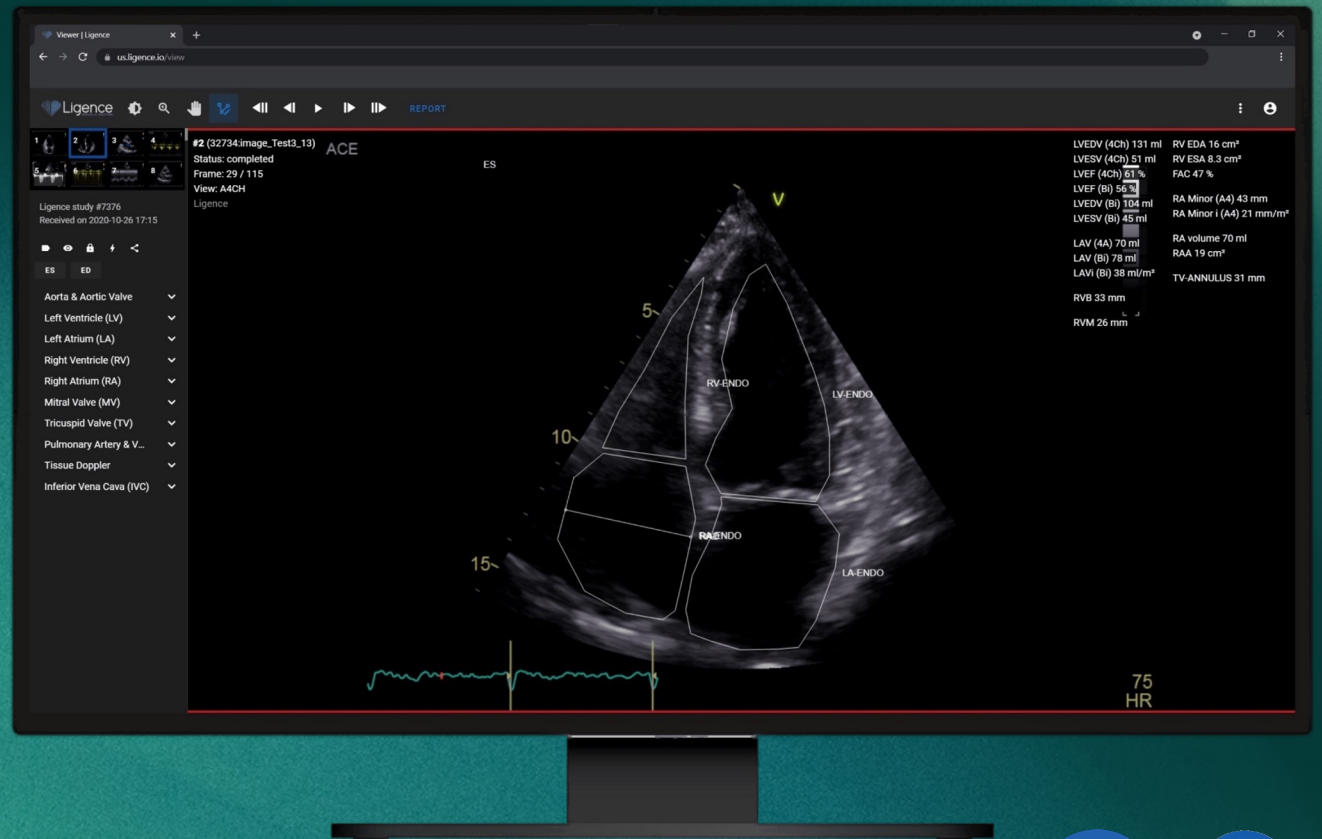
Ligence Heart measures and reports

Clinician edits and approves the report

Cut your echo reporting time in half

Ligence Heart™

Software for Intelligent Heart Ultrasound Analysis



ESC European Society of Cardiology

ASE American Society of Echocardiography
Sound Saves Lives

British Society of Echocardiography

EU-MDR 2017/745

FDA

ISO 27001

ISO 13485:2016

STUDIES | Report status: not reviewed | STRAIN | IMAGES | PATIENT'S OTHER STUDIES

Name: Demo Study 1 | Age | Weight: kg 73 | BSA: 1.9 | Heart Rhythm

Patient ID: a36caaf3 | Sex: Unkno... | Height: cm 174 | HR | Pressure

Study date/time: 2025-08-29 10:17 | Indication for scan | Study quality

Summary
Mild left ventricle dilatation, eccentric hypertrophy. Severe left ventricle systolic dysfunction. Grade III left ventricle diastolic dysfunction.
Normal longitudinal right ventricular systolic function.
Severe left atrium enlargement.
Aortic sclerosis (based on hemodynamic parameters).
Intermediate probability of pulmonary hypertension.

Generated report with a suggestion for diagnosis

Summary
Manual — Auto
FINALIZE

Heart Measurements

LV Morphology	Value	Indexed Value
IVSd	10.5 mm *(avg)*	
LVEDD	65.7 mm *(avg)*	35.0 mm/m²
LVPWd	10.7 mm *(avg)*	
LVESD	58.2 mm *(avg)*	31.0 mm/m²
LVM	310.5 g *(avg)*	165.3 g/m²
RWT	0.32 *(avg)*	

Abnormal values in red

LV Systolic	Value	Indexed Value
LVEF MoD (Bi)	29.9 % *(avg)*	
LVEDV (Bi)	200.4 ml *(avg)*	106.7 ml/m²
LVESV (Bi)	140.6 ml *(avg)*	74.9 ml/m²
LVEF MoD 4Ch	29.0 % *(avg)*	
LVEDV (4Ch)	189.0 ml *(avg)*	100.6 ml/m²
LVESV (4Ch)	136.2 ml *(avg)*	72.5 ml/m²
LVEF MoD 2Ch	33.7 % *(avg)*	
LVEDV (2Ch)	203.5 ml *(avg)*	108.4 ml/m²
LVESV (2Ch)	139.9 ml *(avg)*	74.5 ml/m²

Myocardial Contractility

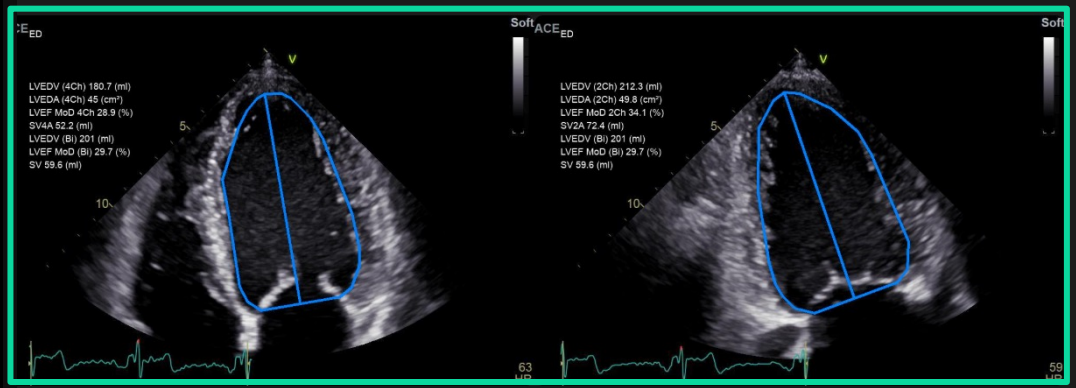
LV Diastolic	Value	Indexed Value
E	91.3 cm/s	
A	22.0 cm/s	

LV Strain	Value	Indexed Value
GLPS	-9.00 %	
GLPS2A	-9.46 %	

LVEDV (Bi)

LVEDV (Bi): 200.4 ml (normal [46.0 - 106.0]ml) | **LVEDVi (Bi): 106.7 ml/m²** (normal [29.0 - 61.0]ml/m²)

#1 LVEDV (Bi) : 201.0 ml | LVEDVi (Bi) : 107.0 ml/m²



Elimination of operator variability: the software always brings the same measurements for the same cines

Ligence Heart™ 76* automatic measurements

Heart failure

HFrEF

EF BP
EDV BP
ESV BP
LVIDd
IVSd
LVPWd

HFpEF

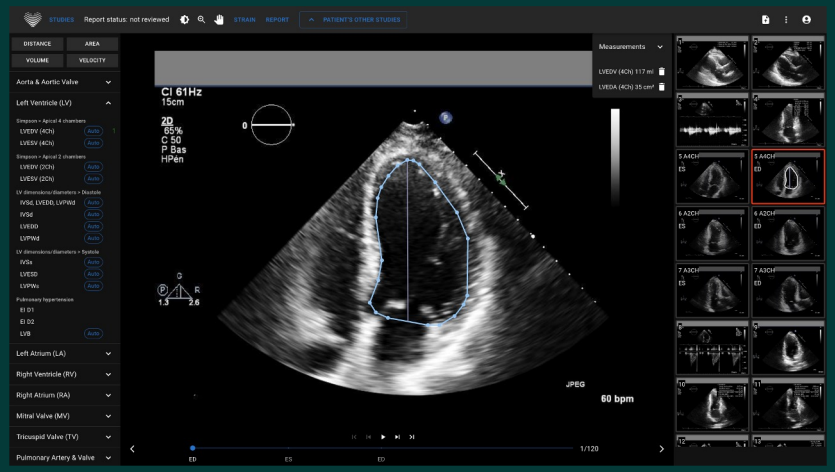
MV E
MV A
Med E'
Lat E'
TR PG
LA Volume

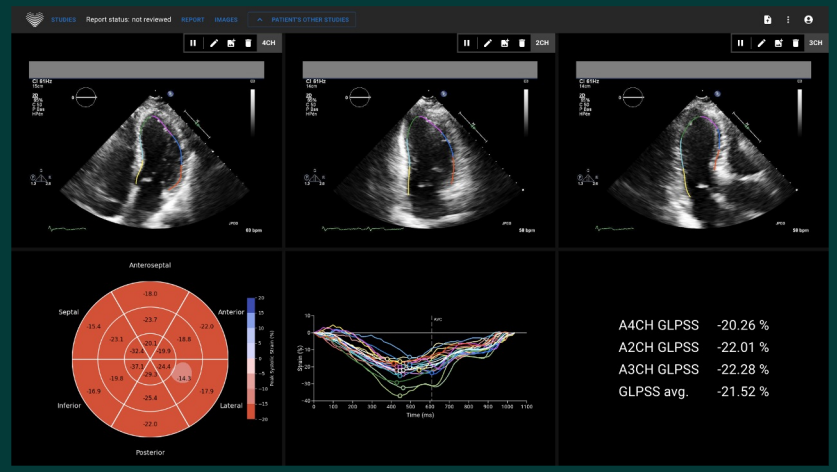
Aortic stenosis

AV Peak Vel
AV PG
AV MG
AV VTI
LVOT Peak Vel
LVOT VTI
LVOTd

HCM/Amyloidosis

MV E, MV A,
Med E', Lat E'
TR PG
LVEF HCM
LA Volume
LVIDd, IVS, LVPWd
LV GLS





*Depending on region

Technical requirements

Server-side requirements

Users	CPU cores	RAM	Storage	Network
5	8 (16 threads)	32	500 GB	200 Mbit/s
10	12 (24 threads)	48	750 GB	500 Mbit/s
20	14 (28 threads)	62	1000 GB	1 Gbit/s
20++	+1 core per 10 users	+4 GB per 10 users	+ 25 GB per 10 users	1 Gbit/s

Supports OS: Ubuntu v22 or v24

Client-side requirements

- Processor: 2.33GHz or higher x64-compatible (2 CPUs)
- Memory: 16+ GB
- Network Interface: 100 Mbit/s
- Supported browsers: Google Chrome and Firefox

Users and partners

Our current users and partners

Marketplaces

deepc

CARPL

Hospitals and research centers

Yale-New Haven Hospital

Johns Hopkins Medicine

NHS Guy's and St Thomas' NHS Foundation Trust

Herzzentrum Dresden

Northwestern Memorial Hospital

Krakowski Szpital Specjalistyczny im. św. Jana Pawła II

King's College London

NEKO

Rutgers The State University of New Jersey

Manufacturers / PACS

SECTRA

Knowledge and passion

esaote

User Feedback



Dr René Nkoulou
Genève

“Ligence Heart offers significant time savings in my daily clinical practice. I am saving 15 min per every patient, which makes a huge difference.”



Dr Corina Vasile
CHU Bordeaux

“Ligence Heart reduces the tedious repetitive tasks, while consistently delivering good results in the pediatric population, where other products fail.”

Software provider comparison

	Ligence	**US2.AI**	**TomTec Arena**	**GE EchoPac**
Price	$	$$	$$$	$$$
Report automation	Yes	Yes	No	No
Vendor agnostic	Yes	Yes	No	No
Legacy device support	Yes	No	No	No

Scientific work



Dr. Corina Vasile
CHU Bordeaux

“A good agreement between AI and physicians for LVEF evaluation in patients over 9 years old”

doi:10.3390/jcm12093209



Dr. Krunoslav Sveric
Dresden Herrzentrum

“AI showed strong agreement for LV mass evaluation when compared with CT”

doi:10.1093/ehjci/jeae333.039



Dr. Patrycja Mołek-Dziadosz
St. John Paul II Hospital

“AI-based analysis showed similar LVEF assessment results as human expert analysis in comparison with CMR”

doi:10.20452/pamw.17104



Dr. Arnas Karužas
LUHSH Kaunas clinics

“AI software showed close agreement with experienced readers for aortic measurements, while providing better reproducibility"

doi:10.1111/echo.15475

A workflow, that makes sense.

Let’s talk!



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