Transducers

ACUSON Sequoia ultrasound system

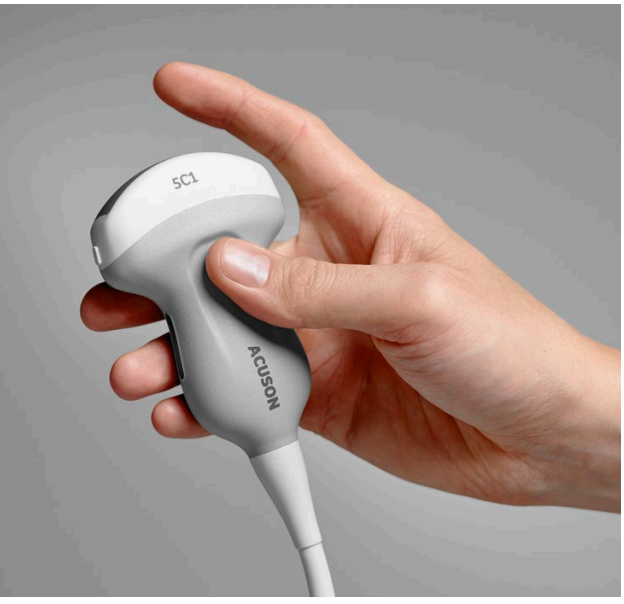
Version VA25 SW

siemens-healthineers.com/sequoia

SIEMENS Healthineers

See More.
Know More.
Do More.

ACUSON Sequoia offers 17 transducers leveraging Siemens Healthineers unique new InTune transducer design and architecture for optimal performance.



Contents

Curved

5C1 Transducer

Form factor	Curved
Design	1D, Single Crystal
Gesture detection	Yes
Bandwidth	1.0–5.7 MHz
Axial and lateral resolution	0.67 and 1.2 mm
Field of view	72 deg
Physical footprint	63.3 x 18.2 mm
Total weight	743 g

9C3 Transducer

Form factor	Curved
Design	1D, Hanafy, Piezoceramic
Gesture detection	Yes
Bandwidth	2.2–9.2 MHz
Axial and lateral resolution	0.56 and 0.96 mm
Field of view	79 deg
Physical footprint	69.6 x 20.5 mm
Total weight	780 g

11M3 Transducer

Form factor	Curved
Design	1D, Single Crystal
Gesture detection	No
Bandwidth	2.7–10.7 MHz
Axial and lateral resolution	0.4 and 0.8 mm
Field of view	100 deg
Physical footprint	26.5 x 8.15 mm
Total weight	700 g

DAX Transducer

Form factor	Curved
Design	Multi-D, Piezoceramic
Gesture detection	Yes
Bandwidth	1.0–3.5 MHz
Axial and lateral resolution	0.8 and 2.3 mm
Field of view	50 deg
Physical footprint	57.7 x 30.2 mm
Total weight	848 g

Linear

7L2 Transducer

Form factor	Linear
Design	1D, Single Crystal
Gesture detection	Yes
Bandwidth	1.7–8 MHz
Axial and lateral resolution	0.3 and 0.7 mm
Field of view	42.2 mm
Physical footprint	50 x 16 mm
Total weight	680 g

10L4 Transducer

Form factor	Linear
Design	Multi-D, Piezoceramic
Gesture detection	Yes
Bandwidth	2.9–9.9 MHz
Axial and lateral resolution	0.3 and 0.52 mm
Field of view	38 mm
Physical footprint	49.3 x 18.9 mm
Total weight	723 g

14L5 Transducer

Form factor	Linear
Design	Multi-D, Piezoceramic
Gesture detection	Yes
Bandwidth	4.8–13.6 MHz
Axial and lateral resolution	0.3 and 0.38 mm
Field of view	38 mm
Physical footprint	49.6 x 12.9 mm
Total weight	727 g

18H6 Transducer

Form factor	Linear
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	5.5–21.10 MHz
Axial and lateral resolution	0.2 and 0.23 mm
Field of view	28 mm
Physical footprint	13.6 x 40.4 mm
Total weight	630 g

18L6 Transducer

Form factor	Linear
Design	1D, Hanafy, Piezoceramic
Gesture detection	Yes
Bandwidth	4.6–17.8 MHz
Axial and lateral resolution	0.3 and 0.43 mm
Field of view	58 mm
Physical footprint	69.2 x 16.5 mm
Total weight	762 g

Endocavity

9EC4 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Gesture detection	Yes
Bandwidth	2.9–8.1 MHz
Axial and lateral resolution	0.46 and 0.8 mm
Field of view	176 deg
Physical footprint	17.0 x 22.0 mm
Total weight	700 g

9VE4 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Gesture detection	Yes
Bandwidth	3.2–9.9 MHz
Axial and lateral resolution	03. and 0.7 mm
Field of view	165 x 145 deg
Physical footprint	24 x 24 mm
Total weight	1200 g

Vector

4V1 Transducer

Form factor	Vector
Design	1D, Hanafy, Piezoceramic
Gesture detection	N/A
Bandwidth	1.4–5.1 MHz
Axial and lateral resolution	0.9 and 1.1 mm
Field of view	90 deg
Physical footprint	35.5 x 20.2 mm
Total weight	639 g

5V1 Transducer

Form factor	Vector
Design	1D, Single Crystal
Gesture detection	Yes
Bandwidth	1.1–4.9 MHz
Axial and lateral resolution	1.06 and 3.72 mm
Field of view	90 deg
Physical footprint	27.2 x 18.7 mm
Total weight	640 g

8V3 Transducer

Form factor	Vector
Design	1D, Hanafy, Piezoceramic
Gesture detection	N/A
Bandwidth	2.1–8.3 MHz
Axial and lateral resolution	0.59 and 0.79 mm
Field of view	90 deg
Physical footprint	26.9 x 16.6 mm
Total weight	644 g

10V4 Transducer

Form factor	Vector
Design	1D, Hanafy, Piezoceramic
Gesture detection	N/A
Bandwidth	3.4–10.4 MHz
Axial and lateral resolution	0.34 and 0.62 mm
Field of view	90 deg
Physical footprint	22.6 x 14.3 mm
Total weight	585 g

Pencil

CW2 Transducer

Form factor	Pencil
Design	N/A
Gesture detection	N/A
Bandwidth	N/A
Axial and lateral resolution	N/A
Field of view	N/A
Physical footprint	17.0 mm
Total weight	185 g

CW5 Transducer

Form factor	Pencil
Design	N/A
Gesture detection	N/A
Bandwidth	N/A
Axial and lateral resolution	N/A
Field of view	N/A
Physical footprint	11.3 mm
Total weight	191 g

Table 1: Selectable Frequencies[1]

Transducer	2D Fundamental	THI	Color Doppler	PW Doppler	Contrast
5C1	Pen, Low, Mid, High	Pen, Low, Mid, High	Pen, Low, Mid, High, Res	Low, Mid	Low, Mid, High
9C3	Low, Mid, High	Low, Mid, High	Pen, Mid, Res	Low, Mid, High	Low, Mid
11M3	Low, Mid, High	H Low, H Mid, H High	Low, Mid, High	Low, High	Low, High
DAX	Pen, Low, Mid	Pen, Low, Mid	Pen, Mid, Res	Pen, Low	Pen, Mid, High
7L2	Low, Mid, High	H Low, H Mid, H High	Pen, Low, Mid, High	Low, Mid	Pen, Low, Mid, High
10L4	Low, Mid, High	Low, Mid, High	Pen, Mid, High, Res	Low, Mid	Low, Mid, High
14L5	Low, Mid, High	Low, Mid, High	Pen, Mid, Res	Low, Mid	Low, Mid
18H6	Mid, High	High	Mid, High, Res	Mid, High	Low, Mid
18L6	Low, Mid, High	Low, Mid, High	Pen, Mid, Res	Low, Mid, High	Low, Mid
9EC4	Low, Mid, High	Low, Mid, High	Pen, Mid, High, Res	Low, Mid, High	Low, Mid
9VE4	Low, Mid, High	H Low, H Mid, H High	Low, Mid, High	Low, Mid	Low, Mid, High
4V1	Low, Mid, High	Low, Mid, High	Pen, Mid, Res	Low, Mid	Low, Mid, High
5V1	Pen	Low, Mid, High	Pen, Mid, Res	Low	Pen, Low, Mid
8V3	Low, Mid, High, Res	Mid, High	Pen, Mid, High, Res	Low, Mid, High	Low, Mid, High
10V4	Low, Mid, High	Low, Mid	Low, Mid, High	Low, Mid, High	Low, Mid, High

[1] *System specific*

Table 2: Cable Length

Transducer	Cable Length
5C1	2.1 m
9C3	2.1 m
11M3	2.4 m
DAX	2.7 m
7L2	2.3 m
10L4	2.1 m
14L5	2.1 m
18H6	2.1 m
18L6	2.1 m
9EC4	2.2 m
9VE4	2.5 m
4V1	1.9 m
5V1	2.1 m
8V3	2.2 m
10V4	2.2 m
CW2	1.88 m
CW5	2.1 m

Table 3: Connector Type

Transducer	Connector
5C1	Compact pinless connector
9C3	Compact pinless connector
11M3	Compact pinless connector
DAX	Compact pinless connector
7L2	Compact pinless connector
10L4	Compact pinless connector
14L5	Compact pinless connector
18H6	Compact pinless connector
18L6	Compact pinless connector
9EC4	Compact pinless connector
9VE4	Compact pinless connector
4V1	Compact pinless connector
5V1	Compact pinless connector
8V3	Compact pinless connector
10V4	Compact pinless connector
CW2	Hirose
CW5	Hirose

Table 4: Needle Guide

Transducer	Product Description	Guidance Angle Selection – Depth
5C1	Verza™ needle guidance system	1 – 2.2 cm 2 – 3.8 cm 3 – 6.1 cm 4 – 9.9 cm 5 – 15.0 cm
9C3	Ultra-Pro II™ needle guide	A – 5 cm B – 10 cm
DAX	Verza needle guidance system	1 – 2.4 cm 2 – 4.1 cm 3 – 6.4 cm 4 – 9.9 cm 5 – 15 cm
7L2	Verza needle guidance system	1 – 2.26 cm 2 – 3.6 cm 3 – 5.4 cm 4 – 8.4 cm 5 – 12.5 cm
10L4	Verza needle guidance system	1 – 2.2 cm 2 – 3.6 cm 3 – 5.6 cm 4 – 8.6 cm 5 – 13 cm
14L5	Verza needle guidance system	1 – 1.8 cm 2 – 3.0 cm 3 – 4.3 cm 4 – 6.4 cm 5 – 8.9 cm
18L6	Ultra-Pro II needle guide	A – 2.1 cm B – 5.4 cm
9EC4	Disposable endocavity needle guide – 24 pack	1° Needle Path angle
9EC4	Reusable endocavity needle guide	1° Needle Path angle
4V1	Ultra-Pro II needle guide	A – 5 cm B – 10 cm

Table 5: Fusion – Needle Tracking

Product Description
eTRAX™ needle tip tracking guidance system – 12GA
eTRAX needle tip tracking guidance system – 14GA
eTRAX needle tip tracking guidance system – 16GA
eTRAX needle tip tracking guidance system – 18GA

Table 6: Advanced Applications

Transducer	Strain Elastography	Point Shear Wave Elastography	2D Shear Wave Elastography	Contrast Imaging	Fusion Imaging
5C1	N/A	Yes	Yes	Yes	Yes
9C3	N/A	N/A	N/A	Yes	N/A
11M3	N/A	N/A	N/A	Yes	N/A
DAX	N/A	Yes	Yes	Yes	Yes
7L2	N/A	N/A	N/A	Yes	N/A
10L4	Yes	Yes	Yes	Yes	Yes
14L5	Yes	N/A	N/A	Yes	N/A
18H6	N/A	N/A	N/A	Yes	N/A
18L6	Yes	N/A	Yes	Yes	N/A
9EC4	Yes	N/A	N/A	Yes	N/A
9VE4	N/A	N/A	N/A	Yes	N/A
4V1	N/A	Yes	N/A	Yes	Yes
5V1	N/A	N/A	N/A	Yes	N/A
8V3	N/A	N/A	N/A	N/A	N/A
10V4	N/A	N/A	N/A	N/A	N/A

The products/features mentioned in this document may not be commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey towards expanding precision medicine, transforming care delivery, and improving patient experience, all enabled by digitalizing healthcare.

An estimated five million patients worldwide everyday benefit from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics and molecular medicine as well as digital health and enterprise services.

We're a leading medical technology company with over 120 years of experience and 18,500 patents globally. With over 50,000 employees in more than 70 countries, we'll continue to innovate and shape the future of healthcare.

Siemens Healthineers Headquarters
Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany
Phone: +49 9131 84-0
siemens-healthineers.com

Legal Manufacturer
Siemens Medical Solutions USA, Inc.
Ultrasound
22010 S.E. 51st Street
Issaquah, WA 98029, USA
Phone: 1-888-826-9702
siemens-healthineers.com/ultrasound

Published by Siemens Medical Solutions USA, Inc. · 9484 1220 online ·