Transducers

ACUSON Sequoia ultrasound system

Version VA11 SW

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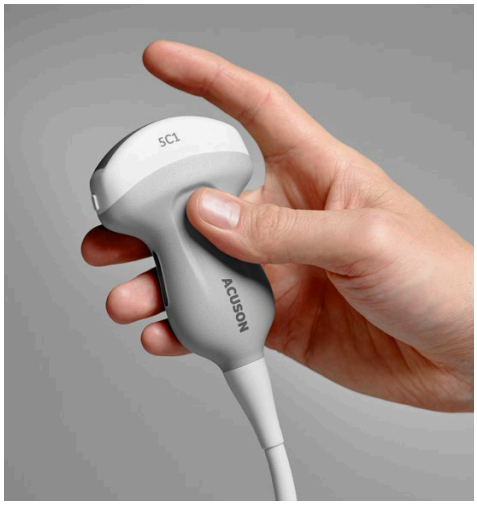
SIEMENS Healthineers

Taking ultrasound to new heights

ACUSON Sequoia offers 11 transducers leveraging Siemens Healthineers unique new InTune transducer design and architecture for optimal performance.



Contents

Curved

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
Maximum depth	Up to 30 cm
Field of view	79 deg
Physical footprint	69.6 x 20.5 mm
Total weight	780 g

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
Maximum depth	Up to 30 cm
Field of view	72 deg
Physical footprint	63.3 x 18.2 mm
Total weight	743 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
Maximum depth	Up to 40 cm
Field of view	50 deg
Physical footprint	57.7 x 30.2 mm
Total weight	848 g

Linear

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
Maximum depth	Up to 6 cm
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
Maximum depth	Up to 8 cm
Field of view	58 mm
Physical footprint	69.2 x 16.5 mm
Total weight	762 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
Maximum depth	Up to 8 cm
Field of view	38 mm
Physical footprint	49.6 x 12.9 mm
Total weight	727 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
Maximum depth	Up to 14 cm
Field of view	38 mm
Physical footprint	49.3 x 18.9 mm
Total weight	723 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
Maximum depth	Up to 14 cm
Field of view	176 deg
Physical footprint	17.0 x 22.0 mm
Total weight	700 g

Vector

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
Maximum depth	Up to 14 cm
Field of view	90 deg
Physical footprint	22.6 x 14.3 mm
Total weight	585 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
Maximum depth	Up to 24 cm
Field of view	90 deg
Physical footprint	26.9 x 16.6 mm
Total weight	644 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
Maximum depth	Up to 30 cm
Field of view	90 deg
Physical footprint	27.2 x 18.7 mm
Total weight	640 g

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
Maximum depth	Up to 30 cm
Field of view	90 deg
Physical footprint	35.5 x 20.2 mm
Total weight	639 g

Pencil

CW2 Transducer

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

Table 1: Selectable Frequencies[1]

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

[1] *System specific*

Table 2: Cable Length

Transducer	Cable Length
9C3	2.1 m
5C1	2.1 m
DAX	2.7 m
18L6	2.1 m
14L5	2.1 m
10L4	2.1 m
9EC4	2.2 m
8V3	2.2 m
5V1	2.1 m
4V1	1.9 m

Table 3: Connector Type

Transducer	Connector
9C3	Compact pinless connector
5C1	Compact pinless connector
DAX	Compact pinless connector
18L6	Compact pinless connector
14L5	Compact pinless connector
10L4	Compact pinless connector
9EC4	Compact pinless connector
8V3	Compact pinless connector
5V1	Compact pinless connector
4V1	Compact pinless connector
CW2	Hirose

Table 4: Needle Guide

Transducer	Product Description	Guidance Angle Selection – Depth
9C3	Ultra-Pro II Bracket Stater Kit	A – 5 cm B – 10 cm
5C1	Verza Tracking Bracket Starter Kit	1 – 2.2 cm 2 – 3.8 cm 3 – 6.1 cm 4 – 9.9 cm 5 – 15.0 cm
DAX	Verza Tracking Bracket Starter Kit	1 – 2.4 cm 2 – 4.1 cm 3 – 6.4 cm 4 – 9.9 cm 5 – 15 cm
18L6	Ultra-Pro II Bracket Starter Kit	A – 2.1 cm B – 5.4 cm
14L5	Verza Bracket Starter Kit	1 – 1.8 cm 2 – 3.0 cm 3 – 4.3 cm 4 – 6.4 cm 5 – 8.9 cm
10L4	Verza Tracking Bracket Starter Kit	1 – 2.2 cm 2 – 3.6 cm 3 – 5.6 cm 4 – 8.6 cm 5 – 13 cm
9EC4	Disposable Endocavity Guide Kit – 24 pack	1° Needle Path angle
9EC4	Reusable Endocavity Guide	1° Needle Path angle
4V1	Ultra-Pro II Tracking Bracket Starter Kit	A – 5 cm B – 10 cm

Table 5: Fusion – eTRAX Needle Tracking

Product Description
12GA eTRAX Starter Kit
14GA eTRAX Starter Kit
16GA eTRAX Starter Kit
18GA eTRAX Starter Kit

Table 6: Advanced Applications

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

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Published by Siemens Medical Solutions USA, Inc. · Order No. A91US-561-1C-4A00 · Printed in Germany · 9117 0420 ·