



Transducers

ACUSON Sequoia ultrasound system

(v3.5)

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ACUSON Sequoia offers 25 transducers leveraging Siemens Healthineers unique InTune transducer technology and design for optimal performance.



Contents

Curved	3
Linear	7
Endocavity	11
Vector	13
Matrix	15
Pencil	16

Curved



5C1 Transducer

Form factor	Curved
Design	1D, Single Crystal
Number of elements	180
Gesture detection	Yes
Bandwidth	1.0–5.7 MHz
Axial and lateral resolution	0.67 mm and 1.2 mm
Field of view	Default FOV: 70 deg Wide FOV: 100 deg
Physical footprint	63.3 x 18.2 mm
Total weight	743 g
Maximum depth	400 mm



7VC2 Transducer

Form factor	Curved
Design	Volume Transducer
Number of elements	192
Gesture detection	Yes
Bandwidth	1.8–6.9 MHz
Axial and lateral resolution	0.64 mm and 0.82 mm
Field of view	74 x 85 deg
Physical footprint	70 x 45 mm
Total weight	1,200 g
Maximum depth	300 mm



9C2 Transducer

Form factor	Curved
Design	1D, Single Crystal
Number of elements	192
Gesture detection	Yes
Bandwidth	1.4–8.5 MHz
Axial and lateral resolution	0.52 mm and 1.02 mm
Field of view	86 deg
Physical footprint	56.2 x 15.5 mm
Total weight	671 g
Maximum depth	300 mm



9C3 Transducer

Form factor	Curved
Design	1D, Hanafy, Piezoceramic
Number of elements	384
Gesture detection	Yes
Bandwidth	2.2–9.2 MHz
Axial and lateral resolution	0.56 mm and 0.96 mm
Field of view	100 deg
Physical footprint	69.6 x 20.5 mm
Total weight	780 g
Maximum depth	300 mm



11M2 Transducer

Form factor	Micro-convex
Design	1D, Single Crystal
Number of elements	192
Gesture detection	Yes
Bandwidth	3.1–8.5 MHz
Axial and lateral resolution	0.27 mm and 0.51 mm
Field of view	Standard FOV: 25–100 deg Wide FOV: 100–130 deg Default FOV: 85 deg
Physical footprint	34.4 x 13.7 mm
Total weight	660 g
Maximum depth	140 mm



11M3 Transducer

Form factor	Micro-convex
Design	1D, Single Crystal
Number of elements	192
Gesture detection	N/A
Bandwidth	2.7–10.7 MHz
Axial and lateral resolution	0.4 mm and 0.8 mm
Field of view	100 deg
Physical footprint	26.5 x 8.15 mm
Total weight	700 g
Maximum depth	140 mm



DAX Transducer

Form factor	Curved
Design	Multi-D, Piezoceramic
Number of elements	96 per row (288 total)
Gesture detection	Yes
Bandwidth	1.0–3.5 MHz
Axial and lateral resolution	0.8 mm and 2.3 mm
Field of view	70 deg
Physical footprint	57.7 x 30.2 mm
Total weight	848 g
Maximum depth	550 mm (55 cm)

Linear



HLX Transducer

Form factor	Linear
Design	1D Array
Number of elements	256
Gesture detection	Yes
Bandwidth	6–22 MHz
Axial and lateral resolution	0.1 mm and 0.2 mm
Field of view	34.8 mm
Physical footprint	46.6 x 11.5 mm
Total weight	744 g
Maximum depth	80 mm



7L2 Transducer

Form factor	Linear
Design	1D, Single Crystal
Number of elements	192
Gesture detection	Yes
Bandwidth	1.7–8 MHz
Axial and lateral resolution	0.3 mm and 0.7 mm
Field of view	42.2 mm
Physical footprint	50 x 16 mm
Total weight	680 g
Maximum depth	200 mm



10L4 Transducer

Form factor	Linear
Design	Multi-D, Piezoceramic
Number of elements	576
Gesture detection	Yes
Bandwidth	2.9–9.9 MHz
Axial and lateral resolution	0.29 mm and 0.50 mm
Field of view	38 mm
Physical footprint	49.3 x 18.9 mm
Total weight	723 g
Maximum depth	140 mm



14L5 Transducer

Form factor	Linear
Design	Multi-D, Piezoceramic
Number of elements	576
Gesture detection	Yes
Bandwidth	4.8–13.6 MHz
Axial and lateral resolution	0.3 mm and 0.38 mm
Field of view	38 mm
Physical footprint	49.6 x 12.9 mm
Total weight	727 g
Maximum depth	80 mm



15L4 Transducer

Form factor	Linear
Design	Multi-D, Piezoceramic
Number of elements	960
Gesture detection	Yes
Bandwidth	3.5–15.1 MHz
Axial and lateral resolution	0.20 mm and 0.29 mm
Field of view	50 mm
Physical footprint	60 x 17 mm
Total weight	763 g
Maximum depth	80 mm



18H6 Transducer

Form factor	Linear
Design	1D, Piezoceramic
Number of elements	192
Gesture detection	N/A
Bandwidth	5.5–21.10 MHz
Axial and lateral resolution	0.2 mm and 0.23 mm
Field of view	28.8 mm
Physical footprint	40.4 x 13.6 mm
Total weight	630 g
Maximum depth	60 mm



18L6 Transducer

Form factor	Linear
Design	1D, Hanafy, Piezoceramic
Number of elements	576
Gesture detection	Yes
Bandwidth	4.4–18.2 MHz
Axial and lateral resolution	0.3 mm and 0.43 mm
Field of view	58 mm
Physical footprint	69.2 x 16.5 mm
Total weight	762 g
Maximum depth	80 mm

Endocavity



9EC4 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Number of elements	192
Gesture detection	Yes
Bandwidth	2.9–8.1 MHz
Axial and lateral resolution	0.46 mm and 0.8 mm
Field of view	176 deg
Physical footprint	17.0 x 22.0 mm
Total weight	700 g
Maximum depth	140 mm



9VE4 Transducer

Form factor	Curved
Design	Volume Transducer
Number of elements	192
Gesture detection	Yes
Bandwidth	3.2–9.9 MHz
Axial and lateral resolution	0.3 mm and 0.7 mm
Field of view	165 x 145 deg
Physical footprint	24 x 24 mm
Total weight	1,200 g
Maximum depth	160 mm



10EV3 Transducer

Form factor	Curved
Design	1D, Single Crystal
Number of elements	180
Gesture detection	Yes
Bandwidth	2.7–9.9 MHz
Axial and lateral resolution	0.30 mm and 0.78 mm
Field of view	160 deg
Physical footprint	25.1 x 20.1 mm
Total weight	800 g
Maximum depth	160 mm

Vector wide-view imaging format



4V1 Transducer

Form factor	Vector
Design	1D, Hanafy, Piezoceramic
Number of elements	128
Gesture detection	N/A
Bandwidth	1.4–4.9 MHz
Axial and lateral resolution	0.9 mm and 1.1 mm
Field of view	87 deg
Physical footprint	35.5 x 20.2 mm
Total weight	639 g
Maximum depth	300 mm



5V1 Transducer

Form factor	Vector
Design	1D, Single Crystal
Number of elements	96
Gesture detection	Yes
Bandwidth	1.1–4.9 MHz
Axial and lateral resolution	0.88 mm and 1.08 mm
Field of view	90 deg
Physical footprint	27.2 x 18.7 mm
Total weight	640 g
Maximum depth	300 mm



8V3 Transducer

Form factor	Vector
Design	1D, Hanafy, Piezoceramic
Number of elements	128
Gesture detection	N/A
Bandwidth	2.1–8.3 MHz
Axial and lateral resolution	0.59 mm and 0.79 mm
Field of view	90 deg
Physical footprint	26.9 x 16.6 mm
Total weight	644 g
Maximum depth	240 mm



10V4 Transducer

Form factor	Vector
Design	1D, Hanafy, Piezoceramic
Number of elements	128
Gesture detection	N/A
Bandwidth	3.4–10.4 MHz
Axial and lateral resolution	0.34 mm and 0.62 mm
Field of view	90 deg
Physical footprint	22.6 x 14.3 mm
Total weight	585 g
Maximum depth	140 mm

Matrix



5Z1 Transducer

Form factor	Vector
Design	Matrix, Single Crystal, Volume
Number of elements	2304
Gesture detection	Yes
Bandwidth	0.9–3.8 MHz
Axial and lateral resolution	1.11 mm and 1.35 mm
Field of view	90 deg for 2D 90 x 90 deg for 4D
Physical footprint	25.9 x 19.9 mm
Total weight	855 g (Probe handle: 120 g)
Maximum depth	300 mm (30 cm)



Z6T Transducer

Form factor	Vector Transesophageal (TEE)
Design	Matrix, Single Crystal, Volume
Number of elements	2304
Articulation planes	Anterior/Posterior, Left/Right
Bandwidth	2.3–6.8 MHz
Axial and lateral resolution	0.3 mm and 1.7 mm
Field of view	90 deg x 90 deg
Physical footprint	15.6 x 11.8 mm
Total weight	1,400 g
Maximum depth	260 mm (26 cm)

Pencil



CW5 Transducer

Form factor	Pencil
Design	N/A
Number of elements	2
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



CW2 Transducer

Form factor	Pencil
Design	N/A
Number of elements	2
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

¹ System-specific

Table 1: Selectable frequencies¹

Transducer	2D Fundamental	THI	Color Doppler	PW Doppler	Contrast
5C1	Pen, Low, Mid, High	H Pen, H Low, H Mid, H High	Pen, Low, Mid, High, Res	Low, Mid	Low, Mid, High
7VC2	High, Mid, Low	H High, H Mid, H Low, H Pen	High, Mid, Low	High, Mid, Low	High, Low
9C2	High, Mid, Low	H High, H Mid, H Low	High, Mid, Low	High, Mid, Low	High, Mid, Low
9C3	Low, Mid, High	H Low, H Mid, H High	Pen, Mid, Res	Low, Mid, High	Low, Mid
11M2	Low, Mid, High	H Low, H Mid, H High	Low, Mid, High	Low, High	Low, High
11M3	Low, Mid, High	H Low, H Mid, H High	Low, Mid, High	Low, High	Low, High
DAX	Pen, Low, Mid	H Pen, H Low, H Mid	Pen, Mid, Res	Pen, Low	Pen, Mid, High
HLX	Low, Mid, High	H Low, H Mid, H High	Pen, Mid, Res	Low, Mid, High	Low, Mid
7L2	Low, Mid, High	H Low, H Mid, H High	Pen, Low, Mid, High	Low, Mid	Pen, Low, Mid, High
10L4	Low, Mid, High	H Low, H Mid, H High	Pen, Mid, High, Res	Low, Mid	Low, Mid, High
14L5	Low, Mid, High	H Low, H Mid, H High	Pen, Mid, Res	Low, Mid	Low, Mid
15L4	High, Mid, Low	H High, H Mid, H Low	High, Mid, Low	High, Mid, Low, Pen	High, Mid, Low
18H6	Mid, High	H High	Mid, High, Res	Mid, High	Low, Mid
18L6	Low, Mid, High	H Low, H Mid, H High	Pen, Mid, Res	Low, Mid, High	Low, Mid
9EC4	Low, Mid, High	H Low, H Mid, H 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
10EV3	Res, High, Mid, Low, Pen	H High, H Mid, H Low	High, Mid, Low	Mid, Low	Low, Mid, High
4V1	Low, Mid, High	H Low, H Mid, H High	Pen, Mid, Res	Low, Mid	Low, Mid, High
5V1	Pen	H Low, H Mid, H High	Pen, Mid, Res	Low	Pen, Low, Mid
8V3	Low, Mid, High, Res	H Mid, H High	Pen, Mid, High, Res	Low, Mid, High	Low, Mid, High
10V4	Low, Mid, High	H Low, H Mid	Low, Mid, High	Low, Mid, High	Low, Mid, High
5Z1	Pen, Low, Mid, High	Low, H Mid, H High	Pen, Low, Mid, High, Res	Low, High	Low, Mid, High
Z6T	Pen, Mid, Res	H Mid	Low, Mid, High, Res	Low, High	N/A

¹ System-specific

Table 2: Cable length

Transducer	Cable Length
5C1	2.1 m
7VC2	2.1 m
9C2	2.1 m
9C3	2.1 m
11M2	2.1 m
11M3	2.4 m
DAX	2.7 m
HLX	2.1 m
7L2	2.3 m
10L4	2.1 m
14L5	2.1 m
15L4	2.1 m
18H6	2.1 m
18L6	2.1 m
9EC4	2.2 m
9VE4	2.5 m
10EV3	2.2 m
4V1	1.9 m
5V1	2.1 m
8V3	2.2 m
10V4	2.2 m
CW2	1.9 m
CW5	2.1 m
5Z1	2.1 m
Z6T	3.4 m

Table 3: Connector type

Transducer	Connector
5C1	Compact pinless connector
7VC2	Compact pinless connector
9C2	Compact pinless connector
9C3	Compact pinless connector
11M2	Compact pinless connector
11M3	Compact pinless connector
DAX	Compact pinless connector
HLX	Compact pinless connector
7L2	Compact pinless connector
10L4	Compact pinless connector
14L5	Compact pinless connector
15L4	Compact pinless connector
18H6	Compact pinless connector
18L6	Compact pinless connector
9EC4	Compact pinless connector
9VE4	Compact pinless connector
10EV3	Compact pinless connector
4V1	Compact pinless connector
5V1	Compact pinless connector
8V3	Compact pinless connector
10V4	Compact pinless connector
CW2	Hirose
CW5	Hirose
5Z1	Compact pinless connector
Z6T	Compact pinless connector

Table 4: Fusion – Needle tracking

Product Description

CIVCO eTRAX needle tip tracking guidance system – 12 GA

CIVCO eTRAX needle tip tracking guidance system – 14 GA

CIVCO eTRAX needle tip tracking guidance system – 16 GA

CIVCO eTRAX needle tip tracking guidance system – 18 GA

Table 5: Needle guide

Supports on-screen display and minimum needle length tool

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
9C2	Verza needle guidance system	1–1.8 cm
		2–3.3 cm
		3–5.2 cm
		4–8.2 cm
		5–12.1 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

Transducer	Product Description	Guidance Angle Selection – Depth
HLX	Civco Infiniti Plus	No fixed angle
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
15L4	Verza needle guidance system	1–2.0 cm
		2–3.3 cm
		3–4.8 cm
		4–7.0 cm
		5–9.3 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
9VE4	Disposable endocavity needle guide – 24 pack	2° Needle Path angle
10EV3	Disposable endovaginal needle guide – 24 pack	0° Needle Path angle
	Reusable endovaginal needle guide	0° Needle Path angle
4V1	Ultra-Pro II needle guide	A–5 cm B–10 cm

Table 6: Advanced applications

Transducer	Strain Elastography	Auto Point Shear Wave Elastography	Point Shear Wave Elastography	2D Shear Wave Elastography	Contrast Imaging
5C1	–	–	–	Yes	Yes
7VC2	–	–	–	–	Yes
9C2	–	Yes	Yes	Yes	Yes
9C3	–	–	–	–	Yes
11M2	–	–	–	–	Yes
11M3	–	–	–	–	Yes
DAX	–	Yes	Yes	Yes	Yes
HLX	Yes	–	–	Yes	Yes
7L2	–	–	–	–	Yes
10L4	Yes	–	Yes	Yes	Yes
14L5	Yes	–	–	–	Yes*
15L4	Yes	–	–	Yes	Yes*
18H6	–	–	–	–	Yes
18L6	Yes	–	–	Yes	Yes*
9EC4	Yes	–	–	–	Yes*
9VE4	–	–	–	–	Yes*
10EV3	–	–	–	–	Yes*
4V1	–	–	Yes	–	Yes
5V1	–	–	–	–	Yes
8V3	–	–	–	–	Yes
10V4	–	–	–	–	Yes
5Z1	–	–	–	–	Yes
Z6T	–	–	–	–	–

Note: Transducers indicated with an asterisk () are not compatible with contrast agent imaging in the United States of America.

Table 6: Advanced applications continued

Transducer	AI Abdomen	Ultrasound Derived Fat Fraction	Directional Power Doppler	Slow Flow Doppler	Fusion Imaging
5C1	Yes	Yes	Yes	Yes	Yes
7VC2	Yes	–	Yes	Yes	–
9C2	Yes	Yes	Yes	Yes	–
9C3	Yes	–	Yes	–	–
11M2	Yes	–	–	Yes	–
11M3	Yes	–	Yes	–	–
DAX	Yes	Yes	Yes	–	Yes
HLX	–	–	Yes	Yes	–
7L2	Yes	–	Yes	–	–
10L4	Yes	–	Yes	–	Yes
14L5	–	–	Yes	–	–
15L4	–	–	Yes	Yes	–
18H6	–	–	Yes	–	–
18L6	–	–	Yes	Yes	–
9EC4	–	–	Yes	–	–
9VE4	–	–	Yes	–	–
10EV3	–	–	Yes	Yes	–
4V1	Yes	–	Yes	–	Yes
5V1	–	–	Yes	–	–
8V3	Yes	–	Yes	–	–
10V4	Yes	–	Yes	–	–
5Z1	–	–	Yes	–	–
Z6T	–	–	–	–	–

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We are a team of 73,000 Healthineers in over 70 countries passionately pushing the boundaries of what is possible in healthcare to help improve the lives of people around the world.

¹ Personalization of diagnosis, therapy selection and monitoring, aftercare, and managing health.

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