Transducers

ACUSON Maple Ultrasound System

Release 1.0

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SIEMENS Healthineers

ACUSON Maple

Contents

Curved

5C1a Transducer

Form factor	Curved
Design	1D, Hanafy, Piezoceramic
Number of Elements	128
Bandwidth	1.4–5.0 MHz
Axial and Lateral resolution	0.5 mm x 2.0 mm
Max. depth	350 mm
Field of view	70 deg
Physical footprint	22.8 mm x 70.6 mm
Total weight	488 g

C5-2v Transducer

Form factor	Curved
Design	1D, Piezoceramic
Number of Elements	128
Bandwidth	1.7–4.9 MHz
Axial and Lateral resolution	2 mm x 3 mm
Max. depth	300 mm
Field of view	68 deg
Physical footprint	31 mm x 80 mm
Total weight	450 g

7C2 Transducer

Form factor	Curved
Design	1D, Hanafy, Piezoceramic
Number of Elements	192
Bandwidth	2.1–7.0 MHz
Axial and Lateral resolution	0.5 mm x 1.0 mm
Max. depth	300 mm
Field of view	70 deg
Physical footprint	22.9 mm x 70.6 mm
Total weight	548 g

9VC2 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Number of Elements	128
Bandwidth	1.8–8.5 MHz
Axial and Lateral resolution	2 mm x 2 mm
Max. depth	300 mm
Field of view	69 deg
Physical footprint	47 mm x 72 mm
Total weight	750 g

Linear

14L4a Transducer

Form factor	Linear
Design	1D, Piezoceramic
Number of Elements	256
Bandwidth	4.0–12.7 MHz
Axial and Lateral resolution	0.5 mm x 0.5 mm
Max. depth	160 mm
Field of view	150 mm
Physical footprint	12.9 mm x 60.3 mm
Total weight	409 g

16L4 Transducer

Form factor	Linear
Design	1D, Piezoceramic
Number of Elements	192
Bandwidth	4.3–15.4 MHz
Axial and Lateral resolution	0.5 mm x 0.5 mm
Max. depth	60 mm
Field of view	65 mm
Physical footprint	12.1 mm x 43.3 mm
Total weight	401 g

L10-5v Transducer

Form factor	Linear
Design	1D, Piezoceramic
Number of Elements	128
Bandwidth	4.2–12.0 MHz
Axial and Lateral resolution	0.5 mm x 0.5 mm
Max. depth	150 mm
Field of view	102 mm
Physical footprint	11.9 mm x 46.9 mm
Total weight	440 g

Endocavity

9VE4 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Number of Elements	128
Bandwidth	3.1–8.7 MHz
Axial and Lateral resolution	0.5 mm x 2.0 mm
Max. depth	160 mm
Field of view	145 deg
Physical footprint	26 mm x 26 mm
Total weight	800 g

10MC3 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Number of Elements	128
Bandwidth	3.5–10.2 MHz
Axial and Lateral resolution	0.5 mm x 0.5 mm
Max. depth	140 mm
Field of view	150 deg
Physical footprint	19 mm x 22.2 mm
Total weight	510 g

Micro-Convex

11M3 Transducer

Form factor	Micro-convex
Design	1D, Piezoceramic
Number of Elements	128
Bandwidth	3.5–11.0 MHz
Axial and Lateral resolution	1 mm x 1 mm
Max. depth	150 mm
Field of view	110 deg
Physical footprint	12.8 mm x 29 mm
Total weight	340 g

Phased Array

P4-2 Transducer

Form factor	Phased
Design	1D, Single Crystal
Number of Elements	96
Bandwidth	1.4–4.4 MHz
Axial and Lateral resolution	2 mm x 2 mm
Max. depth	300 mm
Field of view	90 deg
Physical footprint	24.1 mm x 30.1 mm
Total weight	459 g

Vector

5VT Transducer

Form factor	Vector
Design	1D, Piezoceramic
Number of Elements	64
Bandwidth	3.1–9.2 MHz
Axial and Lateral resolution	0.5 mm x 0.5 mm
Max. depth	240 mm
Field of view	90 deg
Physical footprint	14.8 mm x 11.6 mm
Total weight	1800g

8V4 Transducer

Form factor	Vector
Design	1D, Piezoceramic
Number of Elements	64
Bandwidth	2.7–8.0 MHz
Axial and Lateral resolution	0.5 mm x 1.0 mm
Max. depth	150 mm
Field of view	90 deg
Physical footprint	14.1 mm x 15.2 mm
Total weight	402 g

Pencil

CW2 Transducer

Form factor	Pencil
Design	1D, Piezoceramic
Bandwidth	N/A
Axial and Lateral resolution	N/A
Field of view	N/A
Physical footprint	17.1 mm
Total weight	181 g

CW5 Transducer

Form factor	Pencil
Design	1D, Piezoceramic
Bandwidth	N/A
Axial and Lateral resolution	N/A
Field of view	N/A
Physical footprint	12.0 mm
Total weight	190 g

Table 1: Selectable frequencies

Transducer	Fundamental	Harmonic	Color Doppler	PW Doppler	CW	DTI
5C1a	2.0, 2.5, 3.1, 4.0	3.1, 3.3, 3.6, 4.4	2.0, 2.7	2.0, 2.7	–	–
C5-2v	2.5, 3.1, 3.6, 4.0	3.1, 3.6, 4.0, 5.0, 6.2	2.0, 2.5, 2.7, 3.1, 3.3, 3.6	2.0, 2.5, 2.7, 3.1, 3.3, 3.6	–	–
7C2	2.5, 3.1, 4.2, 5.3	4.4, 5.0, 5.7	2.7, 3.3	2.7, 3.3	–	–
9VC2	3.3, 3.8, 4.2, 5.0	4.4, 5.0, 5.3, 5.7, 6.2	2.7, 3.1, 3.3	2.7, 3.1, 3.3	–	–
9VE4	4.7, 6.2, 7.3	5.7, 6.7, 7.3	4.0, 4.7, 5.3	4.0, 4.7, 5.3	–	–
10MC3	5.0, 6.2, 7.3	6.7, 7.3	4.0, 5.3, 6.2	4.0, 5.3, 6.2	–	–
L10-5v	6.2, 8.0, 8.9, 10.0	8.0, 8.9, 9.4	4.0, 5.3, 6.2	4.0, 5.3, 6.2	–	–
14L4a	6.2, 8.0, 10.0	7.6, 8.9, 10.0	4.4, 5.3, 6.2	4.0, 5.3, 6.2	–	–
16L4	8.0, 10.0, 13.3	9.4, 10.7, 12.3	5.3, 6.2	5.3, 6.2	–	–
11M3	4.2, 5.7, 8.0	6.2, 7.3, 8.0	3.6, 4.4	3.6, 4.4	–	3.6, 4.4
P4-2	2.5, 2.9, 3.1, 3.6	2.7, 3.1, 3.3, 3.6, 4.0	2.0, 2.2, 2.5, 3.3	2.0, 2.2, 2.5, 3.3	1.8	2.0, 2.2, 2.5
5VT	3.6, 4.0, 5.0, 5.7	5.0, 5.7	3.1, 3.8	3.1, 3.8	2.9, 3.3	3.1, 3.8
8V4	4.2, 5.7, 6.7	5.3, 6.2, 7.3	3.6, 4.2, 4.4, 5.7, 6.7	3.6, 4.4	3.6, 4.0	4.2, 5.7, 6.7
CW2	–	–	–	–	2.0	–
CW5	–	–	–	–	5.0	–

Table 2: Cable length

Transducer	Cable length
5C1a	1.95 m
C5-2v	2.20 m
7C2	1.95 m
9VC2	2.20 m
9VE4	2.20 m
10MC3	2.10 m
L10-5v	2.20 m
14L4a	2.10 m
16L4	2.10 m
11M3	2.10 m
P4-2	2.00 m
5VT	1.90 m
8V4	2.10 m
CW2	1.90 m
CW5	2.10 m

Table 3: Connector type

Transducer	Connector type
5C1a	TC-ZIF
C5-2v	TC-ZIF
7C2	TC-ZIF
9VC2	TC-ZIF
9VE4	TC-ZIF
10MC3	TC-ZIF
L10-5v	TC-ZIF
14L4a	TC-ZIF
16L4	TC-ZIF
11M3	TC-ZIF
P4-2	TC-ZIF
5VT	TC-ZIF
8V4	TC-ZIF
CW2	Hirose
CW5	Hirose

Table 4: Needle guide

Transducer	Product description	Guidance angle selection – depth
5C1	Ultra-Pro II™ needle guide	A – 4 cm B – 8 cm
C5-2v	C5-2v needle guide set	A – 40.4° B – 25.6°
7C2	Ultra-Pro II needle guide	A – 10 cm
9VC2	N/A	N/A
9VE4	Disposable Endocavity guide	N/A
10MC3	Endocavity needle guide	0° angle
L10-5v	L10-5v needle guide set	A – 51.5° B – 38°
14L4a	Verza needle guide	
16L4	Infinih	Free angle
18H5	N/A	N/A
11M3	N/A	N/A
P4-2	N/A	N/A
5VT	N/A	N/A
8V4	N/A	N/A
CW2	N/A	N/A
CW5	N/A	N/A

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