



Transducers

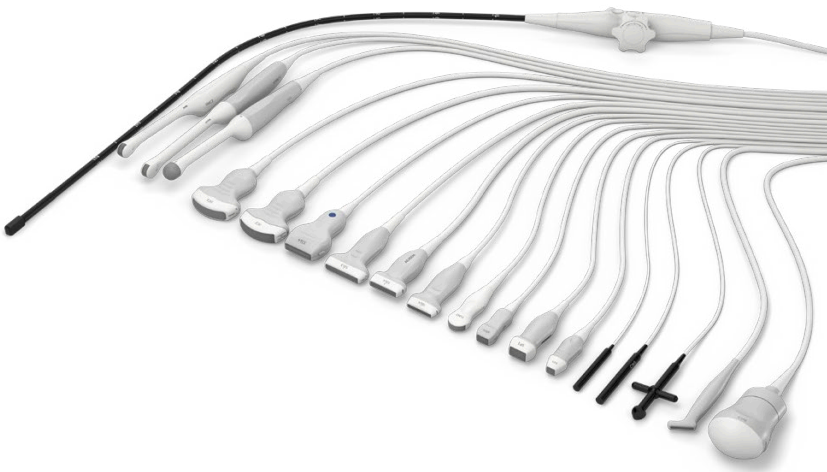
ACUSON Juniper Ultrasound System

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ACUSON Juniper

Image every patient



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Curved



5C1 Transducer

Form factor	Curved
Design	1D, Hanafy, Piezoceramic
Gesture detection	No
Bandwidth	1.4–5.0 MHz
Axial and Lateral resolution	2.0 mm x 2.0 mm
Field of view	70 deg
Physical footprint	22.8 x 70.6 mm
Total weight	488 g



7C2 Transducer

Form factor	Curved
Design	1D, Hanafy, Piezoceramic
Gesture detection	No
Bandwidth	2.1–7.0 MHz
Axial and Lateral resolution	2.0 mm and 2.0 mm
Field of view	70 deg
Physical footprint	22.9 x 70.6 mm
Total weight	548 g



8VC3 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	2.6–8.0 MHz
Axial and Lateral resolution	2.0 mm and 2.0 mm
Field of view	69 deg
Physical footprint	55 x 74 mm
Total weight	757 g



9MC3 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.2–8.5 MHz
Axial and Lateral resolution	1.0 mm and 2.0 mm
Field of view	220 deg
Physical footprint	17 x 22 mm
Total weight	490 g



9VE3 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.0–9.0 MHz
Axial and Lateral resolution	1.0 mm and 1.0 mm
Field of view	145 deg
Physical footprint	24 x 24 mm
Total weight	650 g



10MC3 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.5–10.2 MHz
Axial and Lateral resolution	–
Field of view	150 deg
Physical footprint	19 x 22.2 mm
Total weight	510 g

Linear



11L4 Transducer

Form factor	Linear
Design	Piezoceramic
Gesture detection	No
Bandwidth	3.6–12.9 MHz
Axial and Lateral resolution	0.5 mm and 0.5 mm
Field of view	120 mm
Physical footprint	18.8 x 50.6 mm
Total weight	398 g



12L3 Transducer

Form factor	Linear
Design	1D, Hanafy, Piezoceramic
Gesture detection	No
Bandwidth	2.6–11.5 MHz
Axial and Lateral resolution	0.5 mm and 1.0 mm
Field of view	133 mm
Physical footprint	14.6 x 61.9 mm
Total weight	483 g



13L4 Transducer

Form factor	Linear
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.9–12.6 MHz
Axial and Lateral resolution	0.5 mm and 2.0 mm
Field of view	150 mm
Physical footprint	47.5 mm x 12.7 mm
Total weight	445 g



16L4 Transducer

Form factor	Linear
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	4.3–15.4 MHz
Axial and Lateral resolution	0.5 mm and 1.0 mm
Field of view	65 mm
Physical footprint	12.1 x 43.3 mm
Total weight	401 g



18H5 Transducer

Form factor	Linear
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	4.5–18.0 MHz
Axial and Lateral resolution	0.5 mm and 0.5 mm
Field of view	68 mm
Physical footprint	10.2 x 35.8 mm
Total weight	450 g

Micro-Convex



11M3 Transducer

Form factor	Micro-convex
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.5–11.0 MHz
Axial and Lateral resolution	2.0 mm and 2.0 mm
Field of view	110 deg
Physical footprint	12.8 x 29 mm
Total weight	340 g

Phased Array



5P1 Transducer

Form factor	Phased
Design	1D, Single Crystal
Gesture detection	No
Bandwidth	1.1–5.0 MHz
Axial and Lateral resolution	2.0 mm and 1.0 mm
Field of view	90 deg
Physical footprint	17.5 x 27.8 mm
Total weight	380 g

Vector



5VT Transducer

Form factor	Vector
Design	Vector
Gesture detection	No
Bandwidth	3.1–9.2 MHz
Axial and Lateral resolution	1.0 mm and 1.0 mm
Field of view	90 deg
Physical footprint	14.8 x 11.6 mm
Total weight	1800 g



8V4 Transducer

Form factor	Vector
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	2.7–8.0 MHz
Axial and Lateral resolution	2.0 mm and 2.0 mm
Field of view	90 deg
Physical footprint	14.1 x 15.2 mm
Total weight	402 g



10V4 Transducer

Form factor	Vector
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.4–10.4 MHz
Axial and Lateral resolution	1.0 mm and 1.0 mm
Field of view	90 deg
Physical footprint	14.3 x 22.6 mm
Total weight	376 g

Pencil



CW2 Transducer

Form factor	Pencil
Design	1D, Piezoceramic
Gesture detection	No
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
Gesture detection	No
Bandwidth	N/A
Axial and Lateral resolution	N/A
Field of view	N/A
Physical footprint	12.0 mm
Total weight	190 g



CW8 Transducer

Form factor	Pencil
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	N/A
Axial and Lateral resolution	N/A
Field of view	N/A
Physical footprint	8.2 mm
Total weight	67 g

Table 1:

Selectable frequencies

Transducer	Fundamental	Harmonic	Color Doppler	PW Doppler	CW	DTI
5C1	2.5, 3.1, 4.0	3.1, 3.4, 3.6, 4.4, 5.0	2.0, 2.7	2.0, 2.7	–	–
7C2	3.6, 4.4, 5.0, 5.7	4.4, 5.0, 5.7	2.7, 3.3	2.7, 3.3	–	–
8VC3	3.3, 4.2, 5.0	4.4, 5.0, 5.7, 6.2 (PVF)	2.7, 3.3	2.7, 3.3	–	–
9MC3	4.2, 5.7, 7.3	5.0, 5.7, 7.3	4.0, 5.3	4.0, 5.3	–	–
9VE3	4.7, 5.7, 7.3	5.7, 6.6, 7.3	4.0, 5.3	4.0, 5.3	–	–
10MC3	5.0, 6.2, 7.3	6.6, 7.2, 9.4	4.0, 5.3, 6.2	4.0, 5.3, 6.2	–	–
11L4	6.2, 8.0, 10.0	7.3, 8.0, 9.4	4.0, 5.3, 6.2	4.0, 5.3, 6.2	–	–
12L3	6.2, 8.0, 13.3	6.7, 8.4, 10.0	4.0, 6.7	4.0, 6.7	–	–
13L4	–	–	–	–	–	–
16L4	8.0, 10.0, 13.3	9.4, 10.7, 12.3	5.3, 6.2	5.3, 6.2	–	–
18H5	8.0, 11.4, 13.3	10.6, 12.3, 14.5	6.2, 7.3	6.2, 7.3	–	–
11M3	4.0, 4.3, 5.7, 8.0	6.2, 7.3, 8.0	3.6, 4.4	3.6, 4.4	–	3.6, 4.4
5P1	1.6 (TCD), 2 (TCD), 2.5, 3.1, 3.6	2.7, 3.0, 3.7, 4.0	1.8, 2.2, 2.5	1.8, 2.2, 2.5	1.8	1.8, 2.2, 2.5
5VT	–	–	–	–	–	–
8V4	4.2, 5.7, 6.7	5.4, 6.2, 7.2	3.6, 4.4	3.6, 4.4	3.6	4.2, 5.7, 6.7
10V4	4.0, 5.3, 7.2, 8.9	6.6, 7.2, 8.0, 8.8	4.0, 5.0, 6.2	4.0, 5.0, 6.2	4.0, 4.4	4.0, 5.3
CW2	–	–	–	–	2	–
CW5	–	–	–	–	5	–
CW8	–	–	–	–	–	–

Table 2: Cable length

Transducer	Cable length
5C1	1.95 m
7C2	1.95 m
8VC3	2.1 m
9MC3	2.2 m
9VE3	2.1 m
10MC3	2.13 m
11L4	2.23 m
12L3	2.1 m
13L4	2.1 m
16L4	2.1 m
18H5	2.2 m
11M3	2.1 m
5P1	2.1 m
5VT	1.9 m
8V4	2.2 m
10V4	2.2 m
CW2	1.9 m
CW5	2.1 m
CW8	2.1 m

Table 3: Connector type

Transducer	Connector type
5C1	TC-ZIF
7C2	TC-ZIF
8VC3	TC-ZIF
9MC3	TC-ZIF
9VE3	TC-ZIF
10MC3	TC-ZIF
11L4	TC-ZIF
12L3	TC-ZIF
13L4	TC-ZIF
16L4	TC-ZIF
18H5	TC-ZIF
11M3	TC-ZIF
5P1	TC-ZIF
5VT	TC-ZIF
8V4	TC-ZIF
10V4	TC-ZIF
CW2	TC-ZIF
CW5	TC-ZIF
CW8	Hirose

Table 4: Needle guide

Transducer	Product description	Guidance angle selection – depth
5C1	Ultra-Pro II™ needle guide	A – 4 cm B – 8 cm
7C2	Ultra-Pro II needle guide	A – 10 cm
8VC3	N/A	N/A
9MC3	Endocavity needle guide	15.7 cm (Disposable), 16 cm (Reusable)
9VE3	N/A	N/A
10MC3	Endocavity needle guide	0° angle
11L4	Ultra-Pro II needle guide	A – 2.4 cm B – 4 cm
12L3	Ultra-Pro II needle guide	A – 3 cm
13L4	Verza™ needle guidance system	1 – 2.1 cm 2 – 3.3 cm 3 – 4.8 cm 4 – 7.3 cm 5 – 10.4 cm
16L4	Infinih	Free angle
18H5	N/A	N/A
11M3	N/A	N/A
5P1	N/A	N/A
5VT	N/A	N/A
8V4	N/A	N/A
10V4	N/A	N/A
CW2	N/A	N/A
CW5	N/A	N/A
CW8	N/A	N/A

Table 5: Advanced applications

Transducer	Strain Elastography	Point Shear Wave Elastography	2D Shear Wave Elastography	Contrast Imaging	Fusion Imaging
5C1	N/A	Yes	N/A	N/A	N/A
7C2	N/A	N/A	N/A	N/A	N/A
8VC3	N/A	N/A	N/A	N/A	N/A
9MC3	N/A	N/A	N/A	N/A	N/A
9VE3	N/A	N/A	N/A	N/A	N/A
10MC3	N/A	N/A	N/A	N/A	N/A
11L4	Yes	N/A	N/A	N/A	N/A
12L3	Yes	N/A	N/A	N/A	N/A
13L4	Yes	N/A	N/A	N/A	N/A
16L4	Yes	N/A	N/A	N/A	N/A
18H5	Yes	N/A	N/A	N/A	N/A
11M3	N/A	N/A	N/A	N/A	N/A
5P1	N/A	N/A	N/A	N/A	N/A
5VT	N/A	N/A	N/A	N/A	N/A
8V4	N/A	N/A	N/A	N/A	N/A
10V4	N/A	N/A	N/A	N/A	N/A
CW2	N/A	N/A	N/A	N/A	N/A
CW5	N/A	N/A	N/A	N/A	N/A
CW8	N/A	N/A	N/A	N/A	N/A

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