



Transducers

ACUSON Redwood ultrasound system

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Comprehensive suite of transducers

The ACUSON Redwood ultrasound system has a comprehensive suite of over 13 transducers supporting a diverse range of clinical applications.



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Curved



9C3 transducer

Form factor	Curved
Design	1D, Hanafy, Piezoceramic
Gesture detection	No
Bandwidth	2.2–9.2 MHz
Axial & lateral resolution	0.56 and 0.96 mm
Maximum depth	300 mm
Field of view	78.6 deg
Physical footprint	69.56 x 20.47 mm
Total weight	780.4 gm



5C1 transducer

Form factor	Curved
Design	1D, Single Crystal
Gesture detection	No
Bandwidth	1.0–5.7 MHz
Axial & lateral resolution	0.67 and 1.2 mm
Maximum depth	300 mm
Field of view	72 deg
Physical footprint	63.3 x 18.2 mm
Total weight	743 gm

Linear



18L6 transducer

Form factor	Linear
Design	1D, Hanafy, Piezoceramic
Gesture detection	No
Bandwidth	4.6–17.8 MHz
Axial & lateral resolution	0.3 and 0.43 mm
Maximum depth	80 mm
Field of view	57.5 mm
Physical footprint	69.22 x 16.48 mm
Total weight	761.8 gm



14L5 transducer

Form factor	Linear
Design	Multi-D, Piezoceramic
Gesture detection	No
Bandwidth	4.8–13.6 MHz
Axial & lateral resolution	0.3 and 0.38 mm
Maximum depth	80 mm
Field of view	38.2 mm
Physical footprint	49.58 x 12.89 mm
Total weight	726.9 gm



10L4 transducer

Form factor	Linear
Design	Multi-D, Piezoceramic
Gesture detection	No
Bandwidth	2.9–9.9 MHz
Axial & lateral resolution	0.3 and 0.52 mm
Maximum depth	140 mm
Field of view	38.2 mm
Physical footprint	49.25 x 18.85 mm
Total weight	723.2 gm

Endocavity



9EC4 transducer

Form factor	Curved
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	2.9–8.1 MHz
Axial & lateral resolution	0.46 and 0.8 mm
Maximum depth	140 mm
Field of view	176 deg
Physical footprint	17.0 x 22.0 mm
Total weight	700 gm

Vector



8V3 transducer

Form factor	Sector/Vector
Design	1D, Hanafy, Piezoceramic
Gesture detection	No
Bandwidth	2.1–8.3 MHz
Axial & lateral resolution	0.59 and 0.79 mm
Maximum depth	240 mm
Field of view	90 deg
Physical footprint	26.9 x 16.6 mm
Total weight	644 gm



5V1 transducer

Form factor	Sector/Vector
Design	1D, Single Crystal, Piezoceramic
Gesture detection	No
Bandwidth	1.1–4.9 MHz
Axial & lateral resolution	1.06 and 3.72 mm
Maximum depth	300 mm
Field of view	90 deg
Physical footprint	27.2 x 18.7 mm
Total weight	640 gm



4V1 transducer

Form factor	Vector
Design	1D, Hanafy, Piezoceramic
Gesture detection	No
Bandwidth	1.4–5.1 MHz
Axial & lateral resolution	0.9 and 1.1 mm
Maximum depth	300 mm
Field of view	90 deg
Physical footprint	35.5 x 20.2 mm
Total weight	639 gm



10V4 transducer

Form factor	Sector/Vector
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	4.1–9.9 MHz
Axial & lateral resolution	0.22 and 1.18 mm
Maximum depth	140 mm
Field of view	90 deg
Physical footprint	22.6 x 14.3
Total weight	376 gm

Pencil



CW2 transducer

Form factor	Pencil
Design	N/A
Gesture detection	N/A
Bandwidth	N/A
Axial & lateral resolution	N/A
Maximum depth	N/A
Field of view	N/A
Physical footprint	17 mm
Total weight	N/A



CW5 transducer

Form factor	Pencil
Design	N/A
Gesture detection	N/A
Bandwidth	N/A
Axial & lateral resolution	N/A
Maximum depth	N/A
Field of view	N/A
Physical footprint	11 x 7 mm
Total weight	N/A

Transesophageal echocardiography (TEE)



V5Ms transducer

Form factor	Transesophageal echocardiography (TEE)
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.0–7.0 MHz
Axial & lateral resolution	0.22 and 1.18 mm
Maximum depth	180 mm
Field of view	90 deg
Physical footprint	14.8 x 11.6
Total weight	1800 gm

Table 1: Selectable frequencies

Transducer	2D	THI	Color Doppler	PW Doppler	CW Doppler	Contrast
9C3	<ul style="list-style-type: none"> • Pen • Low • Mid • High 	<ul style="list-style-type: none"> • HPen • HLow • HMid • HHigh 	<ul style="list-style-type: none"> • Pen • Mid • Res 	<ul style="list-style-type: none"> • Low • Mid 	–	<ul style="list-style-type: none"> • Low • Mid • High
5C1	<ul style="list-style-type: none"> • Low • Mid • High 	<ul style="list-style-type: none"> • HPen • HLow • HMid • HHigh 	<ul style="list-style-type: none"> • Low • Mid • High • Res 	<ul style="list-style-type: none"> • Low • Mid • High • Res 	–	<ul style="list-style-type: none"> • Low • Mid
18L6	<p>on MSK exam only:</p> <ul style="list-style-type: none"> • Low • Mid • High • Res <p>on the other exams:</p> <ul style="list-style-type: none"> • Low • Mid • High 	<ul style="list-style-type: none"> • HLow • HMid • HHigh 	<ul style="list-style-type: none"> • Pen • Mid • Res 	<ul style="list-style-type: none"> • Low • Mid • High 	–	–
14L5	<p>on MSK exam only:</p> <ul style="list-style-type: none"> • Low • Mid • High • Res <p>on the other exams:</p> <ul style="list-style-type: none"> • Low • Mid • High 	<ul style="list-style-type: none"> • HLow • HMid • HHigh 	<ul style="list-style-type: none"> • Pen • Low • Mid • High 	<ul style="list-style-type: none"> • Low • Mid 	–	–
10L4	<ul style="list-style-type: none"> • Low • Mid • High 	<ul style="list-style-type: none"> • HLow • HMid • HHigh 	<ul style="list-style-type: none"> • Pen • Mid • High • Res 	<ul style="list-style-type: none"> • Low • Mid 	–	<ul style="list-style-type: none"> • Low • Mid
9EC4	<ul style="list-style-type: none"> • Low • Mid • High 	<ul style="list-style-type: none"> • HLow • HMid • HHigh 	<ul style="list-style-type: none"> • Low • Mid • High 	<ul style="list-style-type: none"> • Low • Mid • High 	–	<ul style="list-style-type: none"> • Low • Mid • High

Transducer	2D	THI	Color Doppler	PW Doppler	CW Doppler	Contrast
8V3	<ul style="list-style-type: none"> • Low • Mid • High • Res 	<ul style="list-style-type: none"> • HLow • HMid • HHigh 	on Cardiac exam only: <ul style="list-style-type: none"> • Low • Mid on the other exams: <ul style="list-style-type: none"> • Pen • Low • Mid • High 	on Cardiac exam only: <ul style="list-style-type: none"> • Low • Mid on the other exams: <ul style="list-style-type: none"> • Low • Mid • High 	on Cardiac exam only: <ul style="list-style-type: none"> • Low • Mid 	–
5V1	<ul style="list-style-type: none"> • Pen • Low 	on Cardiac exam only: <ul style="list-style-type: none"> • HLow • HMid • HHigh on the other exams: <ul style="list-style-type: none"> • HPen • HLow • HMid • HHigh 	<ul style="list-style-type: none"> • Low • Mid • High 	<ul style="list-style-type: none"> • Pen • Low • Mid • High • Res 	Cardiac exam only: <ul style="list-style-type: none"> • Mid on 	<ul style="list-style-type: none"> • Pen • Low • Mid • High • Res
4V1	<ul style="list-style-type: none"> • Low • Mid • High 	<ul style="list-style-type: none"> • HPen • HLow • HMid • HHigh 	<ul style="list-style-type: none"> • Pen • Mid • Res 	<ul style="list-style-type: none"> • Low • Mid • High 	–	<ul style="list-style-type: none"> • Low • Mid
10V4	<ul style="list-style-type: none"> • Low • Mid • High • Res 	<ul style="list-style-type: none"> • HLow • HMid • HHigh 	<ul style="list-style-type: none"> • Low • Mid • High 	<ul style="list-style-type: none"> • Low • Mid • High 	on Cardiac exam only: <ul style="list-style-type: none"> • Low • Mid 	–
CW2	–	–	–	–	• Mid	–
CW5	–	–	–	–	• Mid	–
V5Ms	<ul style="list-style-type: none"> • Pen • Low • Mid • High 	<ul style="list-style-type: none"> • HLow • HMid 	<ul style="list-style-type: none"> • Low • Mid 	<ul style="list-style-type: none"> • Low • Mid 	<ul style="list-style-type: none"> • Low • Mid 	–

Table 2: Cable length

Transducer	Cable length
9C3	2.1 m
5C1	2.1 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
10V4	2.2 m
V5Ms	1.9 m

Table 3: Connector type

Transducer	Connector type
9C3	Compact Pinless Connector
5C1	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
10V4	Compact Pinless Connector
CW2	Hirose
CW5	Hirose
V5Ms	Micro Pinless Connector

Table 4: Biopsy guides

Transducer	Product description	Guidance angle selection – depth
9C3	Ultra-Pro II Bracket Starter 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
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: 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	N/A	Yes	N/A
18L6	Yes	N/A	N/A	N/A	N/A
14L5	Yes	N/A	N/A	N/A	N/A
10L4	Yes	Yes	Yes	Yes	N/A
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	Yes	N/A
4V1	N/A	Yes	N/A	Yes	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
V5Ms	N/A	N/A	N/A	N/A	N/A

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Please contact your local Siemens Healthineers organization for further details.

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