

# Transducers ACUSON Redwood Ultrasound System

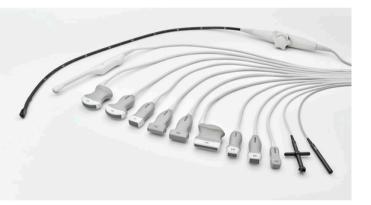
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# Comprehensive suite of transducers

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



#### **5C1 Transducer**

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



#### 9C3 Transducer

Curved
1D, Hanafy, Piezoceramic
No
2.2–9.2 MHz
0.56 and 0.96 mm
78.6 deg
69.56 x 20.47 mm
780.4 g

## Linear



#### 10L4 Transducer

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



#### 14L5 Transducer

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



#### 18L6 Transducer

Linear
1D, Hanafy, Piezoceramic
No
4.6–17.8 MHz
0.3 and 0.43 mm
57.5 mm
69.22 x 16.48 mm
761.8 g

# Endocavity



#### 9EC4 Transducer

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

### Vector



#### **4V1 Transducer**

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



#### 5V1 Transducer

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



#### 8V3 Transducer

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



#### 10V4 Transducer

Form factor	Sector / Vector
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.4–10.4 MHz
Axial and lateral resolution	0.22 and 1.18 mm
Field of view	90 deg
Physical footprint	22.6 x 14.3 mm
Total weight	376 g

# Pencil



#### **CW2** Transducer

Form factor	Pencil
Design	N/A
Gesture detection	N/A
Bandwidth	N/A
Axial and lateral resolution	N/A
Field of view	N/A
Diameter	17 mm
Total weight	N/A



#### **CW5** Transducer

Form factor	Pencil
Design	N/A
Gesture detection	N/A
Bandwidth	N/A
Axial and lateral resolution	N/A
Field of view	N/A
Diameter	11 x 7 mm
Total weight	N/A

# Transesophageal echocardiography (TEE)



#### **V5Ms Transducer**

Transesophageal echocardiography (TEE)		
1D, Piezoceramic		
No		
3.0–7.0 MHz		
0.22 and 1.18 mm		
90 deg		
14.8 x 11.6 mm		
1800 g		

# Table 1:Selectable frequencies1

Transducer	2D	тні	Color Doppler	PW Doppler	CW Doppler	Contrast
5C1	Low, Mid, High	HPen, HLow, HMid, HHigh	Low, Mid, High, Res	Low, Mid, High, Res	-	Low, Mid
9C3	Pen, Low, Mid, High	HPen, HLow, HMid, HHigh	Pen, Mid, Res	Low, Mid	-	Low, Mid, High
10L4	Low, Mid, High	HLow, HMid, HHigh	Pen, Mid, High, Res	Low, Mid	-	Low, Mid
14L5	on MSK exam only: Low, Mid, High, Res	HLow, HMid, HHigh	Pen, Low, Mid, High	Low, Mid	_	-
	on the other exams: Low, Mid, High					
18L6	on MSK exam only: Low, Mid, High, Res	HLow, HMid HHigh,	Pen, Mid, Res	Low, Mid, High	-	_
	on the other exams: Low, Mid, High					
9EC4	Low, Mid, High	HLow, HMid, HHigh	Low, Mid, High	Low, Mid, High	-	Low, Mid, High
4V1	Low, Mid, High	HPen, HLow, HMid, HHigh	Pen, Mid, Res	Low, Mid, High	-	Low, Mid
5V1	Pen, Low	on Cardiac exam only: HLow, HMid, HHigh	Low, Mid, High	Pen, Low, Mid, High, Res	on Cardiac exam only: Mid on	Pen, Low, Mid, High, Res
		on the other exams: HPen, HLow, HMid, HHigh				
8V3	Low, Mid, High, Res	HLow, HMid, HHigh	on Cardiac exam only: Low, Mid	on Cardiac exam only: Low, Mid,	on Cardiac exam only: Low, Mid	-
			on the other exams:, Pen, Low, Mid, High	on the other exams: Low, Mid, High		
10V4	Low, Mid, High, Res	HLow, HMid, HHigh	Low, Mid, High	Low, Mid, High	on Cardiac exam only: Low, Mid	_
CW2	_	_	_	_	Mid	_
CW5	-	-	-	-	Mid	_
V5Ms	Pen, Low, Mid, High	HLow, HMid	Low, Mid	Low, Mid	Low, Mid	-

<sup>1</sup> System specific

# Table 2: Cable length

Transducer	Cable length
5C1	2.1 m
9C3	2.1 m
10L4	2.1 m
14L5	2.1 m
18L6	2.1 m
9EC4	2.2 m
4V1	1.9 m
5V1	2.1 m
8V3	2.2 m
10V4	2.2 m
V5Ms	1.9 m

# Table 3: Connector type

Transducer	Connector type	
5C1	Compact Pinless Connector	
9C3	Compact Pinless Connector	
10L4	Compact Pinless Connector	
14L5	Compact Pinless Connector	
18L6	Compact Pinless Connector	
9EC4	Compact Pinless Connector	
4V1	Compact Pinless Connector	
5V1	Compact Pinless Connector	
8V3	Compact Pinless Connector	
10V4	Compact Pinless Connector	
CW2	Hirose	
CW5	Hirose	
V5Ms	Micro Pinless Connector	

# Table 4: Needle guide

n
Path angle
Path angle

# **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	Yes	N/A
9C3	N/A	N/A	N/A	Yes	N/A
10L4	Yes	Yes	Yes	Yes	N/A
14L5	Yes	N/A	N/A	N/A	N/A
18L6	Yes	N/A	N/A	N/A	N/A
9EC4	Yes	N/A	N/A	Yes	N/A
4V1	N/A	Yes	N/A	Yes	N/A
5V1	N/A	N/A	N/A	Yes	N/A
8V3	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
V5Ms	N/A	N/A	N/A	N/A	N/A

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