



Transducers

ACUSON NX3 Elite Ultrasound System

Release 2.0

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Comprehensive suite of transducers

The ACUSON NX3 Elite ultrasound system has a comprehensive suite of over 16 transducers supporting a diverse range of clinical applications

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Curved



CH5-2 Transducer

Form factor	Curved
Design	1D, Hanafy, Piezoceramic
Gesture detection	No
Bandwidth	1.5–5.1 MHz
Axial and lateral resolution	1.0 and 2.0 mm
Field of view	66 deg
Physical footprint	70.6 x 22.8 mm
Total weight	914 g



C8F3 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	2.6–8.0 MHz
Axial and lateral resolution	2.0 and 3.0 mm
Field of view	67 deg
Physical footprint	74 x 55 mm
Total weight	757 g



C8-5 Transducer

Form factor	Curved
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.4–8.8 MHz
Axial and lateral resolution	1.0 and 3.0 mm
Field of view	109 deg
Physical footprint	29 x 18 mm
Total weight	800 g

Linear



VF12-4 Transducer

Form factor	Linear
Design	1D, Hanafy, Piezoceramic
Gesture detection	No
Bandwidth	2.8–11.5 MHz
Axial and lateral resolution	1.0 and 3.0 mm
Field of view	153 mm
Physical footprint	61.9 x 14.6 mm
Total weight	951 g



VF13-5SP Transducer

Form factor	Linear
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	4.2–12.4 MHz
Axial and lateral resolution	1.0 and 2.0 mm
Field of view	49 mm
Physical footprint	35.7 x 13.2 mm
Total weight	920 g



VF16-5 Transducer

Form factor	Linear
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	4.6–14.9 MHz
Axial and lateral resolution	1.0 and 2.0 mm
Field of view	63 mm
Physical footprint	43.3 x 12.1 mm
Total weight	840 g



11L4 Transducer

Form factor	Linear
Design	1D, Piezocomposite
Gesture detection	No
Bandwidth	3.5–12.8 MHz
Axial and lateral resolution	0.5 and 0.5 mm
Field of view	101 mm
Physical footprint	50.6 x 18.8 mm
Total weight	767 g

Phased



P4-2 Transducer

Form factor	Phased
Design	1D, Piezocomposite
Gesture detection	No
Bandwidth	1.4–4.2 MHz
Axial and lateral resolution	1.0 and 3.0 mm
Field of view	90 deg
Physical footprint	30.1 x 24.1 mm
Total weight	799 g



P8-4 Transducer

Form factor	Phased
Design	1D, Piezocomposite
Gesture detection	No
Bandwidth	2.8–8.0 MHz
Axial and lateral resolution	2.0 and 3.0 mm
Field of view	90 deg
Physical footprint	15.2 x 14.1 mm
Total weight	750 g

Endocavity



EC9-4 Transducer

Form factor	Endocavity
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.1–10.0 MHz
Axial and lateral resolution	1.0 and 3.0 mm
Field of view	128 deg
Physical footprint	19.9 x 17.9 mm
Total weight	926 g



EC10-5w Transducer

Form factor	Endocavity
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	5.0–10.0 MHz
Axial and lateral resolution	2.0 and 2.0 mm
Field of view	220 deg
Physical footprint	19.9 x 17.9 mm
Total weight	994 g



BP10-3 Transducer

Form factor	Endocavity
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.3–9.9 MHz
Axial and lateral resolution	2.0 and 2.0 mm
Field of view	166 deg
Physical footprint	26.4 x 20.2 mm
Total weight	930 g



10MC3 Transducer

Form factor	Endocavity
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.4–10.2 MHz
Axial and lateral resolution	0.5 and 1.0 mm
Field of view	130 deg
Physical footprint	22.2 x 19.0 mm
Total weight	915 g

Non-Imaging



CW2 Transducer

Form factor	Pencil
Design	N/A
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	N/A
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

TEE



V5Ms Transducer

Form factor	TEE
Design	1D, Piezoceramic
Gesture detection	No
Bandwidth	3.2–9.2 MHz
Axial and lateral resolution	1.0 and 1.0 mm
Field of view	87 deg
Physical footprint	14.8 x 11.6 mm
Total weight	1800 g

Table 1: Selectable frequencies

Transducer	2D	THI	Color Doppler	Pulsed Wave	Contin. Wave Frequencies	M-mode	CW Doppler
CH5-2	2.5, 3.6, 5.0	3.1, 3.6, 4.4, 5.0	2.0, 2.7	2.0, 2.7	N/A	2.5, 3.6, 5.0, 3.1, 3.6, 4.4, 5.0	N/A
C8F3	3.3, 4.2, 5.0	4.4, 5.0, 5.7	2.7, 3.3	2.7, 3.3	N/A	3.3, 4.2, 5.0, 4.4, 5.0, 5.7	N/A
C8-5	4.2, 5.7, 7.3	6.2, 7.3, 8.4	4.2, 5.0	4.2, 5.0	N/A	4.2, 5.7, 7.3	N/A
VF12-4	6.2, 8.0, 11.4	6.7, 8.0, 9.4	4.0, 6.7	4.0, 6.7	N/A	6.2, 8.0, 11.4	N/A
VF13-5SP	7.3, 8.9, 11.4	9.4, 10.7, 11.4	6.2, 7.3	6.2, 7.3	N/A	7.3, 8.9, 11.4	N/A
VF16-5	8.0, 10.0, 13.3	9.4, 10.7, 12.3	5.3, 6.2	5.3, 6.2	N/A	8.0, 10.0, 13.3	N/A
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	N/A	6.2, 8.0, 10.0	N/A
P8-4	3.8, 5.3, 6.7	5.3, 5.8, 6.1	3.6, 4.4	3.6, 4.4	3.6	3.8, 5.3, 6.7, 5.3, 5.8, 6.1	N/A
P4-2	2.0, 2.5, 2.9, 3.1, 3.6	2.7, 3.0, 3.1, 3.4, 3.6, 4.0	2.0, 2.2, 2.5, 3.3	2.0, 2.2, 2.5, 3.3	2.0	2.0, 2.5, 2.9, 3.1, 3.6, 3.0, 3.4, 3.6, 4.0	N/A
EC9-4	5.0, 6.7, 7.3	5.7, 6.6, 9.4	4.0, 5.3, 6.2	4.0, 5.3, 6.2	N/A	5.0, 6.7, 7.3	N/A
EC10-5W	5.7, 8.0, 10.0	5.6, 7.6, 9.4	4.2, 5.3	4.2, 5.3	N/A	5.7, 8.0, 10.0	N/A
BP10-3	5.0, 6.7, 8.0	7.2, 8.0, 8.8	4.4, 5.3	4.4, 5.3	N/A	5.0, 6.7, 8.0	N/A
10MC3	5.0, 6.2, 7.3	6.7, 7.3, 8.0, 9.4	4.0, 5.3, 6.2	4.0, 5.3, 6.2	N/A	5.0, 6.2, 7.3	N/A
CW2	N/A	N/A	N/A	N/A	N/A	N/A	2.0
CW5	N/A	N/A	N/A	N/A	N/A	N/A	5.0
V5Ms	4.0, 5.7	6.2	3.6	3.6	3.6	4.0, 5.7	N/A

Table 2: Cable length

Transducer	Cable length
CH5-2	2.2 m
C8F3	2.1 m
C8-5	2.0 m
VF12-4	2.1 m
VF13-5SP	2.5 m
VF16-5	2.1 m
11L4	2.1 m
P8-4	2.1 m
P4-2	2.0 m
EC9-4	2.1 m
EC10-5W	2.1 m
BP10-3	2.2 m
10MC3	2.1 m
CW2	1.9 m
CW5	2.1 m
V5Ms	1.9 m

Table 3: Connector type

Transducer	Connector type
CH5-2	DL260
C8F3	DL260
C8-5	DL260
VF12-4	DL260
VF13-5SP	DL260
VF16-5	DL260
11L4	DL260
P8-4	DL260
P4-2	DL260
EC9-4	DL260
EC10-5W	DL260
BP10-3	DL260
10MC3	DL260
CW2	Hirose
CW5	Hirose
V5Ms	DL260

Table 4: Needle guide

Transducer	Product description	Guidance angle selection – depth
CH5-2	ACUSON NX2, CH4-1 Needle Guide Set	A – 45° B – 30.5°
C8F3	N/A	N/A
C8-5	N/A	N/A
VF12-4	Biopsy Guide Start Set, Biopsy Guide Bracket	48°
VF13-5SP	N/A	N/A
VF16-5	Biopsy Guide Starter Set	Free angle
11L4	Biopsy Guide Starter Set	A – 39° B – 51°
P8-4	N/A	N/A
P4-2	N/A	N/A
EC9-4	ACUSON NX2, EC9-4 Reusable Needle Guide Set	2°
EC10-5W	Reusable Needle Guide Set	2°
BP10-3	Reusable Needle Guide Disposable Needle Guide, 5 pack Disposable Needle Guide, 24 pack	29°
10MC3	ACUSON NX2, 10MC3 Needle Guide Set	1.3°
CW2	N/A	N/A
CW5	N/A	N/A
V5Ms	N/A	N/A

Table 5: Advanced applications

Transducer	Strain Elastography	Point Shear Wave Elastography	2D Shear Wave Elastography	Contrast Imaging	Fusion Imaging
CH5-2	No	N/A	N/A	Yes	N/A
C8F3	No	N/A	N/A	No	N/A
C8-5	No	N/A	N/A	No	N/A
VF12-4	Yes	N/A	N/A	No	N/A
VF13-5sp	No	N/A	N/A	No	N/A
VF16-5	Yes	N/A	N/A	No	N/A
11L4	Yes	N/A	N/A	No	N/A
P8-4	No	N/A	N/A	No	N/A
P4-2	No	N/A	N/A	No	N/A
EC9-4	No	N/A	N/A	No	N/A
EC10-5w	No	N/A	N/A	No	N/A
BP10-3	No	N/A	N/A	No	N/A
10MC3	No	N/A	N/A	No	N/A
CW2	No	N/A	N/A	No	N/A
CW5	No	N/A	N/A	No	N/A
V5M	No	N/A	N/A	No	N/A

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