



Transducers

ACUSON NX3 Elite ultrasound system

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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

Frequency Bandwidth	1.4–5.0 MHz
Selectable 2D Frequencies	2.5, 3.6, 5.0 MHz
Selectable THI (TEI) Frequencies	3.1, 3.6, 4.4, 5.0 MHz
Selectable Color Doppler Frequencies	2.0, 2.7, 3.3 MHz
Selectable Pulsed Wave Frequencies	2.0, 2.7, 3.3 MHz
Number of Elements	128
Footprint	61.1 mm
Maximum Field of View	66°
Maximum Display Depth	300 mm
Biopsy Guide Kit	Needle Guide Kit
Biopsy Guide Angles	45°(A), 30.5°(B)
Compatible with	ACUSON X300 ultrasound system, premium edition (PE)
Exam Types	Obstetrics, Early Obstetrics, Abdomen, Renal, Pelvis, Emergency Medicine
Intended Applications	Obstetrics, Early Obstetrics, Abdomen, Renal, Pelvis, Emergency Medicine, Musculoskeletal, Vascular, Lung
Design Attributes	<ul style="list-style-type: none"> • Wide bandwidth curved array transducer • Hanafy lens transducer technology • User-selectable MultiHertz multiple frequency imaging • Ergonomically designed form factor • Lightweight transducer with flexible cable



C8F3 transducer

Frequency Bandwidth	2.0–7.0 MHz
Number of Elements	128
Footprint	47.9 mm
Maximum Field of View	67°
Maximum Display Depth	300 mm
Biopsy Guide	Not available
Compatible with	ACUSON X600 ultrasound system
Exam Types	Abdomen, Early Obstetrics, Fetal Echo, Gynecology, Obstetrics, Pelvic Floor
Design Attributes	<ul style="list-style-type: none"> • Curved Vector Format • Wide bandwidth curved array transducer • User-selectable MultiHertz imaging • Ergonomically designed form factor • Lightweight transducer with flexible cable



C8-5 transducer

Frequency Bandwidth	3.1–8.8 MHz
Number of Elements	160
Footprint	25.6 mm
Maximum Field of View	109°
Maximum Display Depth	140 mm
Biopsy Guide	Not available
Compatible with	ACUSON X700 ultrasound system ACUSON X300 ultrasound system, premium edition (PE)
Exam Types	Cerebrovascular, Neonatal Head, Pediatric Abdomen, Pediatric Echo
Design Attributes	<ul style="list-style-type: none"> • Wide bandwidth micro-curved array transducer • User-selectable MultiHertz imaging • Ergonomically designed form factor • Lightweight transducer with flexible cable

Vector



VF12-4 transducer

Frequency Bandwidth	4.0–12.0 MHz
2D Steering Angle	max. $\pm 15^\circ$
Color Doppler Steering Angle	max. $\pm 15^\circ$
PW Doppler Steering Angle	max. $\pm 15^\circ$
Number of Elements	192
Footprint	51.3 mm
Maximum Field of View	153 mm
Maximum Display Depth	160 mm
Biopsy Guide	Biopsy Guide Start Set Biopsy Guide Bracket
Biopsy Guide Angle	48°
Compatible with	ACUSON X700 ultrasound system ACUSON X600 ultrasound system
Exam Types	Breast, Cerebrovascular, Emergency Medicine, Musculoskeletal, Orthopedics, Peripheral Vascular, Small Parts, Testicle, Thyroid, Venous
Design Attributes	<ul style="list-style-type: none"> • Wide bandwidth long linear transducer • Virtual format imaging • Hanafy lens transducer technology



VF13-5SP transducer

Frequency Bandwidth	4.3–13.0 MHz
Selectable 2D Frequencies	7.3, 8.9, 11.4 MHz
Selectable THI Frequencies	9.4, 10.7, 11.4 MHz
Selectable Color Doppler Frequencies	6.2, 7.3 MHz
Selectable PW Doppler Frequencies	6.2, 7.3 MHz
2D Steering Angle	max. $\pm 12^\circ$
Color Doppler Steering Angle	max. $\pm 12^\circ$
PW Doppler Steering Angle	max. $\pm 12^\circ$
Number of Elements	128
Footprint	13 mm \times 35 mm
Array Length	25.6 mm
Maximum Field of View	49 mm
Maximum Display Depth	60 mm
Biopsy Guide	Not available
Compatible with	ACUSON X300 ultrasound system, premium edition (PE) ACUSON X300 ultrasound system
Exam Types	Breast, Cerebrovascular, Intraoperative, Musculoskeletal, Superficial Musculoskeletal, Superficial Vascular, Testicle, Thyroid, Venous
Design Attributes	<ul style="list-style-type: none"> • Wide bandwidth linear transducer • Virtual format imaging • User-selectable MultiHertz imaging • Ergonomically designed form factor • Lightweight transducer with flexible cable



VF16-5 transducer

Frequency Bandwidth	5.0–16.0 MHz
Number of Elements	192
Footprint	34.8 mm
Maximum Display Depth	60 mm
Biopsy Guide	Biopsy Guide Starter Set
Biopsy Guide Angle	Free angle
Compatible with	ACUSON X700 ultrasound system
Exam Types	Breast, Cerebrovascular, Emergency Medicine, Muskuloskeletal, Penile, Testicle, Thyroid
Design Attributes	<ul style="list-style-type: none"> • Wide bandwidth linear transducer • Virtual format imaging • Hanafy lens transducer technology

Linear



11L4 transducer

Frequency Bandwidth	3.7–13.1 MHz
Selectable 2D Frequencies	6.2, 8.0, 10.0 MHz
Selectable THI (TEI) Frequencies	7.3, 8.0, 9.4 MHz
Selectable Color Doppler Frequencies	4.0, 5.3, 6.2 MHz
Selectable Pulsed Wave Frequencies	4.0, 5.3, 6.2 MHz
Selectable M-mode Frequencies	6.2, 8.0, 10.0 MHz
Selectable Continuous Wave Frequencies	Not available
Number of Elements	128
Footprint	38.4 mm
Maximum Field of View	101 mm
Maximum Display Depth	10 cm
Biopsy Guide Kit	Biopsy Guide Starter Set
Biopsy Guide Angles	39°, 51°
Compatible with	ACUSON NX3 ultrasound system R2.0
Exam Types	Breast, C-Vascular, Emergency Medicine, Musculoskeletal, Orthopedics, P-Vascular, Testicle, Thyroid, Venous
Intended Applications	Breast, Cerebrovascular, Emergency Medicine, Musculoskeletal, Orthopedic, P-Vascular, Testicle, Thyroid and Venous
Design Attributes	<ul style="list-style-type: none"> • Wide bandwidth linear transducer • Virtual format imaging • User-selectable MultiHertz imaging • Ergonomically designed form factor • 2D beam steering • Lightweight transducer with flexible cable

Phased



P8-4 transducer

Frequency Bandwidth	4.0–8.0 MHz
Number of Elements	64
Footprint	9.6 mm
Maximum Field of View	90°
Maximum Display Depth	140 mm
Biopsy Guide	Not available
Compatible with	ACUSON X700 ultrasound system ACUSON X300 ultrasound system, premium edition (PE)
Exam Types	Cerebrovascular, Neonatal Head, Pediatric Abdomen, Pediatric Echo
Design Attributes	<ul style="list-style-type: none"> • Wide bandwidth phased array transducer • User-selectable MultiHertz imaging • Ergonomically designed form factor • Lightweight transducer with flexible cable



P4-2 transducer

Frequency Bandwidth	1.3–4.4 MHz
Selectable 2D Frequencies	2.0, 2.5, 2.9, 3.1, 3.6 MHz
Selectable THI (TEI) Frequencies	2.7, 3.0, 3.1, 3.4, 3.6, 4.0 MHz
Selectable Color Doppler Frequencies	2.0, 2.2, 2.5, 3.3 MHz
Selectable Pulsed Wave Frequencies	2.0, 2.2, 2.5, 3.3 MHz
Selectable Continuous Wave Frequencies	2.0 MHz
Number of Elements	64
Footprint	14 mm × 16.6 mm
Maximum Field of View	90°
Maximum Display Depth	300 mm
Biopsy Guide Kit	Not available
Biopsy Guide Angles	Not available
Compatible with	ACUSON X300 ultrasound system, premium edition (PE)
Exam Types	Obstetrics, Abdomen, Emergency Medicine
Intended Applications	Obstetrics, Abdomen, Cardiac, Emergency Medicine (Cardiac)
Design Attributes	<ul style="list-style-type: none"> • Wide bandwidth phased array transducer • User-selectable MultiHertz imaging • Ergonomically designed form factor • Lightweight transducer with flexible cable

Endocavity



EC9-4 transducer

Frequency Bandwidth	3.3–10.3 MHz
Selectable 2D Frequencies	5.0, 6.7, 7.3 MHz
Selectable THI (TEI) Frequencies	5.7, 6.6, 9.4 MHz
Selectable Color Doppler Frequencies	4.0, 5.3, 6.2 MHz
Selectable Pulsed Wave Frequencies	4.0, 5.3, 6.2 MHz
Number of Elements	128
Footprint	26.2 mm
Maximum Field of View	126°
Maximum Display Depth	140 mm
Biopsy Guide Kit	Reusable Needle Guide Set
Biopsy Guide Angles	2°
Compatible with	ACUSON X300 ultrasound system, premium edition (PE)
Exam Types	Obstetrics, Early Obstetrics, Gynecology, Emergency Medicine
Intended Applications	Obstetrics, Early Obstetrics, Gynecology, Emergency Medicine, Gynecology/Prostate
Design Attributes	<ul style="list-style-type: none"> • User-selectable MultiHertz imaging • Ergonomically designed form factor • Lightweight transducer with flexible cable



EC10-5w transducer

Frequency Bandwidth	3.3–10.3 MHz
Selectable 2D Frequencies	5.0, 6.7, 7.3 MHz
Selectable THI (TEI) Frequencies	5.7, 6.6, 9.4 MHz
Selectable Color Doppler Frequencies	4.0, 5.3, 6.2 MHz
Selectable Pulsed Wave Frequencies	4.0, 5.3, 6.2 MHz
Number of Elements	128
Footprint	26.2 mm
Maximum Field of View	220°
Maximum Display Depth	140 mm
Biopsy Guide Kit	Reusable Needle Guide Set
Biopsy Guide Angles	2°
Compatible with	ACUSON X300 ultrasound system, premium edition (PE)
Exam Types	Obstetrics, Early Obstetrics, Gynecology, Emergency Medicine
Intended Applications	Obstetrics, Early Obstetrics, Gynecology, Emergency Medicine, Gynecology/Prostate
Design Attributes	<ul style="list-style-type: none"> • User-selectable MultiHertz imaging • Ergonomically designed form factor • Lightweight transducer with flexible cable



BP10-3 transducer

Frequency Bandwidth	2.6~9.9 MHz
Selectable 2D Frequencies	5.0, 6.7, 8.0 MHz
Selectable THI (TEI) Frequencies	7.2, 8.0, 8.8 MHz
Selectable Color Doppler Frequencies	4.4, 5.3 MHz
Selectable Pulsed Wave Frequencies	4.4, 5.3 MHz
Selectable M-mode Frequencies	5.0, 6.7, 8.0 MHz
Selectable Continuous Wave Frequencies	Not available
Number of Elements	128
Footprint	25.6 × 4.3 mm
Maximum Field of View	166
Maximum Display Depth	140 mm
Biopsy Guide Kit	Reusable Needle Guide Disposable Needle Guide, 5 pack Disposable Needle Guide, 24 pack
Biopsy Guide Angles	29°
Compatible with	ACUSON NX3 ultrasound system R2.0
Exam Types	Urology
Intended Applications	Prostate, Urology
Design Attributes	<ul style="list-style-type: none"> • Wide bandwidth curved array transducer • User-selectable MultiHertz imaging • Ergonomically designed form factor • Lightweight transducer with flexible cable • Live Bi-Plane imaging and biopsy



10MC3 transducer

Frequency Bandwidth	3.3~10.3 MHz
Selectable 2D Frequencies	5.0, 6.2, 7.3 MHz
Selectable THI (TEI) Frequencies	6.7, 7.3, 8.0, 9.4 MHz
Selectable Color Doppler Frequencies	4.0, 5.3, 6.2 MHz
Selectable Pulsed Wave Frequencies	4.0, 5.3, 6.2 MHz
Selectable M-mode Frequencies	5.0, 6.2, 7.3 MHz
Selectable Continuous Wave Frequencies	Not available
Number of Elements	128
Footprint	27.4 mm
Maximum Field of View	130°
Maximum Display Depth	14 cm
Biopsy Guide Kit	NX2, 10MC3 Needle Guide Set
Biopsy Guide Angles	1.3°
Compatible with	ACUSON NX3 ultrasound system R2.0
Exam Types	Early Obstetrics, Gynecology, Obstetrics, Obstetrics Japan, Urology
Intended Applications	Early Obstetrics, Gynecology, Obstetrics, Obstetrics Japan, Urology
Design Attributes	<ul style="list-style-type: none"> • User-selectable MultiHerz imaging • Ergonomically designed form factor • Lightweight transducer with flexible cable

Non-Imaging



CW2 transducer

Selectable CW Doppler Frequencies	2.0 MHz
Number of Elements	2
Diameter	17 mm
Biopsy Guide	Not available
Compatible with	ACUSON S3000 ultrasound system ACUSON S2000 ultrasound system ACUSON S1000 ultrasound system ACUSON X700 ultrasound system ACUSON X600 ultrasound system ACUSON X300 ultrasound system, premium edition (PE) ACUSON X300 ultrasound system
Exam Types	Adult Echo, Pediatric Echo



CW5 transducer

Selectable CW Doppler Frequencies	5.0 MHz
Number of Elements	2
Diameter	11 mm
Biopsy Guide	Not available
Compatible with	ACUSON S3000 ultrasound system ACUSON S2000 ultrasound system ACUSON S1000 ultrasound system ACUSON X700 ultrasound system ACUSON X600 ultrasound system ACUSON X300 ultrasound system, premium edition (PE) ACUSON X300 ultrasound system
Exam Types	Cerebrovascular, Pediatric Echo

TEE



V5Ms transducer

Frequency Bandwidth	2.7~9.0 MHz
Selectable 2D Frequencies	4.0, 5.7 MHz
Selectable THI (TEI) Frequencies	6.2 MHz
Selectable Color Doppler Frequencies	3.6 MHz
Selectable Pulsed Wave Frequencies	3.6 MHz
Selectable M-mode Frequencies	4.0, 5.7 MHz
Selectable Continuous Wave Frequencies	3.6 MHz
Number of Elements	64
Maximum Field of View	87°
Maximum Display Depth	180 mm
Biopsy Guide Kit	Not available
Biopsy Guide Angles	Not available
Compatible with	ACUSON X300 ultrasound system, premium edition (PE) (with converter) ACUSON X700 ultrasound system ACUSON NX3 ultrasound system R2.0 (with converter)
Exam Types	Transesophageal Echo
Intended Applications	Transesophageal Echo
Design Attributes	<ul style="list-style-type: none"> • Wide bandwidth transesophageal transducer • Endoscope diameter = 10.5 mm, length = 11.0 mm • Adult tip size: width = 14.5 mm, height = 11.5 mm • Ergonomic design featuring one-hand control with variable speed rotation – 90° per sec. • RF shielding • User-selectable MultiHertz imaging

The products/features mentioned in this document may not be commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

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