



**Transducers**

# **ACUSON P500 Ultrasound System**

[siemens-healthineers.com/p500](https://siemens-healthineers.com/p500)



# Comprehensive suite of transducers

The ACUSON P500 ultrasound system has a comprehensive suite of 15 transducers supporting a diverse range of clinical applications.

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# Curved



## CH5-2 Transducer

Part number	1105184
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	57 degree
Maximum display depth	300 mm
Biopsy guide kit	Needle Guide Kit, PN 11253619
Biopsy guide angles	45° (A), 30.5° (B)
Exam types	Abdominal, Obstetrics, Gynecology, Pelvis, Renal, Emergency Medicine, Vascular, Pediatrics
Design attributes	<ul style="list-style-type: none"> <li>• Wide bandwidth curved array transducer</li> <li>• Hanafy lens transducer technology</li> <li>• User-selectable MultiHertz multiple frequency imaging</li> <li>• Ergonomically designed form factor</li> <li>• Lightweight transducer with flexible cable</li> </ul>

# Micro-Convex



## 11M3 Transducer

Part number	11575655
Frequency bandwidth	3.5–11 MHz
Selectable 2D frequencies	4.2–8.4 MHz
Selectable THI (TEI) frequencies	6.2–8.4 MHz
Selectable Color Doppler frequencies	4.2–8.4 MHz
Selectable Pulsed Wave frequencies	4.2–8.4 MHz
Number of elements	128
Footprint	26.5 mm
Maximum field of view	110 degree
Biopsy guide kit	N/A
Biopsy guide angles	N/A
Exam types	CV, Neo Head, Ped Abd, Ped Echo
Design attributes	<ul style="list-style-type: none"> <li>• Micro convex Vector Format</li> <li>• Wide bandwidth curved array transducer</li> <li>• User-selectable MultiHertz imaging</li> <li>• Ergonomically designed form factor</li> <li>• Lightweight transducer with flexible cable</li> </ul>

# Linear



## L10-5v Transducer

Part number	11319512
Frequency bandwidth	3.5–13.0 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
Number of elements	128
Footprint	38.4 mm
Maximum display depth	10 cm
Biopsy guide kit	Needle Guide Set PN 11319513
Biopsy guide angles	51.5°, 38°
Exam types	Breast, Cerebrovascular, Emergency Medicine, MSK, Small Part, Peripheral Arterial and Vein, Peripheral Venous, Pediatrics
Design attributes	<ul style="list-style-type: none"> <li>• Wide bandwidth linear transducer</li> <li>• Virtual format imaging</li> <li>• Hanafy lens transducer technology</li> </ul>



## VF10-5 Transducer

Part number	10146142
Frequency bandwidth	4.0–11.4 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
Number of elements	128
Footprint	38.4 mm
Maximum display depth	100 mm
Biopsy guide kit	SG-3 Needle Guide Set, PN 11253617
Biopsy guide angles	52° (A), 40° (B)
Exam types	Breast, Cerebrovascular, Emergency Medicine, MSK, Small Parts, Peripheral Arterial and Vein, Peripheral Venous, Pediatrics
Design attributes	<ul style="list-style-type: none"> <li>• Wide bandwidth linear transducer</li> <li>• Virtual format imaging</li> <li>• User-selectable MultiHertz imaging</li> <li>• Ergonomically designed form factor</li> <li>• 2D beam steering</li> <li>• Lightweight transducer with flexible cable</li> </ul>



## VF13-5 Transducer

Part number	11015188
Frequency bandwidth	4.1–12.1 MHz
Selectable 2D frequencies	7.3, 8.9, 11.4 MHz
Selectable THI (TEI) frequencies	8.0, 8.8, 10.7 MHz
Selectable Color Doppler frequencies	4.7, 5.7, 7.3 MHz
Selectable Pulsed Wave frequencies	4.7, 5.7, 7.3 MHz
Number of elements	128
Footprint	38.4 mm
Maximum display depth	60 mm
Biopsy guide kit	SG-4 Needle Guide Set, PN 11253618
Biopsy guide angles	53°
Exam types	Breast, Cerebrovascular, Emergency Medicine, MSK, Small Parts, Peripheral Arterial and Vein, Peripheral Venous, Pediatrics
Design attributes	<ul style="list-style-type: none"> <li>• Wide bandwidth linear transducer</li> <li>• Virtual format imaging</li> <li>• User-selectable MultiHertz imaging</li> <li>• Ergonomically designed form factor</li> <li>• 2D beam steering</li> <li>• Lightweight transducer with flexible cable</li> </ul>



## VF16-5 Transducer

Part number	11319509
Frequency bandwidth	5.0–15.0 MHz
Selectable 2D frequencies	8.0, 12.0, 15.0 MHz
Selectable THI (TEI) frequencies	9.0, 10.3, 12.6, 14.0 MHz
Selectable Color Doppler frequencies	5.3, 6.2 MHz
Selectable Pulsed Wave frequencies	5.3, 6.2 MHz
Number of elements	192
Footprint	34.8 mm
Maximum display depth	6.0 cm
Biopsy guide kit	Needle Guide Set, PN 11319510
Biopsy guide angles	Free Angle
Exam types	Breast, Cerebrovascular, Emergency Medicine, MSK, Sup MSK, Peripheral Arterial and Vein, Pediatrics
Design attributes	<ul style="list-style-type: none"> <li>• Wide bandwidth linear transducer</li> <li>• Virtual format imaging</li> <li>• Hanafy lens transducer technology</li> </ul>





## 18H5 Transducer

Part number	11575656
Frequency bandwidth	4.5–18 MHz
Selectable 2D frequencies	7.3–14.5 MHz
Selectable THI (TEI) frequencies	6.2–6.6 MHz
Selectable Color Doppler frequencies	6.2–7.3 MHz
Selectable Pulsed Wave frequencies	6.2–7.3 MHz
Number of elements	192
Footprint	26.88 mm
Maximum display depth	8.0 cm
Biopsy guide kit	N/A
Biopsy guide angles	N/A
Exam types	CV, PV-Venous, Sup MSK
Design attributes	<ul style="list-style-type: none"> <li>• Wide bandwidth linear transducer</li> <li>• Virtual format imaging</li> <li>• User-selectable MultiHertz imaging</li> <li>• Ergonomically designed form factor</li> <li>• Lightweight transducer with flexible cable</li> </ul>

# Phased



## P4-2 Transducer

Part number	11015185
Frequency bandwidth	1.4–4.4 MHz
Selectable 2D frequencies	2.5, 3.1, 3.6 MHz
Selectable THI (TEI) frequencies	3.0, 3.6, 4.0 MHz
Selectable Color Doppler frequencies	2.2, 2.5, 3.3 MHz
Selectable Pulsed Wave frequencies	2.2, 2.5, 3.3 MHz
Selectable Continuous Wave Frequencies	2.0 MHz
Number of elements	64
Footprint	16.6 mm
Maximum field of view	90 degree
Maximum display depth	30 cm
Biopsy guide kit	N/A
Biopsy guide angles	N/A
Exam types	Abdominal, Obstetrics, Emergency Medicine, Cardiac
Design attributes	<ul style="list-style-type: none"> <li>• Wide bandwidth phased array transducer</li> <li>• User-selectable MultiHertz imaging</li> <li>• Ergonomically designed form factor</li> <li>• Lightweight transducer with flexible cable</li> </ul>



## P8-4 Transducer

Part number	11319508
Frequency bandwidth	2.7–8.0 MHz
Selectable 2D frequencies	4.2, 5.7, 6.7 MHz
Selectable THI (TEI) frequencies	5.4, 6.2, 7.2 MHz
Selectable Color Doppler frequencies	3.6, 4.4 MHz
Selectable Pulsed Wave frequencies	3.6, 4.4 MHz
Number of elements	64
Footprint	9.6 mm
Maximum field of view	89 degree
Maximum display depth	14.0 cm
Biopsy guide kit	Not available
Biopsy guide angles	N/A
Exam types	Neonatal Head, Pediatric Abdomen, Pediatric Echo
Design attributes	<ul style="list-style-type: none"> <li>• Wide bandwidth phased array transducer</li> <li>• User-selectable MultiHertz imaging</li> <li>• Ergonomically designed form factor</li> <li>• Lightweight transducer with flexible cable</li> </ul>

# Vector



## 5VT Transducer

Part number	11575657
Frequency bandwidth	3.1–9.2 MHz
Selectable 2D frequencies	4.0–6.6 MHz
Selectable THI (TEI) frequencies	11.4–14.5 MHz
Selectable Color Doppler frequencies	2.9–3.9 MHz
Selectable Pulsed Wave frequencies	2.9–3.9 MHz
Number of elements	64
Footprint	9.6 mm
Maximum field of view	90 degree
Biopsy guide kit	N/A
Biopsy guide angles	N/A
Exam types	TEE
Design attributes	<ul style="list-style-type: none"> <li>• Vector imaging format</li> <li>• User-selectable MultiHertz Imaging</li> </ul>

# Endocavity



## EC9-4 Transducer

Part number	10785548
Frequency bandwidth	3.3–10.3 MHz
Selectable 2D frequencies	5.0, 6.7, 8.0 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	131 degree
Maximum display depth	140 mm
Biopsy guide kit	Disposable PN 11235348 Reusable PN 11253622
Biopsy guide angles	2°
Exam types	Obstetrics, Gynecology, Emergency Medicine, Prostate
Design attributes	<ul style="list-style-type: none"> <li>• User-selectable MultiHertz imaging</li> <li>• Ergonomically designed form factor</li> <li>• Lightweight transducer with flexible cable</li> </ul>

# Non-Imaging



## CW2 Transducer

Part number	11335984
Frequency bandwidth	N/A
Selectable 2D frequencies	N/A
Selectable THI (TEI) frequencies	N/A
Selectable Color Doppler frequencies	N/A
Selectable Pulsed Wave frequencies	N/A
Number of elements	2
Footprint	10.8 mm
Maximum field of view	N/A
Maximum display depth	N/A
Biopsy guide kit	Not available
Biopsy guide angles	N/A
Exam types	Cardiac, Pediatric Echo, Adult Echo



## CW5 Transducer

Part number	11335985
Frequency bandwidth	N/A
Selectable 2D frequencies	N/A
Selectable THI (TEI) frequencies	N/A
Selectable Color Doppler frequencies	N/A
Selectable Pulsed Wave frequencies	N/A
Number of elements	2
Footprint	8.9 mm
Maximum field of view	N/A
Maximum display depth	N/A
Biopsy guide kit	Not available
Biopsy guide angles	N/A
Exam types	Cerebrovascular, Pediatric Echo

# Specialty



**Clinical applications for ACUSON AcuNav 8F ultrasound catheter:**  
 adult intracardiac echocardiography

## ACUSON AcuNav 8F ultrasound catheter

Part number	8267996
Frequency bandwidth	3.0–10.0 MHz
Selectable 2D frequencies	5.0, 6.7, 8.9 MHz
Selectable THI (TEI) frequencies	N/A
Selectable Color Doppler frequencies	4.0, 5.0 MHz
Selectable Pulsed Wave frequencies	4.0, 5.0 MHz
Number of elements	64
Footprint	7.0 mm
Maximum field of view	90 degree
Maximum display depth	160 mm
Biopsy guide kit	Not available
Biopsy guide angles	N/A
Exam types	Intracardiac
Design attributes	<ul style="list-style-type: none"> <li>• 8 french catheter (2.7 mm diameter)</li> <li>• 90 cm insertable length</li> <li>• Sterile, single-use advanced miniaturization ACUSON AcuNav ultrasound catheter family</li> <li>• Reusable SwiftLink catheter connector</li> <li>• Four-way steering in two planes: 160° in each direction</li> <li>• Longitudinal side-fire imaging</li> <li>• Vector imaging format</li> </ul>





**Clinical applications  
for ACUSON AcuNav 10F  
ultrasound catheter:**  
adult intracardiac  
echocardiography

## ACUSON AcuNav 10F ultrasound catheter

Part number	8255790
Frequency bandwidth	2.2–11.0 MHz
Selectable 2D frequencies	5.0, 6.7, 8.9 MHz
Selectable THI (TEI) frequencies	N/A
Selectable Color Doppler frequencies	4.0, 5.0 MHz
Selectable Pulsed Wave frequencies	4.0, 5.0 MHz
Number of elements	64
Footprint	7.0 mm
Maximum field of view	90 degree
Maximum display depth	160 mm
Biopsy guide kit	Not available
Biopsy guide angles	N/A
Exam types	Intracardiac
Design attributes	<ul style="list-style-type: none"> <li>• 10 french catheter (3.3 mm diameter)</li> <li>• 90 cm insertable length</li> <li>• Sterile, single-use advanced miniaturization ACUSON AcuNav ultrasound catheter family</li> <li>• Reusable SwiftLink catheter connector</li> <li>• Four-way steering in two planes: 160° in each direction</li> <li>• Longitudinal side-fire imaging</li> <li>• Vector imaging format</li> </ul>

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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At Siemens Healthineers, we pioneer breakthroughs in healthcare. For everyone. Everywhere. Sustainably. As a leader in medical technology, we want to advance a world in which breakthroughs in healthcare create new possibilities with a minimal impact on our planet. By consistently bringing innovations to the market, we enable healthcare professionals to innovate personalized care, achieve operational excellence, and transform the system of care.

Our portfolio, spanning in vitro and in vivo diagnostics to image-guided therapy and cancer care, is crucial for clinical decision-making and treatment pathways. With the unique combination of our strengths in patient twinning<sup>1</sup>, precision therapy, as well as digital, data, and artificial intelligence (AI), we are well positioned to take on the greatest challenges in healthcare. We will continue to build on these strengths to help overcome the world's most threatening diseases, enable efficient operations, and expand access to care.

We are a team of more than 71,000 Healthineers in over 70 countries passionately pushing the boundaries of what is possible in healthcare to help improve the lives of people around the world.

<sup>1</sup> Personalization of diagnosis, therapy selection and monitoring, after care and managing health.

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