

Transducer



# ACUSON Juniper

## Ultrasound System

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## 5C1 Transducer

|                        |   |
|------------------------|---|
| Frequency Bandwidth:   | 1.4 – 5.0 MHz   |
| Number of Elements:    | 128   |
| Footprint:             | 62.5 mm   |
| Maximum Field of View: | 70°   |
| Maximum Display Depth: | 300 mm  |
| Biopsy Guide:          | Needle Guide Starter Kit, 11361721  |
| Exam Types:            | Abd, Renal, Bowel, FAST, Lung, OB, Early OB, OB (Adv), Fetal Echo, GYN, Venous, Arterial, Pelvis, Spine |

- Design Attributes:
- Curved Vector Format
  - Hanafy lens transducer technology
  - User-selectable MultiHertz™ multiple frequency imaging



## 7C2 Transducer

|                        |  |
|------------------------|--|
| Frequency Bandwidth:   | 2.2 – 7.0 MHz  |
| Number of Elements:    | 192  |
| Footprint:             | 61.8 mm  |
| Maximum Field of View: | 70°  |
| Maximum Display Depth: | 300 mm   |
| Biopsy Guide:          | Needle Guide Starter Kit, 11361722   |
| Exam Types:            | Abd, Renal, Bowel, FAST, Lung, OB, Early OB, OB (Adv), Fetal Echo, GYN, Pelvis, Ped Abd, Spine |

- Design Attributes:
- Curved Vector Format
  - Hanafy lens transducer technology
  - Ergonomically designed form factor
  - User-selectable MultiHertz imaging



### 11M3 Transducer

|                        |  |
|------------------------|--|
| Frequency Bandwidth:   | 3.5 – 11.0 MHz   |
| Number of Elements:    | 128  |
| Footprint:             | 28.1 mm  |
| Maximum Field of View: | 110°   |
| Maximum Display Depth: | 140 mm   |
| Biopsy Guide:          | Not available  |
| Exam Types:            | Ped Abd, Ped Echo, Neo Echo, Neo Head, Carotid   |
| 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> |



### 12L3 Transducer

|                               |  |
|-------------------------------|--|
| Frequency Bandwidth:          | 2.9 – 11.5 MHz   |
| 2D Steering Angle:            | max ± 15°  |
| Color Doppler Steering Angle: | max ± 15°  |
| PW Doppler Steering Angle:    | max ± 15°  |
| Number of Elements:           | 192  |
| Footprint:                    | 51.3 mm  |
| Maximum Field of View:        | 133 mm   |
| Maximum Display Depth:        | 160 mm   |
| Biopsy Guide:                 | Needle Guide Starter Kit, 11335919   |
| Exam Types:                   | Bowel, FAST, Lung, OB, Breast, Testis, Penile, Thyroid, Ped Hip, Carotid, Venous, Arterial, Spine, MSK, Digital, Nerve   |
| Design Attributes:            | <ul style="list-style-type: none"> <li>• Wide bandwidth long linear transducer</li> <li>• Virtual format imaging</li> <li>• Hanafy lens transducer technology</li> </ul> |



### 11L4 Transducer

|                        |  |
|------------------------|--|
| Frequency Bandwidth:   | 3.6 – 13.0 MHz   |
| Number of Elements:    | 128  |
| Footprint:             | 38.4 mm  |
| Maximum Field of View: | 120 mm   |
| Maximum Display Depth: | 160 mm   |
| Biopsy Guide:          | Needle Guide Starter Kit, 11361720   |
| Exam Types:            | Bowel, FAST, Lung, OB, Breast, Testis, Penile, Thyroid, Ped Hip, Carotid, Venous, Arterial, Spine, MSK, Digital, Nerve |

- Design Attributes:
- Wide bandwidth linear transducer
  - Virtual format imaging
  - User-selectable MultiHertz imaging
  - Ergonomically designed form factor
  - 2D beam steering
  - Lightweight transducer with flexible cable



### 16L4 Transducer

|                        |   |
|------------------------|---|
| Frequency Bandwidth:   | 4.3 – 15.4 MHz  |
| Number of Elements:    | 192   |
| Footprint:             | 34.6 mm   |
| Maximum Field of View: | 65 mm   |
| Maximum Display Depth: | 60 mm   |
| Biopsy Guide:          | Needle Guide Starter Kit, 11335924  |
| Exam Types:            | Bowel, FAST, Lung, Breast, Testis, Penile, Thyroid, Ped Hip, Carotid, MSK, Digital, Nerve |

- Design Attributes:
- Wide bandwidth linear transducer
  - Virtual format imaging
  - Hanafy lens transducer technology



## 18H5 Transducer

|                        |  |
|------------------------|--|
| Frequency Bandwidth:   | 4.5 – 18.0 MHz   |
| Number of Elements:    | 192  |
| Footprint:             | 26.9 mm  |
| Maximum Field of View: | 68 mm  |
| Maximum Display Depth: | 80 mm  |
| Biopsy Guide:          | Not available  |
| Exam Types:            | Testis, Penile, MSK, Digital, Nerve, IO Abd, Carotid, Thyroid  |
| 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> |



## 5P1 Transducer

|                        |   |
|------------------------|---|
| Frequency Bandwidth:   | 1.1 – 4.8 MHz   |
| Number of Elements:    | 96  |
| Footprint:             | 22.1 mm   |
| Maximum Field of View: | 90°   |
| Maximum Display Depth: | 300 mm  |
| Biopsy Guide:          | Not available   |
| Exam Types:            | Abd, FAST, LUNG, Renal, Adult Echo, Ped Echo, TCD   |
| Design Attributes:     | <ul style="list-style-type: none"> <li>• Wide bandwidth phased array Single Crystal Piezoelectric transducer</li> <li>• User-selectable MultiHertz imaging</li> <li>• Ergonomically designed form factor</li> <li>• Lightweight transducer with flexible cable</li> </ul> |



### 8V4 Transducer

|                        |  |
|------------------------|--|
| Frequency Bandwidth:   | 2.7 – 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  |
| Exam Types:            | Ped Abd, Ped Echo, Neo Head, Neo 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> |



### 10V4 Transducer

|                        |   |
|------------------------|---|
| Frequency Bandwidth:   | 4.1 – 9.9 MHz   |
| Number of Elements:    | 128   |
| Footprint:             | 14 mm   |
| Maximum Field of View: | 90°   |
| Maximum Display Depth: | 140 mm  |
| Biopsy Guide:          | Not available   |
| Exam Types:            | Ped Abd, Ped Echo, Neo Head, Neo Echo   |
| Design Attributes:     | <ul style="list-style-type: none"> <li>• Vector imaging format</li> <li>• User-selectable MultiHertz Imaging</li> </ul> |



## 9MC3 Transducer

|                        |  |
|------------------------|--|
| Frequency Bandwidth:   | 3.0 – 9.0 MHz  |
| Number of Elements:    | 128  |
| Footprint:             | 31.7 mm  |
| Maximum Field of View: | 220°   |
| Maximum Display Depth: | 140 mm   |
| Biopsy Guide:          | Disposable Needle Guide, 11335912<br>Reusable Needle Guide, 11335913   |
| Exam Types:            | Early OB, OB (Adv), GYN, Prostate, OB  |
| Design Attributes:     | <ul style="list-style-type: none"> <li>• Wide field of view curved array transducer</li> <li>• User-selectable MultiHertz imaging</li> <li>• Lightweight transducer with flexible cable</li> <li>• Curved Vector Format</li> </ul> |



## 10MC3 Transducer

|                        |  |
|------------------------|--|
| Frequency Bandwidth:   | 3.0 – 10.0 MHz   |
| Number of Elements:    | 128  |
| Footprint:             | 32 mm  |
| Maximum Field of View: | 150°   |
| Maximum Display Depth: | 140 mm   |
| Biopsy Guide:          | Disposable Needle Guide, 11335908<br>Reusable Needle Guide, 11335905   |
| Exam Types:            | Early OB, OB (Adv), GYN, Prostate, OB  |
| Design Attributes:     | <ul style="list-style-type: none"> <li>• Wide field of view curved array transducer</li> <li>• User-selectable MultiHertz imaging</li> <li>• Lightweight transducer with flexible cable</li> <li>• Curved Vector Format</li> </ul> |





### 9VE3 Transducer

|                        |  |
|------------------------|--|
| Frequency Bandwidth:   | 3.0 – 9.0 MHz  |
| Number of Elements:    | 128  |
| Footprint:             | 25.5 mm  |
| Maximum Field of View: | 145°   |
| Maximum Display Depth: | 140 mm   |
| Biopsy Guide:          | Reusable Needle Guide, 11370495  |
| Exam Types:            | Early OB, OB (Adv), GYN, Pelvic floor, OB  |
| Design Attributes:     | <ul style="list-style-type: none"> <li>• Curved Vector Format</li> <li>• Wide bandwidth endovaginal volume transducer</li> <li>• User-selectable MultiHertz imaging</li> <li>• Lightweight transducer with flexible cable</li> </ul> |



### 8VC3 Transducer

|                        |  |
|------------------------|--|
| Frequency Bandwidth:   | 2.7 – 8.0 MHz  |
| Number of Elements:    | 128  |
| Footprint:             | 48.9 mm  |
| Maximum Field of View: | 69°  |
| Maximum Display Depth: | 300 mm   |
| Biopsy Guide:          | Not available  |
| Exam Types:            | Abd, OB, Early OB, OB (ADV), GYN, Pelvic floor, Fetal Echo   |
| Design Attributes:     | <ul style="list-style-type: none"> <li>• Curved 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> |



### CW2 Transducer

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



### CW5 Transducer

|                                    |  |
|------------------------------------|--|
| Selectable CW Doppler Frequencies: | 5.0 MHz  |
| Number of Elements:                | 2  |
| Footprint:                         | 17 mm  |
| Diameter:                          | 17 mm  |
| Biopsy Guide:                      | Not available  |
| Compatible with:                   | ACUSON S3000 ultrasound system<br>ACUSON S2000 ultrasound system<br>ACUSON S1000 ultrasound system<br>ACUSON X700 ultrasound system<br>ACUSON X600 ultrasound system<br>ACUSON X300 ultrasound system, premium edition (PE)<br>ACUSON X300 ultrasound system |
| Exam Types:                        | Carotid, TCD, Ped Echo   |

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Frequency Bandwidth measurements represent bandwidth at  $\pm 20$  dB.

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