

# Transducer Data Sheet

**1. Convex**

|                                                                                                             |           | C251                                 | C252                                 | C253                                 | C35                                  | C41                                                                                  | C42                                                                                  |
|-------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.                         | Hitachi Ltd.                         | Hitachi Ltd.                         | Hitachi Ltd.                         | Hitachi Ltd.                                                                         | Hitachi Ltd.                                                                         |
| Medical applications                                                                                        |           | Abdominal<br>Fetal<br>Small organ    | Abdominal<br>Fetal<br>Small organ    | Abdominal<br>Fetal<br>Small organ    | Abdominal<br>Fetal<br>Small organ    | Abdominal<br>Small organ<br>Superficial organs<br>Musculo-skel.<br>Peripheral vessel | Abdominal<br>Small organ<br>Intraoperative<br>Neonatal Cephalic<br>Peripheral vessel |
|                                                                                                             | Reference | MN1-5839                             | MN1-6297                             | MN1-6407                             | MN1-5847                             | Q1E-EP1393                                                                           | Q1E-EP1359                                                                           |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult<br>pediatric                   | adult<br>pediatric                   | adult<br>pediatric                   | adult<br>pediatric                   | adult<br>pediatric                                                                   | adult<br>neonatal<br>pediatric                                                       |
|                                                                                                             | Reference | MN1-5839                             | MN1-6297                             | MN1-6407                             | MN1-5847                             | Q1E-EP1393                                                                           | Q1E-EP1359                                                                           |
| Type of probe<br>(convex, linear, endocavitary, sector, 3D, 4D...)                                          |           | convex                               | convex                               | convex                               | convex                               | convex                                                                               | convex                                                                               |
| Number of elements                                                                                          |           | 160                                  | 160                                  | 160                                  | 192                                  | 128                                                                                  | 128                                                                                  |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | ceramics<br>(multi-layer)            | single crystal                       | ceramics<br>(multi-layer)            | ceramics<br>(multi-layer)            | ceramics                                                                             | ceramics<br>(multi-layer)                                                            |
| Shape of elements                                                                                           |           | 50R                                  | 50R                                  | 50R                                  | 50R                                  | 12R                                                                                  | 21R                                                                                  |
| Dimension of the skin contact area (mm x mm)                                                                |           | 72.8 × 10.5                          | 72.8 × 14                            | 72.7 × 15.2                          | 66.8 × 11                            | 26.7 × 9                                                                             | 36.2 × 11                                                                            |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | C: 70deg.                            | C: 70deg.                            | C: 70deg.                            | C: 70deg.                            | C: 100deg.                                                                           | C: 100deg.                                                                           |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | Electronic convex                    | Electronic convex                    | Electronic convex                    | Electronic convex                    | Electronic convex                                                                    | Electronic convex                                                                    |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | N/A                                  | N/A                                  | N/A                                  | N/A                                  | N/A                                                                                  | N/A                                                                                  |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | N/A                                  | N/A                                  | N/A                                  | N/A                                  | N/A                                                                                  | N/A                                                                                  |
| Nominal Imaging Frequencies                                                                                 |           | 3.0MHz<br>(5-1MHz)                   | 3.0MHz<br>(6-1MHz)                   | 3.0MHz<br>(5-1MHz)                   | 5.0MHz<br>(8-2MHz)                   | 7.5MHz<br>(13-4MHz)                                                                  | 6.5MHz<br>(8-4MHz)                                                                   |
| Weight (probe + connection cable)                                                                           |           | 300                                  | 300                                  | 300                                  | 310                                  | 240                                                                                  | 240                                                                                  |
| Cable length (cm)                                                                                           |           | 220                                  | 220                                  | 220                                  | 220                                  | 200                                                                                  | 220                                                                                  |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | N/A                                  | N/A                                  | N/A                                  | N/A                                  | N/A                                                                                  | N/A                                                                                  |
| Sterilization is possible                                                                                   |           | X                                    | X                                    | X                                    | X                                    | X                                                                                    | X                                                                                    |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) | Reference | See Instructon<br>Manual<br>MN1-5998 | See Instructon<br>Manual<br>MN1-5998 | See Instructon<br>Manual<br>MN1-5998 | See Instructon<br>Manual<br>MN1-5998 | See Instructon<br>Manual<br>Q1E-EP1393                                               | See Instructon<br>Manual<br>Q1E-EP1359                                               |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    | Reference | See Instructon<br>Manual<br>MN1-5998 | See Instructon<br>Manual<br>MN1-5998 | See Instructon<br>Manual<br>MN1-5998 | See Instructon<br>Manual<br>MN1-5998 | See Instructon<br>Manual<br>Q1E-EP1393                                               | See Instructon<br>Manual<br>Q1E-EP1359                                               |
| Biopsy attachment available                                                                                 |           | X                                    | X                                    | X                                    | X                                    | N/A                                                                                  | X                                                                                    |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

## 1. Convex

|                                                                                                             |           | C22P                                   | C25P                                 |
|-------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------|--------------------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.                           | Hitachi Ltd.                         |
| Medical applications                                                                                        |           | Abdominal<br>Fetal<br>Biopsy           | Abdominal<br>Fetal<br>Biopsy         |
|                                                                                                             | Reference | Q1E-EP1457                             | MN1-5821                             |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult                                  | adult                                |
|                                                                                                             | Reference | Q1E-EP1457                             | MN1-5821                             |
| Type of probe<br>(convex, linear, endocavitary, sector, 3D, 4D...)                                          |           | convex                                 | convex                               |
| Number of elements                                                                                          |           | 128                                    | 160                                  |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | ceramics<br>(multi-layer)              | ceramics<br>(multi-layer)            |
| Shape of elements                                                                                           |           | 22R                                    | 50R                                  |
| Dimension of the skin contact area (mm x mm)                                                                |           | 29.3 × 14.1                            | 72.8 × 15                            |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | C: 74deg.                              | C: 70deg.                            |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | Electronic convex                      | Electronic convex                    |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | N/A                                    | N/A                                  |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | N/A                                    | N/A                                  |
| Nominal Imaging Frequencies                                                                                 |           | 3.0MHz<br>(6-1MHz)                     | 3.0MHz<br>(5-1MHz)                   |
| Weight (probe + connection cable)                                                                           |           | 490                                    | 250                                  |
| Cable length (cm)                                                                                           |           | 220                                    | 220                                  |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | N/A                                    | N/A                                  |
| Sterilization is possible                                                                                   |           | X                                      | X                                    |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) | Reference | See Instructon<br>Manual<br>Q1E-EP1457 | See Instructon<br>Manual<br>MN1-5998 |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    | Reference | See Instructon<br>Manual<br>Q1E-EP1457 | See Instructon<br>Manual<br>MN1-5998 |
| Biopsy attachment available                                                                                 |           | X                                      | X                                    |

\*1 Suppose "composite" means 2 dimensional cut structure, All corresponding  
natures of each probe are stated.

## 2. Linear

|                                                                                                             |           | L34                                                            | L44                                                                                                              | L441                                                                             | L442                                                           | L55                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.                                                   | Hitachi Ltd.                                                                                                     | Hitachi Ltd.                                                                     | Hitachi Ltd.                                                   | Hitachi Ltd.                                                                                                    |
| Medical applications                                                                                        |           | Abdominal<br>Small organ<br>Musculo-skel.<br>Peripheral vessel | Abdominal<br>Small organ<br>Musculo-skel.<br>Peripheral vessel<br>Superficial organ<br>Cervical<br>Mammary gland | Abdominal<br>Small organ<br>Musculo-skel.<br>Peripheral vessel<br>Carotid artery | Abdominal<br>Small organ<br>Musculo-skel.<br>Peripheral vessel | Abdominal<br>Small organ<br>Musculo-skel.<br>Peripheral vessel<br>Supeficial organs<br>Thyroid<br>Mammary gland |
|                                                                                                             | Reference | Q1E-EP1361                                                     | Q1E-EP1370                                                                                                       | MN1-5825                                                                         | MN1-6423                                                       | Q1E-EP1368                                                                                                      |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult<br>pediatric                                             | adult<br>pediatric                                                                                               | adult<br>pediatric                                                               | adult<br>pediatric                                             | adult<br>pediatric                                                                                              |
|                                                                                                             | Reference | Q1E-EP1361                                                     | Q1E-EP1370                                                                                                       | MN1-5825                                                                         | MN1-6423                                                       | Q1E-EP1368                                                                                                      |
| Type of probe<br>(convex, linear, endocavitary,sector, 3D, 4D...)                                           |           | linear                                                         | linear                                                                                                           | linear                                                                           | linear                                                         | linear                                                                                                          |
| Number of elements                                                                                          |           | 128                                                            | 160                                                                                                              | 192                                                                              | 192                                                            | 192                                                                                                             |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | ceramics<br>(multi-layer)                                      | composite                                                                                                        | ceramics                                                                         | ceramics                                                       | composite                                                                                                       |
| Shape of elements                                                                                           |           | -                                                              | -                                                                                                                | -                                                                                | -                                                              | -                                                                                                               |
| Dimension of the skin contact area (mm x mm)                                                                |           | 41.0 × 11                                                      | 42.1 × 11.2                                                                                                      | 42.1 × 8.8                                                                       | 41.9 × 11.1                                                    | 54.8 × 10.2                                                                                                     |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | L: 38mm                                                        | L: 38mm                                                                                                          | L: 38mm                                                                          | L: 38mm                                                        | L: 50mm                                                                                                         |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | Electronic linear                                              | Electronic linear                                                                                                | Electronic linear                                                                | Electronic linear                                              | Electronic linear                                                                                               |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | N/A                                                            | N/A                                                                                                              | N/A                                                                              | N/A                                                            | N/A                                                                                                             |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | N/A                                                            | N/A                                                                                                              | N/A                                                                              | N/A                                                            | N/A                                                                                                             |
| Nominal Imaging Frequencies                                                                                 |           | 5MHz<br>(7-3MHz)                                               | 6.5MHz<br>(9-4MHz)                                                                                               | 6.0MHz<br>(12-2MHz)                                                              | 7.0MHz<br>(12-2MHz)                                            | 7.5MHz<br>(13-5MHz)                                                                                             |
| Weight (probe + connection cable)                                                                           |           | 230                                                            | 220                                                                                                              | 300                                                                              | 300                                                            | 250                                                                                                             |
| Cable length (cm)                                                                                           |           | 220                                                            | 220                                                                                                              | 200                                                                              | 220                                                            | 220                                                                                                             |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | N/A                                                            | N/A                                                                                                              | N/A                                                                              | N/A                                                            | N/A                                                                                                             |
| Sterilization is possible                                                                                   |           | X                                                              | X                                                                                                                | X                                                                                | X                                                              | X                                                                                                               |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) |           | See Instructon Manual                                          | See Instructon Manual                                                                                            | See Instructon Manual                                                            | See Instructon Manual                                          | See Instructon Manual                                                                                           |
|                                                                                                             | Reference | Q1E-EP1361                                                     | Q1E-EP1370                                                                                                       | MN1-5998                                                                         | MN1-5998                                                       | Q1E-EP1368                                                                                                      |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    |           | See Instructon Manual                                          | See Instructon Manual                                                                                            | See Instructon Manual                                                            | See Instructon Manual                                          | See Instructon Manual                                                                                           |
|                                                                                                             | Reference | Q1E-EP1361                                                     | Q1E-EP1370                                                                                                       | MN1-5998                                                                         | MN1-5998                                                       | Q1E-EP1368                                                                                                      |
| Biopsy attachment available                                                                                 |           | X                                                              | X                                                                                                                | X                                                                                | X                                                              | X                                                                                                               |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

## 2. Linear

|                                                                                                             |           | L64                                                                                                              | SML44                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.                                                                                                     | Hitachi Ltd.                                                                                                      |
| Medical applications                                                                                        |           | Abdominal<br>Small organ<br>Musculo-skel.<br>Peripheral vessel<br>Superficial organs<br>Thyroid<br>Mammary gland | Abdominal<br>Small organ<br>Musculo-skel.<br>Peripheral vessel<br>Superficial organs<br>Vascular<br>Mammary gland |
|                                                                                                             | Reference | Q1E-EP1366                                                                                                       | MN1-6363                                                                                                          |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult<br>pediatric                                                                                               | adult<br>pediatric                                                                                                |
|                                                                                                             | Reference | Q1E-EP1366                                                                                                       | MN1-6363                                                                                                          |
| Type of probe<br>(convex, linear, endocavitary,sector, 3D, 4D...)                                           |           | linear                                                                                                           | linear                                                                                                            |
| Number of elements                                                                                          |           | 192                                                                                                              | 1728                                                                                                              |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | composite                                                                                                        | CMUT                                                                                                              |
| Shape of elements                                                                                           |           | -                                                                                                                | -                                                                                                                 |
| Dimension of the skin contact area (mm x mm)                                                                |           | 42.1 × 8.7                                                                                                       | 45.7 × 11.4                                                                                                       |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | L: 38mm                                                                                                          | L: 38mm                                                                                                           |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | Electronic linear                                                                                                | Electronic linear                                                                                                 |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | N/A                                                                                                              | N/A                                                                                                               |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | N/A                                                                                                              | N/A                                                                                                               |
| Nominal Imaging Frequencies                                                                                 |           | 10MHz<br>(18-5MHz)                                                                                               | 7.5MHz<br>(22-2MHz)                                                                                               |
| Weight (probe + connection cable)                                                                           |           | 250                                                                                                              | 420                                                                                                               |
| Cable length (cm)                                                                                           |           | 220                                                                                                              | 220                                                                                                               |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | N/A                                                                                                              | N/A                                                                                                               |
| Sterilization is possible                                                                                   |           | X                                                                                                                | X                                                                                                                 |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) |           | See Instructon Manual                                                                                            | See Instructon Manual                                                                                             |
|                                                                                                             | Reference | Q1E-EP1366                                                                                                       | MN1-5998                                                                                                          |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    |           | See Instructon Manual                                                                                            | See Instructon Manual                                                                                             |
|                                                                                                             | Reference | Q1E-EP1366                                                                                                       | MN1-5998                                                                                                          |
| Biopsy attachment available                                                                                 |           | X                                                                                                                | N/A                                                                                                               |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

**3. Sector**

|                                                                                                        |           | S11                                                                         | S12                                                                         | S121                                                                        | S211                                                                        | S22                                                                         |
|--------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Manufacturer                                                                                           |           | Hitachi Ltd.                                                                | Hitachi Ltd.                                                                | Hitachi Ltd.                                                                | Hitachi Ltd.                                                                | Hitachi Ltd.                                                                |
| Medical applications                                                                                   |           | Cardiovascular<br>Fetal<br>Abdominal<br>Adult Cephalic<br>Peripheral vessel | Cardiovascular<br>Fetal<br>Abdominal<br>Adult Cephalic<br>Peripheral vessel | Cardiovascular<br>Fetal<br>Abdominal<br>Adult Cephalic<br>Peripheral vessel | Cardiovascular<br>Fetal<br>Abdominal<br>Adult Cephalic<br>Peripheral vessel | Cardiovascular<br>Fetal<br>Abdominal<br>Adult Cephalic<br>Peripheral vessel |
|                                                                                                        | Reference | MN1-6409                                                                    | MN1-5845                                                                    | MN1-6279                                                                    | MN1-5843                                                                    | MN1-6299                                                                    |
| Patients (adult, pediatric, neonatal)                                                                  |           | adult<br>pediatric                                                          | adult<br>pediatric                                                          | adult<br>pediatric                                                          | adult<br>pediatric                                                          | adult<br>pediatric                                                          |
|                                                                                                        | Reference | MN1-6409                                                                    | MN1-5845                                                                    | MN1-6279                                                                    |                                                                             |                                                                             |
| Type of probe<br>(convex, linear, endocavitary, sector, 3D, 4D...)                                     |           | sector                                                                      | sector                                                                      | sector                                                                      | sector                                                                      | sector                                                                      |
| Number of elements                                                                                     |           | 64                                                                          | 80                                                                          | 80                                                                          | 64                                                                          | 80                                                                          |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                |           | ceramics                                                                    | single crystal                                                              | single crystal                                                              | crystals                                                                    | ceramics                                                                    |
| Shape of elements                                                                                      |           | -                                                                           | -                                                                           | -                                                                           | -                                                                           | -                                                                           |
| Dimension of the skin contact area (mm x mm)                                                           |           | 24.1 × 17.2                                                                 | 23.0 × 16                                                                   | 22.1 × 15.2                                                                 | 23.5 × 17                                                                   | 22.1 × 15.2                                                                 |
| Field of view<br>(linear: width, convex: sector angle)                                                 |           | S: 90deg.<br>(wide scan: 120deg.)                                           | S: 90deg.                                                                   | S: 90deg.<br>(wide scan: 120deg.)                                           | S: 90deg.                                                                   | S: 90deg.                                                                   |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)? |           | Phased Array                                                                | Phased Array                                                                | Phased Array                                                                | Phased Array                                                                | Phased Array                                                                |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                |           | N/A                                                                         | N/A                                                                         | N/A                                                                         | N/A                                                                         | N/A                                                                         |
| For 3D / 4D probes: sweep angle (in degrees)                                                           |           | N/A                                                                         | N/A                                                                         | N/A                                                                         | N/A                                                                         | N/A                                                                         |
| Nominal Imaging Frequencies                                                                            |           | 2.5MHz<br>(5-1MHz)                                                          | 3.0MHz<br>(5-1MHz)                                                          | 2.75MHz<br>(5-1MHz)                                                         | 3.0MHz<br>(5-1MHz)                                                          | 3.0MHz<br>(5-1MHz)                                                          |
| Weight (probe + connection cable)                                                                      |           | 130                                                                         | 180                                                                         | 190                                                                         | 180                                                                         | 190                                                                         |
| Cable length (cm)                                                                                      |           | 220                                                                         | 220                                                                         | 225                                                                         | 220                                                                         | 190                                                                         |
| Fully immersible probe<br>(specify whether the connector is also immersible)                           |           | N/A                                                                         | N/A                                                                         | N/A                                                                         | N/A                                                                         | N/A                                                                         |
| Sterilization is possible                                                                              |           | X                                                                           | X                                                                           | X                                                                           | X                                                                           | X                                                                           |
| Recommended method for decontamination and<br>recommended products                                     |           | See Instructon Manual                                                       | See Instructon Manual                                                       | See Instructon Manual                                                       | See Instructon Manual                                                       | See Instructon Manual                                                       |
| (Trade name versus active ingredient)                                                                  | Reference | MN1-5998                                                                    | MN1-5998                                                                    | MN1-5998                                                                    | MN1-5998                                                                    | MN1-5998                                                                    |
| Recommended method for disinfection<br>and recommended products                                        |           | See Instructon Manual                                                       | See Instructon Manual                                                       | See Instructon Manual                                                       | See Instructon Manual                                                       | See Instructon Manual                                                       |
| (Trade name versus active ingredient)                                                                  | Reference | MN1-5998                                                                    | MN1-5998                                                                    | MN1-5998                                                                    | MN1-5998                                                                    | MN1-5998                                                                    |
| Biopsy attachment available                                                                            |           | N/A                                                                         | N/A                                                                         | N/A                                                                         | N/A                                                                         | N/A                                                                         |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

**3. Sector**

|                                                                                                        |           | <b>S31</b>                                       | <b>S42</b>                                       | <b>S3ESEL</b>                                | <b>S3ESL1</b>                                |
|--------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------|----------------------------------------------|
| Manufacturer                                                                                           |           | Hitachi Ltd.                                     | Hitachi Ltd.                                     | Hitachi Ltd.                                 | Hitachi Ltd.                                 |
| Medical applications                                                                                   |           | Cardiovascular<br>Abdominal<br>Neonatal Cephalic | Cardiovascular<br>Abdominal<br>Neonatal Cephalic | Trans-esophageal<br>Heart and thoracic aorta | Trans-esophageal<br>Heart and thoracic aorta |
|                                                                                                        | Reference | Q1E-EP1376                                       | MN1-6088                                         | MN1-6088                                     | MN1-6111                                     |
| Patients (adult, pediatric, neonatal)                                                                  |           | adult<br>pediatric<br>neonatal                   | adult<br>pediatric<br>neonatal                   | adult<br>pediatric                           | adult<br>pediatric                           |
|                                                                                                        | Reference | Q1E-EP1376                                       | MN1-6088                                         | MN1-6088                                     | MN1-6111                                     |
| Type of probe<br>(convex, linear, endocavitary, sector, 3D, 4D...)                                     |           | sector                                           | sector                                           | sector/<br>endocavitary                      | sector/<br>endocavitary                      |
| Number of elements                                                                                     |           | 64                                               | 96                                               | 64                                           | 64                                           |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                |           | single crystal                                   | ceramics<br>(multi-layer)                        | ceramics                                     | ceramics                                     |
| Shape of elements                                                                                      |           | -                                                | -                                                | -                                            | -                                            |
| Dimension of the skin contact area (mm x mm)                                                           |           | 13.9 × 12                                        | 13.0 × 10                                        | diameter<br>12.2                             | diameter<br>11.8                             |
| Field of view<br>(linear: width, convex: sector angle)                                                 |           | S: 90deg.<br>(wide scan: 100deg.)                | S: 90deg.<br>(wide scan: 100deg.)                | S: 90deg.                                    | S: 90deg.                                    |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)? |           | Phased Array                                     | Phased Array                                     | Phased Array                                 | Phased Array                                 |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                |           | N/A                                              | N/A                                              | N/A                                          | N/A                                          |
| For 3D / 4D probes: sweep angle (in degrees)                                                           |           | N/A                                              | N/A                                              | N/A                                          | N/A                                          |
| Nominal Imaging Frequencies                                                                            |           | 5.0MHz<br>(9-2MHz)                               | 8.0MHz<br>(14-3MHz)                              | 5.0MHz<br>(8-2MHz)                           | 5.0MHz<br>(9-2MHz)                           |
| Weight (probe + connection cable)                                                                      |           | 140                                              | 140                                              | 940                                          | 690                                          |
| Cable length (cm)                                                                                      |           | 220                                              | 220                                              | 156                                          | 210                                          |
| Fully immersible probe<br>(specify whether the connector is also immersible)                           |           | N/A                                              | N/A                                              | N/A                                          | X                                            |
| Sterilization is possible                                                                              |           | X                                                | X                                                | X                                            | X                                            |
| Recommended method for decontamination and<br>recommended products                                     |           | See Instructon Manual                            | See Instructon Manual                            | See Instructon Manual                        | See Instructon Manual                        |
| (Trade name versus active ingredient)                                                                  | Reference | Q1E-EP1376                                       | MN1-5998                                         | MN1-5998                                     | MN1-6117                                     |
| Recommended method for disinfection<br>and recommended products                                        |           | See Instructon Manual                            | See Instructon Manual                            | See Instructon Manual                        | See Instructon Manual                        |
| (Trade name versus active ingredient)                                                                  | Reference | Q1E-EP1376                                       | MN1-5998                                         | MN1-5998                                     | MN1-6117                                     |
| Biopsy attachment available                                                                            |           | N/A                                              | N/A                                              | N/A                                          | N/A                                          |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

**4. Endocavity**

|                                                                                                        |           | C41V                                             | C41V1                                            | C41B                                             | C41RP                                       | R41R                       | R41RL                      | C41L47RP                                                   |
|--------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|---------------------------------------------|----------------------------|----------------------------|------------------------------------------------------------|
| Manufacturer                                                                                           |           | Hitachi Ltd.                                     | Hitachi Ltd.                                     | Hitachi Ltd.                                     | Hitachi Ltd.                                | Hitachi Ltd.               | Hitachi Ltd.               | Hitachi Ltd.                                               |
| Medical applications                                                                                   |           | OB/GYN<br>Fetal<br>Trans-rectal<br>Trans-vaginal | OB/GYN<br>Fetal<br>Trans-rectal<br>Trans-vaginal | OB/GYN<br>Fetal<br>Trans-rectal<br>Trans-vaginal | Urological<br>Trans-rectal<br>Trans-vaginal | Urological<br>Trans-rectal | Urological<br>Trans-rectal | Urological<br>Transrectal                                  |
|                                                                                                        | Reference | Q1E-EP1363                                       | Q1E-EP1432                                       | MN1-6019                                         | MN1-5827                                    | MN1-5930                   | MN1-6033                   | Q1E-EP1451                                                 |
| Patients (adult, pediatric, neonatal)                                                                  |           | adult                                            | adult                                            | adult                                            | adult                                       | adult                      | adult                      | adult                                                      |
|                                                                                                        | Reference | Q1E-EP1363                                       | Q1E-EP1432                                       | MN1-6019                                         | MN1-5827                                    | MN1-5930                   | MN1-6033                   | Q1E-EP1451                                                 |
| Type of probe<br>(convex, linear, endocavitary,sector, 3D, 4D...)                                      |           | convex/<br>endocavitary                          | convex/<br>endocavitary                          | convex/<br>endocavitary                          | convex/<br>endocavitary                     | convex/<br>endocavitary    | convex/<br>endocavitary    | linear/<br>convex/<br>endocavitary                         |
| Number of elements                                                                                     |           | 192                                              | 192                                              | 192                                              | 156                                         | 256                        | 256                        | sagittal: 192<br>axial: 192                                |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                |           | ceramics                                         | ceramics<br>(multi-layer)                        | ceramics<br>(multi-layer)                        | ceramics                                    | ceramics                   | ceramics                   | ceramics                                                   |
| Shape of elements                                                                                      |           | 10R                                              | 10R                                              | 10R                                              | 9R                                          | 6R                         | 6R                         | sagittal: -<br>axial: 10R                                  |
| Dimension of the skin contact area (mm x mm)                                                           |           | 42.9 × 9.6                                       | 42.9 × 10                                        | 42.9 × 10                                        | 31.419.5                                    | 38.6 × 9                   | 38.6 × 9                   | L(s): 76 × 10<br>C(a): 42.6 × 9.6                          |
| Field of view<br>(linear: width, convex: sector angle)                                                 |           | C: 200deg.                                       | C: 200deg.                                       | C: 200deg.                                       | C: 180deg.                                  | C: 360deg.                 | C: 360deg.                 | L(s): 64mm<br>C(a): 200deg.                                |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)? |           | Electronic convex                                | Electronic convex                                | Electronic convex                                | Electronic convex                           | Electronic convex          | Electronic convex          | Electronic<br>(s) linear<br>(a) convex                     |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                |           | N/A                                              | N/A                                              | N/A                                              | N/A                                         | N/A                        | N/A                        | N/A                                                        |
| For 3D / 4D probes: sweep angle (in degrees)                                                           |           | N/A                                              | N/A                                              | N/A                                              | N/A                                         | N/A                        | N/A                        | N/A                                                        |
| Nominal Imaging Frequencies                                                                            |           | 6.5MHz<br>(8-4MHz)                               | 6.5MHz<br>(10-2MHz)                              | 6.5MHz<br>(10-2MHz)                              | 6.0MHz<br>(9-2MHz)                          | 7.5MHz<br>(10-5MHz)        | 7.5MHz<br>(10-5MHz)        | sagittal: 7.5MHz<br>(10-5MHz)<br>axial: 6.5MHz<br>(8-4MHz) |
| Weight (probe + connection cable)                                                                      |           | 390                                              | 590                                              | 330                                              | 425                                         | 530                        | 530                        | 1090                                                       |
| Cable length (cm)                                                                                      |           | 220                                              | 250                                              | 250                                              | 250                                         | 210                        | 210                        | 220                                                        |
| Fully immersible probe<br>(specify whether the connector is also immersible)                           |           | N/A                                              | N/A                                              | X                                                | X                                           | X                          | X                          | N/A                                                        |
| Sterilization is possible                                                                              |           | X                                                | X                                                | X                                                | X                                           | X                          | X                          | X                                                          |
| Recommended method for decontamination and<br>recommended products                                     |           | See Instructon<br>Manual                         | See Instructon<br>Manual                         | See Instructon<br>Manual                         | See Instructon<br>Manual                    | See Instructon<br>Manual   | See Instructon<br>Manual   | See Instructon<br>Manual                                   |
| (Trade name versus active ingredient)                                                                  | Reference | Q1E-EP1363                                       | Q1E-EP1432                                       | MN1-6161                                         | MN1-6161                                    | MN1-6161                   | MN1-6161                   | Q1E-EP1451                                                 |
| Recommended method for disinfection<br>and recommended products                                        |           | See Instructon<br>Manual                         | See Instructon<br>Manual                         | See Instructon<br>Manual                         | See Instructon<br>Manual                    | See Instructon<br>Manual   | See Instructon<br>Manual   | See Instructon<br>Manual                                   |
| (Trade name versus active ingredient)                                                                  | Reference | Q1E-EP1363                                       | Q1E-EP1432                                       | MN1-6161                                         | MN1-6161                                    | MN1-6161                   | MN1-6161                   | Q1E-EP1451                                                 |
| Biopsy attachment available                                                                            |           | X                                                | X                                                | X                                                | X                                           | N/A                        | N/A                        | X                                                          |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

**4. Endocavity**

|                                                                                                        |           | CL4416R                                                     | CC41R                                                     | CC41R1                                                      |
|--------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|
| Manufacturer                                                                                           |           | Hitachi Ltd.                                                | Hitachi Ltd.                                              | Hitachi Ltd.                                                |
| Medical applications                                                                                   |           | Urological<br>Trans-rectal                                  | OB/GYN<br>Urological<br>Fetal<br>Trans-rectal             | OB/GYN<br>Urological<br>Fetal<br>Trans-rectal               |
|                                                                                                        | Reference | MN1-6266                                                    | MN1-5928                                                  | MN1-6264                                                    |
| Patients (adult, pediatric, neonatal)                                                                  |           | adult                                                       | adult                                                     | adult                                                       |
|                                                                                                        | Reference | adult                                                       | MN1-5928                                                  | MN1-6264                                                    |
| Type of probe<br>(convex, linear, endocavitary, sector, 3D, 4D...)                                     |           | linear/<br>convex/<br>endocavitary                          | convex/<br>convex/<br>endocavitary                        | convex/<br>convex/<br>endocavitary                          |
| Number of elements                                                                                     |           | sagittal: 192<br>axial: 152                                 | sagittal: 96<br>axial: 128                                | sagittal: 152<br>axial: 152                                 |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                |           | ceramics<br>(multi-layer)                                   | ceramics                                                  | ceramics<br>(multi-layer)                                   |
| Shape of elements                                                                                      |           | sagittal: -<br>axial: 9R                                    | sagittal: 10R<br>axial: 10R                               | sagittal: 9R<br>axial: 9R                                   |
| Dimension of the skin contact area (mm x mm)                                                           |           | L(s): 72.6 × 9.3<br>C(a): 34.7 × 10                         | C(s): 23.6 × 12.7<br>C(a): 30.8 × 12                      | C(s): 34.7 × 10<br>C(a): 34.7 × 10                          |
| Field of view<br>(linear: width, convex: sector angle)                                                 |           | L(s): 63mm<br>C(a): 180deg.                                 | C(s): 100deg.<br>C(a): 120deg.                            | C(s): 180deg.<br>C(a): 180deg.                              |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)? |           | Electronic<br>(s) linear<br>(a) convex                      | Electronic<br>(s) convex<br>(a) convex                    | Electronic<br>(s) convex<br>(a) convex                      |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                |           | N/A                                                         | N/A                                                       | N/A                                                         |
| For 3D / 4D probes: sweep angle (in degrees)                                                           |           | N/A                                                         | N/A                                                       | N/A                                                         |
| Nominal Imaging Frequencies                                                                            |           | sagittal: 7.5MHz<br>(14-2MHz)<br>axial: 6.5MHz<br>(10-2MHz) | sagittal: 6.5MHz<br>(8-4MHz)<br>axial: 6.5MHz<br>(8-4MHz) | sagittal: 6.5MHz<br>(10-2MHz)<br>axial: 6.5MHz<br>(10-2MHz) |
| Weight (probe + connection cable)                                                                      |           | 490                                                         | 445                                                       | 440                                                         |
| Cable length (cm)                                                                                      |           | 250                                                         | 210                                                       | 250                                                         |
| Fully immersible probe<br>(specify whether the connector is also immersible)                           |           | X                                                           | N/A                                                       | X                                                           |
| Sterilization is possible                                                                              |           | X                                                           | X                                                         | X                                                           |
| Recommended method for decontamination and<br>recommended products                                     |           | See Instructon<br>Manual                                    | See Instructon<br>Manual                                  | See Instructon<br>Manual                                    |
| (Trade name versus active ingredient)                                                                  | Reference | MN1-6161                                                    | MN1-6161                                                  | MN1-6161                                                    |
| Recommended method for disinfection<br>and recommended products                                        |           | See Instructon<br>Manual                                    | See Instructon<br>Manual                                  | See Instructon<br>Manual                                    |
| (Trade name versus active ingredient)                                                                  | Reference | MN1-6161                                                    | MN1-6161                                                  | MN1-6161                                                    |
| Biopsy attachment available                                                                            |           | X                                                           | X                                                         | X                                                           |

\*1 Suppose "composite" means 2 dimensional cut structure, All corresponding natures of each probe are stated.

## 5. Intraoperative

|                                                                                                             |           | C22K                     | C22T                     | C22I                     | C42K                       | C42T                        | L43K                     |
|-------------------------------------------------------------------------------------------------------------|-----------|--------------------------|--------------------------|--------------------------|----------------------------|-----------------------------|--------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.             | Hitachi Ltd.             | Hitachi Ltd.             | Hitachi Ltd.               | Hitachi Ltd.                | Hitachi Ltd.             |
| Medical applications                                                                                        |           | Intraoperative Abdominal | Intraoperative           | Intraoperative           | Intraoperative Small Organ | Intraoperative Neurosurgery | Intraoperative           |
|                                                                                                             | Reference | Q1E-EP1389               | MN1-6031                 | MN1-6119                 | Q1E-EP1391                 | MN1-5823                    | MN1-6025                 |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult                    | adult                    | adult                    | adult                      | adult                       | adult                    |
|                                                                                                             | Reference | Q1E-EP1389               | MN1-6031                 | MN1-6119                 | Q1E-EP1391                 | MN1-5823                    | MN1-6025                 |
| Type of probe<br>(convex, linear, endocavitary, sector, 3D, 4D...)                                          |           | convex                   | convex                   | convex                   | convex                     | convex                      | linear                   |
| Number of elements                                                                                          |           | 90                       | 90                       | 90                       | 144                        | 144                         | 128                      |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | ceramics                 | ceramics                 | ceramics                 | ceramics                   | ceramics                    | ceramics                 |
| Shape of elements                                                                                           |           | 21R                      | 20R                      | 20R                      | 21R                        | 20R                         | -                        |
| Dimension of the skin contact area (mm x mm)                                                                |           | 33.8 × 11.4              | 33.8 × 11.4              | 33.8 × 11.4              | 28.8 × 10.1                | 28.8 × 10.1                 | 31.5 × 7.2               |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | C: 82deg.                | C: 82deg.                | C: 82deg.                | C: 65deg.                  | C: 65deg.                   | L: 26mm                  |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | Electronic convex        | Electronic convex        | Electronic convex        | Electronic convex          | Electronic convex           | Electronic linear        |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | N/A                      | N/A                      | N/A                      | N/A                        | N/A                         | N/A                      |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | N/A                      | N/A                      | N/A                      | N/A                        | N/A                         | N/A                      |
| Nominal Imaging Frequencies                                                                                 |           | 3.5MHz<br>(6-1MHz)       | 3.5MHz<br>(6-1MHz)       | 3.5MHz<br>(6-1MHz)       | 7.5MHz<br>(10-4MHz)        | 7.5MHz<br>(10-3MHz)         | 7.0MHz<br>(12-2MHz)      |
| Weight (probe + connection cable)                                                                           |           | 160                      | 180                      | 180                      | 350                        | 180                         | 155                      |
| Cable length (cm)                                                                                           |           | 290                      | 290                      | 290                      | 300                        | 290                         | 300                      |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | N/A                      | X                        | X                        | N/A                        | X                           | X                        |
| Sterilization is possible                                                                                   |           | X                        | X                        | X                        | X                          | X                           | X                        |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) |           | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual   | See Instructon<br>Manual    | See Instructon<br>Manual |
|                                                                                                             | Reference | Q1E-EP1389               | MN1-6000                 | MN1-6000                 | Q1E-EP1391                 | MN1-6000                    | MN1-6369                 |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    |           | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual   | See Instructon<br>Manual    | See Instructon<br>Manual |
|                                                                                                             | Reference | Q1E-EP1389               | MN1-6000                 | MN1-6000                 | Q1E-EP1391                 | MN1-6000                    | MN1-6369                 |
| Biopsy attachment available                                                                                 |           | X                        | N/A                      | N/A                      | X                          | N/A                         | N/A                      |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

\*2 Applicable to the United States only.

## 5. Intraoperative

|                                                                                                             |           | L44K                     | L46K                     | L46K1                    | L44LA                          | L44LA1                         | L51K                     |
|-------------------------------------------------------------------------------------------------------------|-----------|--------------------------|--------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.             | Hitachi Ltd.             | Hitachi Ltd.             | Hitachi Ltd.                   | Hitachi Ltd.                   | Hitachi Ltd.             |
| Medical applications                                                                                        |           | Intraoperative           | Intraoperative           | Intraoperative           | Intraoperative<br>Laparoscopic | Intraoperative<br>Laparoscopic | Intraoperative           |
|                                                                                                             | Reference | MN1-6127                 | MN1-5829                 | MN1-6129                 | MN1-6013                       | MN1-6101                       | MN1-6268                 |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult                    | adult                    | adult                    | adult                          | adult                          | adult                    |
|                                                                                                             | Reference | MN1-6127                 | MN1-5829                 | MN1-6129                 | MN1-6013                       | MN1-6101                       | MN1-6268                 |
| Type of probe<br>(convex, linear, endocavitary, sector, 3D, 4D...)                                          |           | linear                   | linear                   | linear                   | linear/<br>endocavity          | linear/<br>endocavity          | linear                   |
| Number of elements                                                                                          |           | 192                      | 192                      | 192                      | 192                            | 64                             | 64                       |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | ceramics                 | ceramics                 | ceramics                 | ceramics                       | ceramics                       | ceramics                 |
| Shape of elements                                                                                           |           | -                        | -                        | -                        | -                              | -                              | -                        |
| Dimension of the skin contact area (mm x mm)                                                                |           | 48.3 × 10.3              | 77 × 10                  | 70.3 × 10.3              | 44.2 × 6.4                     | 43.3 × 7.2                     | 16.4 × 5.3               |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | L: 42mm                  | L: 60mm                  | L: 63mm                  | L: 36mm                        | L: 38mm                        | L: 13mm                  |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | Electronic linear        | Electronic linear        | Electronic linear        | Electronic linear              | Electronic linear              | Electronic linear        |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | N/A                      | N/A                      | N/A                      | N/A                            | N/A                            | N/A                      |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | N/A                      | N/A                      | N/A                      | N/A                            | N/A                            | N/A                      |
| Nominal Imaging Frequencies                                                                                 |           | 7.5MHz<br>(14-2MHz)      | 7.5MHz<br>(13-3MHz)      | 7.5MHz<br>(14-2MHz)      | 7.0MHz<br>(13-2MHz)            | 7.5MHz<br>(13-2MHz)            | 8.5MHz<br>(15-3MHz)      |
| Weight (probe + connection cable)                                                                           |           | 360                      | 460                      | 360                      | 665                            | 250                            | 100                      |
| Cable length (cm)                                                                                           |           | 300                      | 300                      | 300                      | 300                            | 290                            | 300                      |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | X                        | X                        | X                        | N/A                            | X                              | X                        |
| Sterilization is possible                                                                                   |           | X                        | X                        | X                        | X                              | X                              | X                        |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) |           | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual       | See Instructon<br>Manual       | See Instructon<br>Manual |
|                                                                                                             | Reference | MN1-6000                 | MN1-6000                 | MN1-6000                 | MN1-6000                       | MN1-6000                       | MN1-6000                 |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    |           | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual       | See Instructon<br>Manual       | See Instructon<br>Manual |
|                                                                                                             | Reference | MN1-6000                 | MN1-6000                 | MN1-6000                 | MN1-6000                       | MN1-6000                       | MN1-6000                 |
| Biopsy attachment available                                                                                 |           | N/A                      | X                        | N/A                      | X                              | X                              | N/A                      |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

\*2 Applicable to the United States only.

## 5. Intraoperative

|                                                                                                             |           | L53K                     | S31KP                    | L31KP                             |
|-------------------------------------------------------------------------------------------------------------|-----------|--------------------------|--------------------------|-----------------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.             | Hitachi Ltd.             | Hitachi Ltd.                      |
| Medical applications                                                                                        |           | Intraoperative           | Neurosurgery             | Intraoperative<br>Neurosurgery *2 |
|                                                                                                             | Reference | MN1-6131                 | MN1-5831                 | MN1-6421                          |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult                    | adult                    | adult                             |
|                                                                                                             | Reference | MN1-6131                 | MN1-5831                 | MN1-6421                          |
| Type of probe<br>(convex, linear, endocavitary, sector, 3D, 4D...)                                          |           | linear                   | sector                   | linear                            |
| Number of elements                                                                                          |           | 128                      | 34                       | 48                                |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | ceramics                 | ceramics                 | ceramics                          |
| Shape of elements                                                                                           |           | -                        | -                        | -                                 |
| Dimension of the skin contact area (mm x mm)                                                                |           | 8.0 × 29.8               | 8.0 × 8                  | 6.9 × 6.5                         |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | L: 25mm                  | S: 90deg.                | L: 6mm                            |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | Electronic linear        | Phased Array             | Electronic linear                 |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | N/A                      | N/A                      | N/A                               |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | N/A                      | N/A                      | N/A                               |
| Nominal Imaging Frequencies                                                                                 |           | 8.5MHz<br>(15-3MHz)      | 5.0MHz<br>(8-3MHz)       | 5.0MHz<br>(9-2MHz)                |
| Weight (probe + connection cable)                                                                           |           | 260                      | 180                      | 180                               |
| Cable length (cm)                                                                                           |           | 300                      | 250                      | 300                               |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | X                        | X                        | X                                 |
| Sterilization is possible                                                                                   |           | X                        | X                        | X                                 |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) |           | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual          |
|                                                                                                             | Reference | MN1-6000                 | MN1-6000                 | MN1-6000                          |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    |           | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual          |
|                                                                                                             | Reference | MN1-6000                 | MN1-6000                 | MN1-6000                          |
| Biopsy attachment available                                                                                 |           | N/A                      | X                        | X                                 |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

\*2 Applicable to the United States only.

## 6. 4D

|                                                                                                        |           | <b>MXS1</b>                                                                            | <b>MXS2ESLL1</b>                                 | <b>VC34</b>                                                   | <b>VC34A</b>                                                  | <b>VC35</b>                                                   |
|--------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| Manufacturer                                                                                           |           | <b>Hitachi Ltd.</b>                                                                    | <b>Hitachi Ltd.</b>                              | <b>Hitachi Ltd.</b>                                           | <b>Hitachi Ltd.</b>                                           | <b>Hitachi Ltd.</b>                                           |
| Medical applications                                                                                   |           | <b>Abdominal<br/>Fetal<br/>Adult Cephalic<br/>Peripheral vessel<br/>Cardiovascular</b> | <b>Trans-esophageal<br/>Heart thoracic aorta</b> | <b>Abdominal<br/>Fetal<br/>Small Organ<br/>General OB/GYN</b> | <b>Abdominal<br/>Fetal<br/>Small Organ<br/>General OB/GYN</b> | <b>Abdominal<br/>Fetal<br/>Small Organ<br/>General OB/GYN</b> |
|                                                                                                        | Reference | <b>MN1-6260</b>                                                                        | <b>MN1-6403</b>                                  | <b>MN1-5841</b>                                               | <b>Q1E-EP1398</b>                                             | <b>MN1-6374</b>                                               |
| Patients (adult, pediatric, neonatal)                                                                  |           | <b>adult<br/>pediatric</b>                                                             | <b>adult</b>                                     | <b>adult<br/>pediatric</b>                                    | <b>adult<br/>pediatric</b>                                    | <b>adult<br/>pediatric</b>                                    |
|                                                                                                        | Reference | <b>MN1-6260</b>                                                                        | <b>MN1-6403</b>                                  | <b>MN1-5841</b>                                               | <b>Q1E-EP1398</b>                                             | <b>MN1-6374</b>                                               |
| Type of probe<br>(convex, linear, endocavitary,sector, 3D, 4D...)                                      |           | <b>sector/<br/>4D</b>                                                                  | <b>sector/<br/>endocavity/<br/>4D</b>            | <b>convex/<br/>4D</b>                                         | <b>convex/<br/>4D</b>                                         | <b>convex/<br/>4D</b>                                         |
| Number of elements                                                                                     |           | <b>3072</b>                                                                            | <b>1372</b>                                      | <b>192</b>                                                    | <b>192</b>                                                    | <b>192</b>                                                    |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                |           | <b>single crystal/<br/>composite</b>                                                   | <b>single crystal/<br/>composite</b>             | <b>ceramics</b>                                               | <b>ceramics</b>                                               | <b>ceramics</b>                                               |
| Shape of elements                                                                                      |           | <b>-</b>                                                                               | <b>-</b>                                         | <b>40R</b>                                                    | <b>40R</b>                                                    | <b>46R</b>                                                    |
| Dimension of the skin contact area (mm x mm)                                                           |           | <b>22.7× 16.2</b>                                                                      | <b>11.3 × 10.8</b>                               | <b>65 × 34.4</b>                                              | <b>65 × 34.4</b>                                              | <b>64 × 36</b>                                                |
| Field of view<br>(linear: width, convex: sector angle)                                                 |           | <b>S: 90deg.</b>                                                                       | <b>S: 90deg.</b>                                 | <b>C: 70deg.</b>                                              | <b>C: 67deg.</b>                                              | <b>C: 72deg.</b>                                              |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)? |           | <b>Phased Array</b>                                                                    | <b>Phased Array</b>                              | <b>Electronic convex/<br/>Mechanical sector</b>               | <b>Electronic convex/<br/>Mechanical sector</b>               | <b>Electronic convex/<br/>Mechanical sector</b>               |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                |           | <b>electronic</b>                                                                      | <b>electronic</b>                                | <b>mechanical</b>                                             | <b>mechanical</b>                                             | <b>mechanical</b>                                             |
| For 3D / 4D probes: sweep angle (in degrees)                                                           |           | <b>90deg.</b>                                                                          | <b>90deg.</b>                                    | <b>70deg.</b>                                                 | <b>67deg.</b>                                                 | <b>80deg.</b>                                                 |
| Nominal Imaging Frequencies                                                                            |           | <b>2.75MHz<br/>(5-1MHz)</b>                                                            | <b>4.0MHz<br/>(10-1MHz)</b>                      | <b>5.0MHz<br/>(7-2MHz)</b>                                    | <b>5.0MHz<br/>(7-2MHz)</b>                                    | <b>4.0MHz<br/>(8-2MHz)</b>                                    |
| Weight (probe + connection cable)                                                                      |           | <b>390</b>                                                                             | <b>890</b>                                       | <b>560</b>                                                    | <b>560</b>                                                    | <b>540</b>                                                    |
| Cable length (cm)                                                                                      |           | <b>220</b>                                                                             | <b>180</b>                                       | <b>230</b>                                                    | <b>230</b>                                                    | <b>200</b>                                                    |
| Fully immersible probe<br>(specify whether the connector is also immersible)                           |           | <b>N/A</b>                                                                             | <b>X</b>                                         | <b>N/A</b>                                                    | <b>N/A</b>                                                    | <b>N/A</b>                                                    |
| Sterilization is possible                                                                              |           | <b>X</b>                                                                               | <b>X</b>                                         | <b>X</b>                                                      | <b>X</b>                                                      | <b>X</b>                                                      |
| Recommended method for decontamination and<br>recommended products                                     |           | <b>See Instructon Manual</b>                                                           | <b>See Instructon Manual</b>                     | <b>See Instructon Manual</b>                                  | <b>See Instructon Manual</b>                                  | <b>See Instructon Manual</b>                                  |
| (Trade name versus active ingredient)                                                                  | Reference | <b>MN1-5998</b>                                                                        | <b>MN1-6117</b>                                  | <b>MN1-6002</b>                                               | <b>Q1E-EP1398</b>                                             | <b>MN1-6002</b>                                               |
| Recommended method for disinfection<br>and recommended products                                        |           | <b>See Instructon Manual</b>                                                           | <b>See Instructon Manual</b>                     | <b>See Instructon Manual</b>                                  | <b>See Instructon Manual</b>                                  | <b>See Instructon Manual</b>                                  |
| (Trade name versus active ingredient)                                                                  | Reference | <b>MN1-5998</b>                                                                        | <b>MN1-6117</b>                                  | <b>MN1-6002</b>                                               | <b>Q1E-EP1398</b>                                             | <b>MN1-6002</b>                                               |
| Biopsy attachment available                                                                            |           | <b>N/A</b>                                                                             | <b>N/A</b>                                       | <b>N/A</b>                                                    | <b>N/A</b>                                                    | <b>N/A</b>                                                    |

\*1 Suppose "composite" means 2 dimensional cut structure, All cooresponding  
natures of each probe are stated.

**6. 4D**

|                                                                                                             |           | VC41V                                    | VL54                                                                          |
|-------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------|-------------------------------------------------------------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.                             | Hitachi Ltd.                                                                  |
| Medical applications                                                                                        |           | Fetal<br>Trans-vaginal<br>General OB/GYN | Abdominal<br>Small Organ<br>Musculo-skel.<br>Superficial<br>Peripheral vessel |
|                                                                                                             | Reference | MN1-5863                                 | MN1-5837                                                                      |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult                                    | adult<br>pediatric                                                            |
|                                                                                                             | Reference | MN1-5863                                 | MN1-5837                                                                      |
| Type of probe<br>(convex, linear, endocavitary,sector, 3D, 4D...)                                           |           | convex/<br>endovavity/<br>4D             | linear/<br>4D                                                                 |
| Number of elements                                                                                          |           | 136                                      | 160                                                                           |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | ceramics                                 | composite                                                                     |
| Shape of elements                                                                                           |           | 10R                                      | -                                                                             |
| Dimension of the skin contact area (mm x mm)                                                                |           | 25 × 25                                  | 48 × 56                                                                       |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | C: 140deg.                               | L: 38mm                                                                       |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | Electronic convex/<br>Mechanical sector  | Electronicconvex/<br>Mechanical sector                                        |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | mechanical                               | mechanical                                                                    |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | 90deg.                                   | 29deg.                                                                        |
| Nominal Imaging Frequencies                                                                                 |           | 6.0MHz<br>(8-2MHz)                       | 7.5MHz<br>(13-5MHz)                                                           |
| Weight (probe + connection cable)                                                                           |           | 620                                      | 610                                                                           |
| Cable length (cm)                                                                                           |           | 200                                      | 210                                                                           |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | N/A                                      | N/A                                                                           |
| Sterilization is possible                                                                                   |           | X                                        | X                                                                             |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) |           | See Instructon Manual                    | See Instructon Manual                                                         |
|                                                                                                             | Reference | MN1-6002                                 | MN1-6002                                                                      |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    |           | See Instructon Manual                    | See Instructon Manual                                                         |
|                                                                                                             | Reference | MN1-6002                                 | MN1-6002                                                                      |
| Biopsy attachment available                                                                                 |           | N/A                                      | N/A                                                                           |

\*1 Suppose "composite" means 2 dimensional cut structure, All cooresponding  
natures of each probe are stated.

7. EUPseries

|                                                                                                             |           | EUP-B514                            | EUP-L53L                                              | EUP-O54J                                                 | EUP-B715                            | EUP-C715                            | EUP-L74M                                       | EUP-O53T                            |
|-------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------------------|-------------------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.                        | Hitachi Ltd.                                          | Hitachi Ltd.                                             | Hitachi Ltd.                        | Hitachi Ltd.                        | Hitachi Ltd.                                   | Hitachi Ltd.                        |
| Medical applications                                                                                        |           | Biopsy<br>Abdomen                   | Small organ<br>Peripheral vessel<br>Pediatric Abdomen | Intraoperative<br>Peripheral vascular<br>Musculoskeletal | Biopsy<br>Abdominal organs          | Abdominal organs<br>Biopsy          | Mammary gland<br>Thyroid<br>Superficial organs | Intraoperative<br>Bioppsy           |
|                                                                                                             | Reference | Q1E-EP0616                          | Q1E-EP0348                                            | Q1E-EP1064                                               | Q1E-EP1245                          | Q1E-EP1011                          | Q1E-EP1041                                     | Q1E-EP0403                          |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult                               | adult<br>pedeatric                                    | adult                                                    | adult                               | adult                               | adult                                          | adult                               |
|                                                                                                             | Reference | Q1E-EP0616                          | Q1E-EP0348                                            | Q1E-EP1064                                               | Q1E-EP1245                          | Q1E-EP1011                          | Q1E-EP1041                                     | Q1E-EP0403                          |
| Type of probe<br>(convex, linear, endocavitary,sector, 3D, 4D...)                                           |           | convex                              | linear                                                | linear                                                   | convex                              | convex                              | linear                                         | linear                              |
| Number of elements                                                                                          |           | 192                                 | 256                                                   | 128                                                      | 160                                 | 160                                 | 192                                            | 160                                 |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | ceramics                            | ceramics                                              | ceramics                                                 | ceramics<br>(multi-layer)           | ceramics<br>(multi-layer)           | composite                                      | ceramics                            |
| Shape of elements                                                                                           |           | 40R                                 | -                                                     | -                                                        | 50R                                 | 50R                                 | -                                              | -                                   |
| Dimension of the skin contact area (mm x mm)                                                                |           | 79.8 × 14.8                         | 99.4 × 11                                             | 5.5 × 28.7                                               | 72.8 x 15                           | 72.8 x 15                           | 54.8 × 10.2                                    | 62.4 × 15.1                         |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | C: 90deg.                           | L: 92mm                                               | L: 25mm                                                  | C: 70deg.                           | C: 70deg.                           | L: 50mm                                        | L: 57mm                             |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | Electronic convex                   | Electronic linear                                     | Electronic linear                                        | Electronic convex                   | Electronic convex                   | Electronic linear                              | Electronic linear                   |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | N/A                                 | N/A                                                   | N/A                                                      | N/A                                 | N/A                                 | N/A                                            | N/A                                 |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | N/A                                 | N/A                                                   | N/A                                                      | N/A                                 | N/A                                 | N/A                                            | N/A                                 |
| Nominal Imaging Frequencies                                                                                 |           | 3.5MHz<br>(5-2MHz)                  | 7.5MHz<br>(10-5MHz)                                   | 10.0MHz<br>(13-7MHz)                                     | 3.5MHz<br>(5-1MHz)                  | 3.0MHz<br>(5-1MHz)                  | 7.5MHz<br>(13-5MHz)                            | 7.5MHz<br>(10-5MHz)                 |
| Weight (probe + connection cable)                                                                           |           | 390                                 | 1040                                                  | 190                                                      | 320                                 | 320                                 | 250                                            | 540                                 |
| Cable length (cm)                                                                                           |           | 220                                 | 220                                                   | 220                                                      | 220                                 | 220                                 | 220                                            | 220<br>(option 320)                 |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | X                                   | N/A                                                   | X                                                        | N/A                                 | N/A                                 | N/A                                            | N/A                                 |
| Sterilization is possible                                                                                   |           | X                                   | X                                                     | X                                                        | X                                   | X                                   | X                                              | X                                   |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) | Reference | See Instructon Manual<br>Q1E-EP0616 | See Instructon Manual<br>Q1E-EP0348                   | See Instructon Manual<br>Q1E-EP1064                      | See Instructon Manual<br>Q1E-EP1245 | See Instructon Manual<br>Q1E-EP1011 | See Instructon Manual<br>Q1E-EP1041            | See Instructon Manual<br>Q1E-EP0403 |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    | Reference | See Instructon Manual<br>Q1E-EP0616 | See Instructon Manual<br>Q1E-EP0348                   | See Instructon Manual<br>Q1E-EP1064                      | See Instructon Manual<br>Q1E-EP1245 | See Instructon Manual<br>Q1E-EP1011 | See Instructon Manual<br>Q1E-EP1041            | See Instructon Manual<br>Q1E-EP0403 |
| Biopsy attachment available                                                                                 |           | X                                   | N/A                                                   | N/A                                                      | X                                   | X                                   | X                                              | X                                   |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

7. EUPseries

|                                                                                                             |           | EUP-O732T                           | EUP-OL334                           | EUP-CC531S                                                | EUP-R54AW-19                        | EUP-U531                            |
|-------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------|-------------------------------------|-----------------------------------------------------------|-------------------------------------|-------------------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.                        | Hitachi Ltd.                        | Hitachi Ltd.                                              | Hitachi Ltd.                        | Hitachi Ltd.                        |
| Medical applications                                                                                        |           | Intraoperative                      | Gallbladder<br>Liver                | Urological<br>OB/GYN                                      | Transrectal                         | Transrectal<br>Biopsy               |
|                                                                                                             | Reference | Q1E-EP1234                          | Q1E-EP0304                          | Q1E-EP1357                                                | Q1E-EP0609                          | Q1E-EP1003                          |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult                               | adult                               | adult                                                     | adult                               | adult                               |
|                                                                                                             | Reference | Q1E-EP1234                          | Q1E-EP0304                          | Q1E-EP1357                                                | Q1E-EP0609                          | Q1E-EP1003                          |
| Type of probe<br>(convex, linear, endocavitary,sector, 3D, 4D...)                                           |           | convex                              | convex                              | convex/<br>convex/<br>endocavitary                        | convex                              | convex                              |
| Number of elements                                                                                          |           | 144                                 | 96                                  | sagittal: 96<br>axial: 128                                | 256                                 | 192                                 |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | ceramics                            | ceramics                            | ceramics                                                  | ceramics                            | ceramics                            |
| Shape of elements                                                                                           |           | 20R                                 | 40R                                 | sagittal: 10R<br>axial: 10R                               | 6R                                  | 10R                                 |
| Dimension of the skin contact area (mm x mm)                                                                |           | 28.8 × 10.1                         | 35.0 × 7.3                          | C(s): 23.6 × 12.7<br>C(a): 30.8 × 12                      | 38.6 × 9                            | 42.9 × 9.6                          |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | C: 65deg.                           | C: 40deg.                           | C(s): 100deg.<br>C(a): 120deg.                            | C: 360deg.                          | C: 200deg.                          |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | Electronic convex                   | Electronic convex                   | Electronic<br>(s) convex<br>(a) convex                    | Electronic convex                   | Electronic convex                   |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | N/A                                 | N/A                                 | N/A                                                       | N/A                                 | N/A                                 |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | N/A                                 | N/A                                 | N/A                                                       | N/A                                 | N/A                                 |
| Nominal Imaging Frequencies                                                                                 |           | 7.5MHz<br>(10-3MHz)                 | 7.5MHz<br>(10-5MHz)                 | sagittal: 6.5MHz<br>(8-4MHz)<br>axial: 6.5MHz<br>(8-4MHz) | 7.5MHz<br>(10-5MHz)                 | 6.5MHz<br>(8-4MHz)                  |
| Weight (probe + connection cable)                                                                           |           | 190                                 | 540                                 | 195                                                       | 640                                 | 340                                 |
| Cable length (cm)                                                                                           |           | 290                                 | 300                                 | 210                                                       | 220                                 | 220                                 |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | N/A                                 | N/A                                 | N/A                                                       | X                                   | N/A                                 |
| Sterilization is possible                                                                                   |           | X                                   | X                                   | X                                                         | X                                   | X                                   |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) | Reference | See Instructon Manual<br>Q1E-EP1234 | See Instructon Manual<br>Q1E-EP0304 | See Instructon Manual<br>Q1E-EP1357                       | See Instructon Manual<br>Q1E-EP0609 | See Instructon Manual<br>Q1E-EP1003 |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    | Reference | See Instructon Manual<br>Q1E-EP1234 | See Instructon Manual<br>Q1E-EP0304 | See Instructon Manual<br>Q1E-EP1357                       | See Instructon Manual<br>Q1E-EP0609 | See Instructon Manual<br>Q1E-EP1003 |
| Biopsy attachment available                                                                                 |           | X                                   | N/A                                 | X                                                         | N/A                                 | X                                   |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

8. USTseries

|                                                                                                        |           | UST-52105                | UST-52126                | UST-5418                 | UST-5550                 | UST-9130                 |
|--------------------------------------------------------------------------------------------------------|-----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Manufacturer                                                                                           |           | Hitachi Ltd.             | Hitachi Ltd.             | Hitachi Ltd.             | Hitachi Ltd.             | Hitachi Ltd.             |
| Medical applications                                                                                   |           | Circulatory organs       | Heart<br>Thoracic aorta  | Intraoperative           | Intraoperative           | Abdomen                  |
|                                                                                                        | Reference | MN1-5064                 | MN1-5791                 | MN1-5783                 | MN1-5308                 | MN1-5160                 |
| Patients (adult, pediatric, neonatal)                                                                  |           | adult                    | adult                    | adult                    | adult                    | adult                    |
|                                                                                                        | Reference | MN1-5064                 | MN1-5791                 | MN1-5783                 | MN1-5308                 | MN1-5160                 |
| Type of probe<br>(convex, linear, endocavitary,sector, 3D, 4D...)                                      |           | sector                   | sector                   | linear                   | linear                   | convex                   |
| Number of elements                                                                                     |           | 80                       | 64                       | 192                      | 64                       | 186                      |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                |           | ceramics                 | ceramics                 | ceramics                 | ceramics                 | ceramics                 |
| Shape of elements                                                                                      |           | -                        | -                        | -                        | -                        | 60R                      |
| Dimension of the skin contact area (mm x mm)                                                           |           | 22.1 × 15.2              | diameter<br>12.2         | 44.2 × 6.4               | 43.1 × 7.2               | 81.5 × 14                |
| Field of view<br>(linear: width, convex: sector angle)                                                 |           | S: 90deg.                | S: 90deg.                | L: 36mm                  | L: 38mm                  | C: 60deg.                |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)? |           | Phased Array             | Phased Array             | Electronic linear        | Electronic linear        | Electronic convex        |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                |           | N/A                      | N/A                      | N/A                      | N/A                      | N/A                      |
| For 3D / 4D probes: sweep angle (in degrees)                                                           |           | N/A                      | N/A                      | N/A                      | N/A                      | N/A                      |
| Nominal Imaging Frequencies                                                                            |           | 2.9MHz<br>(5-1MHz)       | 5.1MHz<br>(10-1MHz)      | 7MHz<br>(13-2MHz)        | 7.5MHz<br>(13-4MHz)      | 3.6MHz<br>(6-2MHz)       |
| Weight (probe + connection cable)                                                                      |           | 170                      | 770                      | 670                      | 470                      | 290                      |
| Cable length (cm)                                                                                      |           | 180                      | 156                      | 300                      | 290                      | 200                      |
| Fully immersible probe<br>(specify whether the connector is also immersible)                           |           | N/A                      | N/A                      | N/A                      | X                        | N/A                      |
| Sterilization is possible                                                                              |           | X                        | N/A                      | X                        | X                        | X                        |
| Recommended method for decontamination and<br>recommended products                                     |           | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual |
| (Trade name versus active ingredient)                                                                  | Reference | MN1-5064                 | MN1-5791                 | MN1-5783                 | MN1-5308                 | MN1-5160<br>MN1-5493     |
| Recommended method for disinfection<br>and recommended products                                        |           | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual | See Instructon<br>Manual |
| (Trade name versus active ingredient)                                                                  | Reference | MN1-5064                 | MN1-5791                 | MN1-5783                 | MN1-5308                 | MN1-5160<br>MN1-5493     |
| Biopsy attachment available                                                                            |           | N/A                      | N/A                      | N/A                      | N/A                      | X                        |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

## 8. USTseries

|                                                                                                        |           |                                  |
|--------------------------------------------------------------------------------------------------------|-----------|----------------------------------|
|                                                                                                        |           | <b>UST-9132I</b>                 |
| Manufacturer                                                                                           |           | <b>Hitachi Ltd.</b>              |
| Medical applications                                                                                   |           | <b>Intraoperative</b>            |
|                                                                                                        | Reference | <b>MN1-5221</b>                  |
| Patients (adult, pediatric, neonatal)                                                                  |           | <b>adult</b>                     |
|                                                                                                        | Reference | <b>MN1-5221</b>                  |
| Type of probe<br>(convex, linear, endocavitary, sector, 3D, 4D...)                                     |           | <b>convex</b>                    |
| Number of elements                                                                                     |           | <b>144</b>                       |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                |           | <b>ceramics</b>                  |
| Shape of elements                                                                                      |           | <b>20R</b>                       |
| Dimension of the skin contact area (mm x mm)                                                           |           | <b>28.8 × 10.1</b>               |
| Field of view<br>(linear: width, convex: sector angle)                                                 |           | <b>C: 65deg.</b>                 |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)? |           | <b>Electronic convex</b>         |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                |           | <b>N/A</b>                       |
| For 3D / 4D probes: sweep angle (in degrees)                                                           |           | <b>N/A</b>                       |
| Nominal Imaging Frequencies                                                                            |           | <b>7.5MHz<br/>(10-3MHz)</b>      |
| Weight (probe + connection cable)                                                                      |           | <b>150</b>                       |
| Cable length (cm)                                                                                      |           | <b>290</b>                       |
| Fully immersible probe<br>(specify whether the connector is also immersible)                           |           | <b>X</b>                         |
| Sterilization is possible                                                                              |           | <b>X</b>                         |
| Recommended method for decontamination and<br>recommended products                                     |           | <b>See Instructon<br/>Manual</b> |
| (Trade name versus active ingredient)                                                                  | Reference | <b>MN1-5221</b>                  |
| Recommended method for disinfection<br>and recommended products                                        |           | <b>See Instructon<br/>Manual</b> |
| (Trade name versus active ingredient)                                                                  | Reference | <b>MN1-5221</b>                  |
| Biopsy attachment available                                                                            |           | <b>N/A</b>                       |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

## 9. Independent

|                                                                                                             |           | UST-2265-2               | UST-2266-5               |
|-------------------------------------------------------------------------------------------------------------|-----------|--------------------------|--------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.             | Hitachi Ltd.             |
| Medical applications                                                                                        |           | Circulatory organs       | Circulatory organs       |
|                                                                                                             | Reference | MN1-0833                 | MN1-0831                 |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult<br>pediatric       | adult<br>pediatric       |
|                                                                                                             | Reference | MN1-0833                 | MN1-0831                 |
| Type of probe<br>(convex, linear, endocavitary, sector, 3D, 4D...)                                          |           | independent              | independent              |
| Number of elements                                                                                          |           | 2                        | 2                        |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | ceramics                 | ceramics                 |
| Shape of elements                                                                                           |           | -                        | -                        |
| Dimension of the skin contact area (mm x mm)                                                                |           | diameter<br>16.2         | diameter<br>9            |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | N/A                      | N/A                      |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | N/A                      | N/A                      |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | N/A                      | N/A                      |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | N/A                      | N/A                      |
| Nominal Imaging Frequencies                                                                                 |           | 2.0MHz                   | 5.0MHz                   |
| Weight (probe + connection cable)                                                                           |           | 165                      | 150                      |
| Cable length (cm)                                                                                           |           | 200                      | 200                      |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | N/A                      | N/A                      |
| Sterilization is possible                                                                                   |           | X                        | X                        |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) |           | See Instructon<br>Manual | See Instructon<br>Manual |
|                                                                                                             | Reference | MN1-0833                 | MN1-0831                 |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    |           | See Instructon<br>Manual | See Instructon<br>Manual |
|                                                                                                             | Reference | MN1-0833                 | MN1-0831                 |
| Biopsy attachment available                                                                                 |           | N/A                      | N/A                      |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

10. Transducers for FUTUS

|                                                                                                             |           | CA2-8AD-H                                           | CF4-9-H                                             | EVN4-9-H                 | LA3-16AD-H                                              | PN2-4-H                               |
|-------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------|-----------------------------------------------------|--------------------------|---------------------------------------------------------|---------------------------------------|
| Manufacturer                                                                                                |           | Hitachi Ltd.                                        | Hitachi Ltd.                                        | Hitachi Ltd.             | Hitachi Ltd.                                            | Hitachi Ltd.                          |
| Medical applications                                                                                        |           | Abdomen, OB, GYN, MSK, Pediatric, Vascular, Urology | Abdomen, OB, GYN, MSK, Pediatric, Vascular, Urology | OB, GYN, Urology         | Abdomen, MSK, Small Parts, Vascular, OB, GYN, Pediatric | Abdomen, Cardiac, Vascular, Pediatric |
|                                                                                                             | Reference | MN1-6474                                            | MN1-6474                                            | MN1-6474                 | MN1-6474                                                | MN1-6474                              |
| Patients (adult, pediatric, neonatal)                                                                       |           | adult<br>pedatric                                   | adult<br>pedatric                                   | adult                    | adult<br>pedatric                                       | adult<br>pedatric                     |
|                                                                                                             | Reference | MN1-6474                                            | MN1-6474                                            | MN1-6474                 | MN1-6474                                                | MN1-6474                              |
| Type of probe<br>(convex, linear, endocavitary,sector, 3D, 4D...)                                           |           | convex                                              | convex                                              | convex                   | linear                                                  | sector                                |
| Number of elements                                                                                          |           | 192                                                 | 128                                                 | 128                      | 192                                                     | 64                                    |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                     |           | ceramics                                            | ceramics                                            | ceramics                 | ceramics                                                | ceramics                              |
| Shape of elements                                                                                           |           | 60R                                                 | 14R                                                 | 10R                      | -                                                       | -                                     |
| Dimension of the skin contact area (mm x mm)                                                                |           | 70 × 16                                             | 28 × 9                                              | 37 × 10                  | 46 × 8                                                  | 26 × 17                               |
| Field of view<br>(linear: width, convex: sector angle)                                                      |           | C: 58 deg.                                          | C: 92 deg.                                          | C: 148 deg.              | L: 38.4mm                                               | S: 90 deg.                            |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)?      |           | Electronic convex                                   | Electronic convex                                   | Electronic convex        | Electronic linear                                       | Phased Array                          |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                     |           | N/A                                                 | N/A                                                 | N/A                      | N/A                                                     | N/A                                   |
| For 3D / 4D probes: sweep angle (in degrees)                                                                |           | N/A                                                 | N/A                                                 | N/A                      | N/A                                                     | N/A                                   |
| Nominal Imaging Frequencies                                                                                 |           | 4.3 MHz<br>(1.6-7.6MHz)                             | 6.4 MHz<br>(2.6-9.9MHz)                             | 6.6 MHz<br>(2.8-10.7MHz) | 8.7 MHz<br>(2.4-15.3MHz)                                | 2.6 MHz<br>(1.1-4.3MHz)               |
| Weight (probe + connection cable)                                                                           |           | 635                                                 | 455                                                 | 580                      | 575                                                     | 455                                   |
| Cable length (cm)                                                                                           |           | 220                                                 | 220                                                 | 250                      | 220                                                     | 215                                   |
| Fully immersible probe<br>(specify whether the connector is also immersible)                                |           | N/A                                                 | N/A                                                 | N/A                      | N/A                                                     | N/A                                   |
| Sterilization is possible                                                                                   |           | N/A                                                 | N/A                                                 | N/A                      | N/A                                                     | N/A                                   |
| Recommended method for decontamination and<br>recommended products<br>(Trade name versus active ingredient) |           | See Instructon<br>Manual                            | See Instructon<br>Manual                            | See Instructon<br>Manual | See Instructon<br>Manual                                | See Instructon<br>Manual              |
|                                                                                                             | Reference | MN1-6474                                            | MN1-6474                                            | MN1-6474                 | MN1-6474                                                | MN1-6474                              |
| Recommended method for disinfection<br>and recommended products<br>(Trade name versus active ingredient)    |           | See Instructon<br>Manual                            | See Instructon<br>Manual                            | See Instructon<br>Manual | See Instructon<br>Manual                                | See Instructon<br>Manual              |
|                                                                                                             | Reference | MN1-6474                                            | MN1-6474                                            | MN1-6474                 | MN1-6474                                                | MN1-6474                              |
| Biopsy attachment available                                                                                 |           | N/A                                                 | N/A                                                 | X                        | N/A                                                     | N/A                                   |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.

10. Transducers for FUTUS

|                                                                                                        |           | VN4-8-H                                             | V5-9-H                   |
|--------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------|--------------------------|
| Manufacturer                                                                                           |           | Hitachi Ltd.                                        | Hitachi Ltd.             |
| Medical applications                                                                                   |           | Abdomen, OB, GYN, MSK, Pediatric, Vascular, Urology | OB, GYN, Urology         |
|                                                                                                        | Reference | MN1-6474                                            | MN1-6474                 |
| Patients (adult, pediatric, neonatal)                                                                  |           | adult<br>pedatric                                   | adult                    |
|                                                                                                        | Reference | MN1-6474                                            | MN1-6474                 |
| Type of probe<br>(convex, linear, endocavitary,sector, 3D, 4D...)                                      |           | convex/<br>4D                                       | convex/<br>4D            |
| Number of elements                                                                                     |           | 128                                                 | 192                      |
| Nature of elements *1:<br>crystals, ceramics, polymers, composite, CMUT                                |           | ceramics                                            | ceramics                 |
| Shape of elements                                                                                      |           | 38R                                                 | 10R                      |
| Dimension of the skin contact area (mm x mm)                                                           |           | 66 × 45                                             | 23 × 23                  |
| Field of view<br>(linear: width, convex: sector angle)                                                 |           | C: 77 deg.                                          | C: 150 deg.              |
| Type of scanning: mechanical? Electronic linear?<br>Sector electronics (phased array or curved probe)? |           | Electronic convex                                   | Electronic convex        |
| For 3D / 4D probes: rotation of the probe<br>(electronic or mechanical)                                |           | Mechanical                                          | Mechanical               |
| For 3D / 4D probes: sweep angle (in degrees)                                                           |           | 85 deg.                                             | 90 deg.                  |
| Nominal Imaging Frequencies                                                                            |           | 4.5 MHz,<br>(1.5-7.7MHz)                            | 5.9 MHz<br>(2.4-10.0MHz) |
| Weight (probe + connection cable)                                                                      |           | 675                                                 | 825                      |
| Cable length (cm)                                                                                      |           | 220                                                 | 240                      |
| Fully immersible probe<br>(specify whether the connector is also immersible)                           |           | N/A                                                 | N/A                      |
| Sterilization is possible                                                                              |           | N/A                                                 | N/A                      |
| Recommended method for decontamination and<br>recommended products                                     |           | See Instructon<br>Manual                            | See Instructon<br>Manual |
|                                                                                                        | Reference | MN1-6474                                            | MN1-6474                 |
| Recommended method for disinfection<br>and recommended products                                        |           | See Instructon<br>Manual                            | See Instructon<br>Manual |
|                                                                                                        | Reference | MN1-6474                                            | MN1-6474                 |
| Biopsy attachment available                                                                            |           | N/A                                                 | N/A                      |

\*1 Suppose "composite" means 2 dimensional cut structure, All coorresponding  
natures of each probe are stated.