BF-UC180F

Endoscopic Ultrasonography — Setting a New Standard in Mediastinal Diagnostics.
THE INNOVATIVE ENDSOCOPE WITH SUPERIOR ULTRASOUND IMAGING FOR EBUS-TBNA

Compatible with Olympus’ universal endoscopic ultrasound centers EU-ME2, EU-ME1, and EU-C60, as well as Hitachi Aloka’s ProSound α5, α7, α10, and F75, this EBUS-TBNA system offers the application of advanced ultrasound features to clearly visualize the dedicated echogenic aspiration needles. With the introduction of the second generation EBUS-TBNA system, Olympus is making an important contribution to improve diagnostics in lung cancer.

Features

- Channel diameter enlarged to 2.2 mm for compatibility with 21G and 22G EBUS-TBNA needle.
- Detachable cable concept allows connection of this scope with Hitachi Aloka’s ProSound α5, α7, α10, and F75, as well as Olympus’ EU-ME2, EU-ME1, and EU-C60.
- Increased ultrasound scanning area and higher sensitivity Doppler functions are available.
- Detachable cable facilitates easier placement into automatic endoscope reprocessors.
- Innovative “hybrid” design combines video and fiber-optic technologies in a single scope, offering the same functionality as videoscopes, yet with a slim insertion tube diameter of 6.3 mm*, even with an incorporated ultrasound transducer.

* Distal tip diameter measures 6.9 mm.
NOW A CHOICE OF THREE HIGH-PERFORMANCE ULTRASOUND PROCESSORS

**Hitachi Aloka Diagnostic Ultrasound System**
*ProSound F75*

Providing compatibility with linear and radial ultrasound endoscopes and extracorporeal probes.

**Hitachi Aloka Diagnostic Ultrasound System**
*ProSound α7*

Providing compatibility with linear and radial ultrasound endoscopes and extracorporeal probes.

**Olympus Universal Endoscopic Ultrasound Center**
*EU-ME2*

Providing compatibility with linear and radial ultrasound endoscopes and radial ultrasound miniature probes.

EU-ME2 is available in three versions:
- EU-ME2
- EU-ME2 Premier
- EU-ME2 Premier Plus

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**Single-use Aspiration Needle ViziShot: Echogenic, Dimpled Needle Tip for Improved Visibility on Ultrasound Images**

**Features**
- Specifically designed for use with EBUS-TBNA scopes
- 21G and 22G outer diameter
- Adjustable needle length
- Pre-sterilized and single-use
FURTHER INFORMATION

Please contact your local Olympus representative for further information on our training materials and training courses.
CLINICAL CASES

Enlarged paratracheal lymph node. Power flow mode confirms a vessel in close vicinity to the lymph node.

A patient suspected of having mediastinal lymphoma was referred for EBUS-TBNA and diagnosed as having sarcoidosis.

Dual Dynamic Display (DDD) of Hitachi Aloka ProSound α7 allows real-time observation of needle insertion and blood flow simultaneously.
### Optical system
- **Field of view**: 35° forward oblique
- **Direction of view**: 35° forward oblique
- **Depth of field**: 2-50 mm

### Insertion tube
- **Distal end outer diameter**: 6.9 mm
- **Insertion tube outer diameter**: 6.3 mm
- **Working length**: 600 mm

### Instrument channel
- **Channel inner diameter**: 2.2 mm
- **Direction from which EndoTherapy accessories enter and exit the endoscopic image**: Up 120°, down 90°

### Bending section
- **Angulation range**: 120° up, 90° down
- **Total length**: 890 mm

### Currently Available Systems in 2015
The subset of features listed here refers to the usage of the processors in conjunction with the BF-UC180F endoscope.

<table>
<thead>
<tr>
<th>Hitachi Aloka ProSound F75</th>
<th>Hitachi Aloka ProSound α7</th>
<th>Olympus EU-ME2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultrasound cable</td>
<td>MAJ-1597 and MAJ-2056</td>
<td></td>
</tr>
<tr>
<td>Display mode</td>
<td>B mode, M mode, D mode, FLOW mode, eFLOW, PW mode, THE mode</td>
<td>B mode, FLOW mode, COLOR FLOW mode, H-FLOW mode, PW mode, THE mode, Elastography mode</td>
</tr>
<tr>
<td>Scanning method</td>
<td>Electronic curved linear array</td>
<td></td>
</tr>
<tr>
<td>Scanning direction</td>
<td>Parallel to the insertion direction</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>5/7.5/10/12 MHz</td>
<td>5/6/7.5/10/12 MHz</td>
</tr>
<tr>
<td>Tissue Harmonic Echo (THE)</td>
<td>Broadband Harmonic (BBH)</td>
<td>Extended Pure Harmonic Detection (exPHD)</td>
</tr>
<tr>
<td></td>
<td>5 MP/6 MS/8.7 MR/7.5 MHz</td>
<td>Tissue Harmonic Echo (THE)</td>
</tr>
<tr>
<td>Elastography (ELST) mode</td>
<td>—</td>
<td>THE-P/THE-R (optimized penetration/resolution mode)</td>
</tr>
<tr>
<td>Scanning range</td>
<td>—</td>
<td>Strain graph, Pressurization bar</td>
</tr>
<tr>
<td>Focusing point</td>
<td>Up to four focusing points are available</td>
<td>Focus location adjustable, focus number adjustable</td>
</tr>
<tr>
<td>Contact method</td>
<td>Balloon method, Direct-contact method</td>
<td></td>
</tr>
</tbody>
</table>

### NA-201SX-4022 and NA-201SX-4021 Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>NA-201SX-4022</th>
<th>NA-201SX-4021</th>
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</thead>
<tbody>
<tr>
<td>Maximum insertion portion diameter</td>
<td>1.8 mm</td>
<td>1.9 mm</td>
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<tr>
<td>Working length</td>
<td>700 mm</td>
<td>700 mm</td>
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<tr>
<td>Needle width</td>
<td>22G</td>
<td>21G</td>
</tr>
<tr>
<td>Needle length</td>
<td>40 mm</td>
<td>40 mm</td>
</tr>
</tbody>
</table>

Specifications, design, and accessories are subject to change without any notice or obligation on the part of the manufacturer.