Superb Ultrasound Image Quality and Exceptional Scope Maneuverability

Expanding the potential of EUS, this breakthrough system combines exceptional scope capability and maneuverability with superb ultrasound image quality and advanced ultrasound functionality, enabling confirmation of blood flow conditions for easier orientation in the pancreato-biliary region and providing improved ultrasound image quality for enhanced diagnostic capability.

Each transducer element transmits and receives ultrasound waves. Superior resolution is achieved at this frequency.

Tissue Harmonic Echo (THE) is a technique that detects only the 2nd harmonic for improved imaging, enabling you to view a noise-free image with improved spatial and contrast resolution.

ULTRASONIC GASTROENTEROSCOPE
GF-UE160-AL5

Unprecedented scope maneuverability and high-quality imaging capability with a convenient lens cleaning function.

**Features/Benefits**
- Easier orientation in the pancreato-biliary region with 360° electronic radial scanning and image rotation capability.
- High-quality ultrasound images with four selectable frequencies.
- Superior scope maneuverability, made possible by a wide angulation range (130° up, 90° down/right/left), to facilitate the approach to the duodenal bulb.
- Tissue Harmonic Echo (THE) for improved spatial and contrast resolution.
- Color and Power Doppler for effective confirmation of blood flow.
- Lens cleaning function to keep the endoscopic field of view clear at all times.

Sample Imaging Results

Early gastric carcinoma
(Type B)

6 MHz
7.5 MHz
10 MHz

Chronic cholecystitis with GallBladder stone

5 MHz Fundamental Image
THE 3.5 MHz Image
Color Doppler Image

ALOKA Diagnostic Ultrasound Systems

ProSound Ω10

Delivering premium imaging performance, superior functionality and proven reliability.

ALOKA’s ProSound technology is widely recognized for its ability to provide optimum ultrasound imaging performance, making it ideal for EUS. When combined with OLYMPUS’ GF-UE160-AL5 endoscope, the result is a EUS platform that delivers accurate, comprehensive imaging. Using a variety of state-of-the-art technologies such as THE, ALOKA’s ProSound system offers unparalleled views of internal structures.

**Features**
- Preeminent Imaging Performance
- Tissue Harmonic Echo (THE)
- Quad-Frequency Imaging (Four-Step Multi-Frequency Imaging)
- Dual Dynamic Display (DDD)
- Storage & Networking
- DICOM Network
# Specifications

## Optical System
- **Field of view**: 102°
- **Direction of view**: Forward oblique viewing 55°
- **Depth of field**: 3 to 100 mm

## Insertion Tube
- **Diameter and outer diameter**: 13.8 mm
- **Insertion tube outer diameter**: 11.8 mm
- **Working length**: 1250 mm

## Endoscopic Functions
- **Instrument Channel**: Channel inner diameter 2.2 mm
- **Minimum visible distance**: 3 mm

## Bending Range
- **Angulation range**: Up 130°, Down 90°, Right 90°, Left 90°
- **Total Length**: 1555 mm
- **Lens Cleaning Function**: Available

## Ultrasonic Functions
- **Display Mode**: B-mode, M-mode, D-mode, Flow mode, Power Flow mode
- **Scanning Method**: Electronic radial array
- **Scanning Direction**: Perpendicular to insertion direction
- **Frequency**: 5/6/7.5/10 MHz
- **Tissue Harmonic Echo**: 3.75/3.75/3/5.0/5.0 H
- **Focusing Point**: A maximum of four focusing points are available (between F1 and F16)
- **Scanning Range**: 0°
- **Contacting Method**: Balloon method
- **Sterile de-aerated water immersion method
- **Image Rotation**: Available

## Ultrasound Transducer
- Balloon Water Supply Port in the groove
- Light-guide Lens
- Nozzle Objective Lens

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