8862 Craniotomy Transducer

USES

- Intraoperative Neuro imaging (Neurosurgery)
- Intraoperative imaging
- Neonatal Cephalic imaging[1]
- Pediatrics imaging
- Interventional procedures
- Spectral and CFM Doppler examinations
- Tissue Harmonic imaging

BENEFITS

- Clear, sharp images of brain and spinal cord
- Superior, detailed images for precise neurostructural imaging
- Extremely comfortable – like a natural extension of your hand
- Press-and-image transducer button for one-hand system control
- Direct imaging contact for sharper images without sterile covers
- Easy-to-use needle guide for quick, reliable puncture and biopsy procedures
- Single-use needle guide available
- Compatible with modern reprocessing methods

Fig. 1 Craniotomy Transducer Type 8862.

Fig. 2 The 8862 with needle guide UA1345 mounted.

GENERAL DESCRIPTION

The 8862 is a small, curved array transducer for use with BK Medical's ultrasound systems.

APPLICATIONS

The 8862 is ergonomically designed to make it as easy to use as possible. It is small, light, and easy to handle.

INTERVENTIONAL PROCEDURES

The ultrasound system superimposes a puncture line on the scan image to help you guide the needle to its target.

Single-use needle guide
The UA1345 needle guide is designed for interventional procedures and comes as a sterile-packed single-use version. The needle guide has variable diameter holders for needles, catheters and drains between 0.9 and 3.4 mm (10 and 20 gauge).

REPROCESSING

The 8862 is supplied with a watertight plug lid that fits over the connector plug to protect it during reprocessing procedures (including washing) that involve liquids. When the lid is attached correctly, the transducer can be fully immersed. The lid must not be attached when gas processing methods are used.

SAFETY

The 8862 is designed and tested in accordance with EN60601-1 (IEC60601-1), "Medical Electrical Equipment, General Requirements for Safety". When used with BK Medical's systems, Type BF requirements are met.

[1] Neonatal Cephalic imaging has not been licensed by Health Canada.

Specifications

OPERATIONAL FACILITIES
Built-in control button

SAFETY
Designed and tested in accordance with current version of EN60601-1 (IEC60601-1), "Medical Electrical Equipment, Part 1". When used with BK Medical's systems, Type BF requirements are met.

FREQUENCY RANGE
10–3.8 MHz

ENVIRONMENTAL
Operating Pressure:
700–1060 hPa (normal atmospheric pressure)
Operating Temperature:
+10 to +40 °C (+50 to +104 °F)
Storage Temperature:
-25 to +70 °C (-13 to +158 °F)

REPROCESSING
- Reprocessing temperature should not exceed +60 °C (140°F).
- Cover the plug when using liquid reprocessing methods.
- Complete details and procedures can be found in *Care, Cleaning & Safety*.
- Follow product manufacturer's instructions for use.

VALIDATED CLEANING AND DISINFECTION
Manual Cleaning
3E-Zyme™

Manual Disinfection
- Ethanol 70% (wiping)
- Korsolex® Basic
- Tristel® Fuse for Instruments
- STERIS® Revital-Ox™ Resert® XL HLD / Resert® XL HLD

Automatic Disinfection[1]
MEDIVATORS® Advantage® Plus, with:
- MEDIVATORS Intercept® Detergent
- MEDIVATORS Rapicide® PA
- 70% Isopropanol Flush

VALIDATED STERILIZATION[1]
Immersion Methods (plug must be covered)
- STERIS® SYSTEM 1®[2], SYSTEM 1E®[3], SYSTEM 1 Plus, SYSTEM 1 Express

Gas Processes (plug must be uncovered)
- STERIS V-PRO™ 1, V-PRO™ 1 PLUS, V-PRO™ 60, V-PRO™ maX
- STERRAD® 100S, NX™[5], 100 NX[4,5] and 200 systems

POWER SUPPLY
Internally from system

CABLE LENGTH
2.8 m (9.2 ft)

TRADEMARKS
- 3E-Zyme is a trademark of Medisafe UK.
- Tristel is a registered trademark of Tristel Pharmaceutical Ltd.
- Korsolex is a registered trademark of Bode Chemie GmbH.
- AMSCO V-PRO models, Revital-Ox Resert XL HLD/Resert XL HLD and System 1/System 1E are registered trademarks of the STERIS Corporation.
- STERRAD, NX and 100NX are registered trademarks of Advanced Sterilization Products.

1 Automated reprocessing methods are validated for 100 cycles.
2 STERIS SYSTEM 1 is not market cleared in the USA.
3 In Canada, do not use SERIS SYSTEM 1E for this transducer.
4 In Canada, do not use STERAD 100NX for this transducer.
5 Transducers with a serial number higher than 1910000 are NX and 100 NX compatible.

	Units	Craniotomy Transducer Type 8862							
		Pro Focus UltraView 2202				*flex* **Focus 1202**[1]			
Applications (Typical)		Interoperative Neuro imaging (Neurosurgery), Intraoperative imaging, Pediatrics imaging, Neonatal Cephalic imaging[2]							
Basic Imaging Modes		B, M, CFM, Doppler, Tissue Harmonic Imaging							
B-Mode Frequency	MHz	10	8	6.5	5	10	8	6.5	5
CFM Frequency	MHz	6	5	4.3	3.8	6	5	4.3	3.8
Tissue Harmonic Frequency	MHz	9				9			
Doppler Frequency	MHz	5				5			
Number of Elements		160							
Radius of Curvature	mm	25							
Transverse Plane Aperture	mm	6							
Transverse Focal Length (Typical)	mm	35							
Image Plane Aperture	mm	12							
Image Plane Focal Length	mm	Variable							
Axial Resolution (Measured at 25 mm)[3]	mm	0.3	0.5	0.5	0.6	0.5	0.6	0.6	0.6
Lateral Resolution (Measured at 30 mm)[3]	mm	0.8	1	1	1	0.8	1	1.1	1.1
Image Field	°	Sector 66°							
Penetration Depth[3]	mm	84	110	119	120	90	115	120	120
Focal Range	mm	5–68							
Frame Rate (Max)	Hz	>150							
Contact Surface (Acoustic)	mm	29 x 6							
Contact Surface (Overall)	mm	29 x 10							
Total Dimensions	mm	125 x 35 x 24							
Size of Handle	mm	95 x 30 x 24							
Weight (Approximate)	g	50							

1 Not available with *flex* **Focus** 200, *flex* **Focus** 300 or *flex* **Focus** 400 *exp*.
2 Neonatal Cephalic imaging has not been licensed by Health Canada.
3 Measurements according to IEC/TS 61390 and JIS T 1501. Penetration depth is measured in an ultrasound phantom and recalculated corresponding to a realistic tissue attenuation of 0.5 dB/cm/MHz.

For definition of terms, refer to Acoustic Output Measurement for Diagnostic Ultrasound Equipment, AIUM/NEMA 2004.

Ordering Information

ACCESSORIES INCLUDED

DZ9756: Transducer Holder

ACCESSORIES AVAILABLE

UA1345: Single-Use, Sterile Packed, Needle Guide Kit (Pack of 9). Includes 1 needle guide and 2 needle guide insert palettes (3-angle and free-angle respectively), each with 9 different inserts for 10–20 gauge needles.

BB2080: Assembly Guide for UA1345

KE4300: Carrying Case

UA1404: Leakage Testing Kit

TRANSDUCER COVERS

UA0004: Cable Covers, Sterile, Latex-free (Pack of 24)

UA0005: Transducer Covers, Sterile, Latex (Pack of 24)

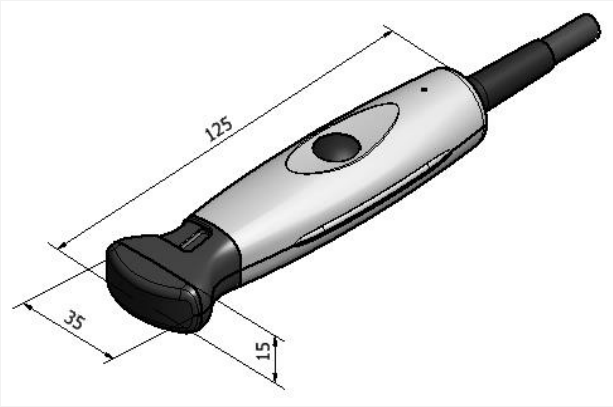
UA0073: NeoGuard™ Cover, Sterile, Latex-free (Pack of 12)

TRADEMARKS

NeoGuard is a trademark of CIVCO Medical Solutions.

8862 Technical Drawings

All measurements are in mm.



UA1345

Needle Guide

- Weight: 6 g (0.2 oz)
- Dimensions: 30 x 45 x 25 mm (1.2 x 1.8 x 1 in)
- Material: MABS plastic with 20% Barium sulphate

Needle Guide Insert Palettes

- Weight: 28 g (1 oz)
- Dimensions: Ø120 X 11 mm (Ø4.7 x 0.4 in)
- Material: MABS plastic with 20% Barium sulphate

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