



bk5000

ELEVATING IMAGING WITH SPEED AND EFFICIENCY

SIMPLICITY IN FUNCTION AND DESIGN

The bk5000 is designed to deliver high resolution images quickly and efficiently. Whether you're identifying margins of a lesion or making a general assessment of an area of interest, the bk5000 has the power and performance to meet your needs.

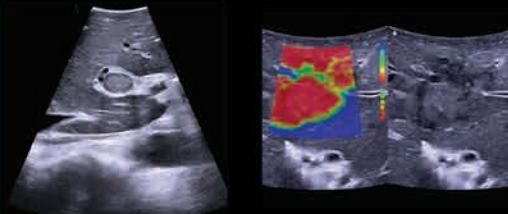
Time and space are always at a premium, no matter what environment you're in. The bk5000 was designed with this in mind. The 20-second boot time means the system will be ready when you need it and the battery allows for up to 2 hours of plug-free imaging.

The No-touch Autogain means you can keep your focus on the image instead of on the equipment.

The bk5000 also features a remote control for convenient and effective operation in the sterile field. All this in a system with a small footprint that fits virtually everywhere.




HPB, INTRAOPERATIVE



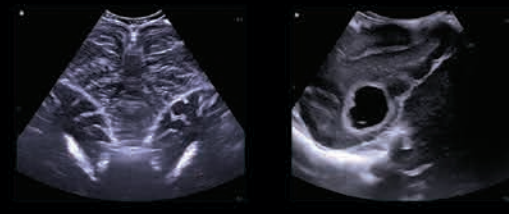
Thrombus in portal vein
I12C5b transducer

Elastography of metastatic lesion in liver
I14C5T transducer

I14C5I (9015) Intraoperative 14-5 MHz	I14C5T (9016) T-Shaped Intraoperative 14-5 MHz	I12C5b (9024) Intraoperative Biplane 12-5 MHz	I12C4f (9066) 4-Way Laparoscopic 12-4 MHz
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NEUROSURGERY, INTRAOPERATIVE




Highly detailed brain tissue
N13C5 craniotomy transducer

High-grade tumor
N13C5 craniotomy transducer

N13C5 (9062) Craniotomy 13-5 MHz	N11C5s (9063) Burr-Hole 11-5 MHz	X18L5s (9009) ¹ "Hockey-Stick" 18-5 MHz
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ROBOTIC-ASSISTED

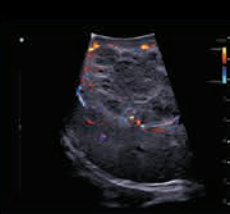


Renal tumor
X12C4 Drop-In transducer

X12C4 (9026)
Robotic Drop-In
12-4 MHz




MINIMALLY INVASIVE

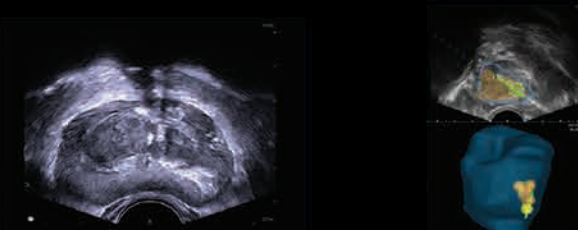


Color Doppler of liver hemangioma
I12C4f transducer

I12C4f (9066)
4-Way Laparoscopic
12-4 MHz




ENDOCAVITY



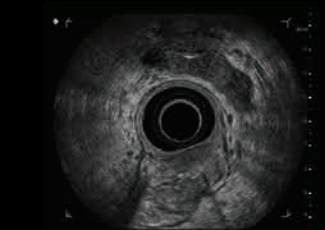
Expanded sector imaging of prostate gland
E14C4t transducer

bkFusion
Biopsy of region of interest
E14C4t transducer

E14C4t (9018) Prostate Triplane 14-4 MHz	E13C2 (9029) High Resolution Endfire 13-2 MHz	E14CL4b (9048) Endocavity Biplane 14-4 MHz	E10C4 (9019) Endocavity 10-4 MHz
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COLORECTAL, PELVIC FLOOR



T3 rectal mass
20R3 transducer

20R3 (9052) Anorectal 3D 20-3 MHz	X14L4 (9038) Endocavity 3D 14-4 MHz
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CURVED

6C2 (9040) Curved 6-2 MHz	6C2s (9023) Small Curved 6-2 MHz
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PHASED

5P1 (9077) ² Small Footprint Cardiac 5-1 MHz
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LINEAR

13L4w (9011) Wide Linear 13-4 MHz	18L5 (9070) High Frequency Linear 18-5 MHz
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Technical Specification

bk5000 Technical Specification

- With TriCore architecture with Ultrahigh resolution imaging
- Doppler accelerated system control
- With Vector-Flow Imaging
- Advance Transducer Technology
- Small footprint, the system can fit in anywhere
- 20 second boot-time
- Upgradable to Fusion Technology– enhance your findings with true, real time MRI to Ultrasound fusion during transrectal and transperineal prostate biopsy
- Upgradable to advanced and fully integrated 3D software
- With battery for added flexibility

Range of Imaging Modes

- B (2D)
- M
- PW Spectral Doppler (PW)
- CW Spectral Doppler (CW)
- Color Flow Mapping (CFM, C)
- Power Doppler (P)
- Tissue Harmonic Imaging

Combination Modes

- B+M
- B+PW (Duplex)
- B+CW (Duplex)
- B+C+PW (Triplex)
- B+P+PW (Triplex)
- 2B
- B+B Simultaneous (Biplane Imaging)
- B+(B+C) Simultaneous
- B+(B+P) Simultaneous
- B+THI Simultaneous
- B+CI Simultaneous
- B+E

B – Mode (Techniques)

- Fully Digital
- Enhanced Tissue Definition
- Compound Imaging
- Dynamic Focusing
- Dynamic Apodization
- Digital Beam Former
- Speckle Reduction
- Tissue Harmonic Imaging
- Multibeam Processing
- Synthetic Transmit Aperture

Imaging Features

- Speckle Reduction
- Compound Imaging
- Tissue Harmonic Imaging
- Trapezoid Scanning (Virtual Convex)
- Synthetic Transmit Aperture

DICOM/Network

- DICOM Store, Print, Worklist
- DICOM MPPS
- DICOM SR
- Archive directly on external PC

Documentation

- Measure on stored images
- Office Printer Support
- Built – in HDD 500GB
- S – video
- Image and Video Format – BMP/AVI (Lossless), DICOM
- External HDD up to 500GB
- DVI Out (HDMI via connector)
- VGA Output
- Composite Output

Ergonomics

- Monitor Height Adjustment – 26CM
- Monitor Tilt
- Monitor Swiveling +/- 175 degrees
- Keyboard Height Adjustment – 25CM
- Wrist Support
- Transducer Connectors – 4
- Power Consumption/Maximum Thermal Output 900VA/2000BTU/HR
- Fan Noise <45Db

User Interface

- Direct On – Screen Controls
- Interactive Keyboard Light
- Automatic Gain Control
- Automatic B-Mode optimization
- Automatic Doppler Optimization
- Remote Control
- Transducer Buttons (Smart)
- User Defined Hard Keys

Monitor

- Display Size 19” (TFT)
- Display Type TFT
- Graphics Mode SVGA 1024X1280 @ 60 Hz
- Image Display Size Up to 230X265mm
- Split Image Display Size 230X125mm

System Reprocessing

Disinfection

--- Methods

Wiping with:

- Tristel DUO for Ultrasound
- Ethanol (70-85%)
- Wet Wipe Ethanol Disinfection

Transducer Reprocessing

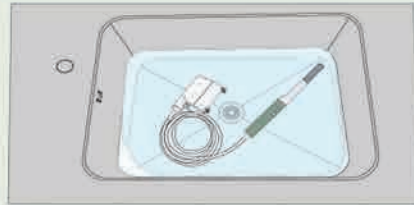
Dependent on transducer type/classification

--- Methods

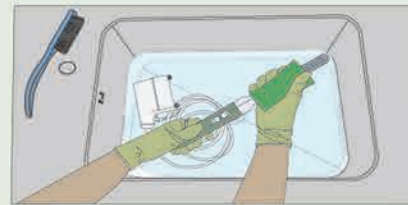
- Wiping with disinfectant
- Liquid Immersion
- Gas Sterilization

Complete information for BK Medical Product range can be found on the Care and Cleaning User Guide.

THOROUGH CLEANING



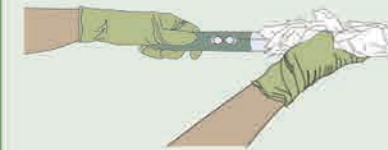
- Fill sink with a detergent solution*, following the detergent manufacturer's instructions.
- Make sure the watertight lid is attached and locked, then immerse the whole device.



- Use a soft brush/sponge to clean the whole device (including lumens if applicable).
- Soak the device, following detergent manufacturer's instructions.



- Check if the device is completely clean. If necessary, repeat steps 9 and 10.
- Rinse the device, following detergent manufacturer's instructions.



- Dry the complete device with a soft, lint-free cloth, air dry, or use a drying cabinet.

⚠ DO NOT EXCEED 60°C (140°F)

DISINFECTION AND STERILIZATION See newest Care and Cleaning guide for complete list of disinfection and automated sterilization methods

HIGH LEVEL DISINFECTION

IMMERSION DISINFECTION



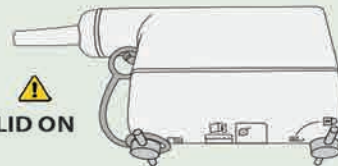
- Disinfect and rinse the device, following disinfectant* manufacturer's instructions.

LID ON



With disinfection methods the watertight lid must be ON, or the device will be damaged. Follow method* manufacturer's instructions.

AUTOMATED DISINFECTION

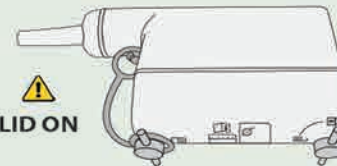


LID ON

With disinfection methods the watertight lid must be ON, or the device will be damaged. Follow method* manufacturer's instructions.

AUTOMATED STERILIZATION

LIQUID CHEMICAL STERILIZATION



LID ON

With liquid chemical methods the watertight lid must be ON, or the device will be damaged. Follow method* manufacturer's instructions.

GAS STERILIZATION



- Note that the X14L4 and the 20R3 transducers cannot be processed with gas sterilization!



LID OFF

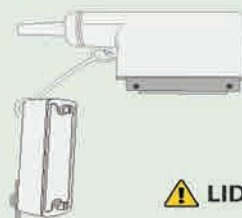
With gas processing methods the watertight lid must be OFF, or the device will be damaged. Follow method* manufacturer's instructions. Use special lid for formaldehyde sterilization.

AUTOMATED STERILIZATION See newest Care and Cleaning guide for complete list of disinfection and automated sterilization methods

GAS CHEMICAL STERILIZATION

With the following methods the watertight lid must be OFF, or the device will be damaged. Follow method* manufacturer's instructions.

METHOD	CYCLE
STERRAD 100S	Short Cycle (US: one cycle only)
STERRAD 200	Short Cycle
STERRAD NX / 100NX	Standard Cycle
STERIS V-PRO maX	Non-lumen Cycle/Flexible Cycle
STERIS V-PRO 1	Non-lumen Cycle
STERIS V-PRO Plus	
STERIS V-PRO 60	

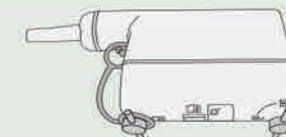


⚠ LID OFF

LIQUID CHEMICAL STERILIZATION

With the following methods the watertight lid must be ON, or the device will be damaged. Follow method* manufacturer's instructions.

METHOD
STERIS SYSTEM 1
STERIS SYSTEM 1E
STERIS SYSTEM 1 PLUS
STERIS SYSTEM 1 EXPRESS



⚠ LID ON



**Use BK approved products and methods. Follow the product/method manufacturer's instructions.*

This guide is a summary of the essential steps necessary to properly reprocess specific BK Medical transducers. Always refer to the Care and Cleaning guide on www.bkmedical.com for detailed reprocessing information and lists of BK approved products and methods.



ULTRASOUND DESIGNED FOR SURGERY

- Superb images instantly- no adjustment needed
- Small system footprint- fits easily in the OR
- Wide range of specialized and sterilizable transducers
- Sterilizable remote control for convenient control of the system in the sterile field
- Rapid boot time and up to two hours of plug-free imaging
- Advanced modes: elastography, contrast imaging, 3D, vector flow imaging (VFI)

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