

Getting Started

bk3000 & bk5000 Ultrasound System



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Part of the bk3000 & bk5000 User Guide bk3000 & bk5000 = Ref. Type 2300



For Professional Users Only

CD/DVD reader/writer

USB 2.0 connector



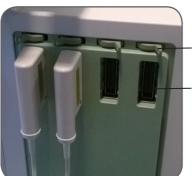
ON/Standby button



Turn knob to make system easier or harder to rotate on stand

Note: Tighten knob before moving system.

Cable holder and release handle. To adjust system height, hold control panel on both sides and pull up on the release handles while moving the control panel up or down



Flip lever left to lock, and right to unlock

Transducer socket 2



Lock wheels before use

Before You Start

Before you turn on the system, make sure that the installation has been approved by a qualified electrician or by hospital safety personnel.

Turning System On and Off

When you turn the system on or off, you must give the system enough time to save and recover open files and unsaved data. Otherwise, a serious system failure may occur that requires technical support.



Caution S-c4: Never unplug the system from the wall while it is running. Turn off the system and wait for the light on the keyboard and the ON/Standby button to go out before unplugging.



To Turn On:

Press the ON/Standby button *once*. Wait until startup screen disappears before you do anything else.

To Turn Off:

Make sure system is completely up and running. Press the ON/Standby button *one* time.

Note: Always follow the recommended procedure for shutting down your system.

Connecting Transducers

To Connect:

- 1. Insert transducer plug into socket with locking lever to the right.
- 2. Turn locking lever on socket to the left.

To Disconnect:

- 1. Freeze image.
- 2. Turn locking lever on socket to the right.
- 3. Remove plug from socket.

Performing an Exam

Keys are described on pages 6 and 7.



1. Press **Patient** key. Enter patient information. Patient ID field populates automatically with date and time. (Tab to move between fields.) Click **Start New Exam or press unfreeze.**



- Exam type
- 2. To change transducer type, press button on transducer or press **Probe** key and select transducer (probe).
- 3. To change exam type, press **Exam type** key. Select examination type.
- 4. Imaging starts in B-mode.



- 5. Select highest frequency possible (**Freq** on monitor) to give needed penetration.
- 6. Adjust other imaging parameters. Turn **Depth** and **Gain** dials to adjust depth and gain as needed.
- When you want to make a measurement or capture an image, press
 Freeze key to freeze image. (Measurement tab opens.)
- 8. To make a measurement, press **Measure** key or select measurement keys on monitor. Make the measurement.
- Press Capture key to capture the image (save it to system hard disk). It appears as a thumbnail at the top of the monitor.
 Frozen = image, Unfrozen = clip. Capture turns red while recording. Click again to stop recording.
- 10. Press Freeze key to start imaging again.



11. Press End exam key to conclude exam.

Exam Type

An examination type specifies both a Pro Package and a Diagnostic Setup/Preset.

The Pro Package affects the system user interface — which tabs and controls are displayed, which measurements are allowed, etc.

The Diagnostic Setup/Preset affects the ultrasound image — sets the gain, depth, frequency, etc.

selected Pro Package



selected Diagnostic Setup

Viewing and Copying Images

To select captured images to view them or copy them to another device, use the document pane at the top of the monitor (described on pages 8 and 9).

View

Double-click thumbnail in document pane. Document is displayed in image area.

Copy to USB or CD/DVD

To Copy Captured Images:

- 1. Insert USB device or CD/DVD.
- 2. Click each image to be copied. Frame turns blue.
- 3. Click **Copy**, then select destination (USB or CD/DVD). The options **without Patient ID** are recommended for patient security.
- 4. Images are copied to USB immediately. Click **USB Eject** to remove USB device.

When you select CD/DVD, images are copied to a staging area. To copy them to the CD/DVD, click Burn CD and follow instructions.

System Busy

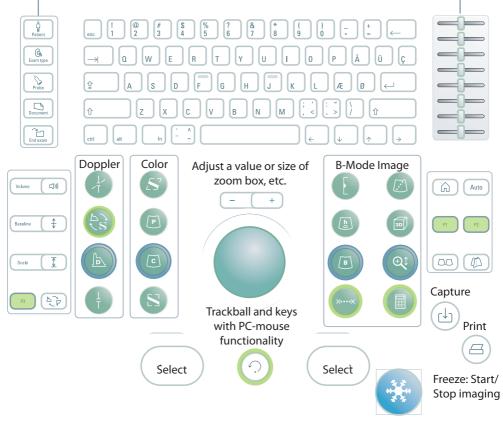
When the system is busy, a spinning disk appears on the lower right hand side of the monitor.

Note: Wait until the spinning disk disappears before using any controls, including buttons on the transducer.

Keyboard

See 'Performing an Exam' page 4

TGC sliders Adjust gain in different parts (depths) of the image



User-defined keys. See the bk3000/bk5000 Advanced User Guide.

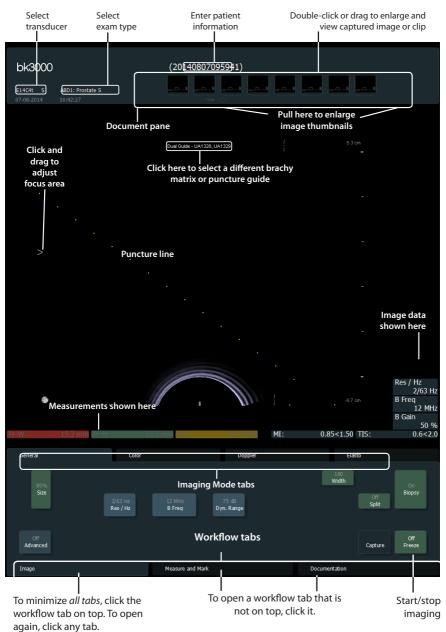
Keys are Backlighted		
If light is	Key function	
Bright	On	
Dim	Available but not on	
Off	Unavailable	

Monitor Brightness		
Increase	ctrl + 🔨	
Decrease	ctrl + 🖵	
Default setting	ctrl + D	

	D. Mada Issues View						
	B-Mode Image Keys						
Focus Select focus indicator on monitor	Ð	Puncture Guide Puncture line or brachy matrix on					
Harmonic Press for on and off		(intersection) 3D Press for 3D box and click again to start 3D ac- quisition Long press: 3D off					
B-Mode/Gain When imaging: Press: B-mode Turn: B-mode gain When frozen: Turn: Scroll Cine Press: Change dial to Post Gain		Zoom/Depth Turn: Adjust depth Press: Zoom box on Turn: Resize zoom box 2nd press: Zoom area inside box 3rd press: Zoom off, dial returns to Depth Long press: Zoom off					
Measure Start default measurement		Calculate Start first measurement for default calculation					
Spectral Doppler Keys		Color Doppler Keys					
Doppler Angle Angle on and selected Long press: Angle off		Steer Change beam angle in Color/Power/ Doppler modes					
Update Changes which Triplex mode is imaging and which is frozen Long press: Unfreeze both views		Power Mode Press for on and off					
Cancel/Undo Update in most pro packages	\bigcirc	Color Mode Press: Color mode Turn: Color/Power mode gain					
Doppler Mode Press: Doppler mode Turn: Doppler mode gain In B-mode, controls MI In M-mode, controls M mode gain		S Color Box Press for on and off					
Doppler Gate Press for on and off	ł						
Volume 🖘		Home Auto Auto B-mode returns to de-					
Baseline 🛟		lefault settings for fault preset gain. current exam type D-mode optimizes PRF (scale) and baseline. Long press activates					
Adjust Color/Power/		Auto Gain					
Invert Invert Doppler spec- trum (or color scale)		Split Screen Split screen so 2 views are displayed, or change which view is active Long press: Split					
		screen off					

Long press = press for 1-3 seconds.

Monitor Functionality



Monitor Controls

The Pro Package determines what tabs are available and which controls they contain. For example, the M-mode tab or 3D tab is available only when it is part of the selected Pro Package.

Available controls depend on whether the image is scanning or frozen.

Note: "Click a tab" means click the tab name.

Workflow Tabs

Workflow tabs open automatically as needed. That way, only relevant controls are displayed. You can also open a tab manually to see its controls as described on page 8.

"Freeze" toggles between Image and Measure and Mark tabs.

Imaging Mode Tabs

Controls on the Image workflow tab are grouped on various Imaging Mode tabs.

- To start an imaging mode, click the tab while imaging. It opens so you can use the relevant controls.
- Click Image tab to display mode tabs on the top. In order to activate, click Unfreeze.
- Clicking the imaging mode tab on top turns off that imaging mode.

Visible Controls

Tabs can be customized to include different controls, so your monitor may not look exactly like the one pictured. The *bk3000/bk5000 Advanced User Guide* contains information about customizing your setup.

Basic Tabs (Advanced Off)



Basic tabs contain the most often used controls.

Advanced Tabs (Advanced On)



To see and use all available controls for a work-flow tab, click **Advanced**.

Basic Monitor Controls

Кеу	Function/Note
3D	Turn on 3D imaging
Archive	Send to PACS (DICOM) or staging area for archive CD
Biopsy	Display puncture line or brachy matrix
Bodymark	Bodymark on image
Capture	Save image (if frozen) or clip (if imaging) to system hard disk
Сору	Copy to USB or CD/DVD
Depth -	Decrease max. tissue depth shown (increase magnification)
Depth +	Increase max. tissue depth shown (decrease magnification)
Dyn. Range	Adjust contrast
ETD	Enhanced Tissue Definition (reduce speckle)
Freeze/Unfreeze	Start/stop imaging
Freq	Change imaging frequency
Gain	Adjust gain of selected mode
Harmonic	Tissue harmonic imaging
L/R	Image orientation left/right
Pro Package	Select different Pro Package
Save	Save setups
Scale	Adjust Color/Power/Doppler scale/PRF
Simultan	Both split-screen views imaging simultaneously (Color or Power mode in one view only)
Size	Image bigger or smaller
Split	Split screen into 2 views
U/D	Image orientation up/down

These are the controls needed for basic examinations.

For information about other controls, see the *bk3000/bk5000 Advanced User Guide*.

Your Custom Keys

Key	Function/Note
P1	
P2	
P3	
××	
\bigcirc	

Your Notes

This Book is not a Complete User Guide

Before you use the system, you must read the Safety chapter in the *bk3000 & bk5000 User Guide*. It contains safety information that is important for avoiding injury and for avoiding damage to the equipment. You must also read *Care and Cleaning*, which contains information about cleaning and disinfection as well as information about required inspections, calibration and maintenance. The *bk3000/bk5000 Advanced User Guide* contains detailed information for the advanced user.

www.analogicultrasound.com

This guide is also available on the BK Ultrasound website. Please go to the *Customer Service* section to download user manuals.

If you have comments about the user documentation, please write to us at info@bkultrasound.com. We would like to hear from you.

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