





Ibex LITENXT Ultrasound System Fast-Track User Reference Guide

Ibex LiteNXT manual can be downloaded at: https://www.eimedical.com/library

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FCC Regulatory Information



Contains FCC ID: Z64-WL18DBMOD Contains IC: 451I-WL18DBMOD

This device complies with Part 15 of the FCC Rules subject

to the following two conditions

- 1) This device must not cause interference, and;
- 2) This device must accept all interference, including

interference that may cause undesirable operation.

WARNING:

Modification of this device without consent of the responsible party may void the users right to operate this device.

CE Declaration of Conformity

Pending

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Overview

Please read all the instructions and warnings before using the Ibex LiteNXT Portable Ultrasound system.

The **Ibex LiteNXT Portable Ultrasound User Guide** provides an overview of the features and functionality of the LiteNXT ultrasound system. This guide offers the information you need to quickly set up, operate, and maintain the LiteNXT.

The **E.I. Medical Imaging Ibex family** of ultrasound scanners are internally battery-powered devices designed for veterinary use. An external AC adapter is provided for charging the internal battery and powering the Ibex scanners. This guide does not cover the theory or science of diagnostic sonography or clinical veterinary practices. It is intended for users who are already familiar with ultrasound techniques.

The **Ibex LiteNXT ultrasound system** represents the 7th generation of portable, highly ruggedized ultrasound systems from E.I. Medical Imaging. The LiteNXT is the result of years of customer feedback and the hard work of our R&D team in Loveland, Colorado.

This **Ibex LiteNXT User Manual** is a short reference guide for the basic use and care of your Ibex LiteNXT ultrasound system.

It is recommended that the user read <u>all</u> instructions and warnings before using this ultrasound device.

Charging the Battery Pack

- 1. Ensure that the battery is installed in the Ibex LiteNXT system. Engage the battery door latch to the upright lock position to ensure the system access door is properly sealed.
- 2. Connect the AC adapter to the Ibex LiteNXT system with the AC adapter connector inside the battery door.
- 3. Plug the adapter into a 110-240 VAC Outlet. During the charge cycle the orange battery light on the keypad illuminates indicating the charging process is underway. As the battery reaches its full charge, the light switches

off which indicates the battery is at full charge.

The total charge time will range between 120 and 180 minutes from a totally drained battery to a fully charged battery.

Only use the supplied 15v power supply to charge your LiteNXT. Failure to do so may cause damage to the system and void your warranty.

Transducer

The Ibex LiteNXT ultrasound supports the attached eCLi6 hybrid transducer. The eCLi6 transducer is hardwired to the Ibex LiteNXT for increased ruggedness and durability.

Video Headset

The InSite*NXT* video headset can be ordered as an accessory to work with the LiteNXT ultrasound system. Additional models are available. Ask your E.I. Medical Imaging sales representative for more information.

The LiteNXT uses standard DisplayPort over USB-C for connection to the video headset, the connector can be inserted in 2 directions, either will work. It is then secured by screwing the ring on the headset cable to the threaded body of the LiteNXT headset connector.



Ibex LiteNXT Keyboard

The multifunction keyboard on the LiteNXT can be configured to perform different functions.

The basic keys used to operate the LiteNXT system are as follows:

Keys and Functions

Power Button- used to power on/off the LiteNXT system.



WiFi Indicator- will light **BLUE** when connected to WiFi network Blinking:

- Slow: setting up the access point in DIRECT mode or connecting to a network in STATION mode.
- Fast: setting up the 5GHz access point, performing DFS scan.
- Fast-Fast-Slow: setting up the access point using a user selected channel

Error codes:

- Slow-slow-fast-fast; Unsupported display connected
- 4-times fast: Display Port link training has failed

Charge Indicator- will light ORANGE when charging, no light when fully charged or if no battery detected

Power Indicator- Will light Green when power is ON



POWER- The Power button is a multifunction key.

- Press Power button once to power system on.
- Press and hold Power button for 3 seconds to shut system down.
- Key Lock feature- Press power key three times to toggle keypad lock on and off.



FREEZE- The FREEZE button performs different functions based on mode:

Normal mode (Full screen): Press the FREEZE key to freeze and unfreeze the active image on the screen.

Menu mode: Back/ cancel

Triangle- The Triangle/Action key is not configured by default.

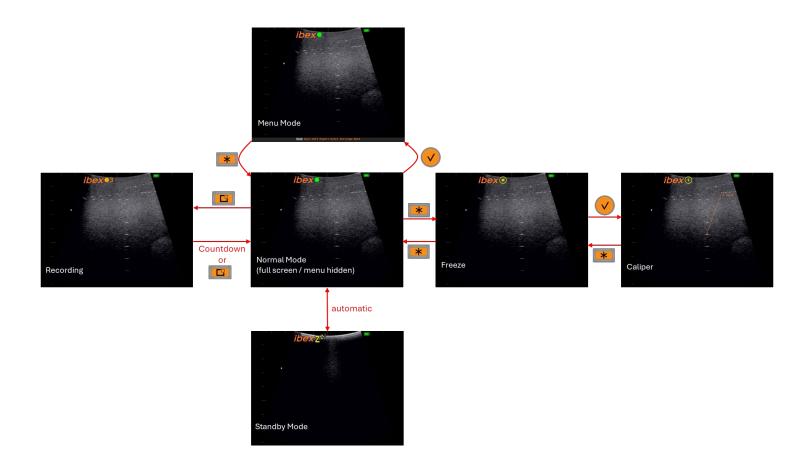
SAVE - Either takes a still image or start/stops a recording. This function can be changed in the Settings → Miscellaneous menu.



Navigation Cluster- These keys are used to activate controls used in various functions. The Center Checkmark button is the SELECT key. The SELECT key has generic functionality depending on menus and functions on the screen. During normal mode, the left/right keys are used to decrease/increase the overall gain.

Up/Down will change the exam type.

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Basic System Operation

Welcome Screen

When you power on your LiteNXT system for the first time, you will find the Welcome Screen. On this screen you will be able to set your Clinic Name, Country of use, Time Zone, Date, Time and preferred time format. Also found here is a copy of the E.I. Medical Imaging Data Policy.

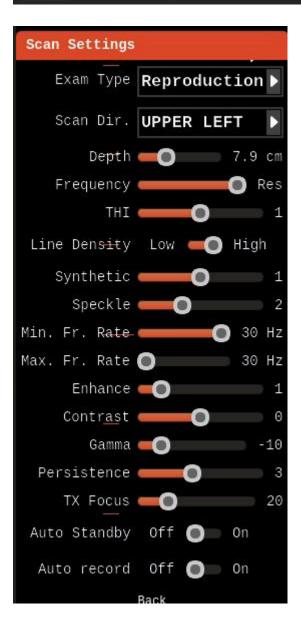
Welcome IBEX NXT PRO	
Clinic Name: E.I. Medical Imaging	
Country: United States	
Time Zones America/Denver	
Date 5 Mar 2025	:
Time 08:38	
Time Format 12h 🛑 🖲 24h	
collects, stores, and transmits data, data, performance data, and related da to inform Customer about how Ultrasoun used, stored, and shared. This Data Po responsible handling of Ultrasound Data Consent Customer's use of its Ultrasound Equip defined here constitutes Customer's co storage, and use of Ultrasound Data. Collection at any time by discontinuin Medical Imaging to provide any necessa data collection and sharing. Scope	ment and/or Customer's access of Aggregated Data as nsent to this Data Policy and consent to the collection, ustomer can withdraw its consent for Ultrasound Data g the use of its Ultrasound Equipment and contacting E.I. ry modifications to the Ultrasound Equipment to disable

Use the directional arrows and Select key to input your selections.

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Main Menu

Scan Gain WiFi Review Eject Settings Back



Scan-

The Scan Settings menu provides access to advanced system controls.

There are various system presets with optimal settings for a specific exam type. For example, Reproduction. Some exam types incorporate Extended View for best performance.

Scan Settings Control Menu:

• Exam Type-

This feature allows for a series of preset scanning configurations depending on the use case. The three preset Exam Types are:

- Reproduction
- Fetal Sexing
- o Arms Free
- Scan Direction-

Allows the user to select the direction in which the system is scanning. The ibex logo *bex* indicates the scan direction i.e. front edge of the transducer.

• Depth-

Allows the user to control the scan depth.

Frequency-

Allows the user to control the transmit frequency of the transducer which will influence resolution at different desired depths.

• THI-

Feature allowing for a cleaner image with better contrast and less artifact. THI doubles the image acquisition time, reducing the frame rate.

• Line Density-

Adjusts the number of vertical scan lines that make up the image. A higher setting provides a finer image but increases the image acquisition time, reducing the frame rate.

• Synthetic-

Adjusts beam sharpening to provide a sharper image with better resolution.

• Speckle-

Adjusts image speckle pattern for a smoother image appearance.

- Minimum Frame Rate-Set the minimum frame rate. To achieve the minimum frame rate, the LiteNXT reduces the image width.
- Maximum Frame Rate-Set the maximum frame rate.
- Enhance-

This setting can help sharpen edge detection of the active image by enhancing strong echoes.

Contrast-

Higher number, greater contrast, fewer grays. Only affects ultrasound image; not screen.

• Gamma-

Used in conjunction with Contrast, Gamma helps adjust the grayscale intensities of the active image.

• Persistence-

Persistence is a frame averaging feature which allows you to manipulate images based on application requirements. As a rule of thumb, when persistence is low, the image is faster

and grainier. When persistence is high, the image is smoother and slower; smearing is possible.

• Transmit Focus (TX Focus)-Used to set the transmit focus position. This is indicated by a white arrow on the left side of the image.

Auto Standby-

Allows the system to go into sleep mode when the transducer is not in contact with tissue to maximize battery life. The system comes out of standby when tissue contact is detected.

Auto Record-

Allows the system to automatically begin recording when the system detects probe contact.

Gain

OVERALL GAIN: To adjust the overall gain, press the Left/Right arrow keys. Use the left and right arrow keys to decrease/increase the brightness of the entire field.

When adjusting specific GAIN or TGC values, a yellow bar will appear to indicate the area to be adjusted.



NEAR GAIN:

The near GAIN control is used to lighten or darken the intensity of the echoes in the near field of the image (the area closet to the transducer). Use the same technique to adjust near GAIN as it is used for overall GAIN (mentioned above).

FAR GAIN:

The far GAIN control is used to make adjustments to the electronic amplification of the echoes in the image area that are farthest away (far field) from the transducer. Again, use the same technique to adjust far GAIN as is mentioned in the overall GAIN section above.

WiFi

There are two modes of connecting the LiteNXT to WiFi enabled devices: Direct and Station.

DIRECT mode

Allows the LiteNXT to connect and stream images directly to a WiFi enabled device such as a phone or tablet.



STATION mode

Allows the LiteNXT to connect to an existing WiFi network.

Export

Allows the user to offload stored images and loops to the removeable USB flash drive.

Eject

Allows the user to safely remove the USB flash drive.

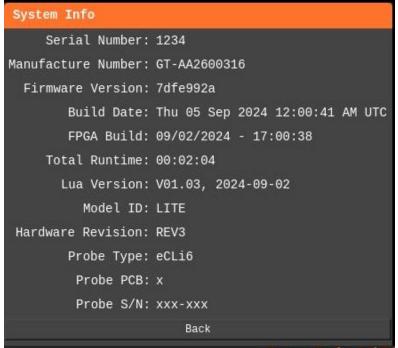
Settings



The Settings tab has a drop-down menu with additional system settings and controls.

System Info

This screen provides the user with pertinent information for the LiteNXT system. This information may be requested should your system require maintenance.



System

System	Upgrade
Bluetooth	Reset
Clock	Backup
Audio	Restore
Video	
Miscellaneous	
Keyboard	
ettings Back	

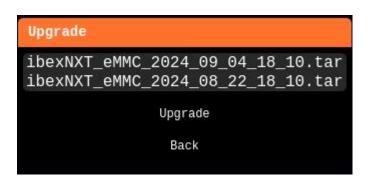
In the Maintenance menu the user can perform advanced system operations. This includes upgrading the system firmware when available to keep your LiteNXT operating at its best.

System Options

1. Upgrade- This is where the system firmware can be updated.

The system firmware contains all operating software for the system. E.I Medical Imaging recommends you keep your system updated to the latest version of the firmware to take

advantage of new features and enhancements. Firmware file names have a .tar extension. For example: 01.03.00002.tar



- 2. Backup- Automatically creates a backup image of the current firmware and all saved images/videos to USB flash drive. A progress bar will display while backup is being created.
- 3. Restore- Reloads the saved backup version.
- 4. System Reset- Restores the system to factory defaults and erases all saved images.
- 5. Reboot- Restarts system.

***System automatically backs up and images are restored when performing an Upgrade.

Bluetooth[®]

The LiteNXT utilizes Bluetooth[®] to connect with RFID readers and applicable remote-control devices.



Clock

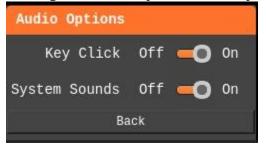
Use this menu to set/adjust your system's date and time settings.

Clock Settings	
Auto Date & Time	OFF CON
Country:	United States
Time Zones	America/Adak
Date	5 Sep 2024 ÷
Time	09:39
Time Format	12h 💶 🔵 24h
J	Back

Note- Auto Date & Time is OFF by default. In order to enable Auto Date & Time the LiteNXT must be connected to the internet.

Audio Settings

To change audio settings on the LiteNXT, enter the Audio Options menu: Settings include Key Clicks and System Sounds.



Video

Video setting options allow the user to control the appearance of the image in the headset.



Miscellaneous

Various system settings for additional user customization. IbexNXT_Fastrack_Manual_25_v10 Copyright 2025 E.I. Medical Imaging

Miscellaneous	
Clinic Name	. Medical Imaging
Grid	тіскя 🕨
Grid Size	-0 10 mm
Grid Brightness	—— 0 — 50
Clip Grid	0ff 🛑 On
Caliper Units	cm 🔵 🚥 mm
Menu Timeout	10 secs
Recording Length	4 secs
Save Button Action	Image 🔵 🖿 Video
Show RFID Tag ID	Off 🔵 🖿 On
	Back

Clinic Name

Set the name of your clinic here. This will appear at the bottom of jpegs and avi's saved on your system.

Grid

Adjust this setting to add measurement rules to the background. These scale appropriately as you adjust the depth.

TICKS – Ruler style tick marks display along the top and left edges of the image area.

FULL– A full grid display allows for visual area estimation without drawing a bounding region. User can adjust brightness and size of the grid.

CIRCLES- Concentric circles display allowing for visual area estimation without drawing a bounding region.

NONE– No grid lines displayed.

MENU TIMEOUT- Adjusts the duration menus appear on the screen.

Recording Lenth

Sets the recording length when the record button is pressed. For 2,4,8 seconds, the recording will automatically stop. For Start/Stop, the recording begins when the record button is pressed and stops when the button is pressed again.

Save Button Action

Sets the default function of the 🛄 button from Image to Video.

Keyboard

Settings in the Keyboard Settings menu allows the user to change the orientation/ functionality of the keyboard.



Flip Left/ Right- Depending on the orientation of the LiteNXT in use, the user may want to flip the keys to reflect use.

Flip Up/Down- Depending on the orientation of the LiteNXT in use, the user may want to flip the keys to reflect use.

Triangle Key-

- Caliper: Allows the user to switch from normal mode (fullscreen/menu hidden) with a single key click, instead of the normal key sequence Freeze 🛛 Select
- Snapshot: Allows you to save still images
- None: No action

Manipulating Images

Freezing Images

The Ibex LiteNXT systems allow you to freeze any active image for further analysis.

Pressing the **Freeze** key gives you the ability to:

- Save images.
- Take measurements of structures in images.

Saving Videos/ Images

- 1. By default, the **FILE** key records a 4 second clip when live scanning. This can be configured to other desired video lengths (2,4,8 seconds, start/stop).
- 2. When the system is in the FREEZE state, the FILE key saves a .jpg image.
- 3. These default settings can be changed in Settings → Miscellaneous

There are two different ways to configure your LiteNXT to save images. From live scanning, complete the following:

Configure the SAVE key option set to images in the Settings → Miscellaneous menu Or

Configure the TRIANGLE key set to Snapshot in Keyboard Settings

Press the SAVE 🛄 or TRIANGLE 🔺 key.

The Ibex LiteNXT saves images in the .JPG (Joint Photographic Group) file format. (for example: eCLi6-<EXAM-TYPE> -<DATE>-<TIME>.jpg

Auto Record

Auto Record- Allows the system to automatically begin recording when the system detects probe contact.

Calipers and Measurements

Distance Measurements

 Move the cursor (navigation keys) to the start point → hit Select → move the cursor, a light blue label appears at the start point with the current distance in cm.



• When at the end point hit Select, the measurement line color changes to orange.



• Use the navigation keys to place the label, hit Select when done, the label turns orange.



Editing Measurements

• Press triangle key to bring up the Edit menu.



• Choose select, the cursor changes from the crosshair to an arrow. Move the arrow to the item you want to edit. When the cursor is hovering over the item, it will change to light blue.



• Press Select and the item color changes to lime.



• If you want to select the label only, hit select again, the label stays in lime color. The measurement line changes back to light blue.



• Press Triangle to display the menu if only a label is selected.



• If not, the selected items change color to yellow.



• Move selection, the cursor changes to the arrow crosshair and the navigation keys will move the selection



- When finished editing, hit Select and the cursor will change back to an arrow to show selection mode. To abort, hit Freeze.
- To get out of selection mode, hit Freeze.
- More measurements can now be made.
- User can change measurements between cm and mm.

Gestational Tables

The lbex NXT is pre-loaded with several gestational tables- based upon species. Once a gestation table is selected, the system will automatically calculate gestation age once a measurement is taken.

Select				
Gestation Table >	None			
Back	Alpaca	×		
Exit	Bovine	•	Fetal Age	(Brain Vault)
	Buffalo	۲	Fetal Age	(CRL)
	Canine	۲	Gestation	(CRL IMV)
	Fallow Deer	۲	Fetal Age	(E0)
	Equine	۲	Gestation	(AMN)
	Feline	۲	Gestation	(Head Diameter)
	Goat	۲	Gestation	(Head Diameter IMV)
	Llama	۲	Gestation	(Head Length IMV)
	Sheep	•	Fetal Age	(BPD Ext)
	Swine	Þ	Fetal Age	(BPD WRV)
			Gestation	(Trunk Diameter IMV)
			Fetal Age	(TD)

Using WiFi on your LiteNXT Ultrasound System

IbexStream[™]—*Sharing Live Images*

IbexStream lets you share the live video feed to an iOS or Android[™] device. It will connect up to 4 devices at a time.

There are two ways of connecting to a LiteNXT from your wireless device.

- Configure your phone and LiteNXT to connect to the same WiFi network
- Or configure the LiteNXT to supply its own WiFi [**WiFi Direct**] and have your device connect to that network.

Connecting Over WiFi DIRECT

- 1 Power on the LiteNXT.
- 2 Enable WiFi.

To access the **WiFi** settings:



- 3 By default, **WiFi** is disabled. In the WiFi Mode menu, select DIRECT
- **4** The LiteNXT will then automatically create an access point for connection.
- Optionally you can specify:
 - The frequency to be used, either 2.4GHz or 5GHz.
 - The channel to be used. This is help full if you are working in an environment with multiple WiFi networks to select the least congested channel for the best performance.
 - The SSID (**S**ervice **S**et **Id**entifier) the name of the network that will show on your WiFi compatible device.
 - The Passphrase to secure your network.

At this point your EVO is configured to stream over **WiFi Direct**.

Note: When using 5GHz channel, a country must be selected as different countries have security measures in place for this frequency band. Country would have been selected on the Welcome screen during initialization. However, if this needs to be changed when travelling, this can be found in Clock Settings.



Connecting Over WiFi STATION

- 1 Power on the LiteNXT.
- 2 Enable WiFi.
- To access the **WiFi** settings:

Wifi Settin	gs	
Status	Idle	
Wifi Mode	STATION	
Ibex Stream	Off 🛑 On	
SSID	ibn_5G 🕨	
Passphrase		
	Back	

- 3 In the WiFi Mode dropdown menu, select STATION
- 4 Enter the Passphrase to secure your network.

At this point your EVO is configured to stream over WiFi STATION.

Configuring iPhone® or iPad®

Download **IbexStream™ App** from *Apple App Store*.

- 1. Click **Settings** on your iPhone or iPad.
- 2. Select **WiFi**; this should bring up a list of networks.
- 3. You should see **LiteNXT** [unless you changed the SSID in step 3 above] from that list. Select it.

4. You'll be prompted for the network passphrase [**ibexlite_1**, unless changed]. Once you have entered the correct passphrase, your iPhone or iPad should connect to the LiteNXT network. Exit **Settings**.

- 5. Launch the **IbexStream App**.
- 6. It should auto-detect the unit and start display the video stream from the LiteNXT .

Maintenance and Cleaning of Your Ibex LiteNXT Ultrasound

Make sure you clean your Ibex LiteNXT ultrasound system and transducer after every use. Routine cleaning and maintenance will help ensure the prolonged life of your system. While the Ibex LITENXT ultrasound is a ruggedized ultrasound device, certain precautions should be used in the care of the system. Do not use any abrasive cleaners on either your Ibex LiteNXT ultrasound system or associated transducers.

Ibex LiteNXT:

<u>Caution – Connect the headset to ensure the most water-resistant seal for the connector.</u>

- Close and LOCK the door before cleaning.
- It is NOT recommended that water be directly sprayed into the Ibex LiteNXT hinge section!
- For disinfecting the system, Sporicidin ® is recommended
- Allow the system to air dry or wipe down with a clean, dry towel
- Ibex LiteNXT can be gently washed down with a hose and cloth

InSite NXT Headset:

- Use a damp cloth to wipe down any excess debris from the headset
- Allow the headset to air dry or wipe down with a clean, dry towel

Transducer Care and Maintenance:

- Submerse only the transducer end in water and clean with a dry towel.
- Do not use any coarse cleaning tools (wire brush, scrub brush, etc.) on the face of the transducer (light gray area)
- DO NOT use mineral oil on the Ibex LiteNXT transducer.
- To disinfect the Linear probe, use a Sporicidin® sterilant.

Failure to observe above proper maintenance and care instructions may void your limited warranty

Warranty

E.I. Medical Imaging builds quality products with a solid reputation. We offer the following warranties:

One Year Limited Warranty Extended Warranties Available

Limited Warranty

This Limited Warranty is provided only to you as the original retail purchaser of the shipped E.I. Medical Imaging IBEX® Diagnostic Ultrasound Scanner (the Product), and to no other person. E.I. Medical Imaging warrants to you that for your warranty period with respect to labor and for your specific warranty period with respect to parts, the Product will be free from defects in materials and/or workmanship.

The InSite® video headsets are covered under this limited warranty from date of purchase, provided the headsets are used in accordance with the safety instructions outlined in the User manuals and have not been abused or misused in any way as determined by the technical staff upon inspection of the headsets. The final determination of coverage under this limited warranty will be made at the E.I. Medical Imaging's manufacturing facility.

Your Exclusive Remedy

E.I. Medical Imaging's entire liability and your exclusive remedy under this Limited Warranty shall be, at E.I. Medical Imaging's option, either repair or replacement of the Product within the specified warranty period. IN NO EVENT DOES THIS WARRANTY COVER DEFECTS OR MALFUNCTIONS DUE DIRECTLY OR INDIRECTLY TO ACCIDENT, MISUSE, OR NEGLECT OF THE PRODUCT, TAMPERING WITH OR ANY INDICATION THAT THE SYSTEM HAS BEEN OPENED BY ANY NON-E.I. MEDICAL IMAGING APPROVED INDIVIDUAL OR SERVICE CENTER, OR AN ACT OF GOD.

Disclaimer of All Other Warranties

Except as specifically provided above, there are no express warranties, or claims or representations made by E.I. Medical Imaging regarding the Product. Any implied warranties, including implied warranties against claims that the product infringes on property rights of third parties, patent rights, implied warranties of fitness for a particular purpose or use and implied warranties of merchantability, shall terminate one (1) year from the date of purchase.

Limitation of Liability

the failure of the product to perform, even if E.I. Medical Imaging has been advised of the possibility of such claims or damages. In no event will E.I. Medical Imaging be liable, regardless of the basis of the claim or action, for any amount exceeding the purchase price actually paid for the Product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

Repair Warranty

Any repair work performed by E.I. Medical Imaging shall be warranted with respect to parts and labor to be free from defect in materials or workmanship for a period of (90) ninety days.

Obtaining Warranty Service

All Warranty repair work shall be performed by E.I. Medical Imaging's employees at the factory or by an Authorized Service Center. In the event that the Product requires service, please contact E.I. Medical Imaging, or other authorized service provider, to obtain a Service Issue (SI) number. This number must accompany your Product upon return in order to obtain service on your unit. YOU, THE PURCHASER, ARE RESPONSIBLE FOR ALL FREIGHT CHARGES ASSOCIATED WITH RETURNING YOUR EQUIPMENT FOR WARRANTY SERVICE.

This Limited Warranty gives you specific legal rights; you may also have other rights which vary from state to state.

To make a warranty claim, call 1.866.365.6596.

Appendix- Fetal Tables

Alpaca Biparietal

Source: Prediction of Gestational Age by Ultrasonic Fetrometry in Llamas (Lama glama) and Alpacas (Lama pacos): Francisca J. Gazitua, Paulina Corradini, German Ferrando, Luis A. Raggi, Victor H. Parraguez - Animal Reproduction Science 66 (2001) 81-92

mm	days
8	32
9	37
10	42
11	47
12	51
13	56
14	61
15	<mark>65</mark>
16	70
17	75
18 19	80
19	84
20	89
21	94
22	99
23	103
24	108
25	113
26	117
27	122
20 21 22 23 24 25 26 27 28 29	127
29	132
30	136
31	141
32	146
33 34 35	150
34	155
35	160
36	165

mm	days
37	169
38	174
39	179
40	184
41	188
42	193
43	198
44	202
45	207
46	212
47	217
48	221
49	226
50	231
51	236
52	240
53	245
54	250
55	254
56	259
57	264
58	269
59	273
60	278
61	283
62	287
63	292
64	297
65	302
66	306
67	311
68	316
69	321
70	325
71	330
72	335

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Alpaca Thoracic Height Source: Prediction of Gestational Age by Ultrasonic Fetrometry in Llamas (Lama glama) and Alpacas (Lama pacos): Francisca J. Gazitua, Paulina Corradini, German Ferrando, Luis A. Raggi, Victor H. Parraguez - Animal Reproduction Science 66 (2001) 81-92			
mm	days		
10	34		
11	39		
12	44		
13	49		
14	55		
15	60		
16	65		
17	71		
18	76		
19	81		
20	86		
21	92		
22	97		
23	102		
24	108		
25	113		
26	118		
27	124		
28	129		
29	134		
30	139		
31	145		
32	150		
33	155		
34	161		
35	166		
36	171		
37	176		
38	182		

days

mm

IbexNXT_Fastrack_Manual_25_v10 Copyright 2025 E.I. Medical Imaging

Bovine Crown Rump Length

Source: Sonographic Fetometry in the Bovine: W. Kahn - Theriogenology May 1989 VOL.31 NO.5 pages 1105-1121

mmdays

	aays
8	31
10	32
11	33
12	34
14	35
15	36
16	37
18	38
20	39
21	40
23	41
23 24 26	42
26	43
28 30	44
30	45
31	46
33	47
35 37	48
37	49
39	50
41	51
43	52
45	53
47	54
49	55
52	56
54	57
56	58
59	59
61	60
63	61

mm	days
66	62
68	63
71	64
73	65
76	66
79	67
81	68
84	69
87	70
90	71
92	72
95	73
98	74
101	75
104	76
107	77
110	78
113	79
117	80
120	81
123	82
126	83

Bovine Biparietal Diameter - External

Source: Fetometry & Fetal Heart Rates Between Day 35 & 108 in Bovine Pregnancies & 108 in Bovine Pregnancies Resulting from Transfer of Either MOET, IVP-co-culture or IVP-SOF Embryos: S.P. Breukelman, J.M.C. Reinders, et al. - Theriogenology:61 (2004) 867-882

mm	days
7	40
7 8 9	42
9	44
10	46
11	48
12	50
13	52
14	54
15	56
16	58
17	59
18	61
19	63
20	65
21 22 23	67
22	69
23	71
24	73
25 26	75
26	77
27 28	79
	80
29	82
30	84
31	86
32	88
33	90
34	92
35	94

mm	days
36	96
37	98
38	100
39	102
40	103
41	105
42	107
43	109
44	111
45	113
46	115
47	117
48	119
49	121
50	123
51	124
52	126
53	128
54	130
55	132
56	134
57	136
58	138
59	140
60	142
61	144
62	146
63	147
64	149
65	151
<mark>66</mark>	153
67	155
68	157
<mark>6</mark> 9	159
70 71	161
71	163
72	165

mm	days
73	167
74	168
75 76	170
76	172
77	174
78	176
79	178
80	180
81	182
82	184
83	186
84	188
85	189
86	191
87	193
88	195
89	197
90	199
91	201
92	203
93	205
94	207
95	209

Source: Ultrasc and Animal Rep 1998 Cattle Boo Ginther page 19		
mm	days	
4	60	
5	65	
4 5 6 7	70	
7	75	
8	80	
9	85	
10	90	
11	95	
12	100	
13	105	
14	110	
15	115	
16	120	
17	125	
18	130	
19	140	
19 20 21 22	150	
21	155	
22	160	
23	170	
23 24 25 26 27	180	
25	195	
26	210	
27	240	

sonic Imaging production: ook 3: O.J. 90-191

Bov	ine Trunk	mm days	mmdays	mm days
Diar	neter	35 78	72 122	109 159
	graphic Fetometry in ovine: W. Kahn -	36 79	73 123	110 160
Theri	ogenology May 1989	37 80	74 124	111 161
VOL.3	1 NO.5 pages 1105-1121	38 82	75 125	112 162
mm	days	39 83	76 126	113 163
3	31	40 84	77 127	
4	33	41 85	78 128	
5	34	42 87	79 129	
6	36	43 88	80 130	
7	37	44 89	81 131	
8	39	45 90	82 132	
9	41	46 92	83 133	
10	42	47 93	84 134	
11	44	48 94	85 135	
12	45	49 95	86 136	
13	47	50 96	86 137	
14	48	51 98	87 138	
15	50	52 99	88 139	
16	51	53 100	89 140	
17	53	54 101	90 141	
18	54	55 102	91 142	
19	56	56 104	92 143	
20	57	57 105	93 144	
21	59	58 106	94 145	
22	60	59 107	95 146	
23	61	60 108	96 147	
24	63	61 109	97 148	
25	64	62 110	98 149	
26	66	63 112	99 150	
27	67	64 113	100 151	
28	68	65 114	101 152	
29	70	66 115	102 153	
30	71	67 116	103 154	
31	72	68 117	104 155	
32	74	69 118	106 156	
33	75	70 119	107 157	
34	76	71 121	108 158	

Buffalo (Bubalus bubalis) Amnionic Vesicle Diameter

Source: Ultrasonographic Fetometry and Determination of Fetal Sex in Buffaloes (Bubalus bubalis): A. Ali & S. Fahmy - Animal Reproduction Science 106 (2008) pages 90-99

15	35 36 37
	37
10	
16	20
17	38
19	40
21	41
22	42
23	43
24	45
25	46
26	47
27	49
28	50
29	52
30	56
31	57

Buffalo (Bubalus bubalis) Biparietal Diameter

Source: Ultrasonographic Fetometry and Determination of Fetal Sex in Buffaloes (Bubalus bubalis): A. Ali & S. Fahmy - Animal Reproduction Science 106 (2008) pages 90-99

	days
12	56
13	60
14	63
15	67
<mark>16</mark>	70
18	70 74 77 81
18 19 21 22 24 25 27 29 31	77
21	81
22	84
24	88
25	91
27	95
29	98
31	102
33	105
35	109 112
37	112
40	116
33 35 37 40 42	119
	123
47	126
45 47 50	130
52	133
52 55	137
58	140

Buffalo (Bubalus bubalis) Crown Rump Length

Source: Ultrasonographic Fetometry and Determination of Fetal Sex in Buffaloes (Bubalus bubalis): A. Ali & S. Fahmy - Animal Reproduction Science 106 (2008) pages 90-99

mm	days
9	28
11	30
11 12 13	32
13	34
14	35
14 15 16 17 18 20	30 32 34 35 37 39 41 42 44 46
16	39
17	41
18	42
	44
21 22 24 25 27 28 29 31	46
22	48
24	49
25	51
27	53 55 56
28	55
29	56
31	58
33	60
33 34 36	62
	63
38 40	62 63 65 67
40	67
41	69

43 70

Canine Less than 40 days Crown Rump Length

Source: Performing Ultrasound to Evaluate Pregnancy: CVC Proceedings Baltimore, MD -April 1, 2009 [veterinarycalendar.dvm360. com/avhc/content/printCo ntentPopup.jsp?id=600754]

mm	days
11	30
13	31
16	32
20	33
23	34
27	35
30	36
33	37
37	38
40	39
43	40

Canine Less than 40 days **Gestational Sac** Diameter

Source: Performing Ultrasound to Evaluate Pregnancy: CVC Proceedings Baltimore, MD -

April 1, 2009 [veterinarycalendar.dvm360. com/avhc/content/printCo ntentPopup.jsp?id=600754]

mm	days	
10	26	
12	27	
14	28	
15	29	
17	30	
19	31	
20	32	
22	33	
24	34	
25	35	
27	36	
29	37	
30	38	
32	39	

Canine More than 40 days Head Diameter			
mm	days		
13	40		
14	41		
15	43		
16	44		

 Cat More than 40 days **Body Diameter**

Cat More than 40 days **Head Diameter**

mm
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38

mm	days
15	41
16	43
17	46
18	48
19	51
20	53
21	56
22	58
23	61
24	63
25	66

Fallow Deer Chest Depth

Source: Current Therapy in Large Animal Theriogenology 2: Robert S. Youngquist& Walter R. Threlfall -Saunders/Elsevier Publishers 2007 page 961

mm days 12 50

Fallow Deer Crown **Rump Length**

Source: Current Therapy in Large Animal Theriogenology 2: Robert S. Youngquist& Walter R. Threlfall -Saunders/Elsevier Publishers 2007 page 961



Fallow Deer Head Length

Source: Current Therapy in Large Animal Theriogenology 2: Robert S. Youngquist& Walter R. Threlfall -Saunders/Elsevier Publishers 2007 page 961

mm days 17 50



Equine Biparietal

Source: Maternal Age and Parity Influence . Ultrasonographic Measurements of Fetal Growth in Dutch Warmblood Mares: W.K. Hendriks, B Colenbrander, et al. - Animal Reproduction Science 115 (2009) 110-123

Ι.

mm	days
12	100
13	105
14	110
15	120
16	125
17	135
18	140
19	150
20	160
21	165
22	175
23	185
24	195
25	205
26	220
27	230
28	250
29	270
30	290
31	330

Fo	uine	Amn	ion
Eq	uine	Amr	IION

Source: Developed by E.I. Medical Imaging.

mm	days
14	14
15	14
16	15
17	15
18	15
19	15
20	16
21	16
22	17
23	17
24	18
25	18
26	19
27	20
28	21
29	22
30	23
31	24
32	25
33	27
34	28
36	30
37	31
38	32
39	32
40	33
41	33
42	34
43	34
44	35
45	35
46	36
47	36
48	36

mm	days	Goa	t	Goat	-Dairy	mm	days
49	37	Ang	lo-Nubian Crown	Bipa	rietal	43	105
50	37	Run	np Length			44	106
51	37		ce: Determination of Pregnancy & Embryonic	mm	days	45	108
52	37	Grow	rth in Goats by		41	46	109
53	38	Scani	ISRECTAL Ultrasound ning: M.F. Martinez, P.	9	43		1
54	38		h, & R.A. Bosch - ogenology 49:1555-1565		45		
55	39	1998	1		46		
56	39		ndays		48		
57	39	5	21	13	50		
58	40	6	22	14	52		
59	40	8	23	15	54		
60	40	9	24	16	55		
61	41	10	25	17	57		
62	41	12	26	18	59		
63	41	13	27	19	61		
64	42	14	28	20	63		
65	42	15	29	21	65		
66	42	17	30	22	66		
67	43	18	31	23	68		
68	43	19	32	24	70		
69	43	21	33	25	72		
70	44	22	34	26	74		
71	44	23	35	27	75		
72	44	25	36	28	77		
73	45	26	37	29	79		
74	45	27	38		81		
75	45	28	39	31	83		
76		30	40		85		
	1				86		

34 88

40 99

Goat -Pygmy Biparietal

Source: Ultrasonic Biparietal Diameter of Second Trimester Pygmy Goat Fetuses: J.K. Reichle & G.K. Haibel - Theriogenology April 1991 VOL 35 NO. 4 pages 689-694

mmdays

6	36
7	38
8	40
9	42
10	44
11	46
12	48
13	50
14	52
15	54
16 17	56
17	59
18	61
19	63
20	65
21	67
22	69
23	71
24	73
25	75
26	77
27	79
28	81
29	84
30	86
31	88
32	90
33	92
34	94
35	96

mm	days
36	98
37	100

Goat -Toggenburg Biparietal

Source: Current Therapy in Large Animal Theriogenology 2: Robert S. Youngquist& Walter R. Threlfall -Saunders/Elsevier Publishers 2007 pages 550-551

mm days

	uays
5	36
6	38
6 7 8 9 10	39
8	41
9	43
10	44
11	46
12 13 14 15	48
13	49
14	51
15	53
16 17 18	54
17	56
18	57
19	59
20	61
21 22 23 24 25 26	62
22	64
23	66
24	67
25	69
26	71
27	72
28	74
29	75
30 31	77
31	79
32	80
33	82
34	84

mm	days
35	85
36	87
37	89
38	90
39	92
40	94
41	95
42	97
43	98
44	100

Llama Biparietal BPD

Source: Prediction of Gestational Age by Ultrasonic Fetrometry in Llamas (Lama glama) and Alpacas (Lama pacos): Francisca J. Gazitua, Paulina Corradini, German Ferrando, Luis A. Raggi, Victor H. Parraguez - Animal Reproduction Science 66 (2001) 81-92

mm	days
7	30
8	34
9	39
10	43
11	47
12	52
13	56
14	60
15	64
16	69
17	73
18	77
19	82
20	86
21	90
22	95
23	99
24	103
25	107
26	112
27	116
28	120
21 22 23 24 25 26 27 28 29	125
30	129
31	133
32	138
33	142
34	146
35	150

mm	days
36	155
37	159
38	163
39	168
40	172
	176
41 42	181
	185
43 44	189
	193
45 46	198
47	202
48	206
49	211
50	215
51	219
52	224
53	228
54	232
55	237
56	241
57	245
58	249
59	254
60	258
61	262
62	267
63	271
64	275
65	280
66	284
67	288
68	292
69	297
70	301
70 71	305
72	310

mm	days
73	314
74	318
75	323
76	327
77	331
78	335

Llama Thoracic Height

Source:Prediction of Gestational Age by Ultrasonic Fetrometry in Llamas (Lama glama) and Alpacas (Lama pacos): Francisca J. Gazitua, Paulina Corradini, German Ferrando, Luis A. Raggi, Victor H. Parraguez - Animal Reproduction Science 66 (2001) 81-92

	1
mm	days
7	30
8	34
9	39
10	44
11	48
12	53
13	58
14	62
15	67
16	72
17	76
18	81
19	86
20	91
21	95
22	100
23	105
24	109
24 25	114
26 27	119
27	123
28	128
29	133
30	137
31	142
32	147
33	152
34	156
35	161

	مريما
mm	days
36	166
37	170
38	175
39	180
40	184
41	189
42 43	194
43	199
44	203
45	208
46	213
47	217
48	222
49	227
50	231
51	236
52	241
53	245
54	250

Sheep Booroola		
Merino Biparietal		
Source: Real-time Ultrasound Imaging for Predicting Ovine Fetal Age: L Sergeev, D.O. Kleemann, et al Theriogenology September 1990 VOL. 34 NO.3		
mm	day	
16	50	
17	52	
18	54	
19	56	
20	58	
21	60	
22	62	
23	64	
23 24 25 26 27 28	66	
25	68	
26	70	
27	72	
28	73	
29	75	
30	77	
31 32	79	
32	81	
33	83	
34	85	
35	87	
36	89	
37	91	
38	93	
39	95	
40	97	
41	99	
42 43	101	
43	103	
44 45	105	
45	107	

mm day

46

47

48

49

50

51

109

111

113

115 117

119

Sheep Booroola Merino Thoracic Depth

Source: Real-time Ultrasound Imaging for Predicting Ovine Fetal Age: L Sergeev, D.O. Kleemann, et al. -Theriogenology September 1990 VOL. 34 NO.3

mm	dav
20	50
21	51
22	52
23	53
24	54
25	56
26	57
27	58
28	59
29	60
30	61
31	63
32	64
33	65
34	66
35	67
36	69
37	70
38	71
39	72
40	73
41	75
42	76
43	77
44	78
45	79
46	81
47	82
48	83
49	84

mm	day
50	85
51	87
52	87 88
53	89
54	90
55	91
56	93
57	94
58	95
59	96
60	97 99
61	99
62	100
63	101
64	102
65	103
66	105
67	106
68	107
<mark>6</mark> 9	108
70	109
71	111
72	112
73	113
74	114
75	115
76	117
77	118
78	119

Shee	р		
Finn	Bi	pari	etal
c .		1.72	

Source Real Time Ultrasonic Biparietal Diameter of Second Trimester Suffolk & Finn Sheep Fetuses: G.K. Haibel & N.R. Perkins -Theriogenology November 1989 VOL.32 NO. 5 pages 863-

mm days

mmdays3892399440954197

Sheep - Hair Crown Rump Length

mm	days
12	29
14	30
20	31
23	32
24	33
30	34
34	35
38	36
41	37
44	38
49	39
52	40
54	41
60	42
63	43
64	44
71	45

Sheep - Suffolk
Biparietal

mm days

Source: Real Time Ultrasonic Biparietal Diameter of Second Trimester Suffolk & Finn Sheep Fetuses: G.K. Haibel & N.R. Perkins -Theriogenology November 1989 VOL.32 NO. 5 pages 863-

mm	days
40	95
41	97
42	99
43	100

Swine Crown Rump Length

Source: Current Therapy in Large Animal Theriogenology 2: Robert S. Youngquist& Walter R. Threlfall -Saunders/Elsevier Publishers 2007 page 755

2007 page 755		
mm	days	
20	25	
28	30	
35	35	
50	40	
65	45	
88	50	
110	55	
131	60	
152	65	
159	70	
166	75	
186	80	
206	85	
223	90	
240	95	

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