

**PRODUTO: Ecógrafo com doppler a cores  
LogicScan 64**

**Características Principais:**

- Software para uso veterinário
- Larga gama de sondas multifrequências
- Portátil e compacto
- Bateria Lítio
- Peso: 1,5 kg
- Económico



**Características Técnicas**

**Imaging Modes**

- B
- B+B
- 4B
- B+M
- M
- Color Doppler (CFM)
- Power Doppler (PDI)
- Directional Power Doppler (DPDI)
- Pulsed Wave Doppler (PWD)
- B+PWD (Duplex)

**Ultrasound imaging**

- ultrasound image size: automatically adjustable to screen resolution
- gray scale: 256
- color scale: 256
- full motion and full size real-time ultrasound imaging, up to 120 fps (depends on selected scan depth, scan angle, focus mode, High Line Density setting, computer speed)
- cineloop recording/play: several thousands frames (depends on computer memory size and scan mode)
- zoom mode: from 60% to 600% in all modes (Scan, Freeze, B, B+B, 4B, Doppler modes, M-zoom, cineloop and etc)
- viewing area variable for frame rate maximizing: 6 steps
- "FREEZE" mode

**Scanning Method**

- electronic linear
- electronic convex
- electronic microconvex
- scanning depth: 2-30 cm

**Probes**

- 64 elements probes
  - from 2,0 MHz to 10,0 MHz
  - multifrequency
- automatic probe recognition

**Color Doppler**

- PRF variable: 0.5-9 kHz
- wall filter settings: 3 steps (5%, 10%, 15% PRF)
- gain control: 50 dB
- angle steering for linear probes:  $\pm 10^\circ$
- real-time spatial filter: 4 values
- CFM palette: 10 maps
- PDI palette: 11 maps
- B/Color priority control
- color threshold control
- CFM baseline control

**Pulsed Waved Doppler**

- PRF variable: 1-10 kHz
- wall filter settings: 16 steps (2.5-20% PRF)
- gain control: 50 dB
- angle steering for linear probes:  $\pm 10^\circ$
- single click auto adjustment: baseline, invert, PRF
- stereo sound: volume control
- PWD palette: 12 maps

- Doppler frequency selection: 2 frequencies /

- Doppler frequency selection: 2 frequencies / each probe
- color frame averaging: 8 values
- Transparent Color Mapping (TCM): 10 values

each probe

#### Focusing

- 16-channel hybrid beamformer
- digital transmit focusing
- multi focus mode:
  - transmit/receive focusing, max 4 points
  - programmable focus area presets
- dynamic focus mode:
  - transmit variable focus, 8 points
  - dynamic receive focus, 8 zones

#### Processing

- High Line Density scan mode for better resolution
  - TGC Control, 5 sliders 40 dB
  - dynamic range: 120 dB, 8 values
  - overall gain control
  - M - mode sweep speed control
  - acoustic power control
  - variable frame averaging
  - brightness, contrast
  - advanced gamma control: 8 fixed curves, 8 user defined (custom)
  - scan direction, rotation, up-down controls
  - negative / positive control
  - bi-linear interpolation
  - echo enhancement control
  - noise rejection function
  - speckle reduction and structure improvement
- PureView:** 8 algorithms

#### Functions

- mouse / trackball / keyboard operation
- image and video save / load
  - AVI
  - JPG
  - BMP
  - PNG
  - TIF
  - DCM (DICOM)
  - DCM (DICOM-JPEG)
- unlimited programmable presets for clinically specific imaging
- anatomical icons with probe position indicator
- the set of predefined skin schemes for software interface
- direct e-mail sending with image or video attachment via Internet
- DICOM file push to server
- printing on system printer
- standard TV output using computer's display adapter (option)

#### Power

- 100~240V AC, 50~60 Hz
- battery powered
  - battery type: Li-Ion technology
  - battery life: 90 min (actual battery life will vary depending on scan mode)
  - battery charging time: 2 hours

#### General Measurements and Calculations

- B and Color Doppler mode general measurements and calculations
  - Distance
  - Length (method: 1 trace)
  - Area, Circumference (methods: 1 ellipse, 1 trace, 1 distance)
  - Volume (methods: 1 distance, 2 distances, 3 distances, 1 ellipse)

#### Human Measurements and Calculations Packages

Human/Veterinary OB Gyn packages: software supports unlimited number of user-defined GA tables, selected GA values are used for calculation of Average GA (Average Ultrasound Age - AUA).

Human/Veterinary Cardiology measurements package automatically displays hint images that show where and how appropriate measurements must be performed.

- Angle (methods: 2 distances, 3 distances)
- Stenosis % (methods: 2 distances, 2 ellipse or trace areas)
- A/B Ratio (methods: 2 distances, 2 ellipse or trace areas, 2 ellipse or trace circumferences)

- M mode general measurements and calculations

- Distance, Time, Velocity
- Heart Rate (methods: 1 beat, 2 beats)
- Stenosis % (method: 2 distances)
- A/B Ratio (methods: 2 distances, 2 times, 2 velocities)

▪

#### Veterinary Calculations Packages

- Canine OB

- Measurements: GS, CRL, HD, BD
- Gestational Age (GA) calculations: GA(BD), GA(CRL), GA(GS), GA(HD)

- Feline OB

- Measurements: HD, BD
- Gestational Age (GA) calculations: GA(BD), GA(HD)

- Ovine OB

- Measurements: CRL
- Gestational Age (GA) calculations: GA(CRL)

- Bovine OB

- Measurements: BD, CRL, HD, UD
- Gestational Age (GA) calculations: GA(BD), GA(CRL), GA(HD), GA(UD)

#### Veterinary Calculations Packages

- Equine OB

- Measurements: AOD, BPD, CRL, EOD, GS
- Gestational Age (GA) calculations: GA(AOD), GA(BPD), GA(CRL), GA(EOD), GA(GS)

- Llama OB

- Measurements: BPD
- Gestational Age (GA) calculations: GA(BPD)

- Goat OB

- Measurements: BPD
- Gestational Age (GA) calculations: GA(BPD) for different species

- Animal Cardiology

- Left Ventricle, Aortic Valve, Left Atrial measurements: IVSd, LVIDd, LVPWd, AOD, IVSs, LVIDs, LVPWs, LADs
- Calculations: HR, LV volume (Cubed, Teichholz, Gibson), SV, EF, CO, STIVS, FS, STPW, LA/AO

#### Recommended Computer Requirements







- IBM PC compatible Desktop/Notebook/Tablet PC
- screen resolution 1024x768 or more
- CPU Core Duo / Core 2 Duo 1.6 GHz or faster
- 1 Gb of RAM or more
- USB 2.0 interface
- Windows® XP SP2/SP3, Windows® Vista SP1 32-bit

#### Ultrasound software

- Echo Wave II software
- ClearView plug-in (optional)
- 3DView plug-in (optional)
- PanoView plug-in (optional)
- SDK documentation / sample code (available by agreement)

SONDAS

The list of LogicScan 64 family scanners and kits compatible probes [home page](#)

Probe			Parameters				Applications									
Photo	Type / Order Code	Biopsy Adapter	Probe Central Frequency, MHz	System Frequencies, MHz	Radius of Curvature, mm	Field of View / Degree, mm	Abdominal	Cardiac	Obstetrics	Pediatrics	Small Parts	Transrectal	Transvaginal	Vascular	Veterinary	Food Industry
 Convex	PV6.5/10/64D		6.5	5.0 6.0 7.0 8.0	10	147					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
 Convex	EC6.5/10/64D	<input checked="" type="checkbox"/>	6.5	5.0 6.0 7.0 8.0	10	147						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
 Convex	C3.5/20/64D		3.5	2.0 3.0 4.0	20	104	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
 Convex	C3.5/60/64D	<input checked="" type="checkbox"/>	3.5	2.0 3.0 4.0 5.0	60	63	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
 Linear	HL9.0/40/64D	<input checked="" type="checkbox"/>	9.0	5.0 6.0 7.0 8.0 9.0 10.0	-	38				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
 Linear	LV7.5/65/64D		6.5	3.0 4.0 5.0 6.0 7.0	-	63									<input checked="" type="checkbox"/>	
Photo	Type / Order Code	Biopsy Adapter	Probe Central Frequency, MHz	Avail. Freq., MHz	Radius of Curvature, mm	Field of View, degree / mm	Abdominal	Cardiac	Obstetrics	Pediatrics	Small Parts	Transrectal	Transvaginal	Vascular	Veterinary	Food Industry

Em virtude de constantes aperfeiçoamentos na linha de produtos comercializados, a Doctorgimo reserva-se ao direito de proceder, sem aviso ,prévio, às modificações técnicas que julgar conveniente.