Featuring the next generation of portable ultrasound system, the Orcheo Lite combines premium performance and versatility in a highly portable and easy to use platform. The Orcheo Lite CV is designed for the following clinical applications: Cardiology, Vascular, Obstetrics, Gynecology, Small Parts and Superficial, Abdominal, Urological, Musculoskeletal, Breast, and Pediatric.



Dir	nensions	Weight
	Depth: 37cm	5.3KG APPROX WITH BATTERY
	Width: 42cm	> 5.5KG AFFROX WITH DATTERT
ĺ.		
	Height: 8.5cm	
Со	nsole	Screen
	Laptop Style	> 15 INCH HIGH RESOLUTION LCD HD
	Operating System: Windows XP	COLOR MONITOR
\succ	Boot Up Time: 20 sec	Resolution: 1,024 X 768
\triangleright	2 probe ports: Automatic probe selection	
\triangleright	Storage capacity: 1To	Integrated Stereo Speaker
\triangleright	Main memory: 8G RAM	Magnetic closure
\triangleright	Front Handle	
\succ	2 USB 3.0 Ports	
\succ	COM Port	
\succ	VGA Output	
Control Panel		Electrical Power
\succ	Alphanumeric Keyboard	Voltage: 110V or 220V
\triangleright	Hard Key Operations	Frequency: 50/60Hz
\triangleright	11 multifunction soft buttons dedicated	
	to Scanning Modes	
\triangleright	4 multifunction digital encoders	
\succ	Trackball: 25mm	

Applications:	Main [*] Probes
Cardiology	Phased Array
 Vascular 	Applications: Cardiology, Pediatric
 Abdominal 	Band Width: 1,5MHz ~ 05MHz
 Obstetrics 	
> Gynecology	Linear Array
> Anesthesia	Applications: Vascular, Small Parts, Breast,
> Urology	Pediatric, Anesthesia
Small Parts and Superficial	Band Width: 05MHz ~ 12,5MHz
Pediatric	Steered Angle: +/- 10°
	Trapezoidal Imaging
	Convex Array
	Applications: Abdominal, OB/GYN, Urology,
Scan Frequency range:	Vascular
	Band Width: 02MHz ~ 05MHz
From 1.5 to 20 Mhz	Scanning angle: 60°
	Endocavitary Array
	Applications: OB/GYN, Urology
Probe elements range:	Band Width: 05MHz ~ 08MHz
<u></u>	Scanning angle: 148°
From 64 to 192 elements	
	Linear Array HD
	<u></u>
	Applications: Vascular, Small Parts, Breast,
	Pediatric, Anesthesia
	Band Width: 08MHz ~ 18MHz
	Steered Angle: +/- 10°
	Trapezoidal Imaging
	Motorized Convex 3D/4D (Mechanical)
	Applications: OB, Urology, Abdominal, Renal
	Band Width: 03MHz ~ 06MHz
Imaging Modes	Combination Modes
B-Mode	➤ B/C PW Mode
 Color Doppler (CFM) Tissue Doppler (TDI) 	B/M Mode
Tissue Doppler (TDI)	Dual M-Mode
> Power Doppler	Duplex Mode
Directional Power Doppler	Triplex Mode
HPRF (1 to 12khz)	
Pulse Wave Doppler (PW)	
> ECG	
Continuous Wave Doppler (CW)	
Tissue Harmonic Imaging	
Panoramic (optional)	
> 4D Real Time (optional)	
Storage Capacity	Media & Peripheral devices:
Integrated SDD: 1To (Images, Cine Loop etc)	Digital B/W printer (Thermal printing): Optional
CINE Memory: Sequence of up to 40 seconds each	Digital color printer (Dye sublimation thermal
(25 images per second).	transfer): Optional

Archive format: JPEG, AVI	CD/DVD recorder: optional
	➢ Software Wifi
Software Options:	Hardware Options:
➢ 4D	Travelling Case
> PANORAMIC	Dedicated Cart
Folicular Package	3 Probes connector for Dedicated Cart
Connectivity:	Exclusivity:
Ethernet Network Connection: Gigabit LAN, Wifi.	Probe Holder integrated and removable

	SCANNING PARAMETER	rs c	ON REAL TIME EXAM	
B Mode (2D),Harmonic and M Mode :		CF	CFM,Power and Directionnal Modes:	
	Acoustic Power Output	\triangleright	Acoustic Power Output	
\triangleright	Probe Frequency	\triangleright	CFM Window Size	
\triangleright	2D Gain	\triangleright	CFM Window Location	
\triangleright	Time Gain Compensation (8 levels)	\triangleright	Color Gain	
\triangleright	Dynamic Range	\triangleright	Pulse Repetition Frequency	
\triangleright	Edge Enhancement	\triangleright	Steering : With linear probe only	
\triangleright	Focus Number	\triangleright	Trapezoid Mode. With linear probe only	
\triangleright	Focus Position	\triangleright	Color Inversion	
\triangleright	Depth. Minimum Depth : 2cm (probe	\triangleright	Color Frequency	
	dependent). Maximum Depth : 30cm	\triangleright	Focus Position	
	(probe dependent)	\triangleright	Wall Filter	
\triangleright	Real Time Adapting Smoothing [®] : for	\triangleright	Duplex	
	image smoothing, speckle reduction and	\triangleright	Triplex	
	contour enhancement	\triangleright	Continuous Zoom and Scroll	
\triangleright	Time Smooth	\triangleright	Color Map	
\triangleright	Continuous Zoom and Scroll		-	
\triangleright	Trapezoid Mode. With linear probe only			
\triangleright	Harmonic Mode. With convex probe only			
\triangleright	Compound Imaging: iSteer [®]			
	Line Density			
	lse Wave Mode		/4D Acquisition	
	Acoustic Power Output	\triangleright	3D Rendering	
	PW Gate position	\triangleright	Real Time 4D Mode	
	PW Gate Length	\triangleright	4D Depth Adjustment : Scan distance	
	PW Frequency	\triangleright	360° display rotation	
	PW Baseline Adjustment	\triangleright	Continuous Zoom	
	PW steering (possibility to combine color			
	and PW steering in triplex mode): With			
	linear probe only			
	PW Inversion			
\triangleright	PW Gain Adjustment			
	Wall Filter			
\triangleright	Pulse Repetition Frequency			
\triangleright	Duplex			
\triangleright	Triplex			
\triangleright	Audio Adjustment			
~	Angle Correction			
	Automatic PW Doppler Optimization:			
	Automatic PW Doppier Optimization.			
	Automatic r w Doppler Optimization.			

SCANNING PARAMETERS ON POST PROCESS			
B Mode (2D) and M Mode :	CFM, Power and Directionnal Modes:		
> 2D GAIN	> COLOR GAIN		
Time Gain Compensation	Color inversion		
> DYNAMIC RANGE	Continuous Zoom and Scroll		
Edge Enhancement			
Real Time Adapting Smoothing [®] for			
image smoothing, speckle reduction and			
contour enhancement			
Time Smooth			
Continuous Zoom and Scroll			
Pulse Wave Mode	<u>3D/4D Acquisition</u>		
PW BASELINE	3D Rendering		
PW Inversion	Real Time 4D Mode		
PW GAIN ADJUSTMENT	Treshold (Opacification)		
Audio Adjustment	Continuous Zoom		
> Wall Filter	360° display rotation		
Automatic PW Optimization: Autoset [®]			
Contineus Move Mode			
Continous Wave Mode CW BASELINE			
 CW Inversion CW GAIN ADJUSTMENT 			
 Audio Adjustment 			
Audio Aujustinent			
	G AND PRESENTATION		
Full digital beamformer	Cine Memory/Image Memory:		
Displayed Image Depth : 2 – 30cm. Probe	 Cine Review: Loop or frame by frame 		
dependent	 Cine Memory: Sequences of up to 40 		
Receiving focus: Dynamic continuous	seconds each		
focusing			
Dynamic range: 110dB			
Gray scale 256 shades of gray			
Multi frequency/Wideband probes			
MI-TI Display			
Bodymark: up to 84 types			
Digital Filters			
RDF real-time dynamic filtering			
DBF Digital Point Formation			
Dynamic Mapping frequency DFS			
DRF Dynamic Approach			
Opening RDA Real time dynamic			

Certifications:	Safety Standards:		
 The medical device described above is CE marked according to EC directive 93/42, Annex 2, Article 3. EN-ISO 9001:2000: Sonoscanner, manufacturer of the medical device described above complies with the requirements for the implementation of 	 The products described above complies with the following safety standards: EN-ISO 60601-1: General requirements for basic safety and essential performance EN-ISO 60601-1-1: Electrical Medical Equipment 		
 a quality management system EN-ISO 13485:2003: Sonoscanner manufacturer of the medical device described above complies with the requirements for the implementation of a quality management system for medical devices 	 EN-ISO 60601-1-2: Electromagnetic Compatibility EN-ISO 60601-1-4: Programmable Medical Systems EN-ISO 60601-2-37: Particular requirements for the basic safety and essential performance of medical ultrasound system and monitoring equipment 		