

U-Lite

EXTENDED

TECHNICAL DATA SHEET

Sonoscanner 6 rue André Voguet, 94200 Ivry-Sur-Seine, France www.sonoscanner.com.contact@sonoscanner.com U-Lite is the first **Personal Ultrasound** of the market.

In a few years, every health-practitioner will be equipped of his own personal ultrasound, allowing him to check traumas, disease, discomfort, etc. in no time.

To succeed in this challenge of personal ultrasound system, U-Lite had to be designed to be as simple as possible to use, with no compromise on image quality



- M = Mandatory
- D = Desirable
- O = Optional

Yes No (provide details) (Please tick as appropriate)

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		U-Lite Clause Specification				
1.	Gener	General Requirements				
	One unit of light portable diagnostic ultrasound imaging scanner providing black and white anatomic image, color flow Doppler images pulsed wave doppler and Tissue Motion images in real time.					
1.1	Dimens	Dimensions and Weight				
	1.1.1 System dimension : 190mm x 135mm		(M)			
-	1.1.2	Thickness : 20mm	(M)			
	1.1.3	System weight with battery and probe : less than 820g	(M)			
1.2	Display					
	1.2.1	Flat pad full touch screen display	(M)			
	1.2.2	Screen : 7 inch (Diagonal)	(M)			
	1.2.3	Resolution 1280 x 800 pixels or higher	(M)			
1.3	Battery	<u> </u>				
	1.3.1	Build-in Rechargeable battery	(M)			
	1.3.2	Support continuous operation for 1 hour or longer	(M)			
1.4	Wirele	ss transceiver	(M)			
1.5	System adapte	should be able to scan either on battery or through power r	(M)			
2.	I <u>magir</u>	Imaging and Operating Capacities				
2.1	Imagin	g				
	2.1.1	B-mode Imaging	(M)			
	2.1.2	M-mode Imaging	(M)			
	2.1.3	Color Flow Doppler Imaging	(M)			
	2.1.4	Pulse Wave Doppler Imaging	(M)			
	2.1.5	Power Doppler Imaging	(M)			
	2.1.6	Tissue Harmonic Imaging	(M)			
	2.1.7	Composite Imaging	(M)			
	2.1.8	Speckle Reduction Excusive Imaging	(M)			
	2.1.9	Needle Enhancement Imaging	(M)			
2.2	Operating Capacities					
	2.2.1	User friendly user interface	(M)			
	2.2.2	Continuous loop review	(M)			
	2.2.3	Integrated Image Archive	(M)			
	2.2.4	Digital Image Storage and Retrieval	(M)			
	2.2.5	Auto focus adjustment	(M)			
	2.2.6	Auto optimization of image	(M)			
	2.2.7	Auto preset for different exams	(M)			
	2.2.8	System Boot up in less than 15 sec	(M)			
	2.2.9 Universal Digital Beamformer		(M)			
2.3	Video or data Export					
	2.3.1	HDMI port for external display with different screen display (not simple clone image)	(M)			
	2.3.2	USB port for data export	(M)			

	2.3.3	Image type shall be in JPG or BMP	(M)		
	2.3.4	Image export shall be transferred to DICOM	(M)		
	2.3.5	Wireless export under wifi	(M)		
2.4	General caliper on device		(101)		
	2.4.1 Distance		(M)		
	2.4.2	Area	(M)		
	2.4.3	Volume	(M)		
	2.4.4	Auto volume	(M)		
2.5	_	OB measurement on device			
2.5	2.5.1 FL		(M)		
	2.5.2	BPD	(M)		
	2.5.3	HC	(M)		
	2.5.4	AC	(M)		
	2.5.5	GA	(M)		
	2.5.6	EFW	(M)		
	2.5.7	Fetal Heart Rate	(M)		
	2.5.7		(171)		
2.6	Bladde	r measurement on device			
	2.6.1	Auto-volume 2D , 3D	(M)		
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3.	_	<u>User Interface</u>			
3.1	A navigation wheel or equivalent facility shall provide an intuitive		(M)		
3.2	user interface with minimal manual controls. Dedicated specialty presets besides general ABD shall be provided				
5.2		following exams			
	3.2.1	Cardiac	(M)		
	3.2.2	Obstetric	(M)		
	3.2.3	Bladder	(M)		
	3.2.4	Vascular	(M)		
	3.2.5	Biopsy	(M)		
3.3	Up to 4	Up to 4 number of caliper / measurement results shown on			
	same s		(M)		
4.	Data E	xport			
4.1	Imagin USB ca	aging data shall be stored to USB memory stick or equivalent via			
4.2	Local st	torage capacity shall not be less than 16GB	(M)		
4.3	Date sh	Date shall be stored and export in both JPG and DICOM			
4.4	Wirele	ss image uploading shall be available to cloud under wifi	(M) (M)		
5.	Transo	Transducers			
5.1		stem shall be equipped with one Broadband	(M)		
	Convex Array Probe with the following features:-				
	5.1.1	Applications : Emergency, Abdomen, Gyn, OB, Urinary	(M)		
	E 1 0	bladder, Kidney, pulmonary	(0.4)		
	5.1.2	Broadband Probe with automatic frequency adjustment for optimal imaging with depth change	(M)		
	5.1.3	Transducer Brand with : 2-5 MHz or wider	(M)		
	5.1.4	Probe Geometry : Radius 60mm	(M)		
	5.1.5	Number of Elements : 192 or higher	(M)		
	5.1.6	Imaging depth : up to 30 cm or more	(M)		
	5.1.7	PW to show pulse wave and do auto calculation	(M)		
		of PI, RI, HR			

5.2	The system shall be equipped with one Broadband Linear Array Probe with the following features:-				
	5.2.1	Applications : Emergency, Thyroid, MSK, Small Parts, Anesthesia, Thoracic / Pleural fluid, Vascular,	(M)		
	5.2.2	Broadband Probe with automatic frequency adjustment for optimal imaging with depth change	(M)		
	5.2.3	Transducer Brand with : 10-18 MHz or wider	(M)		
	5.2.4	Probe Geometry : 40mm	(M)		
	5.2.5	Number of Elements : 192 or higher	(M)		
	5.2.6	Imaging depth : up to 5 cm or more	(M)		
	5.2.7	PW to show pulse wave and do auto calculation of PI, RI, HR	(M)		
5.3	The system shall be equipped with one Broadband Endo-cavity Array Probe with the following features:-				
	5.3.1	Applications : Gynecology , OB, Urology, Prostate	(M)		
	5.3.2	Broadband Probe with automatic frequency adjustment for optimal imaging with depth change	(M)		
	5.3.3	Transducer Brand with : 4-9 MHz or wider	(M)		
	5.3.4	Probe Geometry : Radius 10mm	(M)		
	5.3.5	Number of Elements : 128 or higher	(M)		
	5.3.6	Imaging depth : up to 18 cm or more	(M)		
	5.3.7	PW to show pulse wave and do auto calculation of PI, RI, HR	(M)		
5.4	The system shall be equipped with one Broadband <u>Phased Array Sector Probe</u> with the following features:-				
	5.4.1	Applications : Cardiac, Cranial, Abdomen, OB, Paediatric, Thoracic / Pleural fluid	(M)		
	5.4.2	Broadband Probe with automatic frequency adjustment for optimal imaging with depth change	(M)		
	5.4.3	Transducer Brand with : 1.7-4 MHz or wider	(M)		
	5.4.4	Number of Elements : 64 or higher	(M)		
	5.4.5	Imaging depth : up to 30 cm or more	(M)		
	5.4.6	The Color flow sector shall represent blood flow within a field of view of up to 30 degrees or wider.	(M)		
	5.4.7	PW to show pulse wave and do auto calculation of PI, RI, HR	(M)		
5.5	The system shall be equipped with one Broadband				
		convex Array Sector Probe with the following features:-			
	5.5.1	Applications : Pediatric, Emergency, Obstetrics	(M)		
	5.5.2	Broadband Probe with automatic frequency adjustment for optimal imaging with depth change	(M)		
	5.5.3	Transducer Brand with : 4-9 MHz or wider	(M)		
	5.5.4	Number of Elements : 128 or higher	(M)		
	5.5.5	Imaging depth : up to 15 cm or more	(M)		
	5.5.6	PW to show pulse wave and do auto calculation of PI, RI, HR	(M)		
5.2	The system shall be equipped with one Broadband Linear Array Probe with the following features:-				
	5.2.1	Applications : Emergency, Thyroid, MSK, Small Parts, Anesthesia, Thoracic / Pleural fluid, Vascular, Breast	(M)		
	5.2.2	Broadband Probe with automatic frequency adjustment	(M)		

		for optimal imaging with depth change			
	5.2.3	Transducer Brand with : 5-15 MHz or wider	(M)		
	5.2.4	Probe Geometry : 50mm	(M)		
	5.2.5	Number of Elements : 256 or higher	(M)		
	5.2.6	Imaging depth : up to 8 cm or more	(M)		
	5.2.7	PW to show pulse wave and do auto calculation	(M)		
		of PI, RI, HR	· /		
6.	Acces	sories			
6.1	Each set of equipment shall be equipped with the below		(M)		
	accessories:-				
6.2	Charging Station with:-				
	6.2.1	Universal power supply with 220V \pm 6%, 50Hz \pm 2% and	(M)		
		power plug suitable for use in the Hospital			
	6.2.2	Micro-USB connection to PC (USB 1.1 or better) and the	(O)		
		cable shall be provided if essential for data transfer. Scanners			
		using other effective means such as USB storage device			
		will also be accepted			
	6.2.3	Electrical Power Requirements			
		6.2.3.1 Input Voltage : 200VAC ± 6%	(M)		
		6.2.3.2 Output Voltage : 5 VDC	(M)		
		6.2.3.3 Frequency : 50Hz ± 2%	(M)		
6.3	Software updates for the scanning equipment can be done		(M)		
	wireless under wifi or through USB		(,		
7	Safety Requirements				
7.1	Equipment offered shall comply with the safety requirements of		(M)		
	IEC60601 or equivalent.				
7.2	Equipment offered shall comply with the electromagnetic		(M)		
		tibility (EMC) requirements of IEC60601-1-2 or equivalent.			
7.3		uipment shall remain operational and within specification	(M)		
		hout the voltage range of 220V \pm 6%, 50Hz \pm 2%, 1-phase			
7.4		ectrical supply ntial for operation, and AC adaptor shall be provided. The	(N4)		
7.4		ptor shall be class II device, according to clause 14 of	(M)		
		01-1:1988 or equivalent. Scanner operates without AC			
	adaptor will also be accepted.				
7.5	Single phase mains operated equipment shall be fitted with a		(M)		
		plug suitable for the site condition. The plug shall comply			
	with relevant standards e.g. BS1363 for 13A plug.				
7.6	Equipment offered shall comply with IEC60601-2-37, particular		(M)		
		ements for the safety of ultrasonic diagnostic and			
	monitoring equipment, or equivalent.				

Options

Dedicated Protech Support:

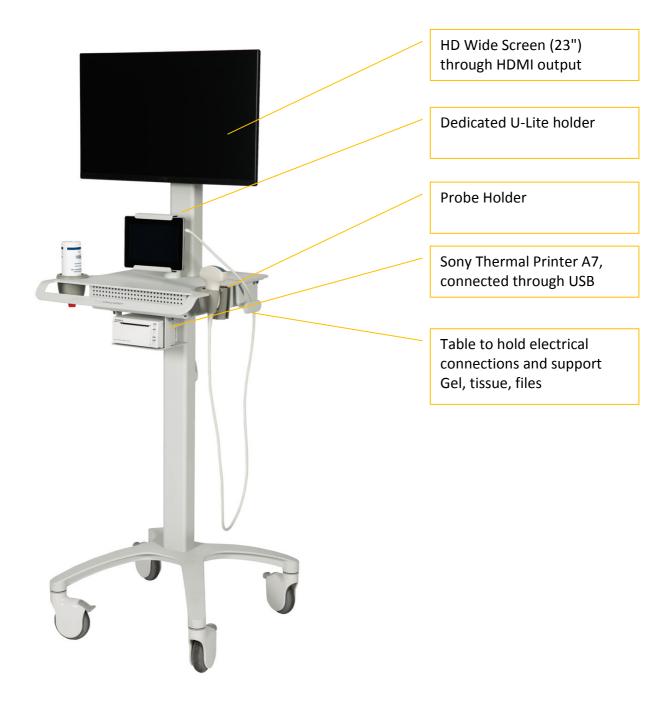






Dedicated HD Cart Support:

Through this special cart, U-Lite displays image on big HD Screen



Once connected to the HDMI Screen, U-Lite becomes a keyboard of a full display Ultrasound

Dedicated Cart Stand Support:

Light cart design to carry the U-Lite



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