

Technical Specification

Specification of Diagnostic Ultrasound System

S.N.	Purchaser's Specification (Tamakoshi Hospital)	Bidders' Compliance Sheet		
		Yes/No	Pg. No. Catalogue	Remarks
	Brand			
	Type/Mode			
	Country of Origin			
1	System Architecture			
1.1	Physical Channels: 64			
1.2	Digital Channels: ≤1382400			
1.3	Gray scale: 256			
1.4	Beam Forming: Eight Beam			
1.5	Processor: ARM			
1.6	Memory: 2 GB			
1.7	Hard Drive: 120 GB/512GB/1TB SSD			
1.8	Operating System: Android			
2	LCD Monitor			
2.1	21.5" high resolution LCD monitor			
2.2	Resolution: 1920 x 1080			
2.3	Image Size: 1040*780			
2.4	Tiltable angle: up 30°; down 90°			
2.5	Left/right rotation: ±90°			
2.6	View angle: right 178°, left 178°, up 178°, down 178°			
2.7	Brightness and Contrast adjustable (1-100)			
2.8	Folds down to horizontal level for transport.			
2.9	Color temperature adjustable			
3	Transducer Ports and Holders			
3.1	Five active transducer ports			
3.2	Electronic transducer selection			
3.3	Ergonomic access to all transducer ports			
3.4	Dedicated cable hook			
3.5	Removable gel warmer			
3.6	5 transducer holders with removable transducer cups, including one dedicated transducer holder for endo-cavity transducer.			
4	Battery			
4.1	Rechargeable Li-ion Battery			
4.2	Two batteries work simultaneously, each battery capacity of about 6800 mAh, total about 13600mAh capacity.			
4.3	Removable			
4.4	Approximately 1.5 hours of typical ultrasound exam use for two fully charged batteries.			


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4.5	Two batteries fully charged in about 3 hours.			
4.6	Battery level icon displayed on the main screen.			
4.7	Battery charging indicator on the control panel.			
5	AC Power			
5.1	Voltage: 100-240 V			
5.2	Frequency: 50Hz/60 Hz			
6	Imaging Modes			
6.1	B-mode			
6.2	M-mode (Linear anatomic M-mode, curved anatomic M-mode, Color M-mode)			
6.3	Color Doppler (velocity-based color doppler, PDI and DPDI)			
6.4	PW Doppler			
6.5	CW Doppler			
6.6	TDI mode (TVI, TEI, TVD, TVM)			
6.7	3D/4D mode			
7	Display Modes			
7.1	Dual Imaging			
7.2	Quad Imaging			
8	I/O Ports			
8.1	S-Video			
8.2	USB 3.0 (one)			
8.3	USB 2.0 (six)			
8.4	HDMI			
8.5	Ethernet			
9	Warranty			
9.1	Comprehensive warranty for 2 year.			
10	Maintenance Service During Warranty Period			
10.1	During the warranty period, supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
12	Documentation			
12.1	User (operating) manual in English			
12.2	Service (Technical/Maintenance) manual in English			
12.3	List of important spare parts and accessories with their part number and costing			
12.4	Certificate of calibration and inspection from factory			
13	Standard and Safety Requirements			
13.1	This unit shall be certified to meet ISO13485			
13.2	Shall meet IEC 61010-2 for electrical safety requirements.			
13.3	USFDA and CE approved certificates			

The bidder must completely fill out the Technical Specification Form (TSF). Only Yes/No/All complies should not be written. The page number in the catalog of all the required parameters must be mentioned and highlighted. Failure to do so may lead to the rejection of the bid from the technical committee.

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Handwritten signature and scribbles.