

TECHNICAL SPECIFICATIONS

PURCHASE ORDER

FOR THE SUPPLY AND DELIVERY OF MEDICAL EQUIPEMNTS TO UNHCR-EGYPT

ITB/CAI/006/24

Fully Integrated Digital System (One Console - Dual detector) with Auto Tracking **Quantity: 2 Units**

No.	Item Specifications
1	Technical Specification
1.1	Table:
1.1.1	Elevating Table with Floating Tabletop (4-way)
1.1.2	Tabletop dimensions 220x80 cm at least
1.1.3	Maximum Patient weight 280 kg
1.1.4	Floating tabletop range of travel at least ± 35 cm for longitudinal, ± 11 cm for transverse, 35cm for Vertical.
1.1.5	Table with detector tray that allows use of the wireless detector for fully digital acquisitions.
1.1.6	Tabletop – detector distance ≤ 9 cm
1.1.7	The detector tray accepts inserting the detector both vertical and horizontal format
1.1.8	The tray must include a scatter radiation grid. Grid should be removable e.g. in pediatric acquisitions
1.2	X-ray Assembly:
1.2.1	Floor mounted Tube stand
1.2.2	Lateral movement minimum 24 cm
1.2.3	Vertical movement minimum 150 cm.
1.2.4	Longitudinal movement should be mentioned
1.2.5	Tube rotation around horizontal axis 180° ($+90^\circ/-90^\circ$) or more
1.2.6	Column rotation around the vertical axis 180° ($+90^\circ/-90^\circ$) for oblique and lateral acquisitions
1.2.7	Controls on tube housing
1.3	Tube and Generator:
1.3.1	At Least 50 kW generator – higher will be evaluated

1.3.2	Current not less than 600 mA at 80 kV – higher will be evaluated
1.3.3	Exposure voltage ranges from 40 kV to 150 kV at least
1.3.4	Focal spot size nominal value 0.6 and 1.2 or less
1.3.5	Anode Heat storage capacity at least 300 KHU
1.3.6	Tube housing heat storage capacity at least 1100 KHU
1.3.7	Automatic Collimation Control with rotation up to $\pm 45^\circ$
1.4	DOUBLE Flat Detector
1.4.1	Have one wireless flat detector in table and one wireless in Bucky wall stand
1.4.2	CsI Scintillator technology
1.4.3	Active image size at least 14"x17" cm
1.4.4	Pixel size to be specified. The smaller the better
1.4.5	Matrix size 2300 x 2500 at least
1.4.6	Acquisition depth and image data depth 16 bits at least
1.4.7	lower battery charging time is preferable
1.4.8	Protection Index the higher the better
1.4.9	DQE @ (1.0 lp/mm) the higher the better
1.4.10	Static Loading the higher the better
1.5	Digital Imaging Workstation:
1.5.1	Central processing and visualization of images
1.5.2	Complete digital image available at the control display after exposure release
1.5.3	Image storage capacity at least 10,000 images
1.5.4	Color, high contrast display 19 inches at least
1.5.5	Must be DICOM 3.0 or more ready for print, storage, Worklist (lifetime license)
1.5.6	Organ programs that can be customized (Number to be stated)
1.5.7	Image processing functions such as rotate, mirror, zoom, window, filter, image reversal and contrast/brightness
1.5.8	Advanced image processing functions to optimize image display for different organs and different structures

1.5.9	Tools to allow angle/distance measurement
1.5.10	Console can print images on CD.
1.6	Bucky Wall stand:
1.6.1	Allows using wireless flat detector
1.6.2	Height adjustable. Vertical range to be stated
1.7	Auto Tracking
1.7.1	Horizontal Auto Tracking with Table
1.7.2	Vetical AutoTracking with Table
1.7.3	Vetical AutoTracking with Wall stand
1.8	Automatic Exposure Control(AEC)
1.8.1	Ionization Chamber for Table
1.8.2	Ionization Chamber for Wall stand
2	Supplied Accessories:
	Technical Specification
2.1	Dry Laser Imager
No	Item Specifications
2.2	Complete indoor site preparation for examination, equipment, and control rooms
2.2.1	Concrete flooring beneath the Gantry and table
2.2.2	Anti-static floor tile of thickness 2mm for examination and control rooms or equivalent
2.2.3	Gypsum Ceiling for examination and control rooms
2.2.4	Gypsum wall for examination and control rooms
2.2.5	Wall painting for equipment room
2.2.6	Internal lighting for examination and control rooms
2.2.7	Power distribution box for the system and internal electric connection
2.2.8	Floor / ceiling ducts and covers
2.2.9	Emergency power off switch in examination room, on /off switch in control room
2.2.10	Split air conditions for examination and control room
2.2.11	Lead glass.
3	Power input to be 380 VAC, 50Hz
4	Standards and Safety Requirements

4.1	CE mark, FDA, IEC, ISO, TUV
5	Country of Origin for X-Ray System: Japan, USA and Europe
6	Comprehensive warranty 2 Years

Delivery location:

DAP: To The suggested hospitals for receiving the X Ray machines.

- El Aries General Hospital
- El Helal Hospital
- National Hepatology & Tropical Research Institute in Embaba

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