



UNITED NATIONS OCCUPIED PALESTINIAN TERRITORY HUMANITARIAN FUND

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## Computed Radiography System (CR)

- Heavy duty for hospital level operation.
- Single plate reader, General-Purpose CR Systems.
- Should be able to be used inside examination room.
- Throughput 40 Plate/hour for 35×43 IP or higher rate for different cassette/IP sizes.
- Should have scheduled work flow software.
- Suitable for a wide range of applications (General , Pediatrics, Full Leg, Full Spine)
- Patient ID facility, by Manual entry, bar code, and DICOM 0.3 modality work list.
- Work list management can obtain patient information directly from the hospital HIS/RIS.
- Special resolution of minimum 5 pixel/mm to 10 pixel/mm& also 20 pixel/mm should be possible.
- Gray Scale Resolution In/Out: Should be 12/12 Bit or higher is Preferable.
- Online UPS for the Reader and Main QC Work Station.

### **System configuration**

- System configuration include (Plate reader complete with the CR Main Quality control Console , Touch Panel Monitor, Workstation PC, with the image processing Software tools , Cassettes and Imaging Plates, DICOM 0.3 Interfaces ,and Two (2)extra clinical review work stations)
- It should be clear at the offer any extra price for the offered configuration to be ready to use.
- CR console should be able to process image data to optimize the final output.
- The main workstation is equipped with 19" high-resolution LCD or LED monitors, a CD writer, and a DVD drive with 30, 000 Image storage Capacity.
- Main Workstation should have ability to send images to the extra 2 consoles.
- The stations PC and quality control PC should be with the following minimal specs or higher preferred.



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### PC Specification

- Core i7-2400 Processor ,
- 4GB PC3-10600 Memory
- 4GB 1333DDR3 1DM Memory
- Display Port To DVI-D Adapter,
- FireWire / IEEE 1394a PCIe x1 Card,
- 2 X500GB 7200RPM SATA-6G RAID,
- HP PS/2 Optical JB Mouse,
- SATA Super Multi (JB) CD/ DVD Writer Drive
- USB 3connections
- LAN ,Ethernet .
- 21" very high-resolution LCD or LED monitor.
- Hard disk capacity 500 GB
- The system configuration should be suitable for both centralized and decentralized work flow depending on the MOH requirement.

### Software and Communication

- The system computers should be equipped with open Licensed Image Processing software and DICOM3.0 for each networking with the local network for connectivity with main QC console.
- System should have capability to pan, zoom, annotate, crop, noise suppression/control, multiple image layouts, customized formatting, CD/DVD writing, etc.
- Software features should include automated image processing, image quality assurance, basic image review, a quantitative exposure record, and system quality control. Other options include orthopedic image tools, Edge enhancement should be possible, Flexible Noise Control, Grid Pattern Removal.
- DICOM Compatibility: Modality Work list, Modality Performed Procedure Step, Basic Grayscale Print, CR Image Storage, Storage Commitment.
- Provides easy integration with PACS systems
- The monitors should meet the high image quality requirements for CR, and Fluoroscopic examination.



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### **Cassettes and IP's**

- Supplied with each of the following sizes (cassettes rigid screen type not flexible) please specifies resolution and quotes each separately.
- Should state the life time for Image plate.
- Cassette Life should 45000 and 5 years warranty preferred
- 35 x 43 cm cassette qty. 2.
- 24 x 30 cm cassette qty. 2.
- Complete system configuration will be delivered, installed, operated with all standard accessories and ready for use.

### **Power requirements**

- Single phase 50-60 Hz,100-240 VAC

### **OPTIONS to be priced separately.**

- Image plate replacement price.

### **Warranty:**

- 3 years warranty including spare parts, preventive maintenance.
- Cassette Life should 45000 and 5 years warranty.
- System Software Should be delivered with the unit.
- Operation and Service Manuals must be included in Soft and hard copies.
- Well known Manufacture (USA, EUR., JAPAN).

*Your offer will not be taken in consideration unless (must be mentioned in the offer):-*

- Country of origin , date of start manufacturing this model , and date of last upgrading , are clear in the offer
- warranty 3 years from installation
- Warranty for not less than 10 years for spare parts.
- Service and operation manuals