

# DDR MAK - 1500 Digital Radiography System

## SPECIFICATIONS

### Flat panel detector:

Detector imaging area:	43 x 43 cm
Pixel Size:	139 um
Frame Rate:	8 sec. Cycle time
KVP range:	40 ~ 150
Image Resolution:	up to 3.6 lp/mm
Image Matrix:	3072 x 3072
A/D Conversion:	14 bits
Fill factor:	100% CWP Technology
Connectivity:	DICOM Compatible

### X-ray Generator:

High Frequency	150 KHz, 1 Tube Operation.
Three phase	380 / 480 VAC.
Output power:	80Kw
Automatic line compensation	+/-10%.
Five working station capability.	
X-ray tube overload protection.	
X-ray tube H.U. available indication and continual monitoring for X-ray tube protection.	
Control of X-ray Tube Number of Exposures.	
Kvp Radiographic range	from 40 to 125 Kvp
MAs range:	from 0,1 to 640 mAs .
Exposure time range	from 0.001 to 10 second.
Anatomical program APR with 534 programmable techniques by the user.	
Console with anatomical program microprocessor controlled.	
Seven (7) anatomical sections with different program	
Permits personal configuration of the radiographic techniques and its easy save in memory for later use.	
High-speed starter for anode rotation.	
Rotation control of the anode at low speed 3.000 r.p.m.(60Hz) is a function of the selected power.	
Rotation control of the anode at high speed 10.000r.p.m.(180Hz) is a function of the selected power.	

### Automatic Collimator:

Automatic collimator with 6 pair of leaves
Accessory rails (cones, filters, etc)
Automatic compensation of the field, depending on the SID
Field light lamp (light of the lamp 160 lux)
Light indicator for alignment with the Bucky
Laser indicator for alignment with the Bucky and positioner beam
Lamp timing
Retractable measuring tape

Specifications subject to change without prior notice.



Medicatech USA  
50 Maxwell  
Irvine, CA 92618  
(800) 817-5030  
(949) 679-2881  
www.medicattechusa.com  
info@medicattechusa.com



## DDR MAK - 1500 Direct Digital Radiography System



## DDR MAK-1500 Digital Radiography System

DDR MAK-1500 is a top-level digital X-ray system designed to meet the demanding needs in hospitals emergency departments, trauma centers and general radiology applications.

- The system's fully motorized, just one panel inside the universal Bucky in the chest stand. This allows the operator extraordinary flexibility and ideal system setting for all patients in a standing, sitting or laying position.

- A major benefit of the DDR MAK-1500 is the large imaging area of 17" x 17" (43 x 43 cm) that allows for the capturing of anatomical views without having to rotate the detector unit while moving up or down the body.

### Advantages of the Digital Flat Panel Detector

The DDR MAK-1500 digital flat panel detector provides advanced technology to capture radiographic images in a digital format almost instantly. The nearly 17 x 17 inch imaging area allows for the capture of chest and abdominal images without having to rotate the detector unit.

### Benefits

- Capture and preview digital images in seconds
- Consistent image quality to reduce retakes
- No film development or imaging plates
- High resolution image with minimal X-ray dosage
- Increased dynamic range in viewing X-rays



### Universal Bucky:

- The floor mounted work station for lung and skeleton x-ray examinations, user friendly design and handling.
- The detector is easy loaded and manually turned to the desired position where it is locked automatically and the changing position is done within few seconds.

### Ceiling Tube Suspension:

- Positioning movement : 3 way movements with a motorized vertical movement
- Digital Display: digital display for the SID , X ray tube angulations and indication of the position on the horizontal axis.

### Ceiling Suspension Tube Stand Movements

Longitudinal travel : 350 cm

Transversal movement : 218 cm

Vertical motorized travel: 150 cm, Synchronized with the wall Bucky movement.

Focal Spot to Ceiling: min 100cm (parking position)

Tube Stand rotation : +/- 180°, mechanical detent every 90°

X ray tube rotation: +180°/-135°, mechanical detent every 90°

- Electromagnetic brakes for tube rotation and tube arm movements
- Motorized features: Alignment Control System of the wall Bucky Stand, through synchronized movement with the Ceiling Suspension . Once the system is activated, any vertical movement of the wall Bucky stand, the ceiling suspension will automatically follow any vertical movement of the wall Bucky to the center position of the Bucky.

### X-ray Tube:

- Maximum Tension, 150 Kvp.
- Anode Heat Capacity 600,000 HU.
- Focus Size
  - Small focus 0.6 mm.
  - Large focus 1.2 mm.
- Anode target angle, 12 °.
- Maximum power low speed
  - Small focus 15 Kw (50Hz), 16 Kw (60Hz).
  - Large focus 44 Kw (50Hz), 49 Kw(60Hz).
- Anode rotation 3,000 / 9,700 r.p.m.