

# DDR MAK - 1100 Digital Radiography System

## SPECIFICATIONS

### Flat panel detector:

Imaging Area:	422 mm x 406 mm
Number of Pixels	6.7 million (each pixel 160 microns)
Dynamic Range	14 bit ADC, 12 bit exported
Image Readout Time	< 2 seconds
Fill Factor	Near 100%
Connectivity	DICOM Compatible

### Motorized swivel arm:

Dual-speed motorized movement for:	1) SID adjustment; 2) arm elevating movement 3) Rotation of the arm
Source-to-image distance (SID)	100-180 cm (40-72") continuously adjustable (dual-speed motorized movement)
Vertical travel	1.215 mm (47.8")
Rotation angle	150° (90° +/- 30°)

### Image detector cabinet:

Detector cabinet with Integrated Control Panel	- image digital detector: maximun size: 43 cm x 43 cm (17" x 17") - range of tilt: +/- 45°
Unit fixation system Image Detector Cabinet	Floor to ceiling support Motorized rotation movement

Grid type	1) Reciprocating bucky (oscillating grid) (103 lines / Ratio 12:1 / f = 150 cm / 59") 2) Grid cabinet + non oscillating interchangeable grid a) 1st. grid - 180 lines / Ratio 12:1 / f = 100 cm / 39.4" b) 2nd grid - 180 lines / Ratio 12:1 / f = 180 cm / 70.9"
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### Mobile patient table:

Table-top composition	Carbon Fiber
Patient capacity	200 kg (441 lb)
Dimensions (L x W x H)	2.000 mm x 650 mm x 700 mm (78.7" x 25.6" x 27.6")

Specifications subject to change without prior notice.



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## DDR MAK - 1100 Direct Digital Radiography System



### Main column:

Floor to wall mounted support  
Dual-speed motorized swivel arm  
vertical movement for effortless  
and accurate setting

### X-Ray generator:

Compact X-ray generator (up to 80 kW  
output power) available in three power  
versions: line powered / battery powered /  
capacitor assisted

### Collimator:

- Automatic Collimator
- Linear laser beam for patient positioning  
in combination with light field indicator
- Rails for accessories
- Measuring tape

### Weights:

- Net weight: 324 kg (714.3 lb)
- (mobile table and digital image detector are  
not included)
- Mobile table net weight:  
a) standard table: 46 kg (101.4 lb)  
b) carbon fiber table: 30 kg (66.1 lb)





## DDR MAK - 1100 Direct Digital Radiography System

*This system has been designed as a world class direct digital imaging system for use in hospital emergency rooms, imaging centers and all general radiology applications.*

*The C-arm design maintains constant alignment between the x-ray tube and image receptor, regardless of C-arm tilt positions or image receptor angle.*

*Its extraordinary flexibility makes the system ideal for all patients in standing, sitting or laying position, including those who are disabled or physically restricted.*



### Advantages of the Digital Flat Panel Detector

*The DDR MAK-1100 digital flat panel detector provides advanced technology to capture radiographic images in a digital format almost instantly.*

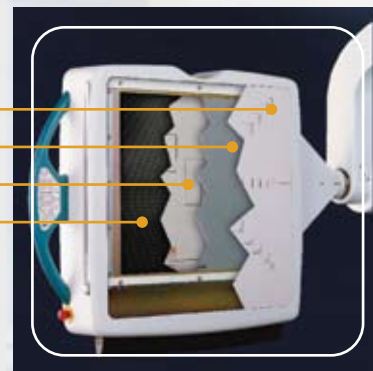
*The nearly 17 x 17 inch imaging area allows for the capture of chest and abdominal images without having to rotate the detector unit.*



#### 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

Front Cover  
Grid  
Ion chamber  
Flat Panel



### Simple operation and movement from four locations:

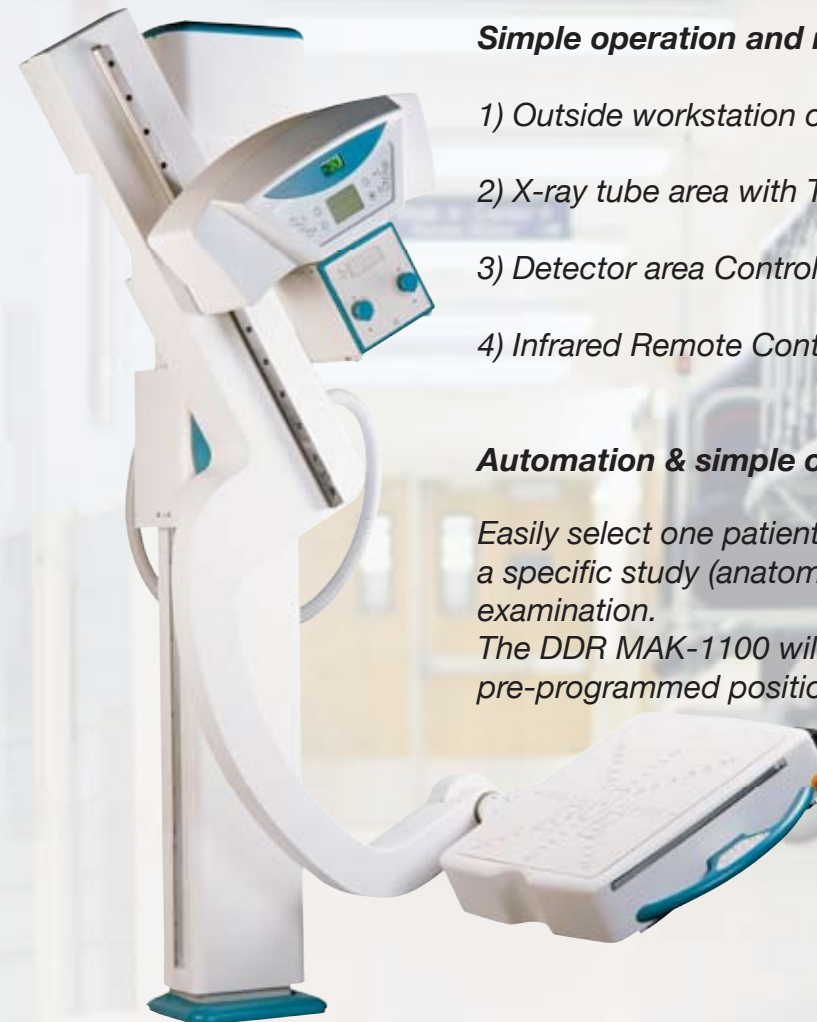
- 1) Outside workstation on the touch screen panel
- 2) X-ray tube area with Touch Buttons
- 3) Detector area Control Panel
- 4) Infrared Remote Control

### Automation & simple operation:

*Easily select one patient from the Work List to provide a specific study (anatomical region and view) for the examination.*

*The DDR MAK-1100 will move to a specific pre-programmed position and do the following:*

- Open the Collimator shutters to a pre-programmed collimation
- Be ready with the specific X-ray parameters for the selected study
- Allow the operator to confirm pre-programmed position and collimation



*The systems operator-friendly controls dual speed motorized movements, and the intelligent anti-collision system (two laser beams + pressure sensor + bumper detector) makes the patient positioning quick, easy and safe.*

### DDR MAK-1100

*Equipped with digital X-ray flat panel detector 17" x 17" (43 x 43 cm).*

