



# DR200e

Mobile Digital Radiography Diagnostic System

## Technical Specification



*See life more clearly*

## 1. General

- ✓ Integrated Wireless Flat Panel Digital Detector
- ✓ Integrated PC Devices
- ✓ Integrated Review software
- ✓ Integrated Presetting Parameters
- ✓ Integrated Battery
- ✓ 17 inch LCD touch screen
- ✓ Dicom 3.0 Interface for PACS or HIS
- ✓ Remote Control Switch
- ✓ 40KW
- ✓ 10-500mA
- ✓ 200 exposures with battery
- ✓ Single Phase 110-220VAC Input
- ✓ With foot break and pedal
- ✓ Light weight, easy movement

## 2. X- ray High voltage generator

- Standard output power: 40kW
- mA range: 10-500mA
- Tube voltage range: 40-150kV
- mAs range : 0.1-250mAs
- Load time range: 0.001s ~ 6.3s
- Input voltage: 450VDC/48VDC $\pm$ 10%
- High voltage output master frequency: 50kHz $\pm$ 5%
- High voltage transformer structure: The power frequency

## 2.X-ray tube

- Focus range: 0.6/1.2mm
- Anode heat capacity : 150kHu
- Anode types: rotating anode, maximum speed: 2800 revolutions per minute
- Pipe sleeve heat capacity: 1250kHu
- The maximum voltage: 150kV
- The anode input maximum power: Big focus:40kW ,Small focus:20kW
- Anode angle 12.5°
- The inherent filtration: 1.0mm Al/75kV

## 3. Collimator

- The inherent filtration: 1.0 mm Al /75 kV;
- Collimator is equipped with LED lights ( Bright 30s are automatically extinguished )
- Collimator is built into measuring ruler

#### 4. The tube bracket structure

- X-ray tube support way: Folding arm
- Tube focus distance to the ground: 507mm ~ 2000mm,  $\pm 5\%$
- Arm's Folding Range : $\pm 60^\circ$
- Tube Tilting Angle:  $\pm 90^\circ$
- Tube Vertical Rotation Angle:  $-30^\circ \sim +90^\circ$
- Collimator axial rotation :  $\pm 360^\circ$

#### 5. Wireless Digital Panel Detector

- Wifi connection , Amorphous Silicon ,whole panel technology
- Detector valid exposure size : 350×430mm
- Pixel size: 150  $\mu\text{m}$
- The effective camera size of the detector: 14×17inch
- Gathering matrix:  $\geq 2304 \times 2800$ pixels;
- Spatial resolution $\geq 3.4$ lp/mm
- Pixel gray level:  $\geq 14$ bit
- Detector cooling mode: natural cooling

#### 6. Digital image workstation

- CPU frequency: CORE i3
- Memory capacity: 4GB
- Hard drive capacity : 500 GB
- Display size: 17 inch LCD touch screen
- Display screen Maximum resolution $\geq 1280 \times 1024$ ;
- 64 bit Windows operation system

## 7. Image acquisition software

- Patient registration: acquisition, find the patient data, to prepare for the photography
- Radio graphic examination: setting system parameters, exposure photography and get the image
- Images display, image analysis, processing and output
- Data management: managing patient data, leading in, leading out , batch file, etc in accordance with DICOM3.0
- Configure calibration: the system components such as flat-panel detector, such as tube for automatic configuration and calibration
- System diagnosis: monitoring system status, diagnosis of the system fault
- Image Printing: Image Output to Film Printer

## 8. Battery

- Power supply way
- Lithium battery power supply
- The rated capacity:46.8V,10.8Ah ( Lithium battery meets UN38.3 standard requirements )
- Battery capacity: More than 200 exposures, chest image dosage (exposure conditions: 120 kv, 100 mA, 20ms )
- Dual power supply,exposure under either wall current or lithium battery
- Maximum charging 4 hours
- Hand switch and remote control

## 9. The machine parameters

- Appearance size: 1560 mm×650 mm×1490 mm
- Whole weight (no detector): 220kg

## 10. External interface

- Display interface ( DVI )
- Wireless network data transmission ( WIFI )
- Cable network interface
- USB ( 2 )

## 11.Options

- Chest Stand
- The selection of moving flat bed