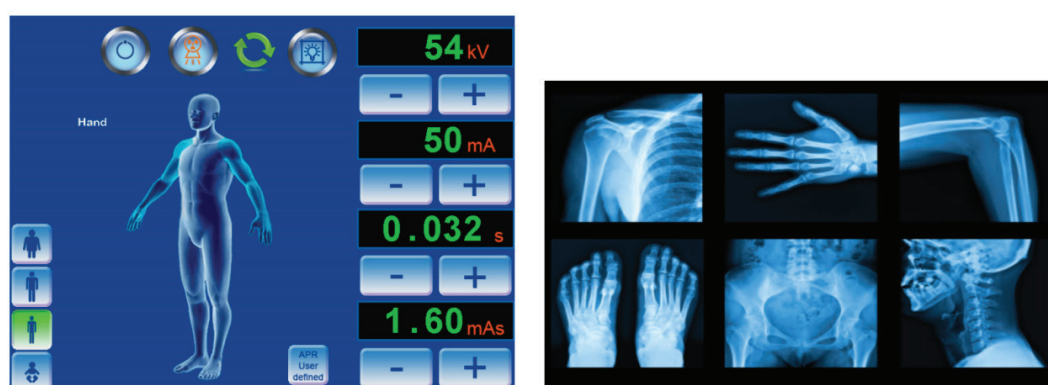# SMART 200P-XDR

## Portable Digital Radiography System

## Description

- Wireless Transmission
- Dependable wireless performance, and a long battery life
- Easy Exposure interface
- Hand switch and visual console
- Fast work flow
- Direct deposition CsI for better image quality with lower dose
- 150μm pixel pitch, with 16 bit ADC for more image details
- High-frequency inverter technology
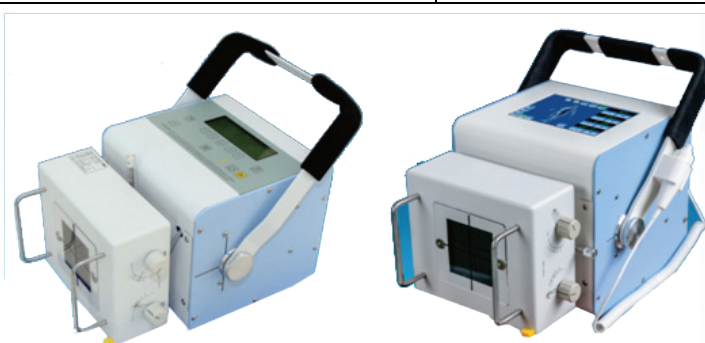- Automatic measurement of shooting distance and thickness



## Specifications

### Ambient conditions

| | |
|---|---|
| Ambient temperature | 10℃～40℃ |
| Relative humidity | 30％～75％ |
| Atmospheric | 70～106kPa |

### Portable Monoblock X-Ray unit

| | |
|---|---|
| Output power | 5.0KW |
| Frequency | ≧30KHZ |
| Current | 32～100mA |
| Voltage | 40～110KV |
| mAs | 0.32～315mAs |
| Exposure time | 0.01s～6.3s |
| Intelligent protection system | It has self-protection system. It will give an alarm and check fault code. |
| Power type | 220v±10% 50Hz/60Hz |

# X-ray detector(Flat Panel Detector)

| Type | Amorphous Silicon |
|---|---|
| Scintillator | Cesium Iodide |
| Active Area | 14x17Inch |
| Pixel Matrix | 2304 × 2800 |
| Pixel Pitch | 150um |
| A/D Conversion | 16bits |
| DQE | ≧70% |
| Spatial Resolution | 34Lp/cm |
| Acquisition time | ≤2S |
| Battery Autonomy (h) | 5 |
| WIFI | 2.4G and 5G  IEEE802.11 a/b/g/n/ac |
| Ingress Protection | IPX1 |

# Workstation

| Laptop | 14Inch |
|---|---|
| CPU | ≥2.0GHz |
| Memory | ≥2GB |
| HDD | ≥500GB |
| DICOM3.0 | Query for integration with any PACS |
| Functions | Image acquisition function |
| | Automatically obtain patient information from the hospital's HIS system or RIS system or establish local medical records. |
| | Setting of exposure parameters: setting of kV, mA, mAs and ms. |
| | Image processing function |
| | Automatic window width and window level adjustment, ROI window width and window level adjustment, gray scale transformation, and parallel display of single or multiple images |
| | Image zooming function: most suitable for image, zoom in, zoom out, local zoom in and actual size |
| | Image rollover: left and right rollover, up and down rollover, 90° rollover |
| | Image filtering: noise reduction, bone level, tissue details, contrast, etc. |
| | Marking function: text marking, arrow and other marking and deletion |
| | Image measurement: linear measurement, Angle measurement and rectangle measurement |
| | Image adjustment: window level gain, window width gain, grayscale stretch, negative reversal, sharpening, enhancement strength, etc. |
| | Other functions: image movement, label selection, image clipping and other functions. |
| | Image management function |
| | DICOM function and database management: the system supports the standard DICOM3.0 function, which can transfer data to other medical imaging workstations. |
| | Case management function |
| | Medical records can be stored, retrieved and inquired, and cases can be deleted, cleaned and browsed. |
| | Function of printing diagnostic report: the function of printing diagnostic report is added. The built-in diagnostic report template and knowledge base of the system can output integrated report of text and text. |

## Collimator

| Type | Manual Collimator |
|---|---|
| Max. Window | 440mm×440mm（SID=100cm） |
| Lamp | AC/DC24V、5W |
| Lamp timer | Automatic illumination with timer for lamp(30S) |
| Inherent filtration | 1.0mmAl |
| Illuminant | LED |

## Configuration

| | No. | Name of Component | Quantity |
|---|---|---|---|
| Standard | 1 | 5.0kW monoblock x-ray unit | 1 |
| | 2 | 14*17 inch wireless amorphous silicon flat plate detector | 1 |
| | 3 | Digital image acquisition and processing system | 1 |
| | 4 | i3 500G Laptop | 1 |
| | 5 | Collimator | 1 |
| | 6 | Hand switch | 1 |
| | 7 | Portable box | 1 |
| Optional | 8 | 8 inch touch screen for monoblock | 1 |
| | 9 | Mobile trolley | 1 |

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