

TECHNICAL DATA SHEET

Mobile Mammography X-ray Machine YSX-DM300



Reference photograph. Confirm accessories and configuration in the quotation.

A mobile mammogram x-ray machine

Item

Description

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FULL SYSTEM

Rating power:5000VA

Integrated System (Generator Integrated within the main device)

High voltage generator output: ≥ 100 kHz, 20 kV to 40 kV increment step: 1 kV

High performance X-ray tube:

Standard:Molybdenum Anode, Focal Spot Size: 0.1 mm (Small)/ 0.3 mm (Large)

Optional:Tungsten Anode, Focal Spot Size: 0.1 mm (Small)/ 0.3 mm (Large)

Support iso-center rotation function

C-arm Rotation range: $+180^{\circ} \sim -135^{\circ}$

Height range of breast support surface: 750mm-1330mm;

C-arm power-driven electrically, Dual side digital display;

Compression plate: flexible and multi-level smart Compression

Spatial Resolution: >6 Lp/mm

Detector type: Amorphous Silicon Detector

Effective Imaging Area: 24*30cm

Acquisition Station compatible with DICOM 3.0

Focal distance : 650mm

Added filter: Mo / Rh / AG

Added filter Switch: Manual/Automatic

X-ray Field adjustment: Manual

Magnification factor: 1.5

Exposure mode: Manual / AEC

Supply: 220V~,±10%

Frequency: 50 / 60Hz ± 1Hz

Max. power : 5000 VA

N.W.: 240 Kg

Compact design, minimum device height: < 1.1 m

Packing Size: 182 X 103 X 139 CM

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High-Voltage Generator

a) Frequency:≥100KHz;

b) Tube voltage Range: 20 kV ~ 40 kV in 1 kV step;

c) Max Output: 4 kW;

d) Max tube voltage:40kV;

e) Max tube current: 140mA;

f) Max current time product: ≥630mAs;

g) Ripple: <4%.

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X-Ray Tube

TUBE

Standard:

Imported X-ray tube for Mammography;

Anode Type: Molybdenum;

Focal Spot Size: 0.1 mm (Small)/ 0.3 mm (Large)

Permanent filtration: 0.5mmBe

Max anode speed: 10000rpm/min;

Max tube voltage:40kV;

Max tube current: 35mA(small)/140mA(Large)

Maximum tube assembly heat content: 320 KJ

Optional:

Imported X-ray tube for Mammography;

Anode Type: Tungsten;

Focal Spot Size: 0.1 mm (Small)/ 0.3 mm (Large)

Permanent filtration:0.5mmBe;

Max anode speed: 10000rpm/min;

Max tube voltage:49kV;

Max tube current: 35mA(small)/140mA(Large)

Maximun tube assembly heat content: 320 KJ

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Beam Limiting Device

Electric switch between Molybdenum or Tungsten or Argentum added filter;

Adjustable X-ray field manually.

Light field indicator is on automatically as compression plate moves down;

Light field indicator is off with delay as compression plate stops moving;

e) Off delay of light field indicator can be set via software.

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C-arm Assembly

C-arm up-down and rotation movement controlled via C-arm control panel;

C-arm stops automatically at common mammographic position: CC, OBL and LAT;

Rotation angle of OBL position can be set via software;

Support table up-down range: 750mm(L)~1330mm(H);

Rotation type of C-arm: isocenter rotation around the examined part;

Rotation range of C-arm: -135o~180o

Distance between focal spot and image reception area:650mm;

Magnification factor:1.5

Device can be installed in the movable physical vehicle as max height of device is less than 110cm;

Local display panel on the both side of the stand can indicate rotation angle of C-arm;

For safer operation, emergency stop button is locate on the top of C-arm;

Duplex foot switch(2 pcs) provided.

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Compression Device

Up-down movement : power-driven electrically;

Compression control: continuous activation by foot;

Compression mode: flexible and multi-level compression, automatic and manual decompression;

Compression plate travel range: 5 ~ 268mm;

Compression force: 0~200N

Compression thickness: 5~268mm

Size of compression plate: 24X30cm.

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Local Operation and Display

a) Dual display with backlight on the both side;

(b) Parameters displayed:

- rotation angle of C-arm;

- compression thickness;

- compression force;

- KV;

- mAs;
- density
- focal spot selected;
- exposure mode;
- Added filter selected;
- automatic decompression indication;
- state indication;
- failure alarming indication;

c) Control function:

- KV;
- mAs;
- density
- selection of focal spot;
- selection of filter;
- selection of mammographic mode;
- selection of automatic decompression after exposure.

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Anti-scatter Grid

Support movable grid;

Grid ratio: 5:1;

Grid densite: 41 L / cm

Grid focal distance:65cm;

Manually unload grid in magnification mode.

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Digital Image Detector

Detector type: Amorphous Silicon Detector;

Material: Amorphous Silicon + CSI;

Min. pixel: 85μm;

Image Matrix Sizes: 2816×3528 pixels;

Effective Imaging Area: 24cm×30cm;

Image Reading Duration: <1.4s;

Interval Duration: < 30s;

Spatial Resolution: 6 lp/mm;

MTF: 50%;

DQE: 50% (1 Lp/mm);

Output Gray scale: 14 bits

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Acquisition Station

Intel CPU frequency≥2.4GHz,≥ 4 GB Memory, ≥500 GB HDD

Medical Display, 1 MP, Brightness 250Cd/m², Contrast 1000:1

Image Acquisition Software

Image Detector Self-check and adjustment

Patient Information and Image Management

Auto Explore Control

Acquisition of Explored Image Information

Browsing and Searching of Image

Measure the Distance, Angle, Space of Image and Mark The Selected Area

Image Process after Acquisition: Black and white reverse, rotate and flip, zoom, local editing, enhancement, filtering noise, copies, abridged, etc.

DICOM 3.0 Services (Print, Store, Query/Retrieve, CDRW, Scheduled Workflow and Patient Information Reconciliation)

Automatic failure diagnosis, error code and message indication;

Exposure activation: exposure button;

Data backup and recovery.

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Automatic Exposure Control

Automatically select imaging parameters according to the thickness of breast and density of tissue;

Inseccration detector

Automatically position selection.

d) Automatically kV, filter and mAs selection.

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Manuals

User Manual

Pre-Installation Manual

Panama | Central America | Caribbean | CARICOM

Information from the authorized catalog. Confirm configuration, accessories and documentation in the quotation.

Assisted translation: review the manufacturer specifications before purchasing.