FM-MG600 Digital Mammography System

Packing Details:

Item	Length * Width *height/mm	Weight/kg
Host machine (without packing)	2000 *560 *940	150
Operation platform (without packing)	1500 *930 *500	85
Host machine (packing)	2160 *690 *1150	210
Operation platform (packing)	1630 *970 *830	140

I. Application

A mammogram is a special, low-dose X-ray technique used to take a picture of the breast, detecting and diagnosing any abnormal lumps or masses in breast tissue. It is one of the best tools for the early identification of breast cancer. With early identification, breast cancer can be cured while in the first stage, and recovery is more likely.

II. Specification:

Item	Parameter	Remark
X-ray Generator	Generator Type: High Frequency Inverter 80kHz Input Power: Single phase 220VAC, 50/60Hz Radiographic Ratings: Large Focal Point 20-35kV/10-510mAs Small Focal Point 20-35kV/10-100mAs Power Rating: 6.2kVA	Self-developed and world advanced all-solid-state high frequency high voltage x-ray generator
X-ray Tube	Focal Spot Size: Dual Focus 0.1 / 0.3mm Target Material: Molybdenum (Mo) Port Material: Beryllium (Be) High-speed anode drive: 2800 /10000rpm Target angle: 10°/16° Anode Heat Storage: 210kJ (300kHU) Anode Cooling: Air cooling Filtration: Mo（0.03mm）, Al（0.5mm）	**Model：China LR01** China tube for optional
Radiographic Stand	C-ARM: Vertical Movement: 590mm Center of electric rotating C-arm Automatic return function by one key Rotations Degree: +90°～-90° Automatically released after the exposure pressure settings display Compression flexible, stepless speed. Max. pressure: 200N Max. travel: 150mm SID: 650mm	Electric Isocentric rotating
Flat Panel Detector	Detector material: Amorphous silicon Effective coverage of detector: 18x24cm Pixel matrix: 3072x1944 Limit of spatial resolution: 6.0Lp/mm DQE value: 70% dynamic range: 14bit digital output pixel size: 75μm High voltage Synchronizer trigger: BNC	China Flat Panel Detector 24x30cm for optional

	Output: Camera Link or Ethernet Working condition: 10℃-40℃ storage environment: -10℃-50℃	
Bucky housing and movement device	Size: 374*304*65mm Stepless speed regulating range: 0～6cm/s Movement range: 0.5～2cm Grid Size: 24x30cm Grid ratio: 5:1 Grid density: 30lp/cm Focal distance: 650mm	
Image acquisition workstation	CPU≥Intel Core Duo 2.60GHz Hardware≥250G high speed Hardware Memory≥2G Display card≥512MB high brightness high-contrast LCD,1280*1024 Pixel resolution Network interface Work-list DICOM3.0 transmission 100/1000 Gigabit Ethernet **Software** Imaging software package DMOC V1.0	Configuration including Diagnose digital workstation 5M medical monitor for optional
Others	**Line Voltage** 220V ac±10%@25A,Single phase	110V for optional

III.Configuration:

No.	Item	Quantity
1	X-ray Tube	1
2	X-ray Generator	1
3	Gantry assembly	1
4	C-ARM	1
5	Bucky movement device	1
6	Flat panel detector	1
7	Image acquisition workstation	1
8	Review work station	1
9	Paddle switch	2

10	Exposal switch and connected line	1
11	Power wire	1
12	Grounded wire	1
13	Fuse	2
14	Operation manual	1
15	Maintenance Reference Manual	1

IV.Features:

1. Adopt specialized mammography flat panel detector digital imaging technology.
2. Full size digital mammography x-ray imaging.
3. Unique adopt all-solid-state high frequency high voltage generator. This technology has got the PATENT IN THE USA.
4. The safest mammography at high voltage. There is a built-in X-ray ignition coil in host machine, high-voltage power lines less then 25cm.
5. Mammography image acquisition control workstation, DICOM 3.0.
6. Electric Isocentric rotating C-arm with a unique automatic back to center function.
7. Optional the third generation imported moving grid.
8. Optional auto/semi-auto/manual, three kind exposure modes.
9. Optional image output device: digital film printer.
10. A total of 3 pieces of large size full color LCD screen display, operation table 8 inch LCD screen is a touch key.
11. Comfortable Compression:

When some degree of pressure is required for radiography, it allows you to presser the appropriate pressure(up to a maximum of 20kg) and is equipped with MICOM Control's Soft-touch system which is designed to minimize the discomfort of the examine with in the pressure range.

Tissue Compression: Manual and Motorized (Max 20kg)
Compression Force and Thickness Data Display
Micro Control's Compression
Automatic Release

12. Optional Intelligent Automatic Exposure Control（AEC）

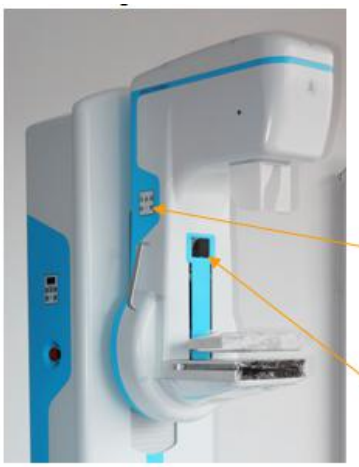
With the Automatic Exposure Control system, it is possible to produce images with reliable intensity suitable for and film, screen, or method of radiography.

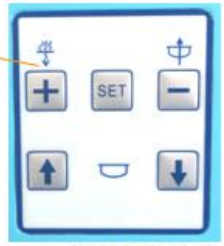
Furthermore, it greatly enhances the convenience of radiography by embedding the Full-AEC function which is capable of utilizing the Auto kV

Type: Solid-State Detector
Microprocessor Control

Density Adjustment: 16 density steps

V.Diagram





Control Panel

Display Panel

Rotation of C-arm

IAE C339V X-ray Tube

China Flat Panel Detector (18*24cm)

VI.Digital workstation:

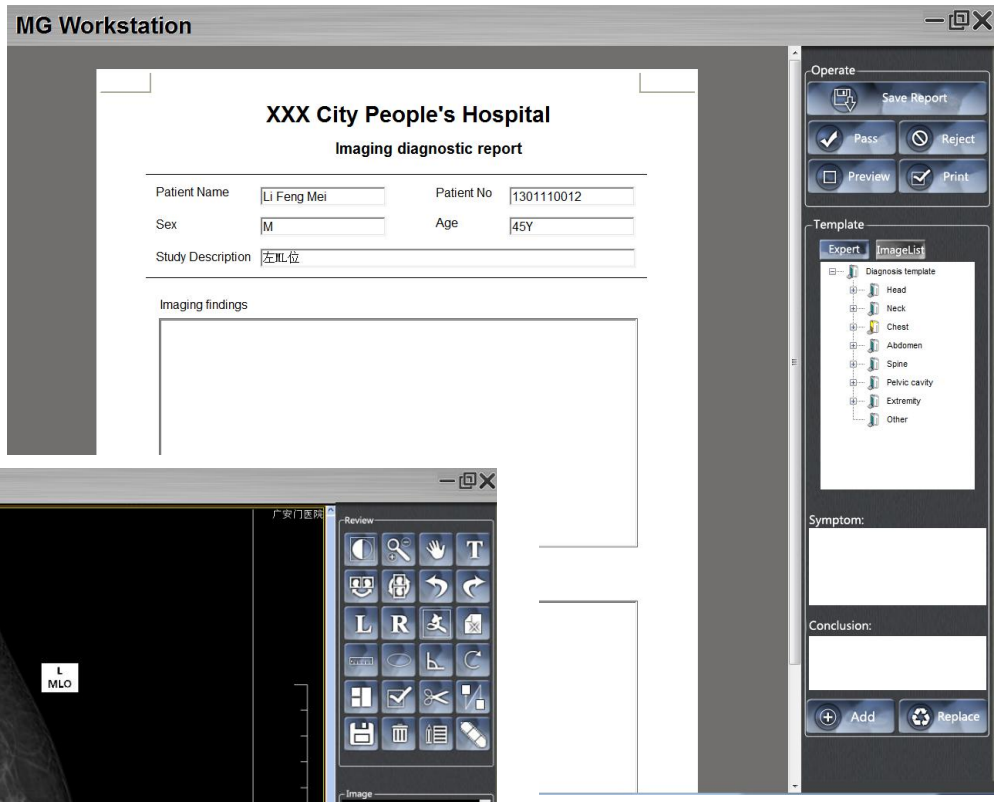


Image Processing: Negative, Zoom, Roam, Select, Mirror, Counterclockwise rotation, Clockwise rotation, Typesetting image, Cut out, Report Map and so on

Digital workstation

System introduction:

1.Login, Main interface

2.Image Processing

3.Reporting Interface

4.Statistics

5.System Management

***More details refer to User Manual**