

## Genève 40M Mobile X-Ray System



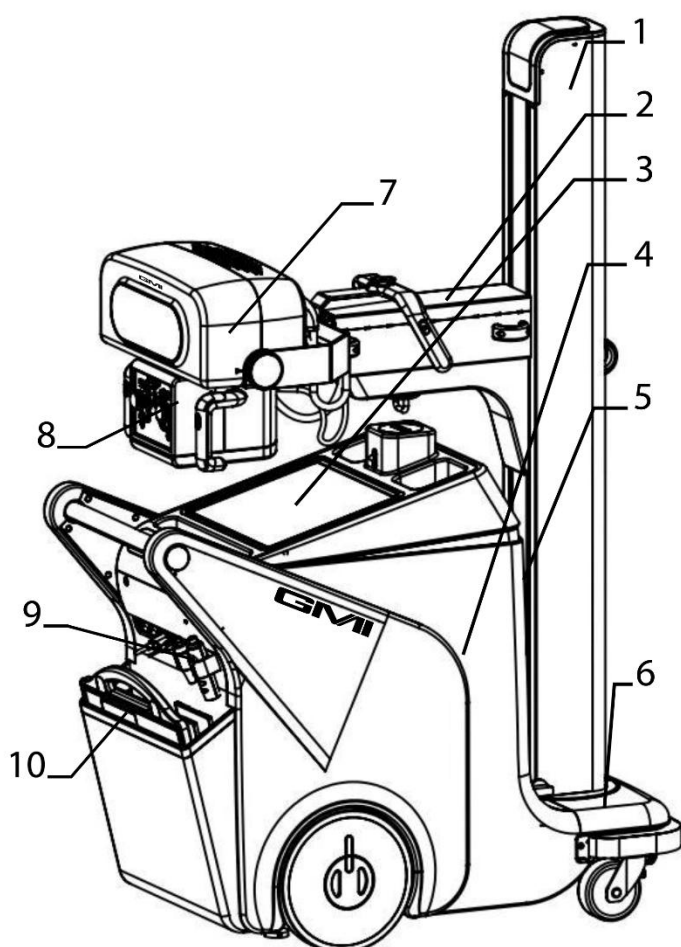
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### GMI General Medical Italia Ltd

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## SYSTEM CONFIGURATION

- Flat Panel Detector
- Diagnostic Workstation
- High Frequency Generator
- X-Ray Tube
- Collimator
- Motorized mobile rack
- Accessories



1. Column
2. Telescopic arm
3. Workstation
4. High Frequency Generator
5. Front Panel
6. Anti-collision sensors
7. X-Ray Tube
8. Collimator
9. Wireless hand switch
10. Wireless FPD

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## DYNAMIC FLAT PANEL DETECTOR

- Model: GMI 1417
- Detector technology: Cesium Iodide (CsI)
- Acquisition area: 35x43cm (14x17 inches)
- Pixel matrix: 2560x3072
- Pixel size: 139µm
- A/D: 16bit
- Spatial resolution:  $\geq 3.5$ lp/mm
- Battery capacity: about 6h
  - The FPD can be used while charging with its magnetic charging cable
- X-Ray operating voltage range: 40-150kV
- Communication: GigE / 802.11
- Weight: 3.7kg



## DIAGNOSTIC WORKSTATION

- CPU: Intel
- RAM: 8GB
- STORAGE: 500GB
- GPU: Nvidia
- Monitor: 19" 1280x1024 Touchscreen display



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## **GMI DxRayDiagnost Software**

- Case management function: management of patient information, exam information and images.
- DICOM3.0 compatible: Patient registering from HIS/RIS and data sending to PACS system, with RDSR.
- Advanced image processing based on preloaded APR programs.
- Real time automatic WW/WL adjustment.
- Real time ROI (region of interests) clipping.
- Real time enhancement.
- Selecting image and rotation according to different body postures.
- Displaying patient information, examination information, device information and image information Image processing.
- Adjustment of window width, window level, Gamma, and LUT curve.
- Positive and negative film switchover, image zoom, translation, mirror image, rotation, magnifying.
- Image enhancement, noise reduction: Scheme and level of image enhancement and noise reduction can be adjusted according to different body postures.
- Image labeling function: including drawing straight line, rectangle, polygon, arrow and text.
- Real time reminding of the free space of image disk of the system.
- DICOM SCU: support sending image to any PACS and workstations following the standard DICOM3.0;
- iEAE: intelligent Efficient Automatically Enhancement. This technology of Image processing has greatly improved the consistency, softness, spatial gradation, and texture fineness of image.
- iGCR: intelligent Grayscale Compensation of ROI. iGCR can recognize the effective exposure area through ROI recognition technology and compensate the gray of the region. To enhance the RAW image processing under different exposure parameter and keep the image quality at higher level.
- iTE: intelligent Tissue Equalization. iTE Intelligent Tissue Equalization analyzes organizational structure of the image, by using gray optimization and dynamic range compression technology, provides the best visual effects of bone, soft tissue and overlapping structure.
- iCED: intelligent Context-Enhancing Denoise. iCED use the Motion-Compensated Temporal filtering technique to reduce the noise under fluoroscopic image processing without blurring and artifacts. It can intelligently identify useful texture and detail information in the image, and significantly suppress the noise at the same time it keeps the edge enhancement and contrast enhancement. To soften the image, enhance the depth of delicate texture after processing.
- iMR: intelligent Metal-Recognition. It can intelligently analyze and recognize metal areas in the image, and deal with them in special image processing, to avoid artifact around the metal and misdiagnosis.
- iDG: intelligent DeGrid. It can intelligently recognize the artifacts of the grid to keep the outstanding image effect.

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## High Frequency Generator

- Model: GMI FSQ5-3
- Nominal supply voltage: 300-380Vdc
- Wired input power: 220V, 50/60Hz
- Nominal output power: 32kW
- Maximum output power: 40kW
- kV range: 40~150kV, 1kV step
- mA range: 50-400mA
- mAs range: 1~630mAs
- Exposure time: 0.01~6.3s

## X-Ray Tube

- Model: MXZ1301
- Focus: 0.6/1.2mm
- Voltage: 150 kV
- Anode Angle: 12°
- Anode Heat Capacity: 300kHU
- X-ray Tube Assembly Heat Capacity: 1250kHU



## X-Ray Tube

- Model: GMI XS-1M
- Max. voltage: 150kV
- Irradiation field: 430×430mm (SID=100cm)
- Field light: LED
- Average illumination: >160 lx (SID=100cm)
- Auto turn-off after 30s
- Filter: 0.5/1.0/1.5 mmAl

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## Mobile Rack

- X-Ray Tube column range: 580~1800mm
- X-Ray Tube telescopic arm extension: 720~1220mm
- Column Horizontal Rotation Range:  $\pm 315^\circ$
- Collimator Rotation Range along the vertical axis:  $\pm 90^\circ$
- Backward and Forward X-Ray Tube Rotation:  $-15^\circ$  to  $90^\circ$
- Mobile Stand Size: 1230 × 580 × 1820 mm
- Motorized mobile rack movement
- Battery operated: up to 30km of travel / up to 1000 exposures
- Slope assistance: up to  $12^\circ$  inclines
- Supports complete manual operation
- Anti-collision sensors

## ACCESSORIES

### Optional accessories:

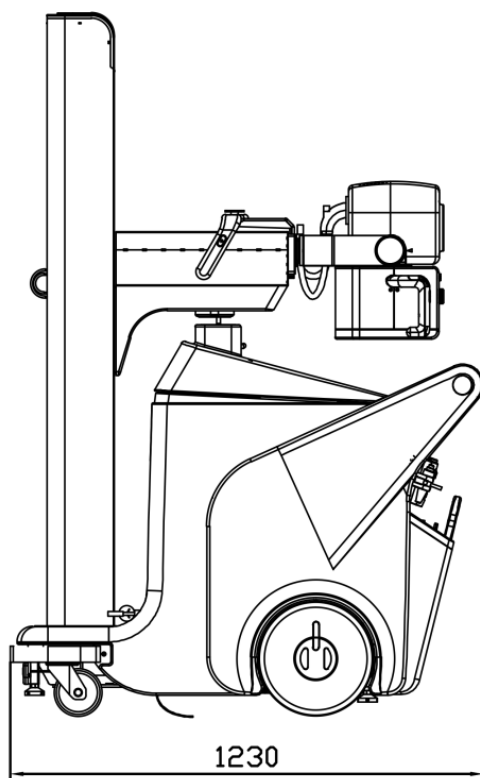
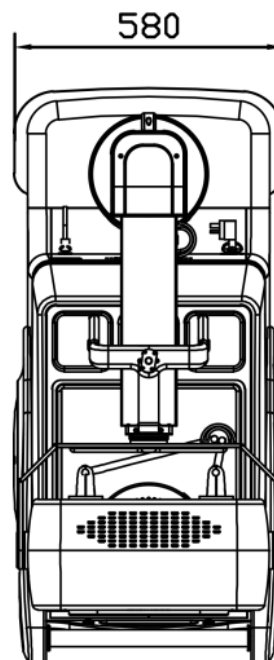
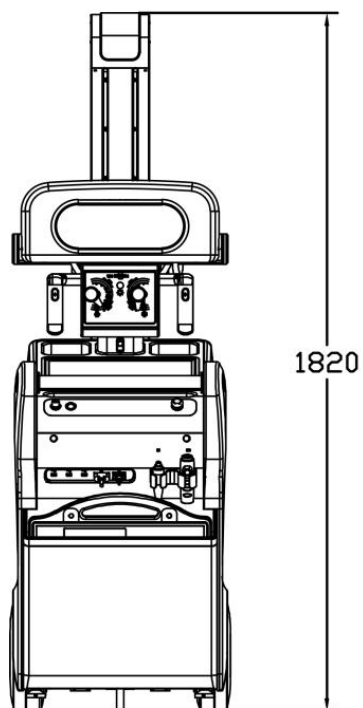
- Remote control Tablet
  - Windows Tablet for remote exposure control and real time image viewing and processing.
- Anti-Scatter grid
  - Different F.D. available for optimal examination results.

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## LAYOUT



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