Beijing Wandong Medical Technology Co., Ltd.

H.F. 40kW Mobile X-ray Unit – Mobilelfin

#3, No.9, Jiuxianqiaodong Road, Chaoyang District, Beijing 100015, P.R. China
E-mail: international@wandong.com.cn Tel/Fax: +86-10-84575792/3/5, 84575794

WDM: A successful journey of more than 60 years

Beijing Wandong Medical Equipment Co., Ltd. (hereinafter referred as Wandong) was established in 1955, and has been listed on the Shanghai Stock Exchange since 1997. Headquartering in High-Tech industrial park in Beijing, Wandong occupies an area of more than 100,000 square meters as its modern production base and R&D center, and has 30+ branches in China and a wide sales and service network in about 70 countries all over the world. With the 60 years dedication to the medical imaging, Wandong has made brand name of "WDM", a well-known brand in the world.

As one of the largest radiology imaging equipment manufacturers in the world, Wandong has wide range of product lines including General Radiography, Mobile X-ray & C-arm, Digital Radiography (DR), Digital Fluoroscopy (DRF), Digital Mammography, Cath-Lab, Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) machine, and the annual production capability is more than 6,000 units.

Mobilelfin Series Mobile Digital X-ray systems

Main purpose： Conventional Radiography for Emergency room; Operating room and Ward, and orthopedics and surgical treatment. Digital high frequency generator, Ergonomics designed, compact structure, wireless large FPD and tablet control based on InvaRay digital imaging platform, brings you with easy operation and maintenance.

I. Configurations:

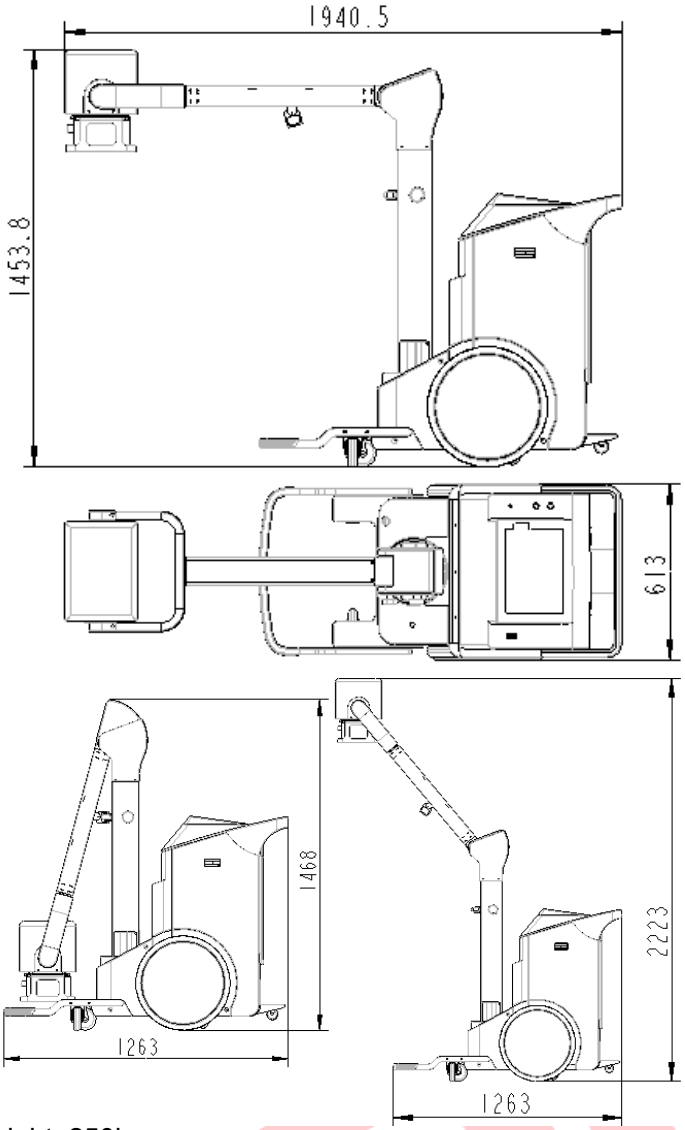
No.	Component	Part Number	Manufacturer	Quantity
1	Mobile Carriage,	YDC-1	WDM	1
2	32kW H.F. Generator	GFS321-2	WDM	1
3	X-ray Tube Assembly	ZJ32-1	WDM	1
4	Collimator	XS1-5	WDM	1
5	FPD wireless	WDF 4335RW	WDM	1
6	Acquisition Workstation	15" tablet computer	-	1
		Software: WD-ACQUIRE MDR	WDM	1

Optional:

No.	Component	Part Number	Manufacturer	Quantity
1	FPD wireless	WDF4343RWi	WDM	1

II. Technical Specification:

Standard configuration

Component	Specifications
Mechanics Structure	**Part Number: YDC-1** Dimensions:  Weight: 250kgs X-ray Tube up-down movement (focus to the floor): 350~2000mm, Manual X-ray tube stand rotation: -90° ～+90° X-ray tube rotation along tube arm: -165° ～+165° X-ray tube pitching angle (rotation along the X-ray tube central axis): -45° ～+90° Approach and departure angles: ⩾5°

High Frequency Generator	**Part Number: GFS321-2** Rated power: 32kW (Max. output 40kW) Radiography kV: 40~125kV; mA Range: 10~400mA mAs: 0.1~320mAs Time of exposure: 1ms~10s Power supply: 220V±10%, 50/60Hz Rechargeable battery for over 1000 exposures
X-ray Tube Assembly	**Part Number: ZJ32-1** Rotary Anode Focal Spot: 0.6mm / 1.3mm Rated power: 11kW/40kW Anode Heat Capacity: 107kHU Target Angle: 16°
Collimator	**Part Number: XS1-5** Manual External dimensions: 185mm×223mm×87mm Projection Field (SID=1000mm): Max.: 440mm×440mm; Min.: <50mm×50mm Rectangular field Operation Mode: Manual Collimator rotation: ±180° Inherent filtration: ≥ 1.0mmAl/75kV Weight: 5.5 kgs
DR Flat Panel Detector	**Part Number: WDF 4335RWi** External dimensions: 460mm×383mm×15mm Weight: 3.1kg Scintillator: GdOS Effective Size: 430x350mm, Pixel Matrix: 3072x2560 A/D converter: 16 Bit Pixel size: 140 microns DQE: 36% (@ 1lp/mm), ≥66% (@ 0lp/mm) Image processing time: ≤ 10 sec Spatial Resolution: 3.4 Maximum weight allowed (uniformly distributed on the surface) 135kg Number of images taken with one charge (1 image per minute) 650~700

	Battery Recharge Time: 2.5~3 hrs Data Interface: GigE/802.11n
Acquisition Workstation	**Hardware: tablet computer** **CPU:** Intel i5 processor **RAM:** 4GB **Hard disk:** ⩾500GB **Display:** 15” touch screen LCD, 1920×1080 **OS:** windows 10 **Software: WD-ACQUIRE MDR** **Image Acquisition:** Acquisition condition setting, mechanical position setting, APR **Enhance Filter:** According to different physiological structure of body parts and different diagnostic request of doctors and different clinical demands, algorithms are optimized towards different body parts. **Image processing:** Window width/ level, Auto window width/ level setting, preview, preset Window width/ level, positive and negative image reversal; Image flipping, rotating, zooming, roaming; Image interpolation edge enhancement, restore original image annotation, Character/ number annotation、image annotation, Tape measurement, area measurement, Auto-shutter **Image Printing:** DICOM Printing, Paper Printing, Manually Select Images Displayed for Printing, One-key Printing of Annotated Images, various printing equipment compatible, Printing in film format, Number of printing, Print Queue Control, Stop/ Start Presetting. **Personalized settings:** format and layout, default settings, toolbar settings **Other functions**: Users can define a display format or layout; various methods can be used to view the images of patients, and the way to look up information can be defined. Reservation function, pixel optimization, the software interface of image processing in diagnostic workstation is in English, supports high-speed transfer of lossless compression, support online decompression.

Optional Components

Component	Specifications
Detector	**Part Number: WDF 4343RWi** External dimensions: 460mm×460mm×15mm Weight: 3.5kg Scintillator: GdOS Effective Size: 430x430 Pixel Matrix: 3072x3072 A/D converter: 14Bit Pixel size: 140 μm DQE: 36% (@ 1lp/mm), ≥66% (@ 0lp/mm) Image processing time: ≤ 10 sec Spatial Resolution: 3.4lp/mm Maximum weight allowed (uniformly distributed on the surface) 135kg Data Interface GigE/802.11n