JOLLY 30 *Plus DR*

Product Data **Digital mobile radiographic unit**

X-RAY GENERATOR	High Frequency monobloc	
	Maximum power	30 kW (300 mA - 100 kV @ 100 msec)
	Maximum voltage	125 kV
	Maximum mAs	300 mAs
	Monobloc thermal capacity	600 kJ (800 KHU)
	Monobloc maximum thermal dissipation	55 W
	Frequency	40 kHz
	kV ripple	< 2%
	Leakage radiation (IEC 601-1-3)	< 1 mGy / h
	Total filtration	> 2.5 mm Al @ 75 kV
X-RAY TUBE	Rotating X-ray tube	IAE X22
	Focal spot size	0.6 mm - 1.3 mm (10 kW / 30 kW)
	Maximum voltage	130 kV
	Anode speed	3000 r.p.m.
	Anode material	RTM
	Anode angle	15°
	Anode maximum heat dissipation	80 kJ (107 kHU)
	Maximum continuous anode heat dissipation	300 W
CONTROL CONSOLE	Microprocessor controller console	
	Display	• Type: 5.7" Colour TFT LCD touch screen display • Resolution: 320 × 240 pixels
	Alarm	Acoustic and luminous X-ray emission alarm
	APR	Languages available • Italian • English • Spanish • French • Russian • German • Bulgarian • Vietnamese • Turkish
OPERATION MODE	3-point operation (kV – mA – time)	kV selection: from 40 to 125 kV [1kV step]
	2-point operation (kV – mAs)	mA selection: from 50 mA to 400 mA [11 steps] Time selection: from 0.002 sec to 6 sec [34 steps] kVp selection: from 40 kV to 125 kV [1 kV step] mAs selection: from 0.5 mAs to 300 mAs [26 steps]
	Anatomical programming	170 stored techniques
	Compensation levels	5 patient's thickness compensation levels
	Output	RS232 for software updating
EXPOSURE CONTROLS	Two modalities	With two push buttons on control console
		Two-step hand switch complete of spiral cable extendable up to 3.8 meters.

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SAFETY AND PROTECTION	Automatic control and protection of the filament current
	Over current protection Overvoltage protection X-ray tube overload protection Monobloc kHU automatic survey Errors description
COLLIMATOR	Manual collimator
	Adjustment from 0x0 to 43x43 cm at 1 m focal distance (FFD) High intensity lamp (160 lux) for X-ray field simulation and automatic switch off after 30 sec. Retractable tape measure for FFD measurement ± 90° collimator rotation
MOBILE STAND	Antistatic rubber wheels
	Dead-man operated parking brake Variable focus-floor distance from 400 mm to 2000 mm Monobloc yoke support rotation: +90° / -90° Monobloc rotation in the yoke: -57° / +167° Overall dimensions in transport position 106 × 68 × 158 (H) cm Weight (without FPD): ~ 180 kg
POWER SUPPLY	Voltage: 230 Vac single phase
	Frequency: 50 Hz (60 Hz on request) Current consumption: 16 A maximum Total line resistance: 0.40 Ohm maximum Automatic line compensation: ± 10% On request: Voltage: 115 Vac single phase Frequency: 60 Hz Current consumption: 25 A maximum Automatic line compensation: ± 10%

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Digital Image System

Digital imaging system for acquisition, reconstruction and image display.
Image processing technology utilizes the lowest possible dose in delivering optimum image quality. Optimized workflow for faster patient throughput

SOFTWARE

Software Features

- User-friendly GUI for easy navigation
- Selectable advanced image enhancement (AIE) for optimal image brightness, contrast and edge enhancement
- Over 500 pre-loaded exam profiles
- Export image to BMP or JPG files
- Auto Region Of Interest (ROI) for optimal display of selected image area
- Automatic image optimization based on customizable acquisition profiles
- Multiple image display (4 on 1 and 16 on 1)
- Thumbnail image display
- Accept/reject functionality
- Auto-system calibration
- "True size printing" – Capability for accurate representation of anatomical size
- Images can be sent to printer, PACS, usb storage memory or cd/dvd
- Background multi-tasking hardcopy, allows simultaneous processing and printing during acquisition
- Language: English, French, Spanish, German, Italian, Portuguese

Image Processing Software

- Brightness and contrast adjustment
- Automatic shutters
- Zoom and pan
- Rotation and imagine flip
- Measurements tools
- Annotations and pointers
- Positive-negative image
- Tech initials

DICOM 3.0 Network Interface

Dicom 3.0 network interface kit includes

- Print class
- Storage class
- MPPS (Modality Perform Procedure Step)
- Storage commitment class
- Query / Retrieve
- Worklist

IHE Integration Profiles

- Scheduled Workflow
- Patient Information Reconciliation
- Portabel Data for Imaging
- Key Image Note
- Consistent Presentation of Images
- Consistent Time

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JOLLY 30 *Plus DR*

Product Data **Digital mobile radiographic unit**

PANEL PC		
	Processor	Intel Core 2 Duo Processor
	Memory	2 GB DDR2 @ 400 MHz
	Hard Disk Drive	SATA Hard Disk Drive 250 GB
	DVD-R/RW CD-R/RW combo drive	Yes
	Operating System	Windows XP Professional for Embedded system
	Local storage of uncompressed images	>10000
	Preview Image	6 seconds
	Full Post Processed Image	<10 seconds
DISPLAY		
	Screen Technology	True Color TFT LCD
	Touch screen	5-wire resistive/ 2040x2048
	Active screen size	483mm (19”)
	Active screen size (H x V)	377 x 304 mm
	Resolution	1 MegaPixel (1280 x 1024)
	Display color	16.7 M
	Viewing angle (H,V)	70°(H)/170°(V)
	Luminance	380 nits
	Contrast ratio	1000:1
ACCESS POINT (OPTION WITH FPD WI-FI)		
	Cisco Aironet 1240AG Series	
	Network Type	Isolated Private Wireless LAN (WLAN)
	Wireless Protocol	802.11 Draft n
	Security	WPA2-PSK AES
	Dimension	16.76 x 21.59 x 2.79 cm

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STANDARD TETHERED FLAT PANEL DETECTOR	Receptor Type	Amorphous Silicon with Charge Well Pixel™ Tech
	Conversion Screen	DRZ Plus Gd2O2S:Tb (Gad Ox)
	Total Area	35.6 x 42.7 cm (14.0 x 16.8 inch)
	Active Area	35.3 x 42.4 cm (13.9 x 16.7 inch)
	Pixel Size (µm)	139
	Total Pixel Matrix	2560 x 3072
	Active Pixel Matrix	2540 x 3052
	Limiting Resolution	3.6 lp/mm
	Energy Range	40 – 150 kVp
	Scan Method	Progressive
	A/D Conversion	14 bit
	Cycle Time (Minimum / Standard)	8 / 10 sec
	Fill factor	100 %
Interfaces	Tethered	10/100 Ethernet
Phisical Characteristics	Size	49.2 x 47.5 x 2.3 cm (19.4 x 18.7 x 0.9 inch)
	Weight (with 8mt cable)	(6.4 ± 0.2) kg
	Housing Material	Molded Polycarbonate
Enviromental	Shock	High-shocl tolerance
	Operating Temperature Range	+10 ° ÷ +35° C
	Storage Temperature	-20° ÷ +70° C
	Humidity (non condensing)	10 to 90 %
Power	Power dissipation	Max 35 W
	Power Supply	100 ÷ 240 Vac — 50/60 Hz

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OPTIONAL:

FLAT PANEL DETECTOR WI-FI

	Receptor Type	Amorphous Silicon on glass - no tiling
	Conversion Screen	Detached Gd2O2S:Tb (Gad Ox)
	Active Area	354 x 425 mm
	Pixel Size (µm)	139 x 139 (Nyquist = 3.6 lp/mm)
	Pixel Matrix	2544 x 3056
	Limiting Resolution	3.6 cyc./mm
	MTF (5 cyc/mm)	83 % Typ.
	DQE (0.5 cyc/mm)	31 % Typ.
	Energy Range	40 – 150 kVp
	Scan Method	Progressive
	A/D Conversion	14 bit
	Cycle Time (Wireless connection)	Shot to Shot 20sec.
Interfaces	Wireless	802.11 Draft n
	Tethered	10/100 Ethernet
Phisical Characteristics	Size	35 x 43 cm Cassette 383x459x15 mm
	Weight	3.86 Kg
	Housing Material	Aluminium
	Sensor Protection Material	Carbon Fiber and Aluminum Plate
	Weight Limit Applied to a single 5 cm point	23 Kg
	Distributed evenly over the detector area	125 Kg
Battery	Technology	Lithium-polymer Technology
	Voltage/Energy	14.8Vdc, 2.1Ah (nominal) capacity
	Images per Charge	~90 images in 4-6 hr period
	Expected Life	500 charge/discarge cycles
	Battery Charger	100-240 Vac, 50/60Hz, 1.0A

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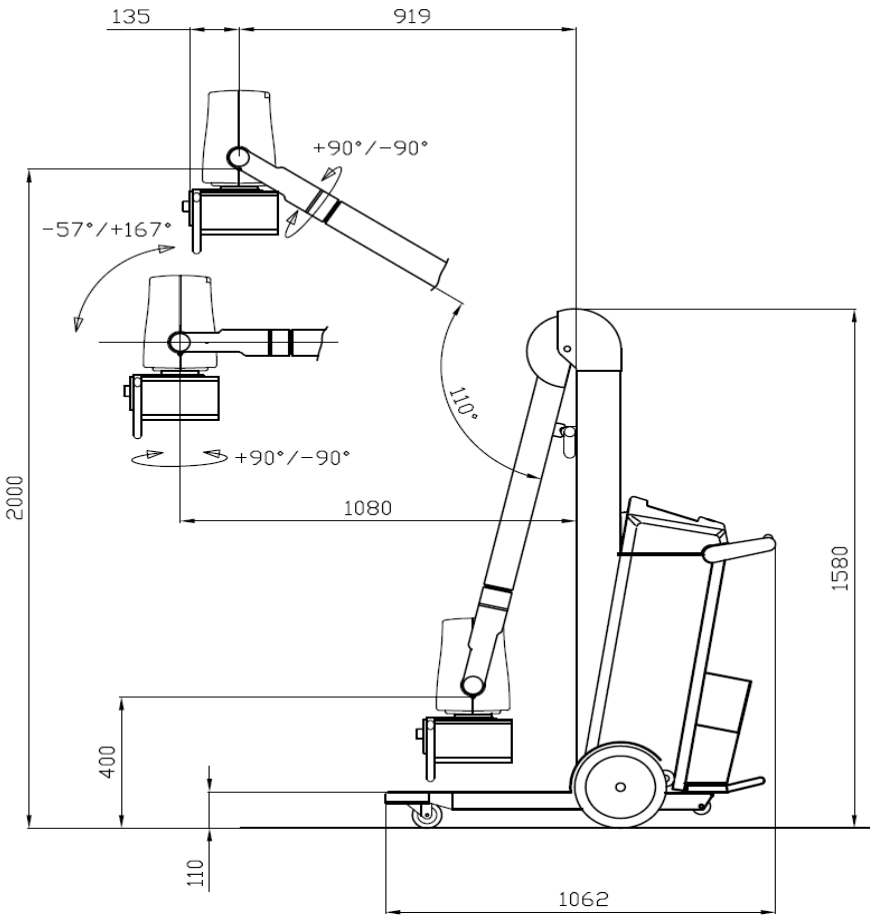
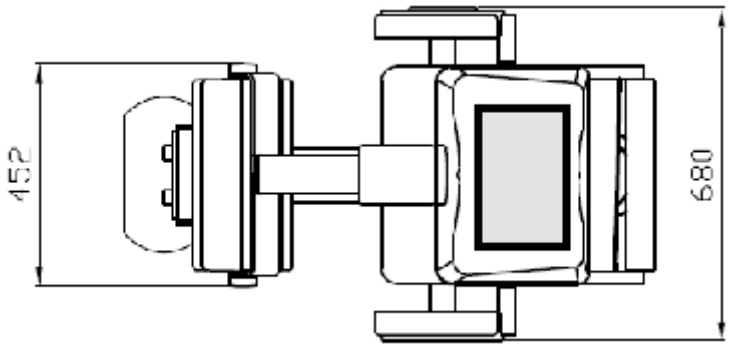
DIMENSIONS





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