MOVIX DREAMY

TECHNICAL SPECIFICATIONS

CANON DIGITAL MOBILE

BATTERY POWERED

HIGH FREQUENCY

X-RAY UNITS







MOVIX DREAMY - DIGITAL RADIOGRAPHIC MOBILE UNIT

The motorised mobile unit is perfectly suitable for the following applications or departments:

- Patient bedside examinations
- In emergency rooms
- ICU department
- Paediatrics





MOVIX DREAMY is the Top of the DIGITAL Radiographic Mobile Systems. With its WIFI portable detector & software, allows us the manoeuvrability and operability that the Clinics and Hospitals demand.

Thanks to the new Telescopic Column, this X-ray mobile can access anywhere and allows the professional a complete visibility and safety when driving the system.

The most innovative technology application for the High Frequency X-ray Generator, which permits high constant output power from any standard power socket or without it (Stand Alone).

Thanks to the battery-charger, the generator can be operated for a long period of time in any Clinic or Hospital area, Operating Rooms, Intensive Care, Emergency, etc. Images can be obtained with the patient in the sitting, standing or lying position.

MAIN DIFFERENCIES BETWEEN MODELS			
ADVANCED	STANDARD		
Head-assembly with integrated touch-screen.	No screen on head-assembly.		
Electromagnetic brakes for omnidirectional head-assembly movements.	Head-assembly movements by friction.		
4 steps telescopic arm.	3 steps telescopic arm.		







OPERATION MOVEMENTS

- New movement control: smoother, safer and very easy to use. Only one hand to move the unit.
- Speed up to 5.5 km/h.
- Dead-man handle with capacitive touch technology. Handle height adjustable with tool.
- > Ramps up to 8°.
- When the system is out of parking position or being moved backwards, the speed is limited.





Anti-collision proximity sensors (optional) and collision detection:

- The mobile system slows down speed automatically when an object is close to it.
- Visual & acoustic indications, when an object comes close to it. When a collision-risk is detected, the mobile will automatically stop.

Maximum Speed (Parking Position)
Forwards: approx. 5.5 km/h
Backwards: 2.5 km/h
Areas with maximum step
5cm (1.9")
Maximum Sliding

PARKING POSITION

Except for radiological examinations, the arm of the mobile unit must always be kept in parking position, the unit is in parking position when the Parking Detent is secure in the Catch.

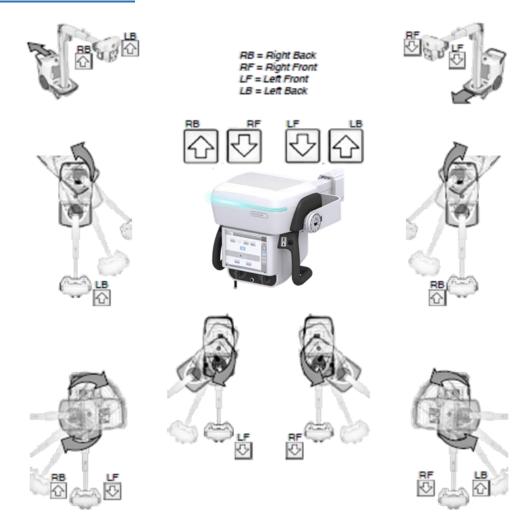
This position (retracted) also reduces the height of the system in order to have complete visibility and safety when driving the system and provides a compact size for handling and storage the system.



Parking Dimensions and weight (H x W x D)	129x122x54cm (50.7x48x21.2")
Height	Max: 223cm (87.8")/ Min: 129cm (50.7")
Weight	520Kg (1,146.4lb)



FINE POSITIONING



- It is possible to move each wheel independently, at low speed, for fine positioning.
- The four buttons on the handgrips control the motion of each driving wheel (forwards / backwards).
 This permits fine positioning respecting the patient, with the operator positioned opposite the Tube-Collimator Assembly.
- * When the mobile is plugged to mains, only fine positioning movements are allowed.

Max. Distance from Focal Spot of X-Ray tube to Floor (SID) Min. Distance from Focal Spot of X-Ray tube to Floor	202 cm (79.5") <53cm (20.8")
Telescopic-Arm Max Distance: Telescopic-Arm Min. Distance (Advanced models) Telescopic-Arm Min. Distance (Standard models)	122cm (48") 62.5cm (24.6") 70.5cm (27.7")
Collimator Rotation:	±90°
Head Rotation around arm axis Head rotation around axis perpendicular to arm	±180° - 30° /+90°
Head Assembly Movement Brakes	Electromagnetic Brakes (Optional on Standard models)





- Head Rotation around arm axis: ±180°
- Detents: 0°.



- Head rotation around axis perpendicular to arm: -30° - +90°).
- Detents: 0°.



- Collimator Rotation: ±90°.
- Detent 0°.



 Electromagnetic brakes for omnidirectional movement (optional).



Telescopic Arm:

Max: 122cm (48")

Min: 62.5cm (24.6") or 70.5 cm

CONTROL PANEL & SWITCHES

- Control Panel, with controls to turn ON/OFF the system, System ON/OFF Indicator, Battery Charge Level Indicator, Emergency Switch OFF.
- Control Console; Head-Assembly Touch Screen (Advanced system).
- Handswitch; Remote Infrared Handswitch (optional).

Column Rotation: ±317°

- Controls for the unit motion and controls for Telescopic Column and Arm movements.
- Manual Collimator with controls for opening or closing the Collimator Blades and to switch ON the Collimator Lamp Battery Charge Level Light Indicators during all charging battery process.
- Button to turn ON the Collimator Lamp from the Control Panel.





X-RAY BATTERY GENERATOR

Power kW	20 kW	32 kW	40 kW	50 kW
kV Range				
go		From 40 kV to 150	kV in 1 kV steps.	
Minimum Power		0.4 kW (40k	Vp 10 mA)	
Input Line Operation	100-240Vac			
Frequency		50/60) Hz	
mAs Range	Pro	duct of mA x Time values	s from 0.1 mAs to 500 mA	As
	10 to	500	10 to 500 (opt	tional to 630)
mA Range	From 10 mA to 320 or 500 mA through the following mA stations: 10, 12.5, 16, 20, 25, 32, 40, 50, 64, 80, 100, 125, 160, 200, 250, 320, 400, 500. (Depending on the Generator model)			
Exposure Time Range	1.0 ms, From 1.0ms to 10,000 ms (0.001 to 10 seconds)			
Power Output (@ 0,1s)	125 kVp @ 160 mA 100 kVp @ 200 mA 80 kVp @ 250 mA 62 kVp @ 320 mA	150 kVp @ 200 mA 128 kVp @ 250 mA 100 kVp @ 320 mA 80 kVp @ 400 mA 64 kVp @ 500 mA	150 kVp @ 250 mA 125 kVp @ 320 mA 100 kVp @ 400 mA 80 kVp @ 500 mA	150 kVp @ 320 mA 125 kVp @ 400 mA 100 kVp @ 500 mA
X ray Tube	XRR3331, focal spots 0.6 and 1.2 mm, anode angle 12°, 300 kHU			
A lay lube	E7886X, focal spots 0.7	and 1.3 mm, anode ang	le 16°, 300 kHU	
Maximum Input Power	1.1kVA			
Operation	Independent from mains supply (Stand-Alone): Standard			ard
Battery Capacity for the Generator	 Charging Time (0-100%): 9 hours approximately Autonomy: 6 hours, in stand-alone Maximum Storage Energy Capacity: 137500 mAs@80 kVp (Maximum energy available for making Exposures and supplying energy to the Generator) 			
Battery Capacity for the Motors	· Autonomy: 4 hours (20Km).			
Operating Environmental Conditions	 Temperature range of 10oC to 35°C. (the recommended temperature for a longer life cycle of batteries is:15°C~ 25°C for Batteries). Relative Humidity (no condensing) range of 30% to 75% Atmospheric Pressure range of 700 hPa to 1060 hPa. 			

Monoblock: without high voltage cables.

- Small size and modular design.
- Faster rise time and drop down in kV.
- Up to 50 kW.
- Models:
 - 20KW. 150KVp.
 - 32KW. 150KVp.
 - 40KW. 150KVp.
 - 50KW. 150KVp.

Tube XR331

Focal spots: 0.6-1.2 mm

Anode angle: 12°

Anode Heat capacity: 300kHU

Tube E7886X

Focal spots: 0.7-1.3 mm

Anode angle: 16°

Anode Heat capacity: 300kHU





USER INTERFACE



- Second screen on head-assembly: 8.4".
- > Led Strip Status light indicators on

head-assembly:

- System Ready.
- Prep/Exposure.
- Operator intervention needed (errors, interlocks, etc.).
- Proximity of objects.
- Acoustic indications (usability settings):
 - Prep/exp, errors, warnings, interlocks.



- Infrared remote control with built-in rechargeable battery for preparation, exposure and collimator light (optional).
- Barcode reader (optional).
- Connectivity:
 - Hospital network:
 - · Wi-Fi connectivity: 802.11ac.
 - Wired connectivity: Ethernet connector (RJ45).
 - 2 x USBs accessible for the operator.
 - Display port connector for an external monitor (optional).
 - *IR sensor for detector registration.
 - 5 m retractable mains cable.

Main screen: 19":

- Standard
 - · Bit Depth 8 bits.
 - · Maximum luminance: 225 cd/m².
- Advanced (optional)
 - · Ambient light presets available.
 - Closed-loop brightness control available.
 - DICOM calibrated luminance.
 - Anti-reflective surface treatment.
 - · Bit Depth 10 bits.
 - · Maximum luminance: 330 cd/m².



Radiographic exposures are controlled by the X-Ray Handswitch:

- PREP.
- EXP: to complete the X-Ray exposure.
- With Collimator Lamp Button to help patient positioning,



^{*}The availability of these options will depend on the model of the detector.



ON / OFF SYSTEM ROUTINE

There are three ways to turn ON the system, depending on the system configuration:

Standard on/off button + login by user/password	2. Numeric keypad for secure on/off.	 3. Smart on/off: Smart Card Users management. Different permissions for: X-Ray operator. Equipment movement. Detector sharing. Power on the unit and log on in one single operation. The detectors are blocked in the back cabinet when the user has no permission. Compatible with smart cards ISO/IEC 4443A and ISO/IEC 14443B.
	123 46 B 78 9	PHOENIX

DETECTOR INTEGRATION



- Front cabinet:
- Storage space for:
- Large detector.
- Small detector.
- · Large detector handle.
- *One charging slot for large or pediatric detector (optional).
- *One additional charging slot for pediatric detector (optional).
- The detectors are blocked in the front cabinet:
- When the system is powered off.
- When the user has no permission (with smart on/off option).
- Back cabinet:
- Two options:
- · Storage space for one panel with or without handle/grid.
- Detector charging slot (optional).
- Detector support for easy bagging.
- *Detector alignment assistance: The system indicates when the head-assembly angle and detector angle are aligned. (optional)(WIP)**.

DETECTOR COMMUNICATION BACK UP CABLE (OPTIONAL)

The communication with the panel is wireless. But, in environments where the wireless connectivity is frequently interrupted (for instance military environments), a backup communication cable may be available, and the panel could be wired connected to the unit when needed. There is a safety plate to store it.

*The availability of this option will depend on the model of the chosen detector.

^{*}The availability of this options will depend on the model of the detector.



STORAGE SPACES



COLLIMATOR

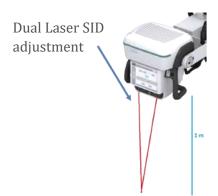
FOR MOVIX DREAMY STANDARD

- Manual without filters.
- Manual with motorized filters & dual laser for optical SID adjustment

FOR MOVIX DREAMY ADVANCED (WITH SECOND SCREEN):

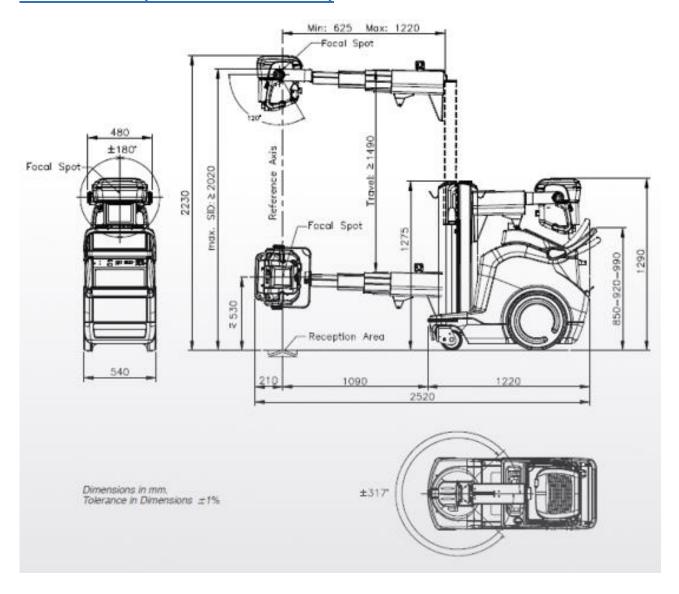
- Manual with motorized files & dual laser for optical SID adjustment.
- Manual with motorized files & dual laser for optical SID adjustment & dual side shutter control (front and back).

DAP chamber integrated inside the collimator (optional).





DIMENSIONS (ADVANCED MODEL)





DIMENSIONS (STANDARD MODEL)

