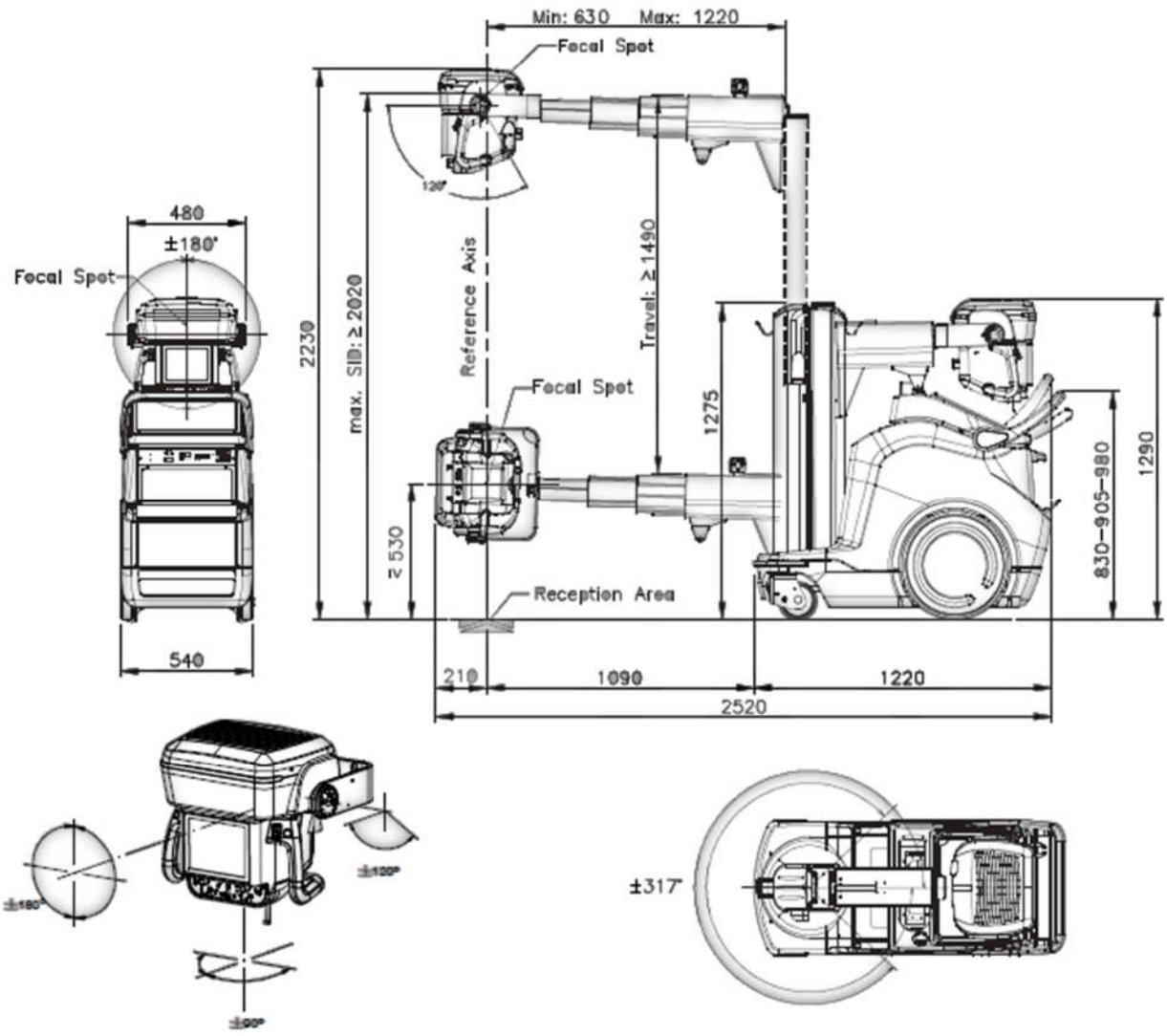
## Advanced Digital Mobile System

Advanced tube head with integrated touchscreen, electromagnetic locks with omni-directional movement
Telescopic arm with four sections, telescoping and rotating column (317°)
Control console with 19” color touchscreen
Single-handed maneuverability using dead-man handle with capacitive touch technology
Motor-assisted driving with energy recovery technology

## Size, Reach, and Motion




| | |
|---|---|
| Max. Distance from Focal Spot of X-Ray tube to Floor (SID) | 202 cm (79.5”) |
| Min. Distance from Focal Spot of X-Ray tube to Floor | 53cm (20.8”) |
| Vertical Travel (X ray beam parallel to the floor) | 149cm (58.6”) |
| Telescopic-Arm Max Distance: | 122cm (48”) |
| Telescopic-Arm Min. Distance | 63 cm (24.8”) |
| Telescopic-Arm displacement | 59 (23.2”) |

| | | |
|---|---|---|
| Collimator Rotation<br>Detent |  | ±90°<br>0° |
| Head Rotation around arm axis<br>Detents |  | ±180°<br>-90°, 0°,+90° |
| Head rotation around axis perpendicular to arm<br>Detent |  | - 30° /+90°<br>0° |
| Head Movement Brakes |  | Electromagnetic; Omni-directional Movement |

## Park Position

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|---|---|
| Dimensions (HxWxD) | 129x122x54cm (50.8x48x21.2”) |
| Height | Max 223 cm (87.8”)<br>Min 129 cm (50.8”) |
| Weight | 520 kg (1146.4 lb) |

## Driving Movement

Single-handed operation using dead-man handle with **capacitive touch technology**.

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|---|---|
| Maximum Speed (Parking Position) | Forwards: approx. 5.5 km/h<br>Backwards: 2.5 km/h |
| Column Rotation | ±317° |
| Areas with maximum step | 2cm (0.8”) |
| Maximum Grade | 8° |

## Generator

40 kW standard; 20, 32, and 50 kW available

| | |
|---|---|
| **GENERATOR TYPE** | **BATTERIES & STAND ALONE, SINGLE PHASE, HIGH FREQUENCY, LOW SPEED, 1 TUBE** |
| **INPUT LINE OPERATION** | 100/240Vac |
| **FREQUENCY** | 50/60kHz |
| **MAXIMUM POWER kW** | 40 kW (according to IEC definition (0.1s, 100kV) |
| **MINIMUM POWER** | 0.4 KW (40kVp 10mA) |
| **kVp RANGE** | From 40kVp to 150kVp. In steps of 1kVp |
| **mAs RANGE** | From 0.1mAs to 500mAs in 38 steps, Renard10 Scale. |

| | |
|---|---|
| **mA RANGE** | From 10 mA to 500 mA in 18 steps, Renard10 Scale.<br>10,12.5,16,20,25,32,40,50,63,80,100,125,160,200,250,320,400,500 |
| **EXPOSURE TIME RANGE** | 1.0 ms, From 1.0 ms to 10.000 ms (0.001 to 10 seconds)<br>Maximum Exposure Time Range for DR: From 1 ms to 2.5 seconds |
| **POWER OUTPUT**<br>**(@ 0.1s)** | 150 kVp @ 250 mA<br>125 kVp @ 320 mA<br>100 kVp @ 400 mA<br>80 kVp @ 500 mA |
| **RIPPLE FACTOR** | < 4 % |
| **ACCURACY KVP** | ± (3 % +1kV) |
| **AUTOMATIC COMPENSATION LINE** | ±10VAC |
| **DUTY CYCLE** | 18 exposures per hour at maximum mAs (lapse time between exposures: 3min.) |

## Tube – E7886

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|---|---|
| **Maximum Voltage** | 150 kV |
| **Focus sizes** | • Small Focus 0.7 mm<br>• Large Focus 1.3 mm |
| **Maximum Power** (at 0.1s) | • Small focus 17 kW (60 Hz), 28 kW (180 Hz)<br>• Large focus 40 kW (60 Hz), 64 kW (180 Hz) |
| **Maximum Current** | • Small focus 280 mA<br>• Large focus 550 mA |
| **Anode degree target angle** | 16° |
| **Anode heat capacity** | 300 kHU |
| **Anode Heat Dissipation Capacity** | 73.56 kHU/min |
| **Housing Heat capacity** | 1500 kHU. |
| **Housing Heat Dissipation Capacity** | 8.46 kHU/min. |
| **Anode rotation** | 2700rpm (50Hz), 3200rpm (60Hz) |
| **Anode composition** | Tungsten |
| **Anode Diameter** | 74 mm |
| **Filtration equivalent** | 0.9 mm Al equivalent (at 75kV) |

## Collimator

| | | | |
|---|---|---|---|
| Square Field | Max FOV 43x43cm at SID 1meter | LED Light Field | · High Luminosity (High White LED wit electronic timer).<br>· Over 200LUX Guaranteed at 1m |
| Radiation Leakage Protection | · 150kVp | Measuring Tape | · Included for SID Measurements |
| Inherent Filtration Equivalent at | · 2mm AL | Collimator Lamp Button and laser activation | · To turn on the collimator lamp and laser lights. |
| Dual Laser | The projection of a single line means that the two lines overlap and consequently the lasers are correctly focused at 1m SID. | Additional Variable Filtration  | · Motorized<br>· 1mm AL + 0.1mm Cu<br>· 1mm AL 0.2 mm Cu<br>· 2 mm AL |
| Installation | Touch Screen integration | Shutters | · 6 pairs of shutters |
| Control of Shutters | · By knobs located on the front and rear side of the unit. | | |

## Detector – 1417X or 1717X Available

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|---|---|
| Detector Technology | Amorphous Silicon (a-Si) TFT |
| Scintillator | CsI (Cesium Iodide) |
| Active Area | 350x430mm OR 430x430mm |
| Pixel Matrix | 3500 x 4300 OR 4267x4267 |
| Pixel Pitch | 100 µm |
| AD Conversion | 16bit |
| Battery Capacity | 8.5h |
| WiFi | 2.4G and 5G |
| Trigger Mode | • Software (with Auto-Exposure Detection).<br>• AED (Optional). |
| Dimensions | 384x460x15mm (1417) OR 460x460x15mm (1717) |
| Weight with battery | 3.0 kg (1417) OR 3.4 kg (1717) |
| Drop Monitoring | Realtime |
| Static Loading | 300 kg (over the surface) |
| Ingress Protection | IP56 |
| Drop Height | 100cm @3mm PVC |
| MTF (LP/mm (@RQA5) | 70% (1 lp/mm), 40.4% (2 lp/mm), 22.8% (3 lp/mm), 8.2% (Nyquist) |
| DQE (LP/mm (@RQA5) | 73.4% (0lp/mm), 55.9% (1 lp/mm), 40.4% (2 lp/mm), 28% (3 lp/mm), 8.1% (Nyquist) |
| Operating Temperature | 10-40 °C |
| **BATTERIES** | |
| Rated Capacity | Min 4700mAh, Typ. 4900mAh @ Discharge 0.2C |
| Nominal Voltage | 11.55V |
| **BATTERY CHARGER** | |
| Simultaneous Charging | Pack of 2 batteries |
| Full charging time | 4 hours (0-100%) |
| Rated power supply | 24V(DC) |

## Batteries – Generator and Motor Separate Arrays

**OBM (Optimized Battery management):** Extended lead acid battery **l**ife thanks to the optimized battery management.

**Energy Recovery Technology:** Braking recharges the batteries
**Capacity per battery:** 15 Ah.
**Total energy storage capacity:** 5760Wh.
**X-Ray Exposure Autonomy:** More than 800 exposures (80 kV - 400 mA - 5ms).
**Autonomy:**

- More than 11 hours in stand-by (system ready to work).
- More than 25 km @ 5.5 km/h.
- Up to 1 km moving the unit once the exposure capacity is exhausted.

**Power Line/Charging Time:**

- 100-120VAC 50/60 Hz, 10A max; Supply cable provided with USA standard 120VAC plug.
- ~8 hours to charge 100%.
- ~20% charge every hour for the first 4 hours.

**Charging Immediacy:** Allows exposures as soon as it is plugged in**.**