

Z-MOTION U-ARM Digital X-Ray System

| Z-Motion Motorized Stand | |
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| Motorized movements | 4 movements with electric brakes and clutches |
| Vertical motion range | 125 cm (47.25") |
| Adjustable SID | 100 to 200 cm (39.4" to 78.7") |
| Arm rotation | -45 to +135 degrees |
| FP detector tilt | -45 to +45 degrees |
| X-ray tube rotation | -90 to 90 degrees (non-motorized) |
| Manual movement | Counterbalanced vertical and rotational movement in most positions |
| Total assembled weight | Approximately 400 kg (880 lbs) depending on accessories |
| Minimum ceiling height | 2400 mm (94") |
| Operator Control | |
| Tube size control | 7" wide screen LCD with automatic image rotation |
| Manual controls | Fully configurable brake release switches at detector and tube side |
| Remote control | Bluetooth remote with 3 x AA batteries |
| Emergency | STOP controls on LCD and remote plus emergency switch |
| Flat Panel Detector | |
| Choice of technology | CsI or Gd ₂ O ₂ S scintillator Amorphous Selenium/Amorphous silicon substrate |
| Pixel count | 3072 x 3072 (9 MP) |
| Pixel pitch | 139 to 143 μm* |
| Active detector area | Approx. 430 x 430 mm (17" x 17") |
| Theoretical spatial resolution | Approx. 3.6 lp/mm |
| DQE | 70% typically (depending on flat panel type) |
| MTF @ 2 lp/mm resolution | 36% typically (depending on flat panel type) |
| Energy range | 40 to 150 kVp |
| Anti-scatter Grids (2 included) | |
| Type and operation | Focused grid, stationary |
| Dimensions (active area) | At least 430 x 430 mm (17" x 17") |
| Grid resolution | 215 lp/mm |
| Focal distance range | 100 to 180 cm (40" to 72") across the two grids |
| AEC Detector (optional) | |
| Type | 3-filed ion chamber with built-in preamp |
| X-ray Generator (MS HF Series) | |
| Frequency/operation | 100 kHz high frequency |
| Power output | 32 / 40 / 50 / 65 / 80 kW |
| kV range | 40 to 150 kVp, all models |
| Max mA @ 80 kV | 400 / 500 / 600 / 800 / 1000 mA |
| mAs range | 0.5 to 600 mAs |
| Exposure time | 0.001 to 6 sec |
| Configuration | Single tube, radiographic mode |

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| Anode rotation | Low speed or optional dual-speed |
| Dose area product recording | Available (manual entry or automatically through serial interface) |
| X-ray Tube | |
| Default X-ray tube | 0.6/1.2 mm focus, 18/50 kW, 300 kHU 12 degree target angle |
| HV cable | 10m standard (longer cable pairs available) |
| Beam Limiting Device | |
| kV range | 40 to 150 kVp, lead shielded |
| Operation | Manual square filed multilayer |
| Illumination | Min. 160 lux (bulb or LED type) |
| Imager coverage | 430 x 430 mm (17" 17") @ SID = 100 cm (40") |
| Acquisition Workstation | |
| Connectivity | DICOM 3.0 compatible |
| Generator control integration | Included |
| Standard modules | Diagnostic viewer, worklist query, DICOM print, emergency patient workflow, customizable processing profiles, local image storage |
| Optional modules | Additional viewing stations, DICOM send, patient CD, PACS server and more |
| Hardware | Dual core or better processor, 2GB RAM, 500GB or more hard disk storage, optical drive, all-in-one 19" touch screen operation |
| Optional hardware | <ul style="list-style-type: none"> • Uninterrupted power supply • Extra HDD storage and memory • Medical grade diagnostic monitor |
| Certification | |
| CE certified | ISO and CE certified, pending FDA approval |