



SAMPLE DATASHEET

Ref: VEL-MED-DR-65-2026

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VELORA

Digital Radiography X-Ray System — 65 kW

High-frequency DR system with wireless flat-panel detector ·
DICOM 3.0 · CE-marked.

GENERATOR

65 kW · 150 kV

DETECTOR

17" × 17" wireless

STANDARD

IEC 60601 · ISO 13485

Engineering-Driven Supply.

Velora Engineering & Trading PLC · Addis Ababa, Ethiopia · www.veloraet.com

SAMPLE / INDICATIVE DATASHEET — actual specification confirmed at quotation

Digital Radiography (DR) X-Ray System — 65 kW

High-frequency generator · floor-mounted tube stand · flat-panel detector · DICOM 3.0.

1. System Summary

Application	General radiography (chest, skeletal, abdominal)
Configuration	Floor-mounted tube stand · wall stand · 4-way bucky table
Generator	65 kW · high-frequency · 40 – 150 kV · 10 – 800 mA
Detector	17" × 17" wireless flat panel (CsI scintillator)
Image Resolution	≥ 3.6 lp/mm · 16-bit greyscale
Reference Code	VEL-MED-DR-65-2026

2. X-Ray Tube

Type	Rotating anode, dual-focus
Focal Spot	0.6 / 1.2 mm
Anode Heat Capacity	≥ 300 kHU
Tube Voltage Range	40 – 150 kV
Cooling	Oil-immersed forced convection

3. Detector & Workstation

Detector Type	Wireless flat-panel CsI
Pixel Pitch	140 µm · ≥ 6 lp/mm Nyquist
DQE	≥ 65% @ 1 lp/mm (RQA-5)
Workstation	Medical-grade PC, 24" 3MP greyscale monitor
Software	Acquisition, post-processing, DICOM 3.0 worklist/store/print

4. Safety & Radiation Protection

Collimator	Manual / motorised, with light-field indicator
Filtration	Total ≥ 2.5 mm Al equivalent
Leakage Radiation	< 1 mGy/h @ 1 m (per IEC 60601-1-3)
Operator Console	Behind shielded barrier · key-locked exposure switch

5. Electrical & Site Requirements

Power Supply	400 V · 3-phase · 50 Hz · ≥ 80 A breaker
Earthing	Dedicated PE bond per IEC 60364
Room Size (typical)	≥ 4.5 × 5.5 m with 2.0 mm Pb wall shielding
Environment	18 – 28 °C · 30 – 75% RH

6. Compliance & Standards

- ISO 13485 — Quality management for medical devices.
- EU MDR 2017/745 — CE marking for medical devices.
- IEC 60601-1 / 60601-1-3 / 60601-2-54 — Safety of medical electrical equipment.
- DICOM 3.0 — Digital Imaging and Communications in Medicine.

7. Documentation Provided

- CE certificate, Declaration of Conformity and ISO 13485.
- System datasheet, IFU and service manual.
- Site planning, shielding and electrical drawings.
- Acceptance test, calibration and operator training records.

Sample configuration. Final make, model and accessories are confirmed against the facility specification at quotation.