



Wellmed Pro | Wellview Universal Group

TECHNICAL DATA SHEET

Dual-Energy X-ray Bone Densitometer YSDXA-6

I. Device Name: Dual-Energy X-ray Bone Densitometer

II. Device Functions:

Bone Mineral Density (BMD) Measurement: Lumbar spine, femur, forearm (T-score/Z-score analysis)

Whole-Body Body Composition Analysis: Precise bone mass evaluation, prevention, and diagnosis

III. Technical Parameters

1. X-ray System

1.1 Scanning Mode: Fan beam, continuous scanning

1.2 Measurement Sites: Lumbar spine, femur, forearm

1.3 Dual-Energy Generation: Dual-energy exposure (high/low kV switching)

1.4 X-ray Tube Voltage Range: 70-110 kV

1.5 Maximum Output Power: 275 W

1.6 Maximum Tube Current: 2.5 mA

1.7 Tube Current Modes:

Mode 1: 2.5 mA

Mode 2: 1 mA

Mode 3: 0.5 mA

1.8 Cooling System: Oil + air cooling

2. Detector

2.1 Type Detector: Gadolinium oxysulfide (GOS) scintillation detector

2.2 Channels Detector: 16

3. Scanning System

3.1 Scan Bed Dimensions: Length 252 cm × Width 119 cm

3.2 Patient Weight Capacity: 210 kg

3.3 Maximum Scan Area: 202 cm × 60 cm

3.4 Scan Time per Site:

Lumbar spine: 21 sec

Femur: 21 sec

Forearm: 19 sec

3.5 Positioning: Laser-guided positioning

4. Calibration System

4.1 Calibration Time: 20 min per cycle

4.2 QC Software: Quality control test program + trend analysis

4.3 Calibration Module: QA phantom calibration

4.4 Repeatability: Coefficient of Variation (CV) $\leq 1\%$

4.5 Accuracy Diviation: $\leq \pm 5\%$

5. Software Package

5.1 Operating Software: Full Chinese interface

5.2 Multi-Site Integrated Reporting: Combines results from multiple sites into a single report

5.3 Reporting Software: Generates image/data reports with editing capabilities

5.4 Ethnic Databases: Chinese, Caucasian, African, Asian

5.5 Automated Bone Edge Detection: Auto-ROI (Region of Interest) definition

5.6 Real-Time Scan Adjustment: Fine-tune scan positioning via software

5.7 Trend Analysis: Long-term BMD tracking

5.8 DICOM 3.0 Support: Seamless PACS integration

6. Clinical Functions

6.1 Whole-Body Assessment & Body Composition Analysis:

Color-coded body composition mapping

Fat mass, lean tissue, muscle mass, fat percentage

6.2 Lumbar Assessment: AP lumbar spine measurement

6.3 Femur Assessment: Bilateral femur measurement

6.4 Forearm Assessment: Forearm measurement

6.5 Hip Analysis: Extended Gruen zonal analysis (19 zones)

6.6 Metal Artifact Reduction: Eliminates interference from prostheses, implants, etc.

6.7 One-Position Multi-Scan: Single positioning for lumbar spine + bilateral femurs

6.8 Camera-Assisted Positioning: Enhances patient alignment accuracy

6.9 Lateral Vertebral Assessment: BMD measurement and morphological analysis

Panama | Central America | Caribbean | CARICOM

Information from the authorized catalog. Confirm configuration, accessories and documentation in the quotation.

Assisted translation: review the manufacturer specifications before purchasing.