

Bone & Metabolic Health

Prodigy from GE Healthcare

Performance and reliability with one of the largest installed base DXA systems in the world

gehealthcare.com

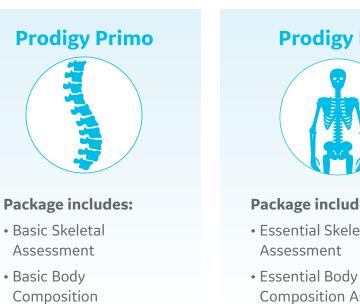
Prodigy software packages - Customized to suit your needs

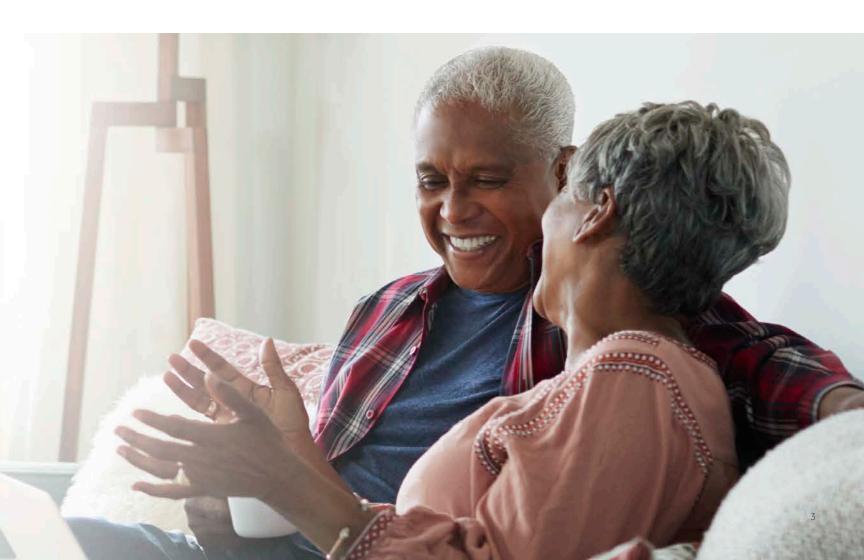
Prodigy

High performance, efficient and reliable DXA system with the versatility to offer bone density test and body composition analysis. Prodigy systems provide the option to scale up to a wide-range of clinical applications.



Your practice demands dependable dual-energy X-ray absorptiometry (DXA) assessment, and Prodigy delivers with exceptional precision and low-dose radiation. You can depend on Prodigy to provide precise data on bone and soft tissue composition, including bone-mineral density (BMD), lean- and fat-tissue mass, and percentage of fat. At the same time, Prodigy helps streamline your patient care and practice workflow.





Prodigy Pro



Package includes: • Essential Skeletal

Composition Assessment

Pediatric Measurements

Prodigy Advance



Package includes:

- Advanced Skeletal Assessment
- Advanced Body **Composition Assessment**
- Pediatric Measurements
- Multi-User Database

Solid performance makes Prodigy chosen worldwide

Prodigy is our proven and dependable DXA product with a large global installed base across 120+ countries.

Clinicians. Researchers and Practitioners have trusted the Prodigy DXA system for more than 20 years making it one of the largest selling DXA systems in the world.

Prodigy with enCORE v18 software enables you to meet ISCD testing guidelines

ISCD indications for Bone Mineral Density (BMD) testing:

- Women 65 and older
- Men 70 and older
- Post-menopausal women with a risk factor:
- Low body weight
- Prior fracture
- High risk medication use

- Adults taking medications associated with low bone mass or bone loss
- Adults with disease or condition associated with low bone mass or bone loss

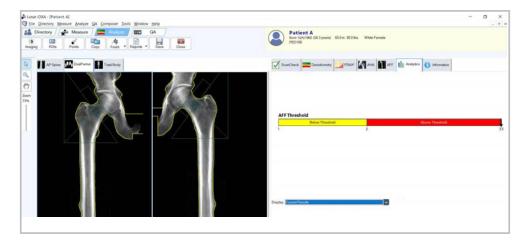
ISCD guidelines for BMD testing available at ISCD.org



Prodigy for Bone Health

Prodigy's reliable design and robust technology platform supports a comprehensive portfolio of clinical applications for bone health.

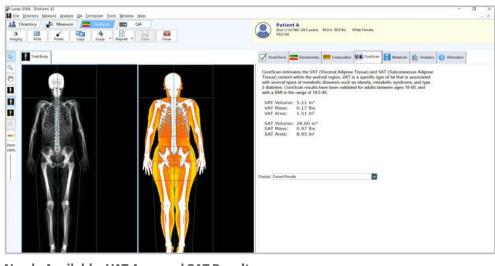
- Bone Mineral Density
- FRAX
- Trabecular Bone Score (TBS)
- DVA (includes LVA, APVA and Lateral BMD)
- Atypical Femur Fracture and more



Prodigy for Metabolic Health

Prodigy offers a wide range of clinical applications for metabolic health needs.

- Total Body Composition
- CoreScan
- Sarcopenia
- Fat Color Coding
- Custom Reference Population
- Option to Integrate Hydration Levels from BIA/BIS (TBW, ECW, ICW) to have 5 compartment models (LM, FM, BMC, ECW, ICW) and more



Newly Available: VAT Area and SAT Results

BMD Insights using AFF User Customizable Threshold

A Few of our Newest Applications

A wide breadth of applications and features



Trabecular Bone Score - Integrated TBS¹

Provides TBS score based on assessment of trabecular region of bone, including FRAX-adjusted TBS. Includes TBS license. Complimentary 60-day TBS software trial program available for new TBS customers.



DXAVision[™]

Provides one unified workflow and comprehensive reporting for BMD, AFF, VAT and SAT.² Designed to improve operator efficiency with a scan time up to 40% faster.³ Includes Total Body and Smaller Body (ROI) Composition, Total Body Less Head (TBLH) and Neck-to-Knee for Adults.



Neck-to-Knee for Adults⁴

Performs a faster scan by omitting head and lower legs, providing an estimate of total body composition.

Total Body Less Head (TBLH) for Adults⁵

Including the skull can mask changes occurring in other areas of the skeleton; this tool automatically performs a scan from the neck down. Can also get TBLH results for scans with the head included.



CoreScan with VAT and SAT Results

CoreScan estimates Visceral and Subcutaneous Adipose Tissue (VAT and SAT) mass, volume and area within the android region. Values can be displayed in userdefined statistical formats and trends.

Sports Athletics Package



Includes TBLH (Total Body Less Head) for Adults and Smaller Body Comp - ROI to easily scan and report on specific Regions of Interest. Facilitates study of localized changes in body composition.



Smaller Body Composition (Regions of Interest)⁵

Monitor and report on Regions of Interest (ROI) including upper arm, lower arm, upper leg and lower leg, to study changes in body composition in these regions.

Provides deep BMD and Body Composition

insights with custom equations, metrics

and ratios based on 200+ DXA bone and

body composition parameters. User-defined



classification thresholds, trending and reporting. ------



Customizable Thresholds (AFF and VAT)^{6,7,8}

Advanced Analytics

Enables setting of custom thresholds to search for correlations: between "beaking" and the probability of AFF, and between VAT and the probability of metabolic disorders.

Composer Reporting

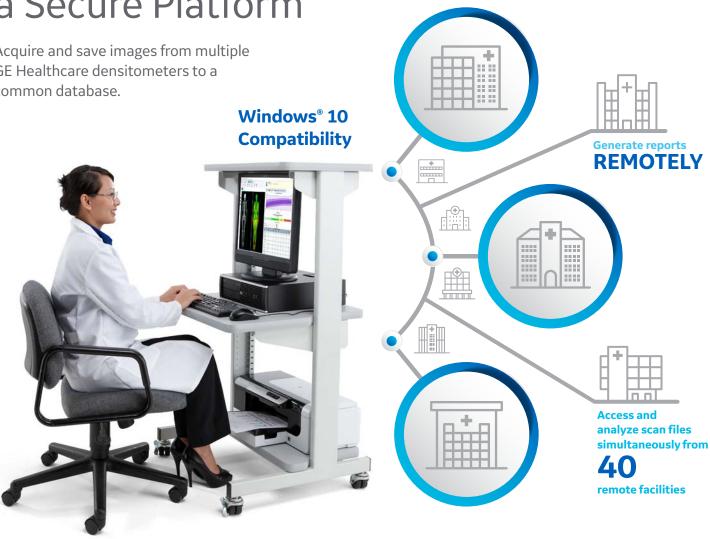
Provides default style sheets, which can be edited using an intuitive WYSIWYG interface to quickly produce customized reports and templates.

Advanced Cybersecurity

Advanced cybersecurity features that meet U.S. Department of Defense Risk Management (DoD RMF) requirements.

Multi-User Database with a Secure Platform

Acquire and save images from multiple GE Healthcare densitometers to a common database.



Advanced security features protect your data.

Security Feature	Provided Benefit
IPv6 for DICOM and HL7	Communication protocol integra
FIPS 140-2 Encryption	Federally compliant encryption s
Audit Trails	Logs information related to: • Software configuration and use • Database events including aut • Events supported by the DICOI
TLS for DICOM®	Provides security at the transpor authentication. TLS is an updated



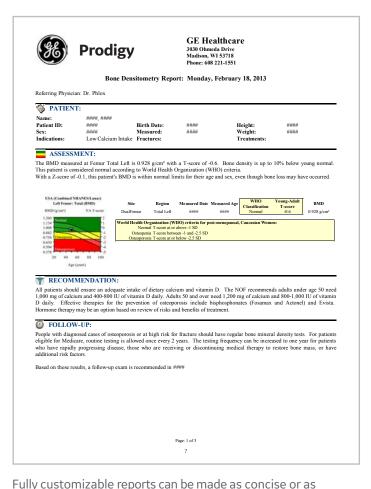
ating IPSec for better security during data exchange

standard that protects patient exam files using 256-bit encryption

ser access changes, destination IP addresses thentication, patient modification/deletion M Audit Trail Profile

rt layer of a DICOM transaction by using encryption and node d, more secure, version of the SSL protocol.

Detailed assessment in just a few clicks



Treatment recommendations designated by the physician are automatically added and can include society guidelines.

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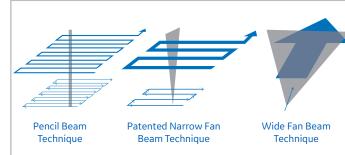
OneScan performs spine and dual femur BMD measurements in a single protocol without repositioning.⁹ Results print in a one-page report.

Robust Technology Foundation

Third generation DXA technology - with over 30 years of innovations

Patented Narrow Fan Beam Scan

Combining the features of pencil beams and wide fan
beams, Narrow Fan Beam technology offers a shorter
scan time with reduced magnification error (inherent
to wide-angle fan beam scans).Our SmartScan technology reduces scan time and
X-ray dosage by identifying bone regions after each
transverse sweep and estimating where to begin
scanning on the subsequent sweep.



Low-Dose Photon Counting Technology

Dose-efficient photon counting detector technology more efficiently counts X-ray photons, lowering dosage to the patient.

Performance comparison of DXA beam types

	Pencil Beam	Narrow Fan Beam	Wide Fan Beam
Scan time	Long	Short	Short
Bone height measured	No	Yes	No
Magnification effects	No	No	Yes
Off-center distortions	No	No	Yes
Scattered radiation	Lowest	Low	High



General purpose business reporting tools help you manage your practice. Prodigy will automatically:

- Generate referring physician letters
- Analyze populations and trends
- Export data to tab-delimited text files for use in Microsoft Excel®

detailed as needed.

Innovative SmartScan™



K-edge Filter

An exceptional "K-edge filter" that creates a dual energy beam and absorbs the X-rays in the middle energy range and protects the patient against unnecessary exposure.



Multi-View Image Reconstruction (MVIR)

By performing multiple transverse sweeps across the site of interest, MVIR accurately determines bone-height above the tabletop, minimizes magnification errors and provides excellent precision and accuracy.

Low Scattered Radiation

Narrow-fan beam technology results in low scatter radiation in comparison to wide-angle fan beam systems.¹⁰

🖌 Standard 🕒 Optional 🗙 Not Available	Primo	Pro	Advance
AP Spine	 Image: A start of the start of	✓	 ✓
Femur/Dual Femur	 Image: A second s	✓	✓
Forearm/Non-seated Forearm	 Image: A second s	✓	 ✓
Total Body BMD*	 Image: A set of the set of the	✓	✓
FRAX [®] Fracture Risk Tool	 Image: A second s	✓	 ✓
DVO Fracture Risk Tool ¹¹	✓	 ✓ 	✓
Multi-User Database (1-3)	✓	✓	 ✓
ScanCheck	✓	✓	✓
Practice Management	✓	✓	 ✓
Composer Report Tool	✓	✓	✓
OneScan	 ✓ 	✓	 ✓
OneVision	 Image: A set of the set of the	✓	 ✓
Pediatric – AP Spine	•	~	 ✓
Pediatric – Femur	•	~	 ✓
Pediatric – TB (Birth to 20 YO)*	•	~	 ✓
Total Body Composition*	•	~	 ✓
DVA (Includes: LVA, APVA, Lateral BMD)	•	•	 ✓
CoreScan*	•	•	 ✓
Advanced Body Composition ^{12*}	×	•	 ✓
Orthopedic Hip	×	•	 ✓
Advanced Hip Analysis	×	•	 ✓
Orthopedic Knee	×	•	 ✓
Hand	×	•	 ✓
Multi-User Database (Up to 40)	×	•	 ✓
Atypical Femur Fracture	×	•	•
Orthopedic Knee with Positioner	×	•	•
Sarcopenia*	×	•	•
Small Animal	×	•	•
Quick View (10 second scan)	×	×	 Image: A set of the set of the
		,	1
Integrated TBS ¹	•	•	•
DXAVision™	×	•	•
Sports Athletics Package	×	•	•
Advanced Analytics Full	×	•	•
Advanced Analytics Bone	×		

X

CLINICAL APPLICATION

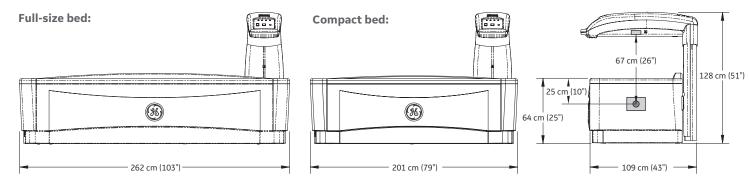
NEW V18 APPLICATIONS

*Not available in Compact size

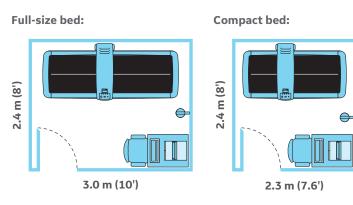
Advanced Analytics Body Comp

Specifications

Scanner dimensions:



Minimum room dimensions¹³:



Scanner table specifications:

Scanner size (full-size bed)
(103" x 43" x 51")
Scanner size (compact bed)201(W) x 109(D) x 128(H) cm (79" x 43" x 51")
Scanner weight (full-size bed)
Scanner weight (compact bed)
Patient table top height64 cm (25")
Drive system stepper motor with reinforced drive belts
Active scan area (full-size bed)
Maximum patient weight supported159 kg (350 lbs)
Active scan area (compact bed)134 cm x 60 cm
Start position indicatorcross laser light (class II, <1 mW power)
Padwashable patient mat
Attenuation of patient support table
Communication cable 7.62 m (25 ft) serial
Scanner leakage current meets IEC 60601-1 safety standard



Computer specifications:

- Intel[®] Core[™] i3 Processor
- Windows[®] 10 IoT Enterprise 64-bit
- RAM 8 GB
- Hard drive 1 TB
- Optical drive DVD-RW
- Monitor 24" SVGA (minimum resolution 1920 x 1080 32-bit color)
- Archive 500 GB USB hard drive
- Adobe[®] Reader[®] DC
- Internet Explorer[®] 11
- Serial port onboard RS-232 115k baud DB
- Windows®-compatible printer

Detector specifications:

Detector LYSO X-ray counting detector

Environmental specifications:

m	Power100-127 VAC 50/60 Hz 20A dedicated circuit
.")	200-240 VAC 50/60 Hz 10A dedicated circuit
s)	Consumption idling 40VA, scanning 450VA
s)	Distortionsinusodal waveform, less than 5% THD
;")	Humidity 20%-80% non-condensing
ts	Room temperature 18°C-27°C (65°F-81°F)
m	Scanner heat output idling 150 BTU/hr, scanning 1500 BTU/hr
s)	Console heat outputapprox. 200 BTU/hr with 24" monitor
m	Ventilation all cooling vents must remain unblocked
er)	Dust, fumes, debris install system in clean, ventilated area
at	

- na AL
- rial
- ard

References:

- 1. Consult for market availability.
- 2. Requires purchase of AFF application and Corescan (for VAT and SAT) application.
- 3. Data on file with GE Healthcare, April 2019.
- 4. Requires DXAVision.™
- 5. Requires DXAVision[™] or Sports Athletics Package.
- 6. Requires Advanced Analytics.
- 7. Customizable Threshold for AFF requires AFF Application.
- 8. Customizable Threshold for VAT requires CoreScan application.
- S.M. Hunt et al, "Changing Bone Densitometers in Clinical Practice: Effect on Precision Error", Presented at the American Society for Bone and Mineral Research Annual Meeting, September 23-27, 2005, Nashville, TN, USA.
- 10. Data on file with GE Healthcare, January 2017.
- 11 German speaking countries only.
- 12. Bone-Lean-Tissue Color Coding, Metabolic Results (ICW, ECW, TBW), Resting Metabolic Rate, Composer Style Sheets – Body Sports Medicine Segmental, Body Patient Weight Loss.
- 13. A small room kit with isolation transformer may be required. Please refer to local regulations.

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