

# **Specifications**

Modularity to Meet Your Evolving Needs



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# **ODR**<sup>®</sup>**4500** Clinical Bone Densitometer

hether you're conducting major research or just beginning to incorporate bone densitometry into your clinical practice, Hologic has a highperformance system to suit your needs. The QDR 4500 family of clinical fanbeam bone densitometers lets you take advantage of advanced technology in a simple-to-use modular system. The QDR 4500 family offers high-quality imaging, high speed, unmatched precision and modularity to meet your evolving clinical requirements today and in the future.

ODD / EOO Corioe I			
QDR 4500 Series L	Jµyıdut Fallı		Supine Lateral Spine
	Body Composition Analysis <sup>†</sup>		Body Composition Analysis <sup>†</sup>
	WholeBody	Supine Lateral Spine	WholeBody
Prosthetic Hip <sup>†*</sup>	Prosthetic Hip <sup>†*</sup>	Prosthetic Hip <sup>†*</sup>	Prosthetic Hip <sup>†*</sup>
Forearm	Forearm	Forearm	Forearm
Hip	Hip	Hip	Hip
Lumbar Spine	Lumbar Spine	Lumbar Spine	Lumbar Spine
QDR 4500 C	QDR 4500 W	QDR 4500 SL	QDR 4500 A

<sup>†</sup>Optional \* For investigational use only in the U.S.A.

### **QDR 4500 Product Specifications**

	X-ray fan beam, utilizing motorized table and C-arm
X-ra	y System:
	Switched-pulse dual-energy (140 kVpeak)
Dete	ector System:
	Multi-element detector array
Sca	tter Dose:
	Less than 1.0 mR/hr (0.01mSv/hr) nominal measured at 2.0m from the examination table for
	most scan modes
Exte	rnal Shielding:
	None required*
BM	) Precision:
	<1.0%
Cali	oration:
	Self-calibrating using patented HOLOGIC Automatic Internal Reference System
	■ Automated Quality Control program ■ Operator calibration <i>not</i> required
Ope	rating Requirements:
	Temperature: 60°-90°F (15°-32°C)
	Power: 100VAC (16A)/120VAC (14A)/230VAC (8A)
	HUMIDITY: 20%-80% relative humidity, noncondensing
	Average Heat Load: 3,400 BTU/hr
Tabl	e Height:
	71cm (28in)
Star	Idard Hardware Configuration:
	Computer worktable with: Pentium II CPU (min) ■6GB (min) hard disk drive ■3.5in 1.44MB floppy
	drive = 104 key enhanced keyboard = Mouse, pad and shelf = 4MB (min) video board = 56K modem
	■ 17in monitor with 1,280 x 1,024 screen resolution and 0.28 dot pitch ■ HP Professional Color
Star	DeskJet <sup>®</sup> printer ■ 3.5in LS120 Superdisk Drive ■ CD ROM dard Software Configuration:
Jidi	QDR for Windows 98  NHANES Standardized Hip Reference Database  QDR OnePage Report
	Context Sensitive Help      Fracture Risk Indication
0	•
Upti	onal Hardware:
	Magneto Optical Disk Storage = HP LaserJet <sup>®</sup> B&W printer (standard on QDR4500 A in U.S.) = Modem = Network
	■ IVIOUEIII ■ INELWOTK

\*Installation requirements for X-ray equipment vary. Check with local regulatory authorities.

## QDR 4500 Typical Performance (60 Hz)\*

	QDR 4	4500 C	QDR 4	1500 W	QDR 4	500 SL	QDR 4	1500 A
Exam	ScanTime	Exposure	Scan Time	Exposure	Scan Time	Exposure	Scan Time	Exposure
Lumbar Spine	30s	10mR	30s	10mR	30s	10mR	30s	10mR
Нір	30s	10mR	30s	10mR	30s	10mR	30s	10mR
Lateral Spine					120s	35mR	120s	35mR
Forearm	30s	10mR	30s	10mR	30s	5mR	30s	5mR
Whole Body			6.8min	1.5mR			180s	1mR

<sup>†</sup>Optional \*50Hz and other scan modes available.

## Specifications According to Model

	QDR 4500 C	QDR 4500 W	QDR 4500 SL	QDR 4500 A
Scan	• PA lumbar spine	•PA lumbar spine	•PA lumbar spine	•PA lumbar spine
Sites	<ul> <li>Proximal femur (hip)</li> </ul>	<ul> <li>Proximal femur (hip)</li> </ul>	<ul> <li>Proximal femur (hip)</li> </ul>	<ul> <li>Proximal femur (hip)</li> </ul>
	•Forearm	•Forearm	•Forearm	•Forearm
		•Whole body	•Supine lateral lumbar spine	•Supine lateral lumbar spine
				•Whole body
Scan	■38" x 20"	■77" x 26"	•38" x 26"	■77" x 26"
Region	(96cm x 51cm)	(195cm x 65cm)	(96cm x 65cm)	(195cm x 65cm)
Footprint	•79.5" x 55"	•79.5" x 48"	■79.5" x 55"	•79.5" x 55"
·	(2.02m x 1.40m)	(2.02m x 1.22m)	(2.02m x 1.40m)	(2.02m x 1.40m)
		•119" x <mark>59"</mark>	■79.5" x 59"	•119" x 59"
		(3.02m x 1.50m)	(2.02m x 1.50m)	<b>3.02m x 1.50m</b>
		(table extended)	(c-arm rotated, table extended)	(c-arm rotated, table extended
System	•Table/C-arm	■Table/c-arm	•Table/C-arm	• Table/C-arm
Weight	650lb (295kg)	680lb (310kg)	800lb (365kg)	800lb (365kg)
	•Control console	•Control console	•Control console	•Control console
	150lb (68kg)	150lb (68kg)	150lb (68kg)	150lb (68kg)
Optional	•General Region of Interest	•General Region of Interest	•General Region of Interest	•General Region of Interest
Software	•DICOM	•DICOM	•DICOM	•DICOM
	■Metal Removal*	■Metal Removal*	•Metal Removal*	•Metal Removal*
		<ul> <li>Body Composition Analysis</li> </ul>	<ul> <li>Quantitative Morphometry</li> </ul>	<ul> <li>Body Composition Analysis</li> </ul>
				<ul> <li>Quantitative Morphometry</li> </ul>
				•Small Animal

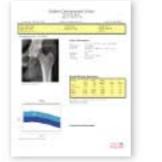
\*For investigational use only in the United States

## Elite Value-Added Package

#### **QDR OnePage**

Combines image, scan analysis and reference curves into a concise, easy-to-read, visually impressive, singlepage reports. Customize with your clinic's name, address and phone numbers. Saves time and materials.

#### Now standard on all QDR4500 systems



Standard Patient Report with Reference values



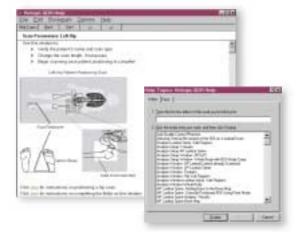
Rate of Change Report

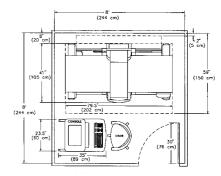


# **Specifications**

#### **Context Sensitive Help**

The text and graphics in *QDR* for Windows Help Menu provide an overview and virtual "walk through" of the QDR's operation and capabilities. A single click on a topic button produces instructions on scanning, analysis, and data management.





The QDR 4500 Series packs a lot of performance in a small footprint. Operating from existing power sources, the QDR 4500C (shown above) and QDR 4500SL fit comfortably in an 8ft x 8ft exam room (8ft x 10ft for the QDR 4500A and QDR 4500W) and require no protective shielding or special room preparations.

#### **Practice Development Guide**

Helps you promote your bone densitometry services to patients and referring clinicians. Includes ready-toprint brochures, ads, mailers and other promotional/ educational aids.



### Other Exclusive Hologic Features

- NHANES Reference Database—selected by the International Committee for Standards in Bone Densitometry as the standardized hip reference data for the United States.
- Patient Rescan eliminates need to reposition patients. Saves time and assures patient comfort.
- Reanalysis—reanalyze data, even a year or more later, without rescanning
- Scoliotic Spine Analysis tailors vertebral BMD assessment to the unique curvature of patients with scoliosis
- Automatic Bone Mappping calculates the soft tissue and bone map of any scan without operator involvement
- Automatic Locate records and monitors the location of patient data saved to a storage media, eliminating the need to log patient data.

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#### North and South America,

Pacific Rim 35 Crosby Drive, Bedford, MA 01730-1401 Tel: 781.999.7300 Sales Fax: 781.280.0668 www.hologic.com

#### Europe

Horizon Park Leuvensesteenweg 510, BUS 31 1930 Zaventem, Belgium Tel: 32.2.711.4680 Fax: 32.2.725.2087