

The Versatile and Powerful **OREX PcCR**[®]



Everything You Imagined CR To Be

ACL2, ACL4



medlink
IMAGING

OREX
A Kodak Company

ROLLING into a Clinic, Imaging Center and Hospital Near You!

COMPUTED RADIOGRAPHY (CR) IS RAPIDLY

BECOMING A DRIVING FORCE IN

TODAY'S DIGITAL HEALTHCARE

REVOLUTION. THE OREX CR SOLU-

TION REPLACES MESSY, SPACE-

CONSUMING, HARD-TO-STORE, COSTLY

FILM WITH DIGITAL X-RAY PROCESSING. BUT THAT'S

JUST THE BEGINNING. THE OREX PcCR SOLUTION

DRAMATICALLY IMPROVES ON TRADI-

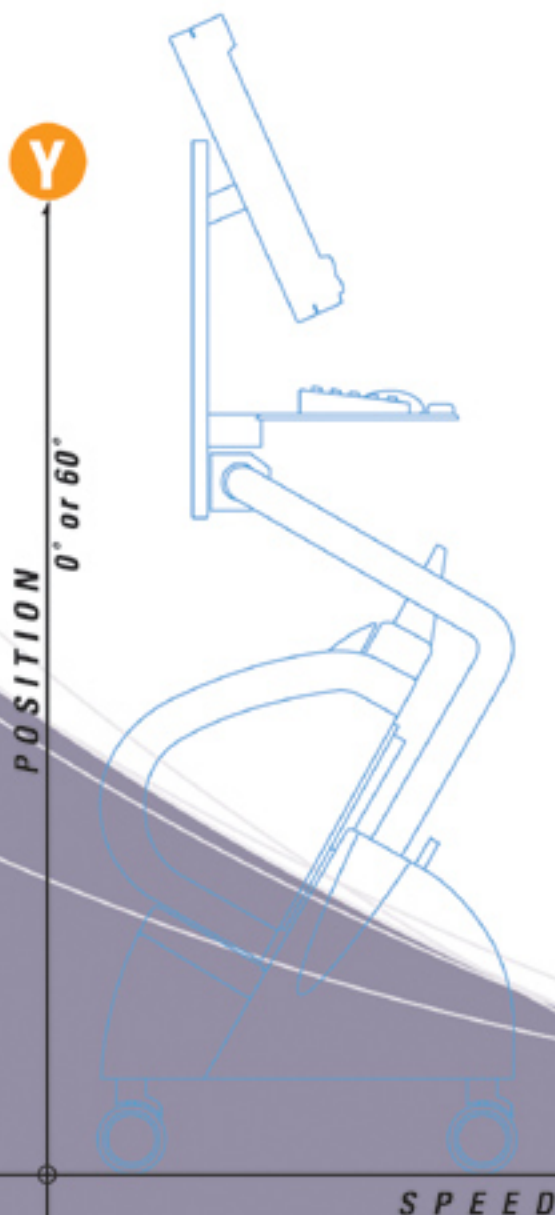
TIONAL CENTRALIZED CR SYSTEMS

BY DELIVERING HIGH-QUALITY,

LOW-COST, COMPACT AND EXTREMELY

MOBILE CR ANYWHERE IT'S NEEDED. IT'S A

CLEARLY REMARKABLE BREAKTHROUGH IN CR.



THE OREX PRODUCT FAMILY

The Orex PcCR is the patented technology platform for the Orex ACL family of CR products. The Orex ACL product lineup includes the high throughput and high resolution systems ACL2 and ACL4.

HOW IT WORKS

The Orex ACL combines laser scanner, erasable phosphor plates, advanced image management software and a PC-based review station in one compact, affordable system. These CR scanners can be used in virtually any clinical application or location, and multiple scanners can be networked together over a conventional local area network (LAN) to create a Distributed CR (D-CR) solution.

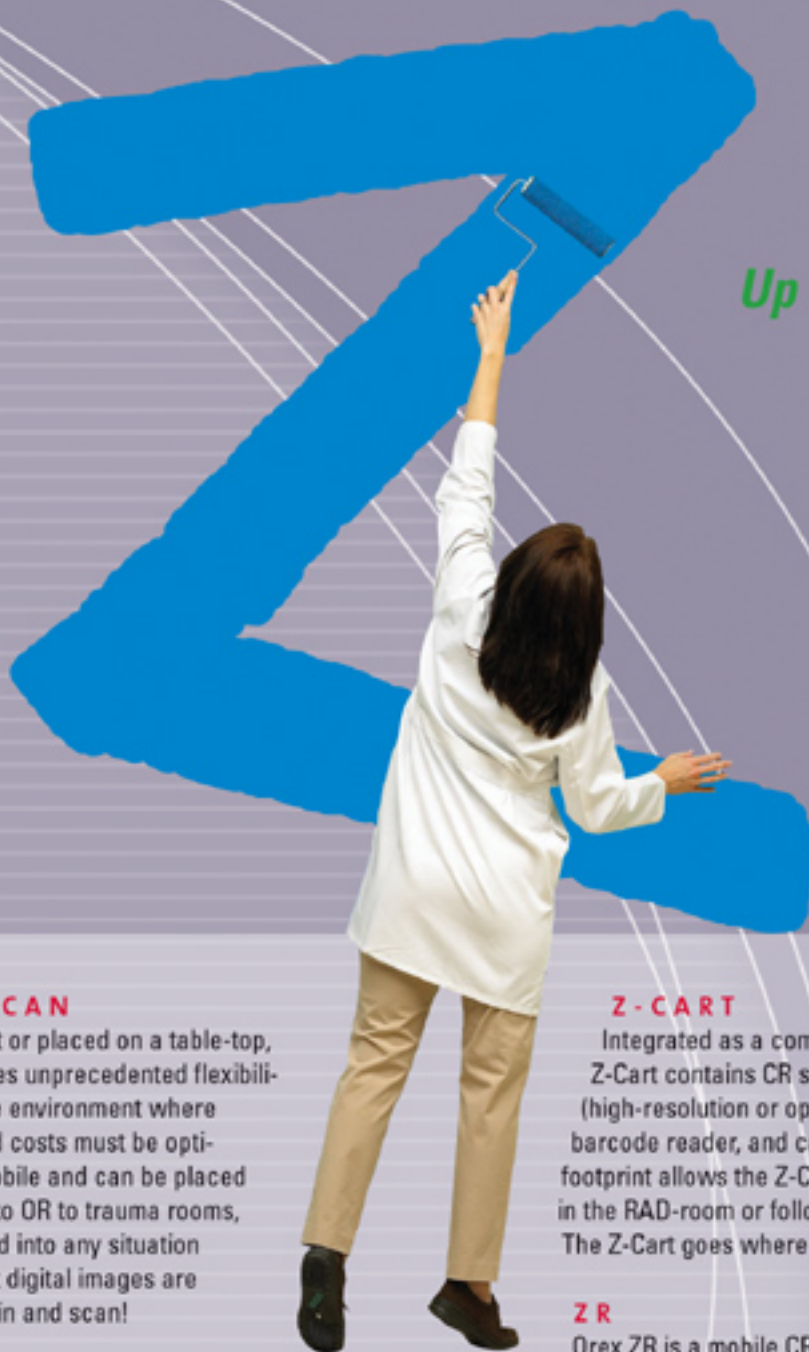
WHAT YOU SEE

All of the imaging parameters are optimized to achieve image quality equal to or better than film. Unlike film, however, the Orex digital images can be enhanced, enlarged, duplicated, and sent to any location in seconds as a DICOM 3.0 file with no loss of resolution.

WHERE IT'S USED

- Hospital radiology departments and medical centers
- Private practices, imaging centers and clinics
- Specialists (e.g., orthopedists, chiropractors, podiatrists)
- Off-shore, rural, mobile or highly remote medical facilities
- Military installations and front line deployment

Up to 20 or 41 plates/hr.



Up to 41 Cassettes / Hour

Compact Footprint

Lightweight

Mobile

Cordless

Wireless

PLUG AND SCAN

Mounted on a Z-Cart or placed on a table-top, the Orex ACL provides unprecedented flexibility for any healthcare environment where space efficiency and costs must be optimized. It is highly mobile and can be placed anywhere. From ER to OR to trauma rooms, the ACL can be rolled into any situation where nearly instant digital images are needed. Just plug it in and scan!

IMPROVED PRODUCTIVITY

The Orex ACL operates at a speed of up to 75 cassettes an hour on a single scanner (complete cycle time to second cassette, for any cassette size), and speeds of up to 150 cassettes per hour on the dual RAIS2 configuration.

IMPROVED PERFORMANCE

- Normal and high-resolution modes: 5.8 to 20 pixels/mm
- Standard and low dose settings: speed equivalent to 100, 200 and 400 ASA film
- Selectable Acquisition Pixel Matrix: standard and high-resolution

Z-CART

Integrated as a complete imaging solution, the Z-Cart contains CR scanner, QC workstation, monitor (high-resolution or optional very high-resolution), barcode reader, and cassette holder. The compact footprint allows the Z-Cart to be placed anywhere, in the RAD-room or following your mobile x-ray unit. The Z-Cart goes where the action is!

Z R

Orex ZR is a mobile CR scanner on wheels that can move freely within a medical institution without external power or network connections. It features a 4.5-hour battery life in full load and Wi-Fi networking capabilities. Orex ZR is a breakthrough system that is ideal for both small and large healthcare facilities that need to quickly capture high-quality digital images in multiple departments throughout the day. Ushering x-ray imaging into a new age of clinical efficiency, flexibility and quality of care.



Clinical Applications

GENERAL RADIOLOGY

The Orex ACL is configurable to meet most clinical applications. With its anatomical interface you can set the system to produce extremely high quality images of any body part. You can import patient demographics directly from your RIS/HIS applications via a DICOM Modality Work List. Once the patient study is completed, the DICOM-compatible images can be transmitted over a network to a central PACS for review and storage, or archived locally on CD-ROMs or DVDs.

ORTHOPEDICS

Orthopedic suites can use the Orex ACL for image analysis, interpretation and "true-size" measurements. The osteoporosis screening module, developed in partnership with CompuMed, Inc., uses the Orex ACL to scan images of the patient's fingers as the source for reports.

RADIOTHERAPY

The radiotherapy option, utilizing special cassettes, captures kilo-and mega-voltage radiation on a reusable phosphor plate. The DICOM-compatible software lets you review digital images side-by-side, add annotations and approve/disapprove portal scans.

HOSPITAL

The Orex ACL is the perfect solution for medical institutions trying to improve productivity while reducing capital and space costs. In addition to multiple Orex ACL units in the main radiology department, digital image acquisition is brought right to the point of care by placing Orex ACL scanners right in the ER, OR, ICU, as well as wheeled around together with a mobile x-ray. The Orex ACL provides a distributed-CR solution everywhere.

IMAGING CENTERS

With its full set of features and high performance, the Orex ACL is right at home in an imaging center. Physicians can view, manipulate and enhance x-ray images on the screen. Images can be exported in a DICOM 3.0-compatible format for easy archiving onsite, review from any workstation or electronic transmission to referring physicians for consultations.

MILITARY

The field-proven Orex ACL scanner is ideal for remote or inaccessible places. The Orex ACL solution eliminates the need for film and messy processing. The Orex ACL is light, easily portable, uses a minimal of space and enables superior manipulation of images for interpretation in the most demanding conditions.

OREX CR in the Military
Over 250 Units Already Deployed by US Military Services

MIL-STD-810E

60°C	48 hour storage
40°C	2 hour operation
35°C	95% humidity 96 hours
10°C	2 hour operation
-15°C	48 hour storage

From the battlefield:
"The Orex CR is the most practical system I have worked with in a field environment. When we were ready to discontinue operations in the old site, the Orex CR was one of the last items to be employed and taken to the new site. We bought time by using the portable X-ray machine and the Orex at the old site while the radiology ISO box was collapsed, moved and set up at the new site!"
- Army Surgeon in Iraqi field hospital

PcCR 1417

MD 1505

The Versatile and Powerful Orex PcCR[®]

The Orex PcCR serves as the platform to address a wide variety of clinical applications and price points. Speed, resolution and application software can easily be upgraded via a programmable key. The system can adapt and grow by adding new features and accessories to the same general purpose scanner. You pay only for the options you need.





Change cassettes to scan virtually any body part.

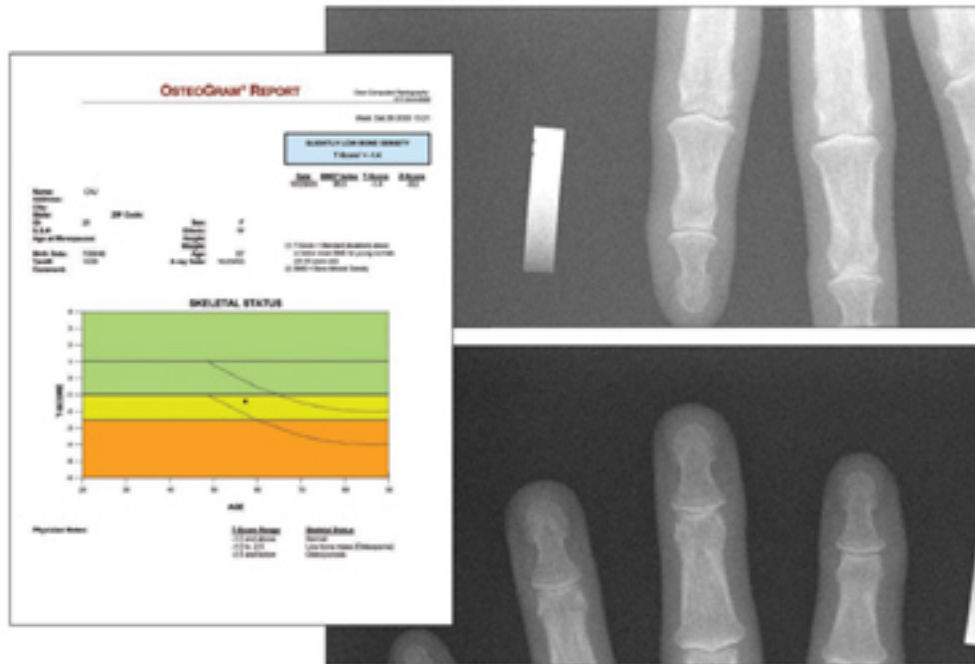
OREX ACL
mounted on a Z-Cart



Medical Product Matrix

MARKET/APPLICATION	WORKLOAD	CUSTOMIZE APPLICATIONS	SOFTWARE
GENERAL RADIOLOGY	 PcCR ACL1 (UP TO 41 PLATES PER HOUR)	GENERAL RADIOLOGY WORKFLOW-ENHANCING SOFTWARE	OR-ACQUIRE (QC WORKSTATION) OPTIONS: - DICOM-SEND (CSTORE) - DICOM-PRINT - DICOM-IN (RECEIVE) - DICOM-MODALITY-WORK-LIST - BARCODE READER - MULTI-MODALITY - SMA, SINGLE PATIENT CD - CD-ARCHIVING - DVD-ARCHIVING - Telerad-SEND - Telerad-RECEIVE OR-VIEW (DIAGNOSTIC VIEWER) OR-SERVER (IMAGE DATABASE) OR-STORE (IMAGE ARCHIVING) OR-RPE (REMOTE PATIENT DATA ENTRY)
ORTHOPEDECS		BONE MINERAL DENSITOMETRY CASSETTE WITH TEMPLATE AND OSTEOGRAM SOFTWARE	
HOSPITAL (RAD, ER, OR, TRAUMA, ICU)		TEMPLATING PLANNING WORKSTATION AND SOFTWARE FOR ORTHOPEDECS AND TRAUMA	
IMAGING CENTER	 PcCR ACL2 (UP TO 20 PLATES PER HOUR)	RADIOTHERAPY PORTAL CASSETTE	
CLINIC		MILITARY TRANSPORT CASES, RUGGED LAPTOPS, PLASTIC CASSETTE WRAPPERS	
RADIATION THERAPY		SYSTEM OPTIONS DESKTOP Z-CART (INTEGRATED MOBILE CART) ZR (CORDLESS-WIRELESS Z-CART)	
PODIATRY			
CHIROPRACTORS			
TELERADIOLOGY			
MILITARY (ALL BRANCHES)			
MOBILE X-RAY			
OFFSHORE OIL PLATFORM			
SHIPBOARD/CRUISE LINE			
OTHER VETERINARY DENTAL NDT			

Application Specific CR



BONE DENSITOMETRY

The bone densitometry configuration, developed in partnership with CompuMed, Inc., is used in osteoporosis screening. Images of the patient's fingers are scanned using the Orex ACL as the input source for reports. Specially designed cassettes provide fast and simple bone density measurements.



The Orex ACL – ready to roll in a mobile x-ray vehicle.

MOBILE

Combine an Orex ACL scanner, reusable phosphor plates and cassettes, a rugged laptop, and a portable x-ray unit, mount it on a van or truck and drive it right to the point of acquisition for a complete digital imaging solution on wheels. Throughout the world, Orex mobile solutions serve the imaging needs of nursing homes, prisons, forensic institutions, sports facilities, industrial screening and more.

Distributed CR (D-CR) From Orex is Everything — and Everywhere — You Ever Imagined



PRODUCTIVITY

By placing compact, low-cost scanners right in the radiology exam room, other hospital departments, clinics, etc., Orex enables more productive image acquisition, review and quality control. Workflow is streamlined because technicians don't have to travel to remotely located QC stations and queue up and wait to process plates. The Orex ACL scanners can be networked via a local area network (LAN) to import information from patient information systems or export images to remote workstations or central PACS for review and storage.

MOBILITY

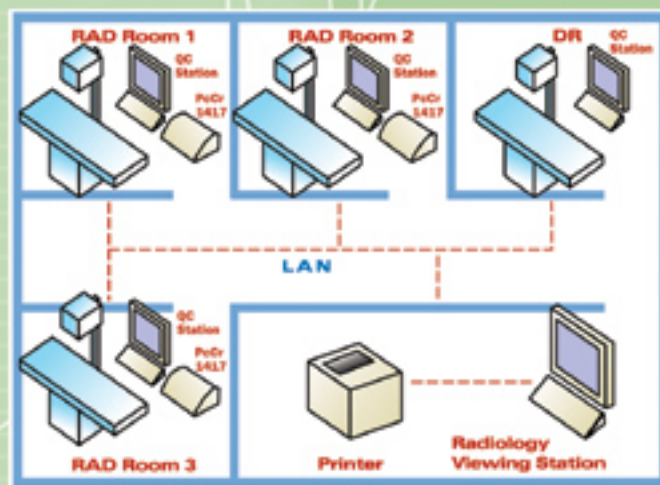
The Orex D-CR solution is not only distributed, it is easily distributable — the Z-Cart solution makes it even easier to move a scanner anywhere in the hospital or clinic, plug it in and start scanning. The mobile cart is also the perfect companion for mobile x-ray equipment.

SCALABILITY

A centralized CR system has a fixed processing capacity that limits the overall throughput of busy departments and clinics. With a D-CR solution, hospitals can match the number of scanners to the number of RAD rooms, making it a highly scalable solution.

REDUNDANCY



With numerous CR scanners throughout the enterprise, D-CR creates redundancy at a much lower cost than buying a backup centralized CR system (or provides a low-cost backup solution to an existing centralized CR system).



Distributed CR (D-CR) Solutions for Radiology Departments

OREX CR

SPECIFICATIONS

		
THROUGHPUT (CASSETTES PER HOUR)	Up to 41	Up to 20
GRAYSCALE RESOLUTION (BITS PER PIXEL)		
ACQUISITION	12	12
DISPLAY	12	12
INTEGRATED AUTOMATIC ERASURE	STANDARD	
DIMENSIONS (W x D x H)	733 x 655 x 340 mm (29" x 26" x 14")	
WEIGHT	40 kg. (88 lbs.)	
SYSTEM CONFIGURATIONS	DESKTOP Z-CART (INTEGRATED MOBILE CART) ZR (CORDLESS-WIRELESS Z-CART) D-CR (DISTRIBUTED CR) BONE MINERAL DENSITOMETRY (BMD OSTEOGRAM® SOFTWARE AND CASSETTE WITH TEMPLATE) BARCODE READER (FOR CASSETTE IDENTIFICATION AND INTEGRATION WITH MODALITY WORK LIST)	
SOFTWARE	INTEGRATED ACQUISITION AND PACS FUNCTIONALITY INCLUDING: IMAGE ANALYSIS, ARCHIVING, AND SEAMLESS REMOTE IMAGE COMMUNICATIONS, BUILT ON SCALABLE, USER FRIENDLY DICOM 3.0 SOFTWARE PLATFORM	
COMPUTER WORKSTATION MINIMUM REQUIREMENTS	PENTIUM IV 2.4 GHz OR HIGHER, 1 GB MEMORY, USB II PORT, WINDOWS 2000 OR XP PROFESSIONAL OS (SMALL FORM FACTOR CHASSIS REQUIRED FOR Z-CART)	
POWER REQUIREMENTS	SINGLE PHASE 50-60 Hz, 200 VA, 100 AVC – 240 AVC (±10%), UPS REQUIRED	
REGULATORY APPROVALS	FDA (USA), CE (EU), SDA (CHINA), AND OTHERS AVAILABLE OR PENDING IN MOST MAJOR MARKETS	
SAFETY STANDARDS	EN 60601-1, 60825-1, 60601-1-2	

Cassette Size	8" x 10" 20cm x 25cm	9.5" x 9.5" 24cm x 24cm	10" x 12" 25cm x 30cm	14" x 14" 35cm x 35cm	14" x 17" 35cm x 43cm	14" x 34" ¹ 35cm x 86cm	18cm x 24cm Mammo ²	24cm x 30cm Mammo ²
(X R) H I G H - R E S O L U T I O N ²								
Pixel Matrix	4000 x 5000	4200 x 4200	4375 x 5250	4200 x 4200	4200 x 5160	Not Applicable	3600 x 4800	4800 x 6000
Sampling Density	20.0 pix/mm	17.5 pix/mm	17.5 pix/mm	12.0 pix/mm	12.0 pix/mm		20.0 pix/mm	20.0 pix/mm
(S R) S T A N D A R D R E S O L U T I O N								
Pixel Matrix	2320 x 2900	2088 x 2088	2175 x 2610	2100 x 2100	2100 x 2580	2100 x 5160	Not Applicable	Not Applicable
Sampling Density	11.6 pix/mm	8.7 pix/mm	8.7 pix/mm	6.0 pix/mm	6.0 pix/mm	6.0 pix/mm		

¹ Currently available on ACL2/ACL4, ACLx only available Q3 2005. ² Available Q3 2005, ACLx only. ³ Future availability.



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