

The Versatile and Powerful **ACLxy™**

Everything you imagined CR To Be

ACLxy

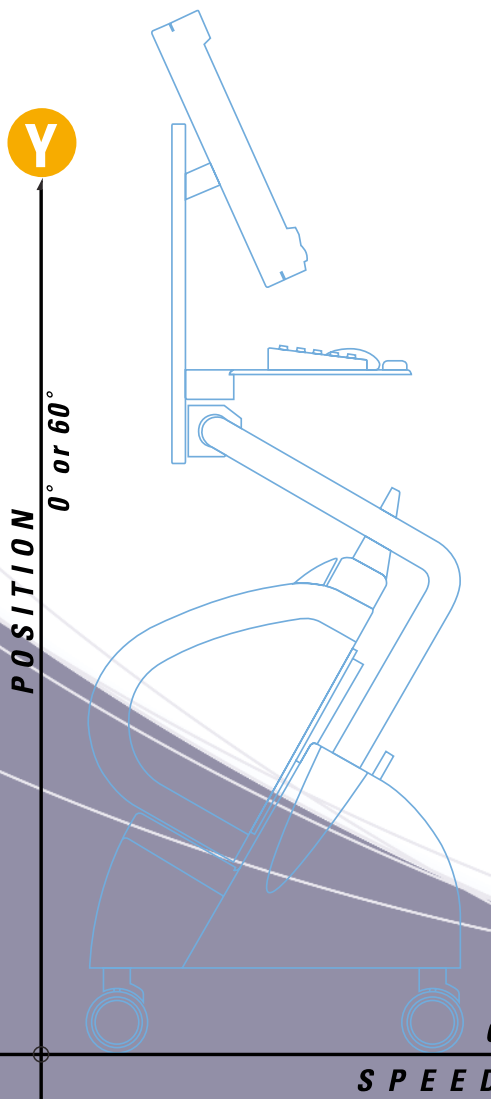


OREX
Distributed Computed Radiography

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 SOLUTION REPLACES MESSY, SPACE-CONSUMING, HARD-TO-STORE FILM WITH DIGITAL X-RAY PROCESSING. BUT THAT'S JUST

THE BEGINNING. THE OREX CR SOLUTION DYNAMICALLY IMPROVES ON TRADITIONAL 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.



HOW IT WORKS

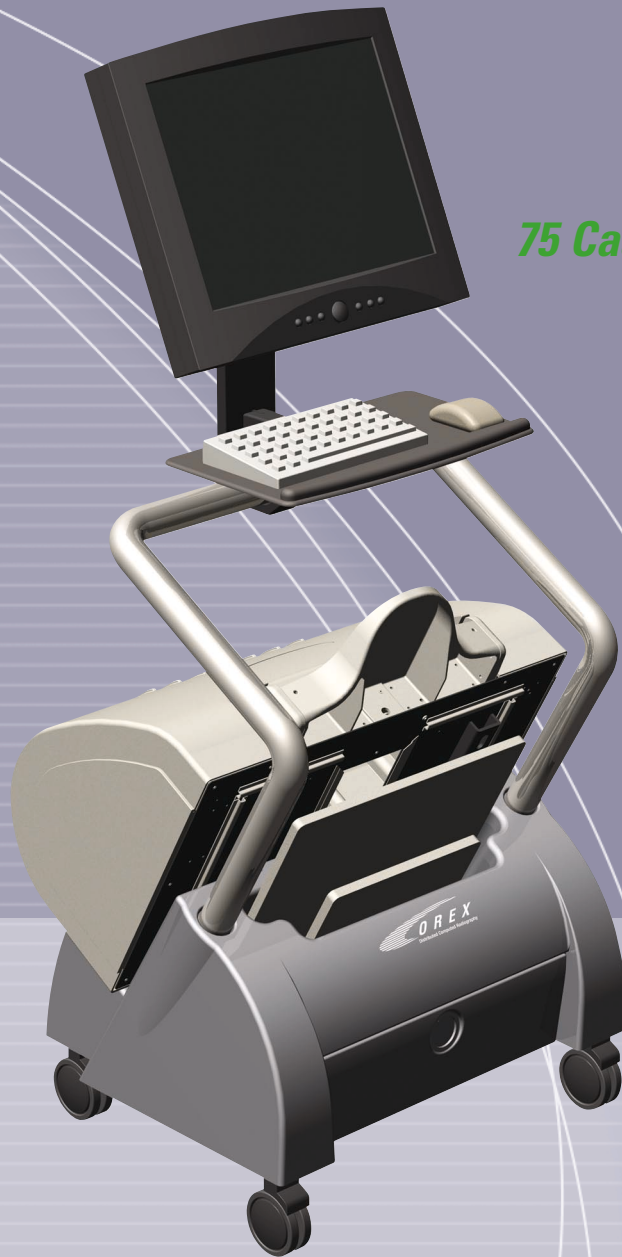
The Orex ACLxy combines laser scanner, erasable phosphor plates, advanced image management software and a PC-based review station in one compact, affordable system. These CR scanners can be used in virtually any clinical application or location, and multiple scanners can be networked together over a conventional local area network (LAN) to create a Distributed CR (D-CR) solution. The ACLxy-generated images can be exported in a DICOM 3.0 compatible format.

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 and duplicated with no loss of resolution.

WHERE IT'S USED

- Hospital radiology departments
- Campus-wide medical centers
- Private imaging centers
- Private practices and clinics with x-ray equipment
- Specialists (e.g., orthopedists, chiropractors, podiatrists)
- Off-shore, rural, mobile or highly remote medical facilities
- Military installations



75 Cassettes / Hour

Compact Footprint

Lightweight

Mobile



PLUG AND SCAN

The Orex ACLxy 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 ACLxy can be rolled into any situation where nearly instant digital images are needed. Just plug it in and scan!

IMPROVED PRODUCTIVITY

The ACLxy 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 scanner.

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: 2,000 x 2,500 and optional 4,000 x 5,000 pixels

Clinical Applications

GENERAL RADIOLOGY

The Orex ACLxy 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 ACLxy for image analysis, interpretation and "true-size" measurements. Long-bone studies can be performed using specially designed 14" x 34" and 14" x 51" cassettes. Stitching software enables seamless composition of long images. The osteoporosis screening option, developed in partnership with Compumed, Inc., uses the Orex CR to scan images of the patient's hand as the source for Osteogram™ reports.

IMAGING CENTERS

With its full set of features and high performance, the Orex ACLxy 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.

RADIOTHERAPY

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

MILITARY

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

OREX CR Scanner IN THE MILITARY

- Quality • Simplicity • Proven Field Use • Reliability • Serviceability • Dependability

From the field in Iraq:
"There are no chemicals or film to handle, order or store. The unit is also much lighter, uses less space and is easier to set up than the Agfa system. Manipulation of the image is also key in better management of resources and time."

*Sgt. in 64th Forward Support Battalion
4th Infantry Division (Mechanized)*

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

The advertisement features a central graphic with a circular background. On the left, a vertical temperature scale labeled 'MIL-STD-810E' shows various temperature ranges and their corresponding operational or storage durations for the Orex CR Scanner. The background of the graphic is a collage of military scenes: an aircraft carrier at sea, a fighter jet in flight, a helicopter, a tank, and an amphibious assault vehicle. The overall color scheme is dominated by yellow and blue.

The Versatile and Powerful ACLxy

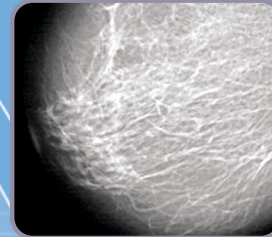
The ACLxy serves as the platform to address a wide variety of clinical applications and price points. Speed, resolution and application software can easily be upgraded via a programmable key. The system can adapt and grow by adding new features and accessories to the same general purpose scanner. You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



General purpose system offers a full range of resolution and speeds



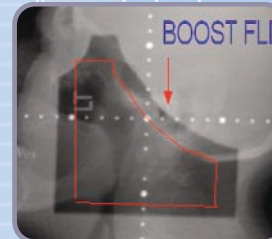
Mammography system designed for very high resolution breast imaging on special cassettes



Designed for very high resolution lung and chest imaging



Specifically designed for Radiation Therapy using specialized software and cassettes



Medical Product Matrix

	ACLxy			ACLMax	ACLLux
	General Radiology	Orthopedics/ Bone Densitometry	Oncology (RT)	Mammography	Lungs
Hardware Offering	Current product	Current product	Current product	(Near-term opportunity)	(Near-term opportunity)
Software Offering	Current product	Current product	Current product	(Near-term opportunity)	(Near-term opportunity)
University Hospitals	Current product	Current product	Current product	(Near-term opportunity)	(Near-term opportunity)
Large Hospitals	Current product	Current product	Current product	(Near-term opportunity)	(Near-term opportunity)
Small Hospitals	Current product	Current product	Current product	(Near-term opportunity)	(Near-term opportunity)
Small Clinics	Current product	Current product	Current product	(Near-term opportunity)	(Near-term opportunity)

Current product

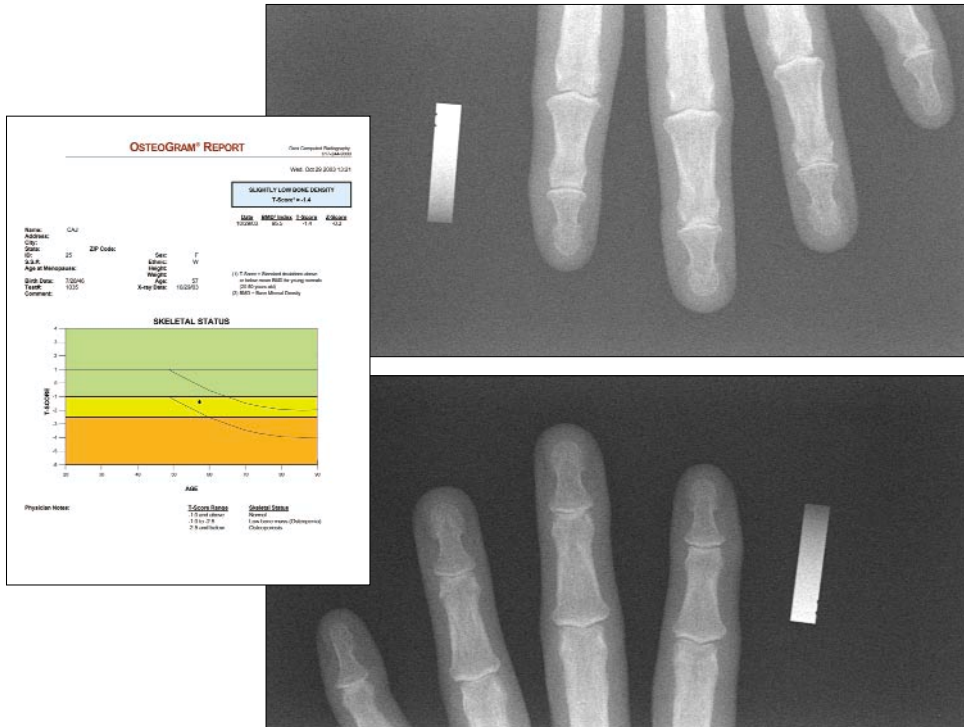
(Near-term opportunity)

CAD (near-term opportunity)

Computer Aided Detection and Diagnostic Tools

BONE DENSITOMETRY

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

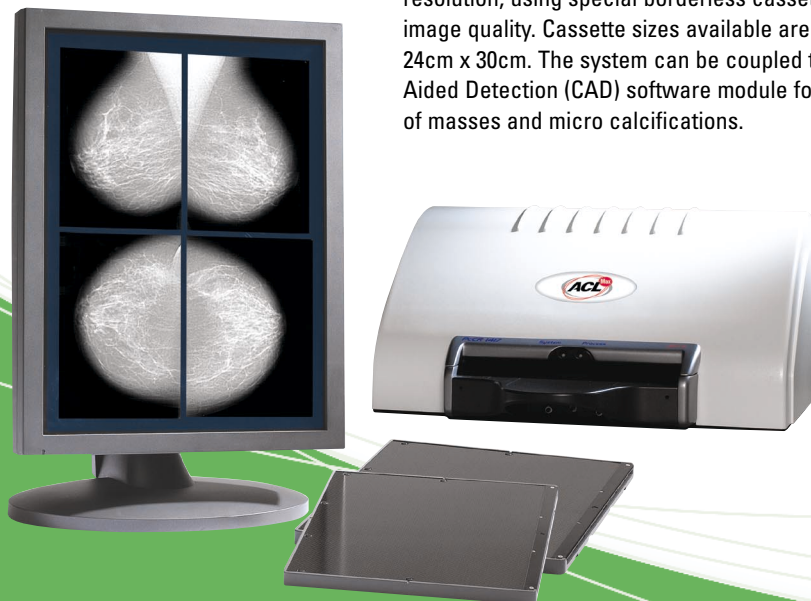


LUNG*

The lung configuration enables analysis of high-resolution chest scans for improved detection of chest lesions.

MAMMOGRAPHY*

The mammography configuration scans images at 50 µm resolution, using special borderless cassettes for enhanced image quality. Cassette sizes available are 18cm x 24cm and 24cm x 30cm. The system can be coupled to a Computer Aided Detection (CAD) software module for assisted detection of masses and micro calcifications.



*Work in progress, not for sale currently.

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 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

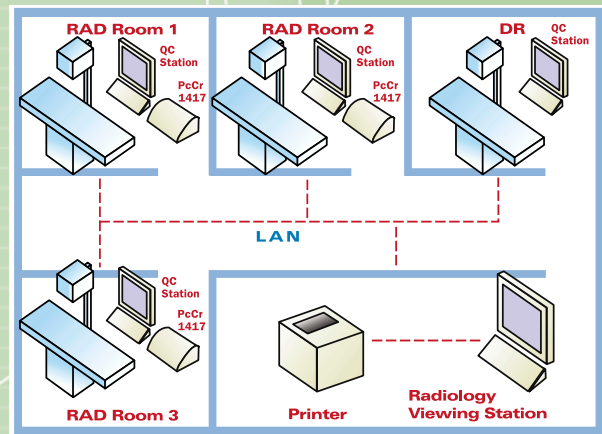
The Orex D-CR solution is not only distributed, it is easily distributable — the mobile cart solution makes it even easier to move a scanner anywhere in the hospital or clinic, plug it in and start scanning. The mobile cart is also the perfect companion for mobile x-ray equipment.

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 ACLxy™

SPECIFICATIONS

	ACLXY AUTO CASSETTE LOADING
PROCESSING CAPACITY	60 AND 75 PLATES / HR
SCANNING TIME (TIME TO NEXT CASSETTE, ERASE INCLUDED)	60 SEC (60 PLATES/HR); 40 SEC (75 PLATES/HR)
GRAYSCALE RESOLUTION	16 BITS / PIXEL
INTEGRATED AUTOMATIC ERASURE	INCLUDED
DIMENSIONS WITH CASSETTE (W x D x H)	780 x 640 x 340 MM (31" x 25" x 13.5")
WEIGHT	40 KG (88 LBS.)
MINIMUM WORKSTATION REQUIREMENTS	PENTIUM IV 2.0 GHZ OR HIGHER, 1 GB MEMORY, USB II PORT, WINDOWS 2000 OR XP OS
SOFTWARE	ONYXRAD ACQUISITION SW: FULL CONTROL OVER SCANNER PARAMETERS AND SETTINGS, ANATOMIC PROGRAMMING, REMOTE DIAGNOSTICS, SIMPLE INTEGRATION WITH PACS. FULL DICOM 3.0 CONFORMITY
POWER SUPPLY	SINGLE PHASE 50-60 Hz, 200 VA, 100 AVC – 240 AVC (± 10%), UPS REQUIRED
REGULATORY APPROVALS	FDA – K003256, K032654, CE, SDA – 20022310684, HEALTH CANADA – 31698
SAFETY STANDARDS	EN 60950, 60825-1: 1994, 60601-1-2
PATENT No	US 6,291,831-B1. OTHER PATENTS PENDING Orex holds two U.S. patents (US 6,291,831-B1 and US 6,207,968-B1), covering the company's rotational scanning CR technology. The patented rotational scanning system makes it possible to shrink the size of the CR scanners to the compact (i.e. tabletop) size and, at the same time, produce the best raw data images possible. The patented small size readers eliminate the need for technicians to walk to centrally located QC/reviewing stations. These combined breakthroughs have enabled Orex to pioneer the patent-pending concept of Distributed CR (D-CR) and the patent pending concept of redundant system arrays.

Cassette Size	14" x 17"	10" x 12"	8" x 10"	18cm x 24cm	24cm x30cm	14" x 34"	14" x 51"
Pixel Matrix	4135 x 5021 2055 x 2496	4097 x 4916 2016 x 2419	4064 x 5080 2032 x 2540	3600 x 4800 2093 x 2790	4000 x 5000 2326 x 3488	2055 x 4874	2067 x 7253
Pixel/mm	11.63 5.81	16.13 7.87	20.00 10.00	20.00 11.63	20.00 11.63	5.81	5.81



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