The Orex D-CR solution addresses the full spectrum of clinical practices, including:

- Hospital radiology departments
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- Private practices and clinics with x-ray equipment
- Specialists (e.g., orthopedists, chiropractors)
- Rural or mobile x-ray units
- Off-shore or highly remote medical facilities
- Other specialty practitioners: podiatrists, dentists, orthodontists
- Military installations

The Orex D-CR solution provides all of the following benefits:

- Low cost of ownership
- Improved diagnostics
- More efficient workflow to handle more patients
- Built-in redundancy (for larger medical facilities with multiple PcCR readers)
- Easy information sharing and storage (DICOM 3.0 compatible, supporting PACS and MiniPACS)
- Multi-modality software
- HIS/RIS Modality Work List

Orex is the first company to successfully develop and market Distributed Computed Radiography (D-CR) solutions that deliver affordable, high image quality, compact CR readers for every RAD room. Orex D-CR solutions eliminate the expense, workflow and productivity problems associated with expensive, centralized CR systems and out-of-date film-based processing.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Pentium IV 1.8 GHz or higher, Pentium III 500 MHz or higher, 512 Mb memory, USB port</th>
<th>Pentium IV 1.8 GHz or higher, Pentium III 500 MHz or higher, 128 Mb memory, USB port</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>780 x 640 x 340 mm (31” x 25” x 13.5”)</td>
<td>480 x 320 x 220 mm (19” x 12.5” x 8.5”)</td>
</tr>
<tr>
<td>Weight</td>
<td>40 kg (88 lbs.)</td>
<td>15.5 kg (34 lbs.)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Single phase 50-60 Hz, 200 VA</td>
<td>Single phase 50-60 Hz, 80 VA</td>
</tr>
<tr>
<td>UpS required</td>
<td>UPS required</td>
<td>UPS required</td>
</tr>
<tr>
<td>Regulatory Approvals</td>
<td>FDA - K003256</td>
<td>FDA - K003256</td>
</tr>
<tr>
<td>Minimum Workstation</td>
<td>Pentium IV 1.8 GHz or higher, Pentium III 500 MHz or higher, 512 Mb memory, USB port</td>
<td>Pentium IV 1.8 GHz or higher, Pentium III 500 MHz or higher, 128 Mb memory, USB port</td>
</tr>
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</table>

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.
The Orex D-CR solution addresses the full spectrum of clinical practices, including:

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PcCR 1417/812

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>PcCR 1417</th>
<th>PcCR 812</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imaging Plate Size</td>
<td>14” x 17”</td>
<td>8” x 12”</td>
</tr>
<tr>
<td>Processing Capacity</td>
<td>41 plates/hr</td>
<td>20 plates/hr</td>
</tr>
<tr>
<td>Scanning Time</td>
<td>54 sec (41)</td>
<td>210 sec (20)</td>
</tr>
<tr>
<td>Spatial Resolution</td>
<td>6 pixel/mm</td>
<td>10 pixel/mm</td>
</tr>
<tr>
<td>Gray Scale Resolution</td>
<td>12 bits/pixel</td>
<td>12 bits/pixel</td>
</tr>
<tr>
<td>Integrated Automatic Erasure</td>
<td>Standard</td>
<td>N/A</td>
</tr>
<tr>
<td>Dimensions with Cassette (WXDXH)</td>
<td>780 x 640 x 340 mm</td>
<td>480 x 320 x 220 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>40 kg (88 lbs.)</td>
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<td>Single phase 50-60 Hz, 200 VA</td>
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</tr>
<tr>
<td>Voltage</td>
<td>100 – 240 VAC (± 10%)</td>
<td>100 – 240 VAC (± 10%)</td>
</tr>
<tr>
<td>Regulatory Approvals</td>
<td>FDA - K003256</td>
<td>FDA - K003256</td>
</tr>
<tr>
<td>Minimum Workstation</td>
<td>Pentium IV 1.8 GHz or higher, Pentium III 500 MHz or higher, (Intel chipset)</td>
<td>Pentium 4 2.4 GHz or higher, Pentium 3 1.5 GHz or higher, (Intel chipset)</td>
</tr>
<tr>
<td>Patents</td>
<td>US 6,291,831-B1, US 6,207,968-B1</td>
<td>Other patents pending</td>
</tr>
<tr>
<td>Software</td>
<td>Orex Acquisition SW: Full control over scanner parameters and settings, anatomic programming, image storage, and output to IP (PACS) and RS (HIPAA) compatible. Full DICOM conformity.</td>
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Tel: +972 4 959 1331
Fax: +972 4 959 1262
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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.
The Orex PcCR 1417 is the building block of Distributed CR (D-CR), the clinical breakthrough in computed radiography that is rapidly becoming a driving force in today's digital healthcare revolution. Care facilities can install a single D-CR solution on a network to distribute D-CR units throughout a healthcare facility or a hospital. D-CR provides an affordable, high-quality clinical image alternative to expensive, centralized CR systems or old-fashioned film-based processing. Orex brings high-quality digital X-ray — image acquisition, QC and review — right into the rad room.

Now engineers are designing systems for cassette ID marking. In the past, paper cassette labels were required, which were expensive and slow. Now, electronic cassette IDs are becoming standard. The DICOM-compatible digital images can be transmitted electronically over a local network to any examination room or doctor’s office in the clinic — or even over the Internet to a physician working from home. The DICOM-compatible digital images can be transmitted electronically over a local network to any examination room or doctor’s office in the clinic — or even over the Internet to a physician working from home.

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PRODUCT HIGHLIGHTS

DUPLICATED, PRINTED AND TRANSMITTED WITH NO LOSS OF CLINICAL INFORMATION.

A D-CR SOLUTION. THE PATENTED TECHNOLOGY IN THE OREX PcCR 1417 READER RESULTS IN AN EXTREMELY COMPACT
CARE FACILITIES CAN INSTALL A PcCR IN EACH RAD ROOM AND THEN NETWORK THE DISTRIBUTED UNITS TO COMPRISE
RADIOGRAPHY THAT IS RAPIDLY BECOMING A DRIVING FORCE IN TODAY'S DIGITAL HEALTHCARE REVOLUTION. HEALTH-
THE OREX PcCR 1417 IS THE BUILDING BLOCK OF DISTRIBUTED CR (D-CR), THE CLINICAL BREAKTHROUGH IN COMPUTED

RADIOLOGY DEPARTMENTS

ACQUISITION, QC AND REVIEW — RIGHT INTO THE RAD ROOM.

OREX D-CR PROVIDES AN AFFORDABLE, HIGH QUALITY CLINICAL IMAGE ALTERNATIVE TO EXPENSIVE, CENTRALIZED
CR SYSTEMS OR OLD-FASHIONED FILM-BASED PROCESSING. OREX BRINGS HIGH QUALITY DIGITAL X-RAY — IMAGE
ACQUISITION, QC & REVIEW — RIGHT INTO THE RAD ROOM.

REMOTE HOSPITAL DEPTS. & FACILITIES

Orthopedic departments, pediatric departments, emergency rooms, operating rooms and other specialty areas within the healthcare facilities can afford to make this affordable and practical solution available in all areas. The Orex D-CR solution allows facilities to maintain their own CR systems, even in the interests of improving staff productivity and patient care. An Orex PcCR reader is the perfect departmental system for high-quality, all-digital x-ray processing and review. This compact desktop system is designed to fit anywhere.

Automatic Daylight Cassette Loading

One’s patented automatic cassette and daylight loading feature ensures that CR plates are immediately available upon exit from the X-ray machine, minimizing exposure to scratches, dirt, fingerprints, etc. The cassette is slid into the reader and can be removed almost indefinitely.

Reusable Phosphor Plates

The Orex PcCR captures the x-ray radiation on the patient’s body onto a reusable phosphor plate. Once exposed, the phosphor plate is erased and can be reused almost indefinitely. The Orex PcCR captures the x-ray radiation on a phosphor plate that forms and preserves an identical optical path to all operating, calibration and self-diagnostic features. The Orex PcCR's automatic cassette and cassette loading features improve the productivity and prolong the life of RT’s by ensuring that darkrooms take up valuable space, and chemicals have to be stored, discarded and refreshed periodically. The Orex PcCR's automatic cassette and cassette loading features improve the productivity and prolong the life of RT’s by ensuring that darkrooms take up valuable space, and chemicals have to be stored, discarded and refreshed periodically.

High Exposure Range and Latitude

The Orex PcCR system features a wide range of exposures ranging from very low for skin to very high for bones and able to capture soft tissue details can be viewed in the same image. The Orex PcCR captures the x-ray radiation on a phosphor plate that forms and preserves an identical optical path to all operating, calibration and self-diagnostic features. The Orex PcCR's automatic cassette and cassette loading features improve the productivity and prolong the life of RT’s by ensuring that darkrooms take up valuable space, and chemicals have to be stored, discarded and refreshed periodically.

Patented Scanning System

Orex's patented PcCR rotational scanning design reduces the CR reader to tabletop size, while producing the highest quality clinical images. All parts of the phosphor plate experience an identical optical path for improved reading and signal detection.

PcCR 1417

The Orex PcCR reader's intuitive scanner interface reduces the learning curve and maximizes productivity for RTs, with easy access to all operating, calibration and self-diagnostic features.

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**Orex PcCR 1417**

**A-D-CR SOLUTION.**

**THE PATENTED TECHNOLOGY IN THE OREX PcCR 1417 READER RESULTS IN AN EXTREMELY COMPACT RADIOGRAPHY THAT IS RAPIDLY BECOMING A DRIVING FORCE IN TODAY’S DIGITAL HEALTHCARE REVOLUTION.**

**The Orex PcCR captures the x-ray radiation on a phosphor plate that forms and stores a temporary latent image. The reader illuminates the plate. The phosphor plate is erased and can be reused almost indefinitely.**

**Automatic Daylight Cassette Loading**

One patented automatic cassette and daylight loading feature. Faster, 80% productivity, and reduces dwell time of the plate by maximizing exposure to scratches, dirt, fingerprints, etc.

**Patented Scanning System**

Orex PcCR operates with a wide range of exposure, dynamic range, latitude, and exposure range. High Exposure Range and Latitude, enabling diagnoses when, for example, bones and soft tissue details can be viewed in the same image.

**Reusable Phosphor Plates**

The Orex PcCR reader's intuitive scanner interface reduces the learning curve and maximizes productivity for RTs, with easy access to all operating, calibration and self-diagnostic features.

**High Exposure Range and Latitude**

The Orex PcCR captures x-ray radiation on a phosphor plate that forms and stores a temporary latent image. The reader illuminates the plate. The phosphor plate is erased and can be reused almost indefinitely.

**REPLACEMENT PARTS**

**ACQUISITION, QC AND REVIEW — RIGHT INTO THE RAD ROOM.**

**RADIOLOGY DEPARTMENTS**

**DICOM-compatible Modality Work List, saving the time and money associated with complex mechanical or optical systems.**

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**Private Practices/Clinics**

**Orex’s compact PcCR reader can sit in the RAD room or beside the x-ray generator.**

**Sports Applications**

**Orthopedic departments, plastic surgeons, emergency rooms, operating rooms and other special care units within the healthcare facility can afford a valuable tool running CR projects and form the radiology department and waiting room in a fraction of the time with the Orex PcCR.**

**Specialty Applications**

**Medical practices in inaccessible places rely heavily on remote or on-site interpretation and consultation in order to provide prompt, effective treatment for patients.**

**Distributed CR Systems OR OLD-FASHIONED FILM-BASED PROCESSING. OREX BRINGS HIGH QUALITY DIGITAL X-RAY — IMAGE QUALITY.**

**Imaging Centers**

**In a hybrid environment of analog and digital technologies.**

**Quality control is not an afterthought, but is integrated into the design of the Orex PcCR. All worklist data is transmitted to a network in a central archival facility.**
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- **PcCR 1417**
  - Single phase (41 plates / hr), two phases (up to 81 plates / hr)
  - 54 sec (for 41 plates / hr)
  - 130 sec (for 20 plates / hr)

- **PcCR 812**
  - Single phase (20 plates / hr)
  - 210 sec

- **Spatial Resolution**
  - 6 pixel / mm (for 14" x 17")
  - 8 pixel / mm (for 10" x 12")
  - 10 pixel / mm (for 8" x 10"")

- **Gray Scale Resolution**
  - 12 bits / pixel

- **Dimensions with Cassette**
  - PcCR 1417: 780 x 640 x 340 mm (31" x 25" x 13.5")
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- **Weight**
  - PcCR 1417: 40 kg (88 lbs.)
  - PcCR 812: 15.5 kg (34 lbs.)

- **Power Supply**
  - Single phase 50-60 Hz, 200 VA
  - 100-240 VAC (± 10%) with UPS

- **Regulatory Approvals**
  - FDA - K003256
  - CE

- **Safety Standards**
  - EN 60950, 60825-1:1994, 60601-1-2

- **Minimum Workstation Requirements**
  - Pentium IV 1.8 GHz or higher, Pentium III 500 MHz or higher, 512 Mb memory, USB port

- **Patent No**
  - US 6,291,831-B1
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- **Software**
  - Orex Acquisition SW: Full control over scanner parameters and settings, anatomic programming, image processing, communication, medical and network monitoring.

For more information, please visit www.orex-cr.com.