# PowerDR™ Digital X-Ray Imaging System

Powerful Radiographic/Fluoroscopic Digital Imaging System on Single Flat panel

PowerDR™ Digital X-ray Imaging System consists of PowerDR Console Application software, computer, monitor, an x-ray imaging DR panel and a web-based mini-PACS.

The PowerDR Console Application software takes an imaging exam order as its input, interfaces to a DR panel, acquires radiographic and/or fluoroscopic image, passes the acquired raw images to RADinfo SYSTEMS' AccuImaging image processing and produces a full fidelity high resolution diagnostic quality image. The image will be stored and managed in a local web based mini-PACS and/or in a cloud server for long-term storage and disaster recovery purposes.
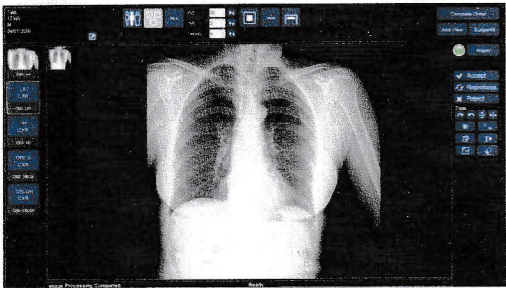
Radiographic Image Acquisition
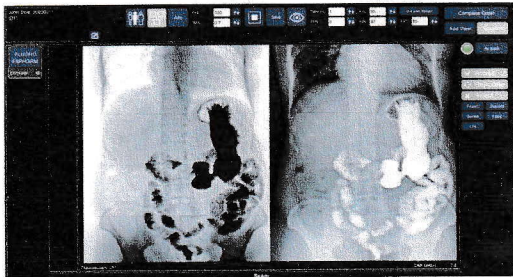
Fluoro Image Acquisition

- **Modality Worklist and manual exam order entry**
  The software can interface with Modality Worklist (MWL) server to obtain patient and study information of an exam order. As well, an exam order can be manually inputted from the data entry module.

- **Intuitive GUI to select desired study procedures**
  The well designed GUI allows the user to select body part from a set of anatomic body views. Each view specifies different scan orientations for images to be acquired, which includes an optimized x-ray technique to be used in the x-ray exposure and image processing parameters to be applied to the acquired image.

- **Procedure code mapping**
  The procedure code mapping of the software is based on current CPT code along with an easy to use tool allowing users to customize any and all exam codes. Procedure code mapping streamlines workflow linking each code to a pre-defined scanning protocol in one click.

- **On-board memory to secure scanned raw image**
  In an unstable network environment or when using a portable device, software can resume image transfer from the on-board memory to a computer. This will eliminate the need for image retakes, thus avoiding unnecessary x-ray exposure to the patient.

- **State- of- the- art image processing algorithm provides the highest quality diagnostic images**
  PowerDR acquisition software uses RADinfo SYSTEMS' FDA approved Artificial Intelligent image processing algorithms to generate the highest quality diagnostic image for all medical professionals.

RADinfo SYSTEMS™

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Delivering Solutions that Meet Your Vision™

PowerDR™ Digital X-Ray Imaging System

PowerDR Acquisition View Setting Screen

Dual Purpose Rad and Fluoro Flat Panel

• Advanced QA and imaging tools to optimize workflow

A complete acquisition software with an intuitive user interface provides fast image acquisition, image review, reprocessing and user customized workflow management tools to maximize efficiency and optimize patient flow.

The QA and imaging tools include but are not limited to:

- Auto Cropping
- Shuttering
- Exposure Index
- Suspend Study
- Stitching
- Markers/Annotations

- Change Image Orientation
- X-Ray Exposure Statistics
- Zoom and Window/Level
- Auto Grid Suppression
- Built-in Email Capability
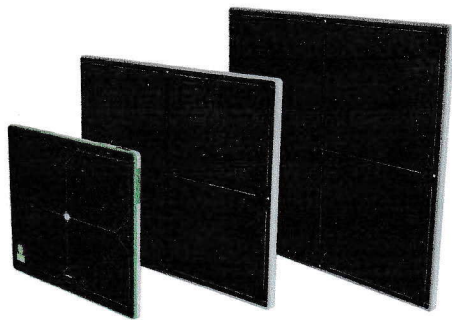- Modify Image Processing parameters

• Image Acquisition

Radiology Image
- Configurable dates to reprocess scanned image
- Full resolution image preview for scaned image
- Support pending and suspend of scanned image
- Auto accept scanned image
- Allow multiple images scanned in one view
- X-ray exposure report
- On line procedure mapping utility
- User configurable study work list

Fluoro Loop Image
- Up to 60 FPS for fluoro image acquisition
- Up to 30 FPS for high resolution fluoro loop image acquisition
- Last image hold
- Record entire fluoro loop or partial frames
- ROI boundary detection and auto x-ray on-off control
- Display Air Kerma for fluoro loop images

• Web Based mini-PACS

Integrated RADinfo web-based mini-PACS with PowerDR digital x-ray imaging system provides the practice a complete x-ray imaging and archiving solution. The system distributes full-fidelity DICOM images to diagnostic or clinical viewing stations through our self-loading FDA approved (RSVS) viewer. With the concurrent license web-based PACS, there is no appication or viewing software to manually distribute nor any need to configure any complex DICOM communication.

About RADinfo SYSTEMS™

Established in 1993, RADinfo SYSTEMS develops and supports Cloud computing, Windows-based, DICOM-compliant software for PACS, Teleradiology and image/information systems management. With products installed at hundreds of locations throughout the world, RADinfo SYSTEMS is also a systems integrator, bundling our software with modality and hardware manufacturers' products to provide complete information and image management solutions backed by around-the-clock technical support. In addition to developing the interface software that exist on modalities today, the privately held RADinfo SYSTEMS supplies software products and system development for many major modality and healthcare product vendors.

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