Meridian
Leading Technology
CR to DR Conversion
With the Affordable Care Act of 2016 requiring full conversion from CR to DR, Meridian has developed an upgrade path for virtually every radiographic system currently installed in your hospital. Our next generation products offer the ultimate in image-critical technology and flexibility. They are the ideal solution for CR to DR conversion.

Provide your patients with highest resolution, fastest acquisition, lowest dose, and the most flexibility digital radiology upgrade solution available.
1. Digital Conversion Life Cycle Management
   - Digital Equipment Needs Analysis
   - Equipment Survey
   - Conversion Plan
   - Life Cycle Management

2. CR to DR Conversion Options
   - Retrofit Existing Equipment
   - Radiographic Rooms
   - Mobile X-Ray
   - RF Rooms

3. Meridian DR Features
   - Flat Panel Detectors
   - Operators Console Options
   - Workflow

4. Digital Radiology Support Services
   - SmartGuard ®
   - Security

5. Digital System Configuration
   - Mobile
   - Stationary Room
   - Room Share
Digital Conversion Life Cycle Management

Technology Planning
Meridian offers a cradle to grave needs analysis for our customers who are looking to convert from CR to DR over the next year. We start by evaluating your current installed base and determine the best progression based on needs and budget. We identify what, when and how to integrate DR without affecting workflow.

Conversion Plans
After understanding your needs, Meridian develops an in depth conversion plan. This includes identifying systems that are end of life, what should be refurbished, and what systems can be upgraded to digital without additional repairs. This includes mobile x-ray, fixed radiographic rooms, fluoroscopic, and other x-ray producing devices.

Ongoing Support
Once systems are installed and operational we offer a full support program for all digital systems. This can include 24 x7 call center, remote monitoring, remote diagnostics, product life technical support, updates, and drop protection.
CR to DR Conversion Options

Meridian DR Conversion
Digital Radiography Conversion is accomplished installing the DR Conversion Kit into an existing analog fixed or mobile radiographic room. The kit can be added to any system that produces an x-ray. The kit is made up of a digital x-ray detector, digital acquisition software, operators console, and the necessary components that allow proper interface to the x-ray system.

Meridian Monarch UHD R
The Meridian Monarch UHD room conversion kit is used for upgrading RF and Radiographic rooms to digital. This kit provides the world's first 23 inch 4k fixed workstation allowing you to see what the detector can see. The kit can include up to three detectors per room. Digital detectors may be fixed or wireless and come in sizes of 10x12, 14x17, or 17x17. Meridian offers a turnkey solution for every x-ray room.

Meridian Monarch UHD M
The Meridian Monarch UHD Mobile offers a dynamic solution to all mobile x-ray solutions. Our feature component is the 4k, 20 inch tablet that functions as the operators console and is typically mounted on the coulomb of the mobile unit. The kit features a 20 inch quick disconnect 4K operators console that displays the resolution of a conventional 1080P workstation.

Meridian Monarch UHD RF
The Meridian Monarch RF offers the same performance as the UHD Rad kit. The detector is used in the wall, table or spotfilmer device. Digital detector sizes are typically 14x17 or 17x17. The kit features a full 4k fixed workstation.
Meridian DR Features

Introduction To Monarch 4K Workstations

Mobile 4K

When you need ultimate clarity and detailed images, reliable image acquisition coupled with the ruggedness required for digital mobile x-ray system, Meridian’s Monarch UHD4K is your system of choice. The Meridian Monarch UHD features our exclusive 20-inch mobile tablet “operators console”. The acquisition console offers an impressive 3840 x 2560 display resolution which is a factor of four over that of typical acquisition stations. And, with it’s advanced software; it displays images at speeds twice as fast as most other workstations. The Monarch UHD 20’ mobile tablet is built for medical applications and as such meets the stringent requirements of toughness, reliability, exposure, and performance. The waterproof design of the Monarch UHD 20” mobile tablet enables it to withstand the near-constant wipe downs required to maintain 100% sanitation compliance. A little over five pounds in weight and less than an inch thick, the Magnesium Alloy Chassis and GFRP rear case protects for everyday use and meets the tough demands of today’s mobile digital requirements. Featuring a display of nearly 10 million pixels for a truer representation of radiographic images, the Monarch UHD digital control station is a tool radiology imaging professionals can’t afford to be without.

Meridian In-Room Fixed Workstations

Meridian In-Room workstations features the latest technology processors and software. The workstations are 64bit and will run on Windows 7, 8, or 10 Professional Software. You won’t have to worry about operating system changes because software updates are provided at no cost for the life of the product. Our feature in room workstation is a 23 inch 4K All-in-One Touch PC. If your IT department requires a different PC model, we will accommodate them as long as it meets our rigid specifications.
Meridian DR Features

Meridian Digital Radiology Operators (DROC) Software

Operators software is intuitive and easy to use yet powerful and fast. Preview images are displayed in one sec and complete images are in five seconds or less. You won’t have to worry about Wi-Fi disconnects since Meridian uses “high end” Cisco access points for panel connection. You have the choice of AED or Meridian’s new Surefire™ Blue Tooth wireless trigger connection. You won’t radiate the patient unnecessarily and won’t see a false trigger or non trigger with Surefire™. When you combine the power of Toshiba’s Quad Cell Technology along with Symphony our enhancement software and our 4K displays, you end up with the new gold standard for image quality.

Additional DROC Features

The Meridian Monarch is a powerful tool for getting the job done. Additional features include

- Three Complete Stitching options
- DAP Integration
- EPIC Integration
- Start Stop Exams
- DMWS
- MPPS
- Chiro Tools
Life Cycle Management

Technology Planning
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Key Features

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Meridian is a strategic partner of Toshiba, the developer of the 5th Generation Quad Cell Technology in each of its flat panel detectors. Incorporating this technology has enabled Toshiba to develop a detector that provides an image quality second to none in the industry. The results create detectors that produces excellent images at the lowest dose possible. As a member of Image Gently, Meridian prides itself on the ability to follow AHRA and the Association of Pediatric Imaging guidelines to insure ALARA. Toshiba detectors and software has been FDA cleared for pediatric applications.

**FDX3543RPW**

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**FDX2530RPW**

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<tr>
<td><strong>DQE</strong></td>
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<td>&gt;70%</td>
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Flat Panel Detectors

FDX4343RPW

PANEL  Specifications
FDX4343RPW  Cesium Iodide (CsI)
Scintillator + Amorphous Silicon (a-Si) Photodiode

Effective Field of View
Horizontal:  430mm
Vertical:    426mm

Pixel Quantity
Horizontal: 3026
Vertical:   3040

Pixel Pitch:
140um

Weight:
11lbs

Battery Capacity
3400ma hrs.

MTF:
33% at 2 lp/mm

DQE
>70%

Resolution:
3.7Lp/mm
SmartGuard™

Meridian SmartGuard™ provides a full support package for your digital upgrade systems. It starts with a comprehensive warranty on components that make up the system.

- Full Three Detector Warranty
- Full Three Year PC Warranty
- One Year Accidental Damage Protection
- All Updates to include Windows Operating Systems.
- Unlimited Phone Support
- Remote Diagnostics for Three Years

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