

## Monarch Workstation

*Monarch 3 uses the latest digital imaging processing techniques to acquire, store, retrieve, transmit and print medical images for immediate review and disposition.*

*Monarch provides DICOM 3.0 interfaces to all major worklist providers, PACS, and printers to allow for seamless integration within your healthcare facility. Monarch's image enhancement parameters can be adjusted to provide optimal results and meet specific image requirements.*

## Imaging for the Future



# Monarch

## Image Processing Software & Workstation

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## Introduction To Monarch UHD DR

The latest flat panel technology that includes “Quad Cell Technology” and “Surefire” automatic exposure detection (AED), and you get the most flexible, highest performing DR System available.

## Low Dose starts with Quad Cell Technology

The Meridian Monarch UHD is designed to produce the highest quality images at the lowest dose possible. All Meridian Monarch imaging panels feature our “Quad Cell” technology design which includes direct CsI vapor deposit to increase both contrast and resolution, a reflective layer coating that increases sensitivity by 1.8 times, moisture proof sealing for reliability and long life. Taken together, Meridian provides an overall design that insures the lowest dose possible. Meridian’s flat panel imaging panels use cutting edge “Surefire” automatic exposure detection (AED). You no longer need to trigger the panel with a wired connection to the generator. Monarch UHD senses the x-ray and automatically acquires the image. This enables the Monarch UDH to be used on any new or existing x-ray capable system.



## Flexibility For All Of Your DR Applications



Attach the Meridian Monarch UDH to any analog mobile x-ray system and that system becomes digital immediately. No wires, no physical changes, no interference with the existing design. It’s simply an add-on device that acquires the image when x-ray is sensed at the imaging panel. If you need to remove it from the system, a quick release allows you to remove the 20” mobile tablet control console. Take your mobile imaging panel and your tablet control console to any other x-ray producing equipment and it converts that system to a digital radiographic system immediately. The 20” mobile tablet control console can drive up to three imaging panel detectors. Use any combination of panels in any room. The detectors are film cassette sized and can be used anywhere a CR or film cassette is used. This makes all your installed x-ray equipment of any make, model or age, “digital ready”. Monarch DR Imaging Panels are available in 10x12, 14x17, and 17x17 sizes. All panels feature “Quad Cell Technology” with Automatic Exposure Detection (AED).

Purchase your Meridian Monarch UHD DR with confidence. The most comprehensive warranty program available backs the Meridian UHD DR system. This includes a full 3-year warranty against manufacturing defects on the Control Console Tablet and a 2-year full replacement warranty on the imaging panel. You can also upgrade your support program to a full 5-year protection plan that includes drop, fire, theft, and warranty service on all components.



## Monarch UHD Specifications

### CONTROL STATION & SOFTWARE

Windows 8.1 Pro Intel® Core™ i5-3437 GHz vPro™ Processor - 1.9GHz with Turbo Boost up to 2.9GHz, NVIDIA GeForce GT 745M, 2GB dedicated VRAM, 256GB SSD, 8GB RAM, HD 720p

### DURABILITY

2.5-foot drop rating (bottom side), 1-foot drop rating (26 drops), Magnesium alloy chassis and GFRP rear case

### DISPLAY

20” 4k 3840 x 2560 LCD with LED backlighting, 10-point capacitive multi touch with optional optical pen, IPS alpha display, Ambient light, magnetic, gyro and acceleration sensors, Automatic screen rotation, 15:10 aspect ratio

### INTERFACE & EXPANSION

USB 3.0, SD card (SDXC)

### WIRELESS

Wi-Fi and Bluetooth®

### DIMENSIONS AND WEIGHT

18.7”(L) x 13.1”(W) x 0.5”(D), 5.3 lbs.

**SECURITY** Built-in Smart Card reader, Security Cable Loop

### PANEL & SOFTWARE DROC 3.2

FDX3543 Cesium Iodide (CsI) scintillator + Amorphous Silicon (a-Si) Photodiode

### Effective Field of View

Horizontal: 345mm

Vertical: 426mm

### Pixel Quantity

Horizontal: 2466

Vertical: 3040

**Pixel Pitch:** 140um

**Weight:**

3.1kg

**Battery Capacity**

3400ma hrs.

**MTF:**33% at 2 lp/mm

**DQE**

>70%

**Resolution:**

3.4Lp/mm