

# MDR<sup>®</sup> Video RP



## Send Video Clips to PACS, Burn and Label Disks at the Modality

### Why MDR Video RP?

- ⚙ Records images to DVD/CD-R in DICOM Part 10 format with label and viewer
- ⚙ Media Import function
- ⚙ Compatible with almost all video-based systems
- ⚙ Expands capabilities of DICOM modalities
- ⚙ Modality Worklist, Automatic Character Recognition (ACR) or keyboard patient data entry
- ⚙ Large capacity internal hard disk is always ready for recording
- ⚙ Highest image quality
- ⚙ Transfers to network as DICOM Store SCU

### Technology Designed for Medicine

MDR<sup>®</sup> Video RP is a medical device which records high-resolution streaming video to CD/DVD or USB media in a DICOM format. Includes automatic, full color label printing with patient and exam data.

### Applications

MDR Video RP is ideal for use with c-arms, x-ray fluorography, angiography, ultrasound, endoscopy and vascular imaging systems. Its ability to capture long video segments and transfer full-motion clips to PACS or disk offers advantages for both non-DICOM and DICOM modalities. It improves workflow and communication in a wide range of clinical applications including speech pathology, echocardiology, endoscopy and radiotherapy planning. MDR Video RP is a self-contained, compact system which installs easily on portable modalities, surgical carts, and fluorographic systems.

### Burn and Label Disks in the Same Drive

MDR Video RP integrates a printer that burns data onto the disk and prints a full color inkjet label within the same drive. This technology provides a compact and completely self-contained solution, easily adapted to any imaging system—innovative, cost-effective and portable.

### Write DICOM Images to USB Media

In addition to CDs and DVDs, MDR Video RP can download exams directly to USB storage media with a DICOM viewer. A convenient USB 2.0 port is located on the front of MDR Video RP for this purpose.

### Convenient and Intuitive User Interface

The user interface for MDR Video RP is conveniently located in a separate unit. A web based user interface is also available.

## Specifications

### DICOM Part 10 Compatibility for Recorded Disks

#### Ethernet 10/100/1000

#### DICOM Storage Class SCU

#### DICOM Storage Class SCP

#### DICOM Modality Worklist

#### Video Input/Output:

- High resolution monochrome to 160MHz pixel clock frequency
- High resolution RGB to 136MHz pixel clock frequency

#### Interlaced and non-interlaced formats

- Monochrome up to 2048 x 2048
- Standard NTSC/PAL S-Video formats
- DVI-D input using DVI-D/VGA adapter (sold separately)

#### Video Record Rates

- User selectable frame rates: full, 1/2, 1/3, 1/4, 1/5, 1/6, 1/7

#### Video Record Modes

- Prospective - User defined limits, time and frame rate
- Sequential - Conventional, Record Start/Stop control
- Snapshot - High resolution still frames from streaming video

#### Image Review

- Last cine hold/playback with frame by frame review
- Last image delete
- Image recall with frame by frame review

#### Image Compression

- JPEG
- JPEG 2000

#### Audio Input/Output

- RCA input/output
- Audio recording capability

#### Optional Accessories (sold separately)

- Compact Keyboard PS2/USB
- Dual remote input foot switch or interface cable
- Hand switch
- Monochrome input video cables
- VGA to VGA input cables
- DVI-D to VGA adapter
- Video splitter/amplifier

#### ACR - Automatic Character Recognition

- Patient Name
- Patient ID
- Accession Number

#### Media Formats

- DVD+R (12cm 4.7GB)  
Typical data record rate 21.6MB/s
- DVD±RW (12cm 4.7GB)  
Typical data record rate 10.8MB/s
- CD-R, CD-RW (12cm 700MB)  
Typical data record rate 2.4MB/s

- We recommend WaterShield media for the best image quality, durability and performance
- USB 2.0

#### Storage Capability

- All image data is cached to MDR's internal 250GB (minimum) hard drive with hours of video recording capacity which is always ready to record.
- Maximum record length for DVD between 17.5 minutes and more than 120 minutes depending on incoming video source specifications, frame rate, compression type and compression quality settings selected by the operator.

#### Playback Compatibility

- Images may be viewed using any DICOM workstation with multiframe playback capability or Windows PC with appropriate format drive, using the MDR DICOM Viewer written to MDR recorded media.

#### MDR DICOM Viewer

- Allows review of MDR recorded images in a DICOM format from any Windows PC
- Supports fast and efficient playback of extended multiframe series and single images
- Features cine clip trim tools to set start and end frames for review and export of clips or single frames
- File export video clips and single frames from clips to DICOM and Windows media formats
- Windows printing and e-mail utilities

#### Electronic Scribing Process (ESP)

- DICOM disks from most other burners can be labeled and a viewer added using MDR Video RP

#### Media Import Function

- Exams from DICOM media can be imported to MDR Video RP and sent to PACS

#### Disk Labeling

- Inkjet printer using RadialPrint Technology
- Single CMYK color ink cartridge

#### Physical Characteristics

- Dimensions: Height 150mm (5.9") x Width 267mm (10.5") x Depth 394mm (15.5")
- Weight: 12.3kg (27 lbs.)

#### Power Input

- 100-240 VAC, ± 10%, 47-63Hz, 140 VA

#### Classification

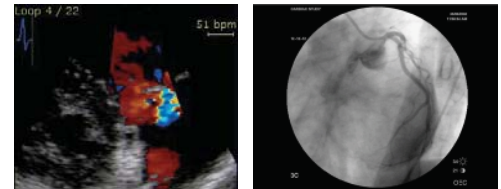
- IEC 60601 Class I, No Applied Part
- EN 60601-1-2 Class B, Group 1
- IEC 60529, IP 21

#### Agency Approvals

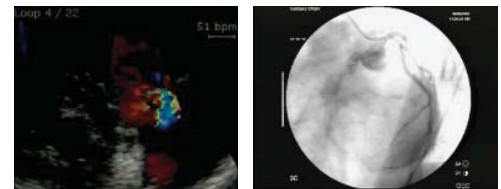
- UL 60601-1 (1st Edition)
- EN 60601-1-2; CISPR 11B
- CAN/CSA C22.2 No 601.1-M90

## Superior Image Quality

Compare the MDR image quality, clarity and details from high resolution monochrome and RGB sources with its competitors.



MDR RGB INPUT TO DICOM OUTPUT



MEDICAL DVD RECORDER, S-VIDEO INPUT TO MPEG OUTPUT



Windows is a trademark of Microsoft Corporation. RadialPrint is a trademark of Elesys, Inc. Watershield is a trademark of JVC. MDR is a registered trademark. Medical Digital Recorder is a trademark of PACSGEAR, Inc. © 2010

