

MDP-S SOLUTION – MEDICAL DISC PUBLISHER



MDP-S Solution for all Primera Disc Publishers

Concept

The MDP-S Solution is able to drive CD/DVD robots of the Primera Disc Publisher series. Thus, image data can be written automatically to CDs or DVDs. The label is also printed automatically by an inkjet printer integrated into the robot.

The MDP-S Solution receives the images from the modalities or workstations by TCP/IP DICOM.

The stack of empty media has to be put into one compartment of a Primera Disc Publisher. The robot takes one media after the other from the stack, writes the data, prints the labels and puts the written media into another compartment.

The "Multi-User" functionality enables the use of different disc labels for different DICOM send knots.

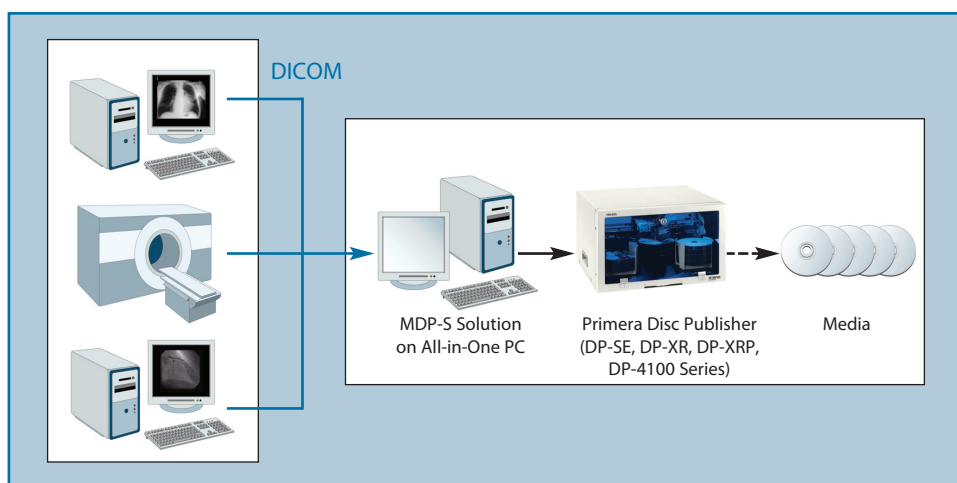


Fig. 1 The MDP-S Solution is a modular system and can be used to write patient CDs or backup-media, depending on the demands. In case the data volume is too big for one media, the files are splitted and written on two.

Patient CDs

Using the module Patient CD Robot Manager, patient CDs can be produced. Each CD contains the images of one patient.

The Patient CD includes a viewer with different image processing functions: e.g. window leveling, rotation, mirror, zoom, Windows print, etc.). The images can be viewed on any standard PC.

Furthermore, a DICOMDIR file is added to the CD to enable the user to load the images to the existing DICOM workstation of any other manufacturer.

Sending burning jobs from a modality, multimedia patient CDs can be produced containing images as well as documents. For example, the following file formats are supported: images (dcm), text (doc, txt, pdf, dcm SR), film (avi).

Disc Encryption (optional)

Patient CDs created with the MDP-S Solution comply with the strict British regulations regarding Patient CD encryption. For each CD a unique encryption key is generated. To open an encrypted Patient CD, a password needs to be entered.

Image Backup CDs

Using the module Backup CD Robot Manager, the images of several patients can be written together on the same media.

The DICOMDIR file is added to the CD to enable the user to load the images to the existing DICOM workstation of any other manufacturer.

The image data are sampled until the capacity of the used media has been reached. Then, the Backup CD Robot Manager starts to burn the media.

Please note that only the image data and corresponding DICOM headers are stored on the media, not the whole database.

Burning DVDs

The module DVD Extension can be added to the Patient- or Backup-CD Robot Manager to burn DVDs instead of CDs.

Modular Solution

The MDP-S Solution is compatible to all Primera Disc Publishers. Whether you need a low cost solution or a high-volume production system you can get it with Primera's modular disc publishing solutions that grow with your needs.

Recommended Hardware:

- Pentium IV CPU with at least 1.6 GHz, or comparable AMD processor
- Minimum 1 GB RAM
- Minimum 80 GB free memory
- NTFS drive partition
- Network card and TCP/IP network to receive images via DICOM protocol
- CD drive to install software
- USB 2.0 connection to connect the Primera Disc Publisher
- Primera Disc Publisher
- Media types: High quality CDs and DVDs with printable surface depending on the selected robot

Included in Solution:

- All-in-One PC with Monitor, Keyboard and Mouse
- Operating System: Windows® XP or 7
- MDP-S Solution for Primera with modules corresponding to the demands:
 - Patient CD Robot Manager
 - Backup CD Robot Manager
 - DVD Extension



Fig. 2 Examples of patient CDs with individual label designs for doctors or hospitals