

DMC-EZ 3000

DMC-EZ

DICOM Media Creators

Product Overview



TEAC
DISCSPRINTER

DMC-EZ Medical Software

- Intuitive Browser-based User Interface
- Creates IHE DICOM-compliant CDs and DVDs
- On-demand CD/DVD Creation for DICOM Studies
- Automatic Disc Creation using Powerful Rules Based Scheduling
- Multiple AE Title Capability
- Includes Multiple Viewers for Disc Distribution
- Include Diagnostic Reports and Non-DICOM Data on CD
- Ability to View Complete Report on Disc with Images and Hyperlinks
- Flexible Disc Labeling Options
- Study Disc Anonymization
- View Thumbnail Images prior to Disc Creation
- Built in Web Server and Web Viewer for Alternative Distribution of Images and Reports
- Image Distribution via USB Flash for Easy Use by Referring Physicians
- Study Disc Encryption
- Rules Based DICOM Routing
- All CD/DVD Disc Activity Recorded in Audit Logs (HIPAA)
- Back-Up Configuration and Database to USB or CD/DVD Media Which Allows Easy Restore
- Import Data from CDs and DVDs Your Facility Receives

TEAC DiscSprinter Hardware

- Fully Automatic Disc Publishing System
 - 3 CD/DVD Recorders for increased throughput and continuous up-time
 - Embedded CPU w/2 SATA Hard Drives, 2GB RAM, Windows XP
 - P-55 C Dye Sublimation Printer and Thermal Fusion Printer
 - High Resolution 400dpi Variable dot print technology
 - Scratch-proof, water proof, no fade print technology
 - Two 50 Disc input / One 100 Disc Output / 5 disc sorter output
 - LCD Touch Pad Control
 - Monitor, Keyboard and Mouse
- **High Volume System**
 - **Medium to Large Imaging Centers and Radiology Departments**
 - **50-500 Discs Per Day**



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DMC-EZ 3000

Features and Benefits

- **Intuitive Browser-based User Interface**

Easy-to-use, intuitive user interface, local language support, designed in cooperation with leading practitioners.

- **DICOM Compliant**

The DMC-EZ works in any standard DICOM environment, allowing hospitals and clinics to simply burn and label a customized set of DICOM studies onto CD/DVD. The CD/DVD study data can be read by any DICOM compatible viewer or imported into any DICOM-compatible system/archive. The CD/DVD media created by the DMC-EZ are fully IHE compliant.

- **Automated and/or Manual Operating Modes**

The DMC-EZ has the ability to automatically create CDs and DVDs using rule-based schedules or manually create media using our web interface. The rule-based schedules along with the image cache on the DMC-EZ server allow the facility to optimize their robotic hardware to handle large and small jobs. The DMC-EZ software can be configured to run bulk media writes at night as well as intelligent spanning of data across discs to minimize frustrating "disc swapping."

- **Multiple AE titles and Scheduling**

DMC-EZ systems have the capability to maintain multiple AE titles, and with our rule-based scheduling, can be configured to automate most of the disc creation workflow. An example would be a rule that automatically creates a CD for each CT exam sent to the DMC-EZ. (AE title and corresponding schedule would be "CT Patient CD") In addition, we could implement a date/time schedule which would archive all of the CTStudies to DVD at the end of the day. Media creation rules can be easily configured using AE Title, Sending Device or DICOM Tag.

- **DICOM Viewer Included**

Discs created with DMC-EZ systems include a series of industry standard DICOM viewers (e.g. EZDICOM, OsiriX - Macintosh viewer) for clients without their own DICOM viewing software. This makes all your DICOM study discs "ready to read".

Many OEM viewers can be added, please contact sales if you have questions.

- **Include Diagnostic Reports and Non-DICOM Data on CD**

DMC-EZ can fetch reports from PACS, PACS Broker and RIS utilizing SR or HL7. Software can also attach Non DICOM Data to studies (i.e. pdf, word files, etc..)

- **Ability to View Complete Report on Disc with Key Images and Hyperlinks**

DMC-EZ also has the ability to integrate the Diagnostic Report with Key Images (Hyperlinks), leading referring physicians straight to the most relevant images.

- **Labeling Capabilities**

The DMC-EZ medical recording software allows for simple generation of unique and customizable labels including logos, patient demographics, volume and study information as well as customized user comments.

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Features and Benefits

- **Study Disc Anonymization**

All DMC-EZ models allow anonymization of discs to ensure patient confidentiality of images used in instructional and conference presentations.

- **View Image Thumbnails Prior to Disc Creation**

DMC-EZ gives the user the ability to view series and image details prior to disc creation. Features help eliminate costly errors and saves valuable time at each site.

- **Image Distribution via Web Viewer for Easy Use by Referring Physicians**

The Easy-to-use web viewer is designed to allow practitioner to view studies with reports in seconds. Full featured reference viewer provides a complete set of Radiology measurement and annotation tools (Distance, Angle, ROI, Reference Lines, etc.). Multi-modality support: single frame (CT, MRI, CR) and multi-frame (U/S, XA) capability. User can easily print selected images to Windows printer for reference.

- **Image Distribution via USB Flash for Easy Use by Referring Physicians**

DMC-EZ systems can create zip files of patient studies and record to USB Flash devices. Zip files can also be sent via email to referring physicians.

- **Encryption**

DMC-EZ software provides the option to encrypt data on the disc. This has become increasingly important in some countries and states with stringent privacy concerns and need for regulatory compliance.

- **DICOM Routing**

DMC-EZ includes rules based DICOM routing as a standard feature. Automated routing allows the facility to send exams to a specific destination based on unique DICOM tags.

- **HIPAA Readiness**

All DMC-EZ activity is recorded in audit logs and archive logs. Logs can be exported via email or network transfer on an automatic basis each day. These logs enable the facility to track CD/DVD activity for HIPAA purposes and also can provide a shelf management system for media stored in house.

- **Automated Back-Up and Restore**

DMC-EZ provides a simple utility which can be set to automatically back up all configuration, label, database and network settings to USB Media, CD/DVD or Network. The utility provides enhanced serviceability as the backup provides an easy way to restore the system if hardware is replaced.

- **Media Import from DICOM Discs**

DMC-EZ systems include an import utility "EzDicom Sender" which makes it easy to import data from DICOM Part 10 compatible CD/DVDs received from outside facilities. The user can simply import selected patients and/or studies and send to PACS Server or other DICOM destination.

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Hardware Overview

- **TEAC Fourth Generation DISC Publishing System**
Disc Publishing System designed for mission critical applications with technology adapted from the Aero Space and Commercial Recording Industries.
- **Increased Durability and Enhanced Serviceability**
New robotic arm and picking mechanism which provide increased reliability and reduction in service problems. Introduction of industrial quality recording drives which provides 3 times the MTBF over the consumer drives used by the competition.
- **Latest Generation Dye Sublimation and Thermal Fusion Printing**
High resolution edge to edge printing. Scratch-proof, Water proof, no fading. High Resolution 400dpi Variable dot Print Technology also employs a new ribbon technology called "Versamax" which allows high quality print on any media type.
- **Fully Automated Disc Creation**
3 CD/DVD Recorders for increased throughput and continuous up-time State of the art processor and hard drives provide robust media cache and rapid disc creation. Two 50 Disc Input, One 100 Disc Output and 5 disc sorter output provides flexibility and easy access to the end user.

Specifications

TEAC DiscSprinter

DiscSprinter consists of the WPB- 55T Robotic Publishing base unit that has 3 CD/DVD recorders, two 50 Disc input bins, one 100 Disc Output bin, 5 Disc Sorter, an Embedded High Performance PC, with Windows XP Pro, and Point Publisher software that integrates with the WPP-55T-200 Dye Sublimation Thermal Printer.

Power: 100VAC - 240VAC \pm 10%, 50/60Hz

Operating Temp: Temperature: 59°F - 86°F (15°C - 30°C)

Network: 10/100/1000 Ethernet interface

Physical Specifications -

23" W x 28" D x 26.5 H (585mm W x 715mm D x 675mm H)

115 lbs. (52 Kg)

- High Volume System
- Medium to Large Imaging Centers and Radiology Departments
- 50-500 Discs Per Day