

## Automated CD/DVD production for medical imaging



### Distribute and archive your imaging studies on CD and DVD.

MARS is especially designed for **distributing patient CDs** and for **automatically archiving your images on DVD**.

Three complementary use modes:

- Web mode: Users select the images they want to record manually through queries to the PACS (Query and Retrieve).
- DICOM mode: MARS automatically produces a disc as soon as images are received from an imaging modality.
- Control through an information system: Upon receiving orders or documents from the RIS, MARS automatically searches for associated images and records a disc.

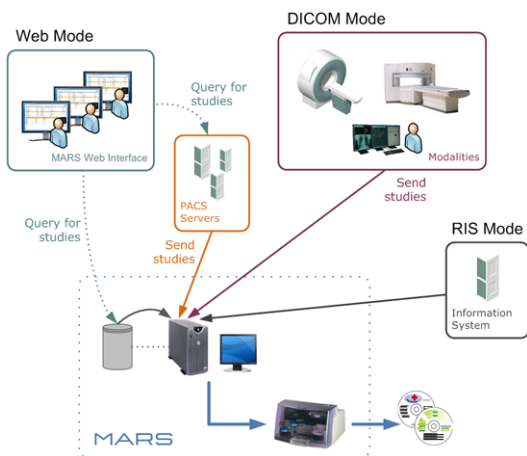
The user interface makes it possible, among other things, to **monitor the progress of recording jobs**, abort, duplicate jobs and to **prioritize them**.

With the **multi-user Web mode**, users can launch CD or DVD recording jobs from any computer within the institution.

The administrator's interface offers **extended content** and recording workflow **configuration and customization capabilities**.

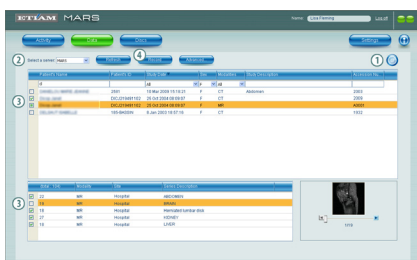
MARS is a **multimodality** solution. It supports formats such as CT, MR, CR, multiframe (angiography) and ultrasound, and also **motion video** (endoscopy, operating room camera, ophthalmology, dermatology, anatomopathology...).

When a recorded disc is inserted, key images and the report **automatically display** in the LiteBox viewer.

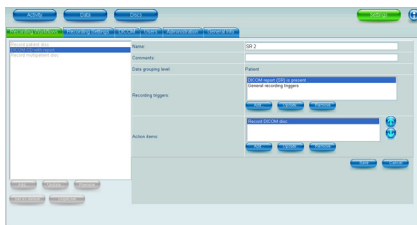


## Product Offer

- **Average daily production: 20 discs**  
MARS 10d (Primera SE)  
1 drive, 80 GB  
3 concurrent Web connections
- **Average daily production: 40 discs**  
MARS 16d (Primera Xi2, Primera DP-4102)  
1 drive enabled, 80 GB  
5 concurrent Web connections  
MARS 16s (EPSON PP-50)  
1 drive, 80 GB  
5 concurrent Web connections
- **Average daily production: 80 discs**  
MARS 21d (Primera Xi2, Primera DP-4102)  
2 drives, 250 GB  
10 concurrent Web connections  
MARS 21s (EPSON PP-100)  
2 drives, 250 GB  
10 concurrent Web connections  
MARS 40s (EPSON PP-100N)  
2 drives, 250 GB, network connection  
10 concurrent Web connections



Launching a recording job manually in 4 steps.



Configuring recording workflows.



Custom disc labels.

## Operating Principles

Unified Web user interface for local and remote use.

Ability to send a study to a destination on MARS for automatic recording in accordance with a preprogrammed sequence (workflow) from any DICOM node on the network.

Ability to make up the content of a CD manually (by querying MARS or the PACS, selecting the data to record and choosing a recording workflow).

Images originating from various sources for a single patient can all be recorded on the same CD/DVD (e.g. CT scanner native images and 3D reconstructions).

Handling of large studies by using lossless or lossy compression, or splitting a single study over multiple discs automatically.

Routing of studies after recording to a PACS server.

Association of the radiology report with the study in DICOM or non-DICOM format (Word, PDF, HTML... files).

Automated study archiving on DVD.

Administrator profile to control and supervise recording workflows and user accounts.

Logging of Web sessions and actions in compliance with HIPAA.

A multilingual (French, English, Japanese, Spanish, German... ) universal viewer for Windows and MAC OS X is included on each CD or DVD for easy distribution.

## Interoperability

ETIAM warrants that CDs/DVDs created by MARS may be used by all DICOM-compliant workstations.

MARS manages new value-added DICOM objects:

- DICOM Structured Reports (SR)
- Key Object Selection Documents (*Key Image Notes*) listing the significant images in a study
- DICOM MPEG (video sequences)
- Presentation States (annotations and image processing operations defined by the radiologist are displayed to show regions of interest)

## Certification/Marking

FDA class 1/CE Class 1 Medical Device

Compliant with the IHE Portable Data for Imaging (PDI) profile

## Related Products

CD-in: Solution for automated import of CDs into the PACS.

Print-in: Virtual printer for converting any printable documents to DICOM (including reports).

## Hardware Configurations

Multi-user Web use, buffer storage of images on the local machine (in a database that can be queried over the DICOM network), multiple elaborate recording workflows (including for driving disc production from the RIS).

## Benefits

Extended flexibility through combined use of manual and automatic production modes, associated with customized workflows.

Ability to add the report in different ways manually or automatically.

Automatic detection, filtering and printing of significant images in addition to CD recording.

Automatic data encryption (AES 256 bits) prior recording.

Anonymization, compression... workflows.

Robust and easy-to-use viewer included on discs. Available in various languages and widely acknowledged by prescribing physicians.

Reduces cost and increases productivity compared to radiology films.



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