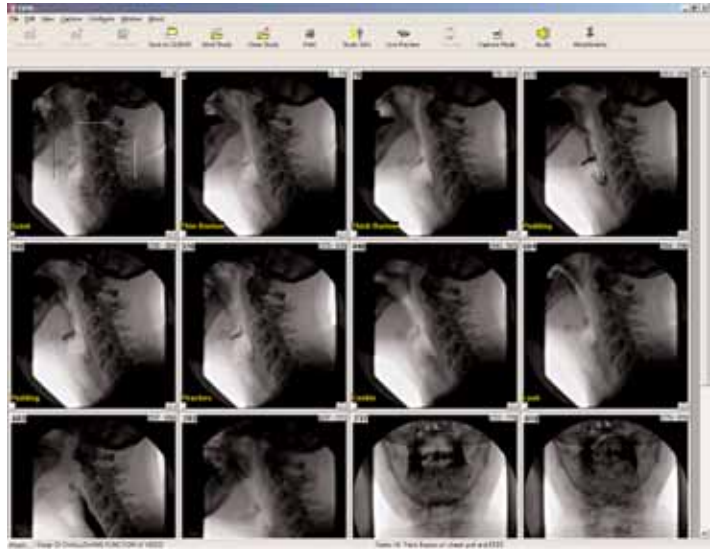


# TIMS DICOM System

## KEY FEATURES

- ▶ Acquire from any medical modality
- ▶ DICOM conversion
- ▶ Static & streaming capture
- ▶ High resolution video capture
- ▶ Synced audio capture & review
- ▶ Capture the entire study
- ▶ DICOM send & receive
- ▶ One-click DICOM send
- ▶ Record to CD/DVD/USB/network
- ▶ DICOM & Windows print
- ▶ DICOM query/retrieve
- ▶ Import/Export AVI, JPG, BMP, PNG
- ▶ DICOM Modality Work List
- ▶ Review & edit studies



## Convert Any Medical Modality to DICOM

- Including Long Format Speech Pathology

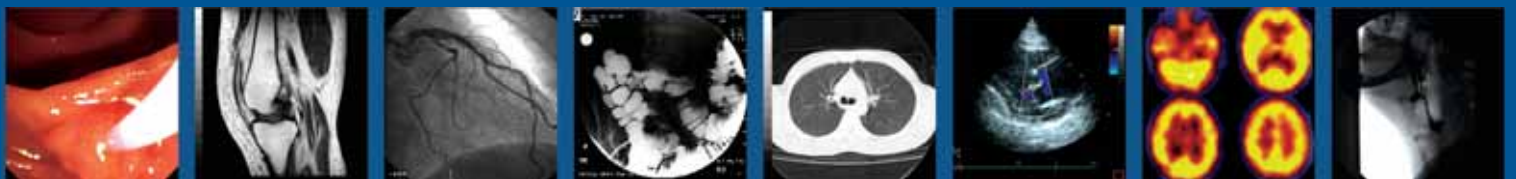
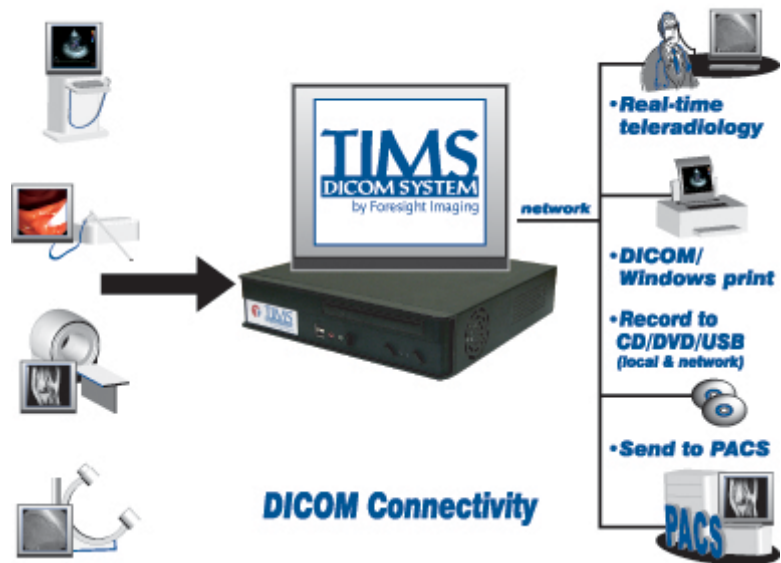
**Problem:** Hospitals and imaging clinics need to convert their non-DICOM medical modalities to DICOM, and they need to record long format studies for speech pathology and endoscopy.

**Solution:** The TIMS DICOM® System. TIMS™ converts any non-DICOM medical modality to DICOM. The resulting digital study can be sent to PACS, recorded to CD/DVD/USB/network, and printed to film or paper. TIMS is available for a small fraction of the cost of a modality upgrade. For speech pathology and endoscopy, TIMS records the entire procedure, and provides special features for the instant review and analysis of the studies.

Yes, TIMS can convert ANY medical modality to DICOM including fluoroscopy, angiography, ultrasound, endoscopy, C-arms, CT/MR, nuclear medicine, cardiac imaging devices, and much more. TIMS captures both static images and motion video at 30 frames per second, including high resolution video formats such as 1024 x 1024 pixel resolution fluoroscopy.

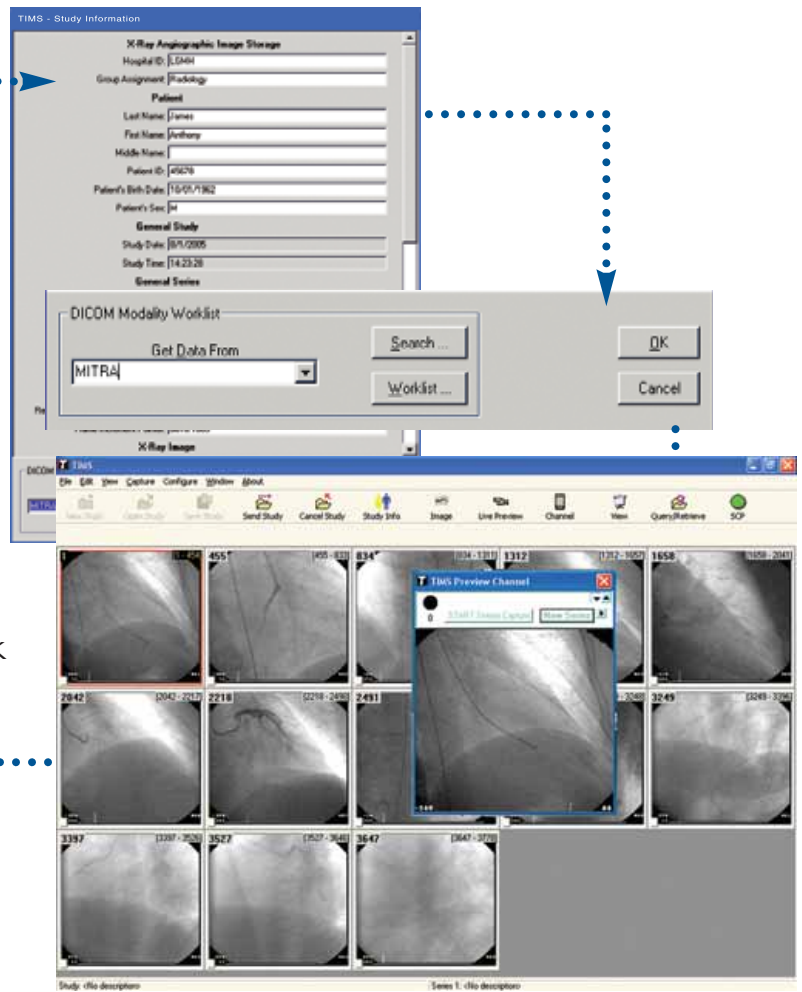
**TIMS, the PACS Connectivity Solution:** TIMS connects any non-DICOM modality to any PACS system. TIMS can send the study immediately to PACS, batch the study with other studies for sending later, or can send only key portions of a study to PACS.

## TIMS, the PACS Connectivity Solution



## SIMPLE WORKFLOW

- 1) Input patient information
  - a) Automatically via DMWL
  - b) Manually
- 2) Acquire images or video streams
- 3) Review & edit study
- 4) Output
  - a) Send to PACS
  - b) Record to CD/DVD/USB/network
  - c) Print



## SPEECH PATHOLOGY & LONG FORMAT RECORDING

Speech pathology, endoscopy, & echocardiography all feature long format recording requirements. Many hospitals are still using low-quality video tape or DVD-video for these studies. With TIMS, they can upgrade to DICOM & instant access! And be confident in having the entire long format study recorded in digital form and available for instant review.



### TIMS 2000 SP

- ▶ Record the entire procedure
- ▶ High resolution (1024 x 1024) for superior image quality
- ▶ Record & review with synced audio
- ▶ Instant, non-linear access to studies (no more fast-forwarding or rewinding!)
- ▶ Viewer included with stopwatch in 100s of a second for timing swallow events
- ▶ Record to CD/DVD/USB/network for playback on your computer
- ▶ Send entire study or portions of the study to PACS
- ▶ Easy editing of the study

**Synced Audio**

The number of applications for TIMS is nearly endless.

Our customers are finding new ways to use TIMS almost every day.

Here is just a small sampling of the applications:

- ▶ Acquire the **entire study** from an angio suite and send to PACS.
- ▶ Acquire simultaneously from a **bi-plane suite** using two TIMS systems.
- ▶ Use TIMS as an **emergency recovery** system to DICOM receive from DICOM modalities if PACS fails.
- ▶ Use TIMS on a mobile cart to perform **DICOM query/retrieve** in an OR.
- ▶ Use TIMS on a **mobile cart** to acquire from several different **C-arms** or modalities in a hospital throughout the day.
- ▶ With an **older open MRI** system, use TIMS rather than spending hundreds of thousands of dollars on a new open MRI system.
- ▶ Use TIMS with an **interventional radiology** system rather than purchasing an expensive DICOM upgrade.

## APPLICATIONS

- ▶ In a busy ultrasound clinic, use TIMS with **progressive DICOM** send to allow for instant reading of the studies.
- ▶ In an **endoscopy** suite, record the entire procedure & burn it to DVD or send it to PACS.
- ▶ At a hospital **without PACS**, use TIMS to archive CT and MR studies to CD/DVD.
- ▶ Record an entire high resolution **speech pathology** procedure and send selected series to PACS.
- ▶ At a teaching hospital, convert all of the archived **echo studies from videotape** to DICOM.
- ▶ And more...with TIMS, the **application possibilities** and cost savings are constantly expanding.

### Import/Export AVI, JPG, BMP, PNG

- ▶ Allows for import and conversion to DICOM
- ▶ Export file formats for integration of studies into presentations and reports
- ▶ Edit in video editors like Adobe Premiere®
- ▶ Ideal for teaching hospitals



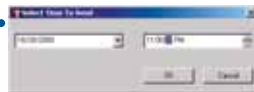
### Configurable Toolbar

- ▶ User-configurable toolbar
- ▶ Streamline workflow according to individual needs by allowing the user to show just a few toolbar icons
- ▶ Or show all toolbar icons for a "power-user" setup



### Multiple Ways to DICOM Send

- ▶ One-click DICOM send
- ▶ Progressive send: send each series immediately as it is acquired
- ▶ Batch/schedule send: select multiple studies to be sent at a later time and date
- ▶ Send selected: select a series or a few series to send to PACS
- ▶ DICOM send lists: specify two or more DICOM send destinations to send studies at the same time



### Record to CD/DVD/USB/Network

- ▶ Archive to removable media or networked storage
- ▶ Provide a copy to the patient
- ▶ Route studies with a viewer directly to any networked computer



## SELECTED FEATURES

### Pre-Defined, Editable Lists

- ▶ Setup a pre-defined list of items to choose from in a pick list to help speed configuration & workflow
- ▶ Available for Series Description, Study Description, Body Parts, Performing Physicians, & Referring Physicians

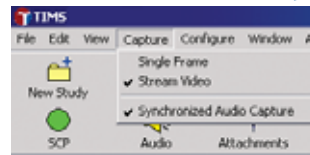


### File Attachments

- ▶ Attach any file to a TIMS study
- ▶ Includes Word files, PDF files, audio files, etc.
- ▶ Record studies with their attachments to CD/DVD/USB/network

### Synced Audio (TIMS 2000 SP only)

- ▶ Record synced audio with video for speech pathology, echocardiography, and more
- ▶ Review synced audio and video on the TIMS system or with the TIMS Viewer
- ▶ Save in DICOM format
- ▶ Send to PACS and record to CD/DVD/USB/network



### Easy Study Editing

- ▶ Simple study editing to reduce file sizes and number of frames
- ▶ Only save the portions of the study required
- ▶ Split & combine or use the "edit with frame ranges" feature

# TIMS DICOM System

Product	Medical Modalities	Static Capture	Streaming Capture	DICOM Send/Receive	CD/DVD Record	Synced Audio
TIMS 500	All Analog & DICOM	●		●		
TIMS 1000	All Analog & DICOM	●		●	●	
TIMS 2000	All Analog & DICOM	●	●	●	●	
TIMS 2000 SP	All Analog & DICOM	●	●	●	●	●

**TIMS Factory Support & Maintenance:** One year of TIMS support and maintenance is provided with each TIMS DICOM System purchase. This includes technical support via telephone, email, and online during normal business hours (8:00 AM to 8:00 PM EST). In the unlikely event of a system failure, a two business day system replacement warranty is provided. Software upgrades as available are accessible via online download in the first year. TIMS Factory Support & Maintenance can be purchased for additional years.

## TIMS 500 DICOM System

- ▶ For all analog & DICOM medical modalities
- ▶ Static capture only; scanner input
- ▶ Convert JPG, BMP, & AVI files to DICOM
- ▶ DICOM send & receive
- ▶ Small footprint computer
- ▶ LCD monitor, installation & training

## TIMS 1000 DICOM System

- ▶ For all analog & DICOM medical modalities
- ▶ Static capture only; scanner input
- ▶ Convert JPG, BMP, & AVI files to DICOM
- ▶ DICOM send & receive
- ▶ Small footprint computer with CD/DVD-RW
- ▶ LCD monitor, installation & training

## TIMS 2000 DICOM System

- ▶ For all analog & DICOM medical modalities
- ▶ Static & streaming capture; scanner input
- ▶ Convert JPG, BMP, & AVI files to DICOM
- ▶ DICOM send & receive
- ▶ Small footprint computer with CD/DVD-RW
- ▶ LCD monitor, installation & training

## TIMS 2000 SP DICOM System

- ▶ For all analog & DICOM medical modalities
- ▶ Static & streaming capture; scanner input
- ▶ Synced audio capture
- ▶ Convert JPG, BMP, & AVI files to DICOM
- ▶ DICOM send & receive
- ▶ Small footprint computer with CD/DVD-RW
- ▶ LCD monitor, installation & training

## TIMS DICOM Gateway Software

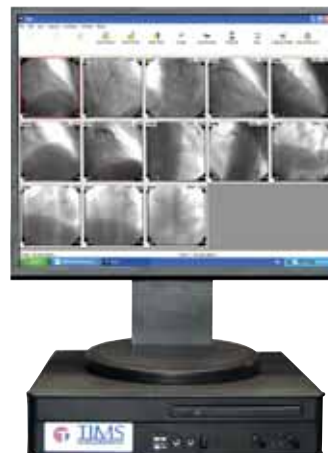
- ▶ For all DICOM modalities
- ▶ Convert JPG, BMP, & AVI files to DICOM
- ▶ DICOM send & receive
- ▶ CD/DVD recording (hardware not included)
- ▶ Computer not included

### Small Footprint Computer

- ▶ Height: 2.75", Width: 11.5", Depth: 11.5"

### Classifications & Approvals

- ▶ FDA 510(k) clearance, FCC Part 15 Class A, CE
- ▶ UL60601-1, EN60601-1, EN60601-1-2, CSA601.1



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