

❖ PACScomm™ CD/DVD Image Recording System

In addition to PACSstor, ODS offers the PACScomm™ CD/DVD Image Recording System which enables health care providers to transfer diagnostic image studies from multiple modalities to CD/DVD media and to distribute images to any DICOM device in the network, eliminating the need to make costly duplicate films for patients and referring physicians. PACScomm is fully automated, web based, and network enabled, with an integrated PC server.

Together, PACSstor and PACScomm provide a secure, expandable, and affordable solution for capturing, storing, managing

and sharing patient records. Yielding significant cost savings and exceptional return on investment, this product team is an affordable solution to support filmless imaging in smaller and pre-PACS departments and specialized operations, such as PET/CT and cardiology, and redundant image storage and disaster recovery in larger operations.

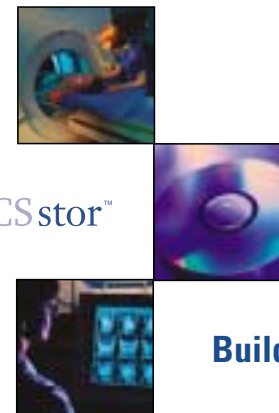
❖ About ODS

ODS Medical ("ODS") is a dedicated business unit of Objective Data Storage, LLC, whose history includes a 25 year market track record as a developer and value added reseller of optical data storage hardware and software solutions. For more than 15 years, ODS has provided information management solutions to health care industry sectors, including radiology and cardiology. ODS's powerful software supports a range of applications empowering medical enterprises to grapple with the significant operational, financial, and strategic challenges of the surge in diagnostic imaging.

ODS serves the North American health care market from its corporate offices in Minneapolis, Minnesota and East Coast Division in Columbia, Maryland.



PACScomm™ | PACSstor™



Building Blocks for PACS

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PACSstor™

DICOM Image Storage System

VERSATILE, LOW  
COST, COMPLETE  
IMAGE STORAGE  
SYSTEM

- ❖ Stores Digital Images
- ❖ Access to Images via DICOM Query/Retrieve
- ❖ Image and Department Management Features
- ❖ HIPAA Program Support
- ❖ Direct, Immediate Savings



❖ **New Concept**

The PACSstor Image Storage System represents a new concept in low-cost complete image storage for medical applications. The PACSstor system includes a fully integrated server, RAID data storage for quick image access, and powerful DICOM image management software. PACSstor accepts DICOM digital images from digital modalities, PACS, and other sources, and provides access to them via DICOM query/retrieve over the client's network.

What sets PACSstor apart is its robust complement of image and department management features, which enable it to function as an independent archive in concert with digital modalities, workstations, and PACS. These features make PACSstor an ideal candidate for redundant image archival and disaster recovery, pre-PACS archival, and a building block for those wishing to move progressively and economically toward PACS.



❖ **Direct, Immediate Savings**

As PACSstor is capable of supporting small or partial department filmless operations, direct savings in film and related costs can easily justify the system.

Example: A conservative estimate of \$5 per film sheet and an average of three views per study yields a per-study cost of \$15; some exams are closer to \$50. The total cost of the PACSstor Image Storage System can be under \$2 per study. On this basis, an imaging operation performing 10,000 studies a year would save well in excess of \$100,000 annually.

❖ **System Features**

In addition to storing and providing access to DICOM digital images, PACSstor includes a number of web-based archive and department management functions which enable it to directly support image workflow.

■ **Receiving and Accessing Images**

- Can store and forward studies sent from any DICOM source, including imaging modalities and PACS
- Stores and forwards received images to other locations
- Provides access to all stored studies via DICOM query/retrieve

■ **Department Management**

- Standard Search: Enables patients, studies and individual images in archive to be located according to choice of query parameters, and also pushed to approved locations
- Advanced Search: Enables user to query studies by location, referring physician and other parameters, and to locate previously merged and deleted studies
- Delete Studies: Study deletion possible according to department policies

- Integrates with ODS Medical's PACScomm™ CD/DVD Image Recording System for image distribution
- Patient Merge: Enables two patient files to be merged
- Management Reports: Lists studies archived in chosen timeframe, volume, and number of studies archived, providing assurance that all studies were archived
- Discrepancy Report: Calls attention to studies that may have been archived with incorrect patient or study information
- HIPAA Support: Password security system and access and utilization logs provide support for client's HIPAA compliance program

Features	Benefits	Features	Benefits
<b>Complete Image Storage System</b>	PACSstor is a complete RAID-based, network attachable DICOM image storage system. Includes integrated server and Image Management software. Directly accessible for image storage and retrieval by DICOM devices.	<b>IMAGE MANAGEMENT FUNCTIONS</b> System enables independent and economical support of filmless digital imaging operation when networked with client workstations and other peripheral devices.	
<b>Flexible Hardware Configurations</b>	Scalable RAID image storage from 1 TB to over 10 TB. Standard system includes server, RAID storage, cabinet and UPS. Rack mountable version is also available.	<b>Patient/Study Search</b>	PACSstor web-based software supports database queries by various DICOM attributes, including patient name, ID, accession number, date range, location, etc.
<b>Integrated Server</b>	Powerful server maintains database of patient and study information for all studies stored in the system and permanent logs for HIPAA compliance.	<b>Study Push</b>	Studies can be selected and "pushed" to approved network locations.
<b>Web-based Image Management</b>	All image management and system administrative functions are web-based, enabling access to full PACSstor capabilities from any approved workstation.	<b>Change Patient Information</b>	Patient information maintained in the study database can be modified to correct input errors and accommodate name and status changes.
<b>Archive Management</b>	Set of features to support archive management, including setup, utilization, access log and availability of storage.	<b>Patient Merge</b>	Enables studies for single patient initially stored under different patient IDs to be merged
<b>HIPAA Program Support</b>	System includes password and permissions security, as well as Patient Activity Log to record events of image distribution via the system's web-based software.	<b>Study Delete</b>	Image Studies can be deleted from the system according to departmental policy
<b>Range of Applications</b>	PACSstor can be employed as an economical solution for pre-PACS image archival, or disaster recovery for existing PACS. Supports filmless operation at relatively smaller hospitals and imaging centers.	<b>Study Storage Report</b>	Provides list of studies successfully stored in PACSstor for a selectable date or timeframe. List can be compared with department day log to quickly confirm that all desired studies are archived.
		<b>Discrepancies Report</b>	System checks patient name, ID, and other parameters to identify possible errors in data entry for studies entering archive.
		<b>Mass Move</b>	Enables large volumes of studies to be moved to out side media based on selectable date range to support transfer of pre-PACS archive studies and disaster recovery.



❖ **PACSstor Configurations**

PACSstor is available either as a rack mountable archive or in a complete cabinet archive system.

■ **Integrated Rack Mount Archive**

The integrated rack mount system combines the DICOM storage server and RAID into a single chassis. Multiple rack mountable servers can be used to scale storage capacity. Rack cabinet and UPS are user supplied.

■ **Server**

- Dual Intel XEON 3, 4 Ghz, 4GB Ram
- Dual GigE Ethernet
- Windows 2003 Server
- RAID
- Hardware RAID Controller
- Serial ATA Drives
- Hot Swap Drives
- Hot Spare Drive
- Capacity 1 – 4 TB
- Chassis
- 3U/5U depending on Size
- Hot Swap Power Supplies
- 19 inch rack mountable

■ **Cabinet Archive System**

The cabinet archive system integrates the above described archive server into a complete archive system. The system comes in 1 – 10 TB versions; larger cabinets are available upon request. Multiple archive systems can be used to scale the storage capacity.

Includes one or more Rack Mount Servers as described above

- 14U cabinet (larger available upon request)
- 1 – 10 TB configurations
- UPS
- 30" high X 40" deep X 21" wide
- Locking swivel casters
- Plexiglass door