

# Vertex Platform

Medical imaging made easy- the most affordable, scalable medical data systems



Cloud-brokered medical data sharing



Automated DICOM CD burners plus CD importing



Post-process and convert exiting video files to DICOM



Compact, economical video recorder integrated with Vertex Video



Add Paper Film, Digital Images and Documents to PACS- scan paper or film and include images and documents in studies



Reconcile Incoming DICOM and Proprietary Studies- Import DICOM and proprietary data from CDs and removable media



Manually send to local CD burner, removable media, and drives



Securely send studies using DICOM TLS with no VPN



Scheduled, Intelligent routing to any device

## REVIEWER

Manage internally and externally generated DICOM and non-DICOM medical images within your role and workflow with Reviewer.

### Reviewer CD

View and browse files on every CD (DICOM and proprietary) with this easy-to-use, FREE DICOM viewer software

### Reviewer MD

Burn, view, store, import, and share studies from a variety of sources; send to a printer or create an encrypted DISC on the fly

### Reviewer Admin

View, import, burn, share, scan, re-identify, encrypt, and MORE; do it all with this Master Edition



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Fast and simple to implement, Vertex SHARE maximizes your cost savings and avoids cloud storage security risks by storing data on your premises. Add Vertex CD to streamline DICOM CD production within the same application.

### Cloud-Brokered Medical Data Sharing

Vertex SHARE is a cloud-brokered solution utilizing Microsoft Azure for securely combining and sending medical data to patients and providers. Easy to install; no account set up, and no cloud storage – Just email a link and a separate Access Code for the recipient to securely stream the data from your facility.

#### Cost-Effective

Designed for any sized facility, Vertex SHARE not only offers affordable pricing; you only pay for what is actually streamed by the users.

#### No Cloud Storage

The shared data package is stored locally, eliminating the security risk and cost associated with cloud storage.

#### Enterprise Data Sharing

Collate, package, and share DICOM studies, paper, film, office documents, visible light images, videos, and other digital content.

#### Flexible Workflow

Use Vertex's automated processing or its drag-and-drop user interface to share with patients and providers.

#### IT Friendly

Vertex SHARE utilizes outbound connections only. It maintains a complete, searchable activity history. Know when, what, and with whom it was shared; and just as important, when and if it was downloaded.

#### Simple to SHARE

Once processed, a secure email notification with a link to download, and a password, is immediately delivered to selected recipients.

#### Easy to Receive

SHARE portal website provides OS-specific, easy-to-follow instructions for patients and facilities. Selected recipients each receive a secure email and access code simultaneously. No recipient account set-up is needed.

#### Data Streamed on Demand

Medical data is retained locally and streamed, on-demand. Streaming minimizes upload bandwidth, eliminates cloud storage costs, and significantly reduces security risks.

#### Total Security

Data in transit is always encrypted. Network transport utilizes TLS v1.2. Static data encrypted with AES-CBC 256bit.

#### Contactless Image Sharing

Stream data and avoid non-essential patient visits. Eliminate passing around a physical medium potentially increasing contamination risk.





## Automated DICOM CD Production and Importing Software

Enhance your facility's efficiency with Vertex's cost-effective and versatile array of DICOM CD Burner hardware systems for any production level and budget.

### Vertex CD is the latest automated DICOM CD burner software technologies

IT pioneered by Sorna to simplify enterprise imaging. The Vertex family of recording systems targets every production level and budget. Select from a large array of affordable inkjet or thermal CD / DVD burning solutions to meet the needs of each department within your healthcare facility.

#### Easy to Learn and Use

With a single screen and drag-and-drop functionality, Vertex significantly simplifies the user experience and accelerates operator training.

#### Import DICOM and Proprietary DISCs

Transparently import poorly formatted and proprietary DISCs into your PACS-eliminating the need to re-scan a patient or request another DISC.

#### Attended Workflow

Operators can complete multiple tasks simultaneously for maximum production.

#### Unattended Workflow

Customizable data profiles-automatically share studies with multiple destinations.

#### Installation-Free Client Deployment

Click-once deployment technology minimizes IT requirements and streamlines the workstation installation and maintenance process.

#### Integration with Existing Hardware

Maximize your current hardware investment through a seamless integration with all industry-leading auto loaders.

#### PACS Integration and Support

Developed to easily connect with your PACS in minutes, reducing installation cost.

#### Virtually Limitless Data Profiles

Vertex handles numerous jobs concurrently, substantially reducing production time and enhancing efficiency.

#### DISC-Embedded Viewing

Developed in-house, our intelligent and easy-to-use embedded viewing software improves your referring physician and patient experience.

#### One-Click De-Identification

Quickly and easily create teaching files and/or research projects.

#### Encryption

Four Methods Secure DICOM and FIPS 140-2 conformance.

#### Transaction Tracking

Track all transactions for HIPAA compliance.



### Vertex CD Burner System Package

- 1- Vertex Server and Client software licenses per system and DICOM Import of medical images in standard and proprietary formats from CD, USB, and drives.
- User Query & Build, Automated DICOM processing, and popular PACS interfaces are also provided.
- Produced CDs include a DICOM Viewer for PCs, a DICOM viewer for Mac users, and an installable free DICOM viewer to view all medical CDs.
- First year Advanced Exchange maintenance
- A customized-for-user PC with monitor, keyboard, mouse, and all cabling
- 200 pieces of media with paper DISC holders and ink cartridge

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## Process DICOM Video Files and DVD DISCs

**Improve patient care by sizing, post-processing, and DICOMizing videos for archiving in PACS and VNA.**

Use Vertex Video to create video snippets and single-frame images from DVD DISCs and video files. Convert it all to DICOM for PACS and VNA storage.

### Process Stored DVDs

Empty the DVD cabinets. Size, edit, and convert the content for archiving in PACS and VNA.

### Convert and Store Existing Video Files

Use Vertex to edit and convert popular video formats (3GP, ASF, WMV, AVI, MPEG, VOB(DVD)) to DICOM.

### Flexible Formatting

Store converted videos in DICOM format, compatible with your PACS/VNA (multi-frame and/or MPEG4)

### Appropriately Sized Video

To minimize storage requirements Vertex Video software allows you to configure frame rate, transfer syntax, color space conversion, and auto split.

### Video Processing Profiles

To minimize error and improve efficiency, multiple profiles are preconfigured for processing videos and various workflows.

### Consistent DICOMization

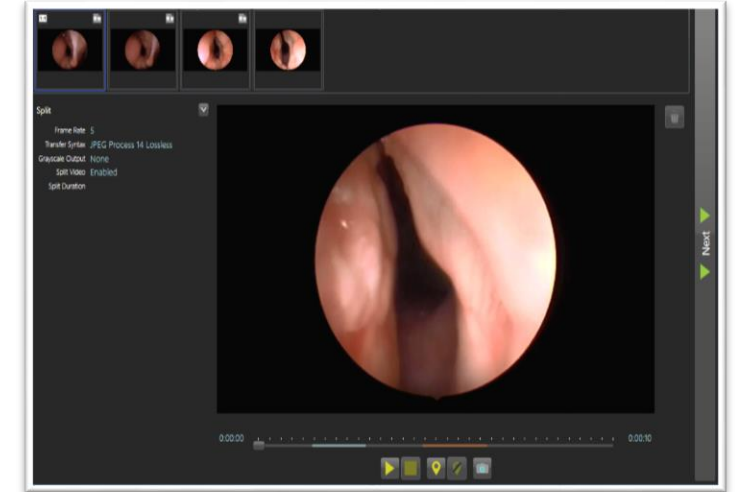
Configure department information, and create pre-defined study and series descriptions, ensuring data integrity when creating new studies.

### HIS Friendly

Add procedure codes to pre-defined study descriptions to ensure proper billing and reimbursement

### Client Access Control

For security and regulatory purposes, individual users, groups, or workstations can be configured to have access to incoming devices and destinations.





## Compact and Versatile Video Capture Device with Post-Processing Software

**Stop rolling video carts around! Deploy this economical, compact, and easy-to-install medical video capture device – everywhere.**

Improve your facilities enterprise imaging functionality by capturing video, editing, and converting it to DICOM for archival. With its intelligent sensing functionality, any video source is quickly recognized and connected automatically.

### Fully integrated with Vertex Video

Not only can you capture, but with the included Vertex Video, users can post-process, DICOMize, and store videos.

### Hassle Free Setup

With auto-sensing video connections and automatic video resolution detection, set up is quick and easy. Deploy Vertex Capture in all surgical suites as well as endoscopy and fluoroscopy rooms.

### Friendly user interface

The front control panel allows users to intuitively record video in crystal clear HD. A built-in hard drive is included for reliable recording of data. Vertex Capture can simultaneously record to USB memory for back up.

### Record from any Source

Vertex Capture is a perfect fit no matter what video device you use. It supports surgical cameras, surgical microscopes, ultrasounds, laparoscopes, endoscopes, C-arms, and fluoroscopy systems.

### Microphone and foot pedal enabled

Easy-to-use hands-free pedal allows for start, pause, and stop functions. It can also capture single-frame images. The optional microphone can be used for paired audio recording.

### Compact and budget friendly

With its compact footprint, Vertex Capture can be cost effectively deployed throughout your departments – eliminating the need for rolling carts from room to room.

### Increased Productivity

Authorized technicians and specialists can use Vertex Video in their own workspace –allowing the next patient procedure to begin, increasing efficiency.



## Tired of installing scanning software on every workstation? Using multiple applications to convert digital documents? Vertex Scan is just a click away every time.

Customize the workflow of adding paper, film, digital images and documents to existing studies or creating new ones. Affordability, flexibility, and ease-of-use are the hallmarks of Vertex Scan.

**Scan All Papers:** Add consent forms, modality worksheets, insurance cards, IDs, and other documents to studies.

**Create Studies from Film:** Digitize films from prior studies to store in PACS or share with healthcare facilities and patients.

**Manage visible light images:** DICOMize popular image formats (JPEG, BMP, PNG, TIFF, GIF, ...) for inclusion in PACS and VNA

**Add Digital Documents:** Office documents such as PDF, Word, Excel, Text, HTML, RTF, etc. can be DICOMized and seamlessly added into studies.

**Multiple Modes of Operation:** Initiated from PACS workstation, papers, film, documents, and images can automatically be added to studies. Users can also drag-and-drop any number of objects into an existing study or create a new one.

**Flexible DICOMization Options:** Select pagination format for document conversion. PDFs can be stored as embedded or secondary capture objects.

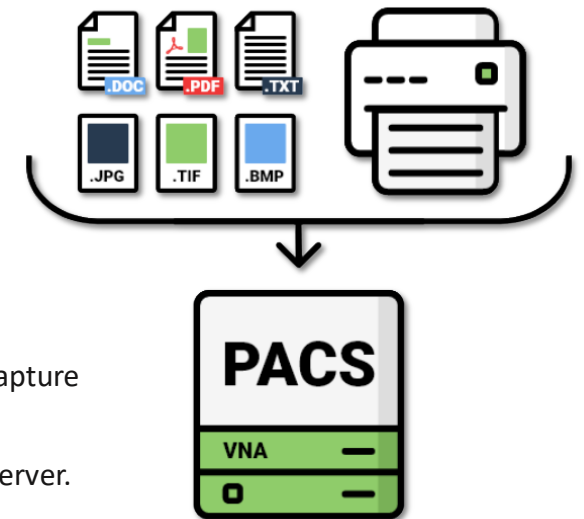
**Create Unique Studies:** Use Vertex to manage automatic creation of unique accession numbers and/or connect to Modality Worklist Server.

**Consistent DICOMization:** Configure department information, and create pre-defined study and series descriptions, ensuring data integrity when creating new studies.

**HIS Friendly:** Add procedure codes to pre-defined study descriptions to ensure proper billing and reimbursement

**Client Access Control:** For security and regulatory purposes, individual users, groups, or workstations can be configured to have access to incoming devices and destinations.

**Unlimited client License:** Any number of authorized users, groups, or workstations can utilize Vertex Import without running into licensing limitations or extra fees.





## Vertex Import improves patient care by significantly reducing the need for re-imaging or requesting a re-send.

Versatile, intuitive, and easy-to-use; incoming DICOM and proprietary\* data can be seamlessly viewed, reconciled, and imported into PACS. Enable a Vertex Scan license to manage paper, film, visible light, video, and digital documents.

**Import from Any device:** Import directly from CD, DVD, Blu-ray, USB, hard drive, network drive, permanent, and temporary archives. Streamline your workflow by eliminating the need for multiple applications.

**View Incoming Studies:** DICOM and proprietary\* studies on local devices (removable media, hard drive, Vertex Cache) can be viewed to ensure importing of proper data.

**Manage Encrypted Data:** By simply typing in the password, Vertex allows you to seamlessly import DICOM and FIPS 140-2 conformant studies.

**Select Relevant Data:** Choose only the studies and series you wish to import. Eliminate the need to import non-essential studies – saving time, storage space, and reducing liability.

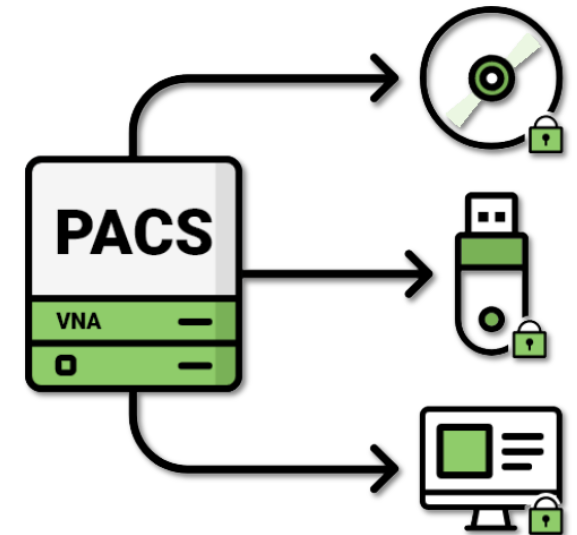
**Unlimited client License:** Any number of authorized users, groups, or workstations can utilize Vertex Import without running into licensing limitations or extra fees.

**Import with Confidence:** Sometimes datasets are missing and/or contain poorly formatted DICOM tags. Vertex's intelligent DICOM Import tools visually notify you of missing required tags and reasonably auto corrects poorly formatted data in non-essential tags.

**Proprietary Data Support:** Totally transparent to the user, proprietary\* studies can be viewed, reconciled, and imported into PACS – Increasing operational efficiency, eliminating re-send requests, and avoiding re-scans, improving patient care.

**Reconcile Flexibly:** Ensure data integrity by using modality worklist, PACS query, and manual entry methods to reconcile patient and study demographics as well as correcting inaccurate DICOM tag data. Datasets can also be anonymized for research purposes.

**Client Access Control:** For security and regulatory purposes, individual users, groups, or workstations can be configured to have access to incoming devices and destinations.



*\*Contact us to see what formats are supported.*

**Budget friendly and easy to use software for exporting studies to local and removable drives. Add a viewer and choose to encrypt the data protecting patient PHI.**

With its ability to copy to removable media as well as local and network drives, Export is best used for small imaging centers, or as a backup to an automated CD burner. It can also be utilized to anonymize data for teaching purposes. Add Vertex SHARE to enable cloud brokered image sharing.

**Create standards compliant DISCs:** Utilizing Vertex's intuitive interface, users are able to burn studies to local CD-R, DVD-R, and BD-R drives – fully conformant to DICOM and IHE standards.

**Export studies to removable Media:** DICOM studies can be copied to USB and other removable media for distribution to patients, healthcare facilities, and referring physicians.

**PHI Security:** Choose only the studies and series you wish to import. Eliminate the need to import non-essential studies – saving time, storage space, and reducing liability.

**Copy studies to drives:** Share studies directly with authorized professionals within your facility using local and network drives.

**Embedded Viewer:** Developed in-house, our intelligent and easy-to-use embedded viewing software improves your referring physician and patient experience.

**PHI Security:** Encrypt the data to comply with DICOM and FIPS 140-2 requirements. The required password can be generated by four different methods, depending on preferred workflow (on-demand, pre-set, DICOM tag, random).

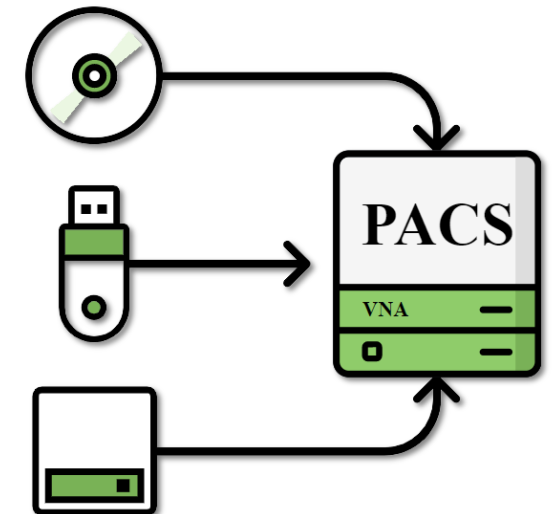
**One-Click De-Identification:** Quickly and easily create teaching files and/or research projects

**Track all activity:** Data exported from Vertex are tracked within its database for HIPAA compliance

**Unlimited client License:** Any number of authorized users, groups, or workstations can utilize Vertex Export without running into licensing limitations or extra fees

**Client Access Control:** For security and regulatory purposes, individual users, groups, or workstations can be configured to have access to incoming devices and export destinations

**Workflow simplifications:** Minimize operator responsibility and reduce human errors with predefined routing rules.







Conforming to DICOM security standards and HIPAA, send studies directly to another site

## Avoid the cost and hassle of setting up and maintaining VPN connections with partner organizations and providers.

Simply and securely track and send DICOM studies and reports directly from one site to another – with Vertex SDS. Utilizing DICOM TLS, you avoid the setup, and cost associated with traditional VPN or Cloud providers.

**Securely Send DICOM studies:** Simply send DICOM studies and reports directly from your site to a partner – securely through Vertex SDS.

**Receive DICOM Studies:** Vertex conforms to DICOM PS 3.15-2011 Annex B standard so it can also receive from other conforming products.

**Always Encrypted:** The data is encrypted in transit utilizing Transport Layer Security (TLS) and adheres to FIPS 140-2.

**No Cloud Storage:** Vertex SDS sends directly to another facility avoiding any third-party cloud environment. SDS is a direct secure DICOM connection – absolutely no cloud storage.

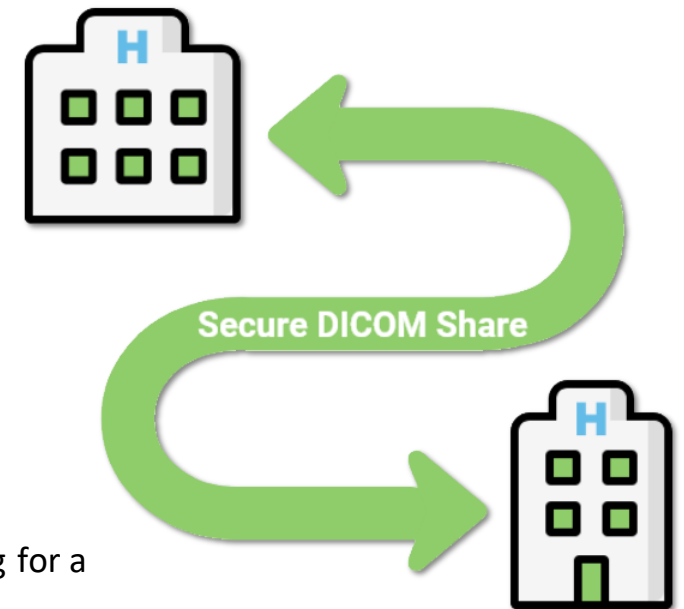
**Great for Referring Physicians:** Avoid the cost of setting up and maintaining VPNs. They can also send to and receive from multiple sites with one set up.

**Fast Delivery:** Reduce the delays in communication of time sensitive medical information. No more waiting for a CD/DVD to be delivered.

**Use SDS with Other send to Destinations:** Along with SDS, facilities can still send to a CD burner, cloud provider and any other export to destination.

**Flexible Workflow:** Use Vertex's automated processing or its drag-and-drop user interface to share with patients and providers.

**Enterprise Data Sharing Option:** Add Vertex Scan to collate, package, and share DICOM studies, paper, film, office documents, visible light images, videos, and other digital content.





## Simple, Robust, and Intelligent routing of DICOM studies

**Vertex Route let's you manage your automated workflows faster and easier with its simple and intelligent routing functions.**

Save time, money, and comply with HIPAA regulations. Customize your workflow utilizing Route's intelligent configurable rules sending to a multitude of destinations.

### **Robust routing capabilities**

Define simple or sophisticated rules incorporating DICOM tags and/or date/time schedules

### **Send studies to any destination**

Automatically route DICOM studies, based on the configured rules, to any combination of CD, SHARE, SDS, PACS, Archive/VNA, etc.

### **Create custom rules**

Using AND, OR, and NOT Boolean operators create custom rules for routing data to its desired device and/or its destination.

### **Encrypt the studies**

Encrypt the data to comply with DICOM and FIPS 140-2 requirements. The required password can be generated by three different methods, depending on preferred workflow (pre-set, DICOM tag, random).

### **Auto De-Identification**

Automatically de-identify the DICOM dataset being routed. Tags (both standard and private) are selected in the configuration files and can be populated with default values.

### **Track all activity**

Track all routing transactions in the Vertex Host database for HIPAA compliance. Custom reports can be generated by institutions for periodic reporting.

### **Workflow simplifications**

Minimize operator responsibility and reduce human errors with predefined routing rules.

