PACSESS / VIDAR PRODUCTS

PACSESS
The PACS Accessory Network

VIDAR
Systems Corporation
A 3d Systems Company

FORESIGHT IMAGING

aycan store

VIDAR Film Digitizers

VIDAR Systems Corporation is a privately owned optical imaging technology manufacturing company that specializes in medical and life-science imaging products. It has been a leader in the optical imaging market for almost a quarter of a century. The company is a worldwide leading manufacturer of medical film digitizers that allow scanned radiographic films to be converted into the DICOM format. The resulting image can be transferred and stored with a PACS (Picture Archiving and Communication System), copied to external media or printed out via a conventional or DICOM printer.

VIDAR's newest products of the Advantage line have shattered world records in overall performance. With them, VIDAR achieved the highest reliability and image quality, unparalleled consistency, and better productivity than any other digitizer on the market.

The next generation of the Advantage digitizers live up to their name and feature a number of technological advances that will increase their uptime, which in turn will increase productivity and revenues for our customers. With a Mean Time Between Failure (MTBF) rating exceeding 50,000 hours, a modular film feeder, and a field-replaceable LED illuminator system, the Advantage digitizers have become the most reliable digitizers on the market. The highest reliability, along with higher speed, superb image quality, and flexibility, are just a few of the new features. Several patent applications have been filed for the technical innovations used in these products that will undoubtedly set a new standard in the medical film digitizing industry. In addition to a higher level of image quality and consistency, the scanners ensure an increased speed of digitization. They digitize films two times faster than previous models and will process up to 25 mixed-sized films in batch mode, allowing for more productivity and greater efficiency. The scanners sport VIDAR's proprietary High Definition CCD (HD-CCD®) technology with significantly more sophisticated HD-CCD array and electronics design.

Moreover, the Advantage products provide ADC (Automatic Digitizer Calibration), a closed loop quality assurance (QA) system that calibrates the digitizer automatically before every film digitized.

ADC, combined with HD-CCD® imaging and LED lighting systems, allows the digitizers to provide excellent spatial and contrast resolution with virtually no variation between digitized films, ensuring superb grayscale reproduction with every scan.

Key Features and Specs:

- Dual use – general radiography or mammography
- Clinically proven image quality and consistency
- Clinical Optical Density Range: .5 to 4.0
- Bit Depth: 32-bit mapped to 12-bit (4096) and 8-bit (256) grayscale output
- MTBF: >50,000 hour
- Auto Film Feeder: 25-films (mixed sized – no presorting necessary)
- Light Source: LED illuminator; > 500,000 scans
- Geometric Accuracy: better than 1 percent or 2 pixels, whichever is greater, in both axes
- Scan Rate: 200 In/s
- Hardware Interface: USB 2.0

DICOM Converters

TIMS DICOM conversion units are PC-based systems fitted with a very high-specification frame-grabber that enable users to connect to ANY imaging device and convert static or motion images to DICOM format.

The system can be incorporated within the hospital network and the resulting DICOM files sent to a 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.

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 video at 30 frames per second, including high resolution video formats, such as 1024 x 1024 pixel resolution fluoroscopy.

Key Features:

- Image acquisition from any medical modality
- DICOM conversion
- Static & streaming capture
- High-resolution video capture
- Sync audio capture & review
- Capture of entire studies
- DICOM send & receive
- One-click DICOM send
- Record to CD/DVD/USB/network
- Printing via DICOM & conventional printers
- DICOM query/retrieve
- Import/Export AVI, JPG, BMP, PNG
- DICOM Modality Worklists
- Reviewing & editing of studies

A cost effective and powerful DICOM archive

With more than fifteen years of extensive experience in long-term archiving of medical image data, aycan offers aycan store, a scalable, high performance DICOM archiving and distribution system, which can be accessed on-site or optionally through our off-site data center. From simple to complex workflows in imaging centers, hospitals, and Teleradiology service companies, aycan store can improve the workflow in any environment.

Tailored to meet your needs

aycan's consulting team meets with you to develop a customized solution to fit into your current or future IT/PACS and RIS environment and workflow.

Vendor neutral for easy integration

aycan store is at home in any environment. It seamlessly integrates with RIS and other patient management systems. The Import Module assures reliable legacy data migration. And, its open architecture makes it compatible with most 3rd party vendors. Uncompromising DICOM compatibility aycan storesupports most Radiology compatibility standards, so it can seamlessly integrate into your current environment and with all your DICOM nodes. Once integrated, you'll stay in control of your data as it is all stored in a vendor neutral DICOM format.

Improved workflow and security

aycan store's unique features allow you to improve productivity without compromising security. Configuring aycan store's auto-routing feature will streamline your workflow by automatically transferring your DICOM data to any desired location. And with industry-standard VPN encryption methods, aycan storekeeps your data traffic secure at all times. aycan also offers optional off-site data storage, so you can safely backup your data for disaster recovery and other applications.

Turnkey installation

aycan will thoroughly plan and prepare for the install before arriving on-site, so you are ensured of a smooth and timely installation.

Ready for the future

aycan store's RAID System is engineered for performance and scalability, so no matter how quickly your data grows, aycan storecan grow with you and provide the performance you need. With aycan store, there is no need to migrate your data when you are ready to expand. And with native JPEG-lossless compression, you get end-to-end speed, without the wait.