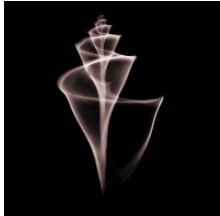


# DIAGNOSTICPRO<sup>®</sup> Advantage

## For PACS & Remote Primary Diagnosis



### The VIDAR Advantage

VIDAR<sup>®</sup> Systems Corporation — the recognized leader in film digitizing technology — offers the VIDAR DiagnosticPRO<sup>™</sup> Advantage Film Digitizer. VIDAR again has raised the bar with its new Advantage product platform by achieving better overall performance than any other digitizer on the market.

VIDAR's DiagnosticPRO Advantage film digitizer has achieved the highest reliability, image quality, consistency, and best overall productivity than any other digitizer on the market.

- MTBF\_>50,000
- Superior image quality
- Exceptional consistency
- Increased speed

### Technology Advantage and Innovation

The next generation DiagnosticPRO Advantage has a number of technological advances that will provide customers with increased "up-time", resulting in improved productivity and revenues. Higher speed, image quality, and reliability are just some of the new features of the DiagnosticPRO Advantage. With a Mean Time Between Failure (MTBF) rate of  $\geq 50,000$  hours, a modular film feeder, and a field replaceable illuminator system (Instant-On VIDAR Hot Light<sup>™</sup>), these technical advances have resulted in the highest reliability of any digitizer on the market. A number of patents have been filed based on these technical innovations that have set a new standard in medical film digitizer performance.

Provides customers increased "up-time" resulting in improved productivity and revenues

In addition to a higher level of image quality and more consistency, the DiagnosticPRO Advantage has been designed for increased speed. It digitizes film two times faster than previous models and will digitize up to 25 mixed-sized films in batch mode, allowing more productivity and greater efficiency — key benefits for radiology department personnel. The DiagnosticPRO Advantage features the company's proprietary High Definition CCD (HD-CCD<sup>®</sup>) technology, and incorporates a substantially more sophisticated HD-CCD array and digital electronics design. Also, the unique ADC<sup>™</sup> (Automatic Digitizer Calibration) that prompts the film digitizer to calibrate automatically before every film digitized, and eliminates the need for user intervention for this operation. VIDAR's ADC feature results in virtually no variation in image quality and



ensures excellent grayscale reproduction in every image.

The DiagnosticPRO Advantage, with its high-resolution capabilities (44.5 microns), provides the ability to digitize mammography films, and offers larger spot size options for digitizing general radiographic, CT, MR, ultrasound, and nuclear medicine films. The DiagnosticPRO Advantage exceeds the American College of Radiology Teleradiology Practice Guidelines. In addition, VIDAR offers the only 32-bit data path in the industry to maximize grayscale accuracy and performance.

### Exceptional Consistency — Proven Reliability

Unlike other digitizers that require biannual calibration or cleaning, VIDAR digitizers need no maintenance or calibration, saving nearly \$2,000 annually. The straight-line film path reduces the need for costly service calls due to film jams, and VIDAR digitizers have a MTBF of more than five years.

The company's sole focus is on serving its customers, and a premier customer service department supports VIDAR digitizers. VIDAR works hard at customer satisfaction, and customers have responded enthusiastically, giving VIDAR the highest customer satisfaction rating in the industry.

# DIAGNOSTICPRO<sup>®</sup> Advantage



Nominal Resolution	Pixels (14"x17" film)	Spot Size (um)	DPI	Line pairs Per mm	Digitizing Speed
2K x 2.5K*	2002 x 2431	170	150	3	12 Seconds
4K x 5K	3990 x 4845	85	300	6	24 Seconds
<b>Mammography film: 18 cm x 24 cm</b>					
4K x 5K	4104 x 5472	44	570	11	20 Seconds

\*ACR Standard for Teleradiology Guidelines [Revision 35 (1998)] recommends 2.5 line pairs/mm minimum

<b>Clinical Optical Density Range</b>	.05 to 4.0	
<b>Bit Depth</b>	32-bit mapped to 12-bit (4096) and 8-bit (256) grayscale output	
<b>MTBF</b>	≥50,000 hours	
<b>Film Sizes</b>	Width: 8" to 14" (20 cm to 35.6 cm) Length: 8" to 51" (20 cm to 129.5 cm in single film mode only) Thickness: 0.006" to 0.008	
<b>Auto Film Feeder</b>	Standard 25-film capacity (mixed sized – no presorting necessary) "Light Box" loading: head-up, normal reading, left justified Film sizes up to 14" x 17" (35.6 cm x 43.2 cm)	
<b>Translation Tables</b>	Linear OD	
<b>Geometric Accuracy</b>	Better than 1% or 2 pixels, whichever is greater, in both axes	
<b>Scan Rate</b>	200 lines/second	
<b>Hardware Interface</b>	USB 2.0	
<b>Software</b>	Windows <sup>®</sup> scanning modules and software development tools available	
<b>Power Requirements</b>	Voltage: 85~264 Vac Frequency: 47~63 Hz Power: <100 Watts	
<b>Operating Environment</b>	50° to 95° F (10° to 35° C), 20% to 85% relative humidity, non-condensing	
<b>Storage Environment</b>	0° to 140° F (-18° to 60° C), 20% to 85% relative humidity, non-condensing	
<b>Illuminator</b>	Instant-On VIDAR Hot Light™ Technology; ≥100,000 scans	
<b>Detector</b>	Solid-state, next-generation High Definition CCD (HD-CCD <sup>®</sup> )	
<b>Dimensions</b>	With Feeder & Exit Tray: 19" W x 23" D x 29.25" H (483mm x 584mm x 743 mm) Without Feeder & Exit Tray: 19" W x 14.25 D" x 16.5" H (483mm x 362mm x 419mm) Shipping: 24" W x 29" L x 24" H (610mm x 737mm x 610mm)	
<b>Weight</b>	40 lbs. (18 kg); shipping weight: 60 lbs. (27 kg)	
<b>Certifications</b>	FDA Class II 510(k) 993599; CE-MDD 93/42/EEC Class 1; CAN/CSA C22.2 No 601.1-M90; Health Canada Class II; Japan-MHW; CCC; SFDA; KFDA; FCC Class A; EN 60601-1-2; IEC 60601-1; IEC 60950; ISO 9001:2000; ISO 13485:2003	
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Specifications are subject to change without notice.

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## VIDAR<sup>®</sup> DiagnosticPRO<sup>™</sup> Advantage Film Digitizer

### Introduction

- VIDAR's DiagnosticPRO film digitizer has been the market-leading digitizer for picture archiving and communication systems (PACS), teleradiology, and general radiography, serving solutions providers and end-users well since its introduction five years ago.
- VIDAR's singular dedication to meeting customers' ever-changing needs has allowed the company to pioneer a series of product innovations that have dramatically changed the field of film digitization.
- The company again has raised the bar with its Advantage product platform evolved from the company's pioneering high-definition CCD (HD-CCD<sup>®</sup>) and hallmark "plus" digitizer technologies.
- VIDAR's next-generation Advantage digitizers feature several key benefits, including superior image quality, increased speed, and exceptional consistency and repeatability. A number of patents have been filed based on these technological innovations, which have set a new standard in medical film digitizer performance.
- VIDAR's Advantage product platform is the culmination of 14 years of product innovation by VIDAR Systems Corporation the worldwide market leader in medical film digitizers.

### DiagnosticPRO Advantage Image Quality, Speed & Consistency

- For PACS and general radiology, the watchwords are image quality, speed, and consistency all of which have been taken to new heights with VIDAR's DiagnosticPRO Advantage digitizer.
- The superior optical density range (04.00) and image resolution (44 micron) of the DiagnosticPRO

Advantage exceed the American College of Radiology practice guidelines for PACS and remote primary diagnosis.

- The DiagnosticPRO Advantage digitizes films two times faster than previous models and can handle mixed-sized films, allowing for more productivity and greater efficiency key benefits for radiology department personnel. Improved productivity also translates into greater revenues for radiology centers and departments.
- VIDAR's ADC<sup>™</sup> (Automatic Digitizer Calibration) and the enhanced technology of the Advantage product platform ensure the highest level of consistency and repeatability in every image digitized.
- The DiagnosticPRO Advantage requires virtually no routine maintenance and no daily cleaning. VIDAR's digitizers also achieve a mean time between failure of =50,000 hours the equivalent of nearly six years. For busy radiology departments, this highly reliable, maintenance-free performance translates into greater up-time, improved productivity, reduced operating costs, and increased revenue for users.

### Clinical Studies

- VIDAR's commitment to clinical studies to validate the performance of its digitizers is unique in the industry. The company has supported several landmark studies at leading institutions such as Johns Hopkins University and the Mallinckrodt Institute of Radiology. These studies have consistently demonstrated that there is no difference in image quality and the ability of radiologists to make correct diagnoses between radiographs digitized on VIDAR's digitizers and laser systems.

- In keeping with this tradition, VIDAR has integrated the Advantage product platform into an ongoing study at Johns Hopkins University, and this study will be expanded to include additional clinical sites.

### About VIDAR

- VIDAR Systems Corporation, a privately held company headquartered in Herndon, Va., is the worldwide market leader in medical film digitizers, with more than 11,000 units installed.
- Other products in VIDAR's Advantage line of high-quality medical film digitizers include the CAD PRO<sup>™</sup> Advantage, featuring a unique, highly reliable film feeder designed for mammography computer aided detection, and the DosimetryPRO<sup>™</sup> Advantage, customized for the radiation oncology market. VIDAR also offers the compact, affordable SIERRA<sup>™</sup> plus film digitizer, as well as CopyExpress<sup>™</sup> digital film duplication software.
- VIDAR's digitizers are the choice of leading systems solution providers, including Agfa HealthCare, FUJIFILM Medical Systems USA, Inc., GE Medical Systems, Kodak Health Imaging, PenRad, Philips Medical Systems, R2 Technology, RIT, Scanditronix-Wellhofer, Siemens Medical Solutions, and Varian Medical Systems.
- For additional information, visit VIDAR's Web site at [www.filmdigitizer.com](http://www.filmdigitizer.com).

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