

For PACS & Remote Primary Diagnosis

The VIDAR Advantage

VIDAR Systems Corporation — the recognized leader in film digitizing technology — offers the VIDAR DiagnosticPRO[®] 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.

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 LED illuminator system, 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.

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[®])* technology, and incorporates a substantially more sophisticated HD-CCD array and digital electronics design. Also, the unique ADC (Automatic Digitizer Calibration) 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.



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
Mammography film: 18 cm x 24 cm					
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

Clinical Optical Density Range	.05 to 4.0
Bit Depth	32-bit mapped to 12-bit (4096) and 8-bit (256) grayscale output
MTBF	≥50,000 hours
Film Sizes	Width: 7" to 14" (18 cm to 35.6 cm) Length: 8" to 17" (20 cm to 43 cm) Single film mode: a min. length of 6" (15 cm), max. length of 51" (129.5 cm) can be accommodated in single film mode only with maximum resolution of 300 DPI
Auto Film Feeder	Standard 25-film capacity (mixed sized – no presorting necessary) "Light Box" loading: head-up, normal reading, left justified
Translation Tables	Linear OD
Geometric Accuracy	Better than 1% or 2 pixels, whichever is greater, in both axes
Scan Rate	200 lines/second
Hardware Interface	USB 2.0
Software	Windows® scanning modules and software development tools available
Power Requirements	Voltage: 85~264 Vac Frequency: 47~63 Hz Power: ≤100 Watts
Operating Environment	50° to 95° F (10° to 35° C), 20% to 85% relative humidity, non-condensing
Storage Environment	0° to 140° F (-18° to 60° C), 20% to 85% relative humidity, non-condensing
Illuminator	LED Illuminator; >500,000 scans
Detector	Solid-state, next-generation High Definition CCD (HD-CCD®)
Dimensions	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)
Weight	45 lbs. (21kg); shipping weight: 60 lbs. (27 kg)
Certifications	CE-MDD 93/42/EEC Class 1; CAN/CSA C22.2 No 601.1-M90; Health Canada Class II; Japan-MHW; SFDA; KFDA; FCC Class A; EN 60601-1-2; IEC 60601-1; IEC 60950; ISO 9001:2000; ISO 13485:2003

Specifications are subject to change without notice

365 Herndon Parkway
Herndon, VA USA 20170
www.filmdigitizer.com

Phone: +1.703.471.7070
Toll-Free: 1.800.471.7226
Fax: +1.703.471.7665



VIDAR, DiagnosticPRO Advantage and HD-CCD are registered trademarks of VIDAR Systems Corporation. All other product names are registered marks of their respective parent.

VIDAR Publication PN 15787-001, Rev I, April 2008