DIAGNOSTICPRO® Advantage

X-Ray Film Digitizer for PACS & Remote Primary Diagnosis*

VIDAR's DiagnosticPRO *Advantage* has raised the bar by achieving better overall performance — reliability, image quality, consistency, and productivity — than any other digitizer on the market. With its high-resolution capabilities (44.5 microns), it 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 with ClinicalExpress or other DICOM standard software meet or exceed ACR and DICOM standards for use of secondary capture images for consultation, review and final interpretation. Images captured as DICOM MG are to be used as reference or comparison only, and not for primary diagnosis.

DiagnosticPRO
Advantage

DiagnosticPRO *Advantage* Features & Benefits

- Digitizes up to 25 mixed-sized films in batch mode, allowing more productivity and greater efficiency.

- Ideal for Dual use – general radiography or mammography.

- Clinically proven image quality and consistency.

- Exceeds the American College of Radiology Teleradiology Practice Guidelines.

- Offers the only 32-bit data path in the industry to maximize grayscale accuracy and performance.

3DSYSTEMS

VIDAR
A 3D Systems Company

DIAGNOSTICPRO®
Advantage

Nominal Resolution	Pixels (14"x17" film)	Spot Size (um)	DPI	Line pairs Per mm	Digitizing Speed
2K x 2.5K*	2100 x 2550	170	150	3	13 Seconds
4K x 5K	4200 x 5100	85	300	6	26 Seconds
Mammography film: 18 cm x 24 cm					
4K x 5K	4040 x 5386	44	570	11	21 Seconds

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

SPECIFICATIONS

Clinical Optical Density Range .05 to 4.0

Bit Depth 32-bit mapped to 12-bit (4096) and 8-bit (256) grayscale output

MTBF $\geq$50,000 hours

Film Sizes

Manual Feed:
Width: 6" to 14" (15.24 cm to 35.56 cm)
Length**: 7" to 51†" (17.78 cm to 129.54 cm)
Thickness: 0.005" to 0.009"

Auto Feed:
Width: 7" to 14" (17.78 cm to 35.56 cm)
Length: 7" to 17" (17.78 cm to 43.18 cm)
Thickness: 0.005" to 0.009"

**A max. length of 51" (129.5 4cm) can be accommodated in single film mode only with maximum resolution of 300 DPI

†Films longer than 17" require user support during feeding, and a scanning application that handles long films.

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: $\leq$100 Watts

Operating Environment 50º to 95º F (10º to 35º C), 20% to 85% relative humidity, non-condensing

Storage/Shipping Environment 0º to 140º F (-18º to 60º 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)

Specifications are subject to change without notice

365 Herndon Parkway   **Herndon, VA USA 20170**   **www.vidar.com**
Phone: +1.703.471.7070   **Toll Free: 1.800.472.7226**   **Fax: +1.703.471.7665**

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