DOSIMETRYPRO® Advantage (Red)

X-Ray Film Digitizer for EBT Film Dosimetry, QA and IMRT

VIDAR's DosimetryPRO *Advantage* (Red) offers the only medical film digitizer developed in cooperation with International Specialty Products Corporation for use with GAFCHROMIC® EBT film. With the fast growing use of radiochromic film in Film Dosimetry, Quality Assurance and IMRT, the need for an accurate medical-grade device that utilizes red-spectrum light has increased. VIDAR's state-of-the-art DosimetryPRO *Advantage* (Red) has been developed to meet the exacting needs for using radiochromic film in beam analysis and related applications.

DosimetryPRO *Advantage (Red)*

DosimetryPRO *Advantage* (Red) Features & Benefits

- Contains 65,536 shades of gray providing significantly more information in the penumbral regions.
- Greater dose accuracy for complex fields used in IMRT & Dynamic Therapies.
- Delivers outstanding geometric accuracy, consistency and reliability, making it the ideal choice for radiation physicists.
- With VIDAR's unique Automatic Digitizer Calibration (ADC) that prompts the film digitizer to calibrate automatically before every film digitized, maximum consistency in gray scale values for dose measurement and IMRT analysis is achieved from one digitized film to another – first time, every time.

DOSIMETRYPRO® Advantage (Red)

Nominal Resolution	Pixels (14"x17" film)	Spot Size (µm)	DPI	Line pairs Per mm	Digitizing Speed
1K x 1.25K	997 x 1211	356	71.25	1.4	10 Seconds
2K x 2.5K*	1995 x 2422	178	142.5	2.8	20 Seconds
4K x 5K	3990 x 4845	89	285	5.6	40 Seconds

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

SPECIFICATIONS

Clinical Optical Density Range	.00 to 4.0
Bit Depth	32-bit mapped to 16-bit (65,536), 12-bit (4,096), or 8-bit (255) Grayscale Output
MTBF	≥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" *†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	Standard look-up tables: linear, log, square root and power tables
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	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	Red 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. (21 kg); shipping weight: 60 lbs. (27 kg)

Specifications are subject to change without notice

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