

# DOSIMETRYPRO<sup>®</sup>

## 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<sup>®</sup> 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.



3DSYSTEMS<sup>™</sup>

**VIDAR**  
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# DOSIMETRY<sup>PRO</sup><sup>®</sup>

## Advantage (Red)

Nominal Resolution	Pixels (14"x17" film)	Spot Size ( $\mu\text{m}$ )	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

### SPECIFICATIONS

<b>Clinical Optical Density Range</b>	.00 to 4.0
<b>Bit Depth</b>	32-bit mapped to 16-bit (65,536), 12-bit (4,096), or 8-bit (255) Grayscale Output
<b>MTBF</b>	$\geq$ 50,000 hours
<b>Film Sizes</b>	Width: 8" to 14" (20 cm to 35.6 cm) Length: 8" to 17" (20 cm to 43.2 cm) 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>	Standard look-up tables: linear, log, square root and power tables
<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: $\leq$ 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>	Red LED Illuminator; >500,000 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>	45 lbs. (21 kg); shipping weight: 60 lbs. (27 kg)

*Specifications are subject to change without notice*

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