

# DENTAL FILM DIGITIZER



## Specialized Medical Device for Digitizing Analog Dental Films

Medical film digitizing is an imaging procedure governed by medical and industry regulations. VIDAR's Dental Film Digitizer is specifically tailored for dental applications and is the only digitizer that meets U.S. and European guidelines for dental applications. When making a diagnosis, image quality is everything; and the VIDAR Dental Film Digitizer is able to produce digitized images as detailed as the original film.



VIDAR Dental  
Film Digitizer

## VIDAR Dental Film Digitizer Features & Benefits

- Supports scanning of all dental film sizes: Panoramic, Cephalometric, and Intraoral.
- Provides high quality images for primary diagnostic reading and fast scanning (18 seconds for a panoramic film).
- Images can replace film as the legal original.\*
- Integrates analog film into digital workflow.
- Digitizes patient films from other referral facilities or for consultation.
- Increases insurance claims approval and payment.

\*Assumes viewing & archiving system follows regulatory guidance for primary diagnostic applications.



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**VIDAR**  
A 3D Systems Company

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Film Size	DPI	Line pairs Per mm	Digitizing Speed/Film Size
Full Periapical series Holder size 4.875" x 11.5" 12.4 x 29.2 cm	300	5.9	17.6 Seconds/ 4.70 MB Bitewing is 184KB (8 bit) and 340KB (12/16 bit)
Panoramic 5" x 12"/6" x 12" 12.7 x 30.5cm/15.2x30.5cm	300	5.9	18 Seconds/ 21.6 Seconds 5"x12" is 5.4 MB (8 bit) or 10.8 MB (12/16 bit)
Cephalometric 8" x 10" 20.3x25.4cm	300	5.9	28.8 Seconds 7.2 MB (8 bit) or 14.4 MB (12/16 bit)

## SPECIFICATIONS

<b>Clinical Optical Density Range</b>	0.2 to 3.6 (calculated with medical noise and linearity requirements)		
<b>Optical Density Sensitivity (D<sub>MAX</sub>)</b>	4.1 OD		
<b>Supported Films</b>	Size 0, 1, 2, 3, 4, films (placed in a holder which meets minimum film size specifications); Panoramic and Cephalometric films		
<b>Bit Depth</b>	16-bit mapped to 16-bit (65,536), 12-bit (4096) and 8-bit (256) grayscale output		
<b>True Optical Resolution</b>	300 dpi		
<b>Film Sizes</b>	Width: 6" to 13" (15.2 to 33cm) Length: 4" to 13" (10.2 to 33cm) Thickness: Up to 0.025" (0.06cm)		
<b>Geometric Accuracy</b>	Better than 1% or 2 pixels, whichever is greater, in both axes		
<b>Hardware Interface</b>	USB 2.0		
<b>Software</b>	TWAIN compliant interface, and software development tools available Clinical DICOM software available separately		
<b>Power Requirements</b>	Voltage: 100~240 Vac, Frequency: 50~60 Hz, Power: ≤48 Watts		
<b>Operating/Storage Environment</b>	Operating: 60° to 85° F (15° to 30° C), 20% to 85% relative humidity, non-condensing Storage: 5° to 140° F (-15° to 60° C), 20% to 85% relative humidity, non-condensing		
<b>Illuminator</b>	LED Illuminator		
<b>Detector</b>	Solid-state, next-generation High Definition CCD (HD-CCD®)		
<b>Dimensions</b>	Footprint: 19" W x 12.5" D x 14.5" H (48.3 cm x 31.8 cm x 36.9 cm) Shipping: 27" W x 18" L x 27" H (68.6 cm x 45.8 cm x 68.6 cm)		
<b>Weight</b>	17 lbs. (7.7 kg); unit on stand 20.5 lbs (9.3 kg) shipping weight: 33.5 lbs. (15.2 kg)		
<b>System requirements</b>	<ul style="list-style-type: none"> <li>• 3.0 GHz Pentium 4 PC</li> <li>• 512 MB of memory</li> <li>• 30 GB Hard Disk</li> <li>• USB 2.0 connectivity</li> <li>• Windows XP professional Edition (SP 3) or Windows VISTA Business (SP) 1</li> <li>• 15" Monitor with 1280 x 1024 resolution</li> <li>• Display card with 16 MB of video RAM</li> <li>• CD-ROM drive</li> <li>• TWAIN-compliant host application</li> </ul>		

**NOTE: Scanning films at high resolution and bit depth produces very large files which must fit into system memory. If installed memory is not sufficient, software and/or system crashes may occur.**

*Specifications are subject to change without notice*

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