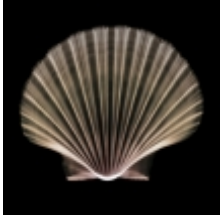


VIDAR® SIERRA *plus* Film Digitizer



Compact and Affordable for a Variety of Healthcare Settings

The award-winning SIERRA *plus* Film Digitizer, developed by VIDAR Systems Corporation, represents a significant advance in film digitizer technology and overcomes some of the most common barriers to digitizer use — quality, cost, and size. The ACR-compliant SIERRA *plus* is the lowest cost digitizer for remote primary diagnosis. The SIERRA *plus* also is the first film digitizer small enough to be easily wall-mounted, solving siting problems commonly found at hospitals and radiology offices. It features VIDAR's next-generation proprietary *High Definition CCD (HD-CCD®)* technology. Its unique ADC™ (Automatic Digitizer Calibration) feature results in virtually no variation in image quality and ensures excellent grayscale reproduction in every image. The SIERRA *plus* meets the needs of healthcare professionals for a high quality, affordable, compact film digitizer capable of being integrated into a variety of healthcare settings, including at the point of care.

Solving Quality, Cost and Size Barriers to Film Digitizer Use

Maintenance Free Design and Lower Cost of Ownership

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 (\$500 or more each) due to film jams. Parts replacement, on-site service, shipping, and service costs for factory repairs can reach \$4,500 annually for laser digitizers. These substantial cost differences are illustrated by a comparative analysis created by PACS expert Michael Cannavo. An analysis of a three-year total cost of ownership demonstrates that the cost of owning a laser digitizer is significantly more than that of a SIERRA *plus*.

- Choice of Leading Teleradiology Solution Providers
- Highest Reliability
- Maintenance Free

Flexibility of Siting

At just 21.5 pounds, the SIERRA *plus* is much lighter than other digitizers that weigh 50-200 pounds. This light weight, combined with its small size — about that of a one-panel light box — makes the wall-mountable SIERRA *plus* ideal for crowded radiology offices and hospitals, where space often is at a premium. It also means that the SIERRA *plus* can be deployed in a number of other settings where quick access to high-quality electronic images would enhance patient care, such as the emergency department, intensive care unit, and coronary care unit, as well as at teaching hospitals and alternate care settings.



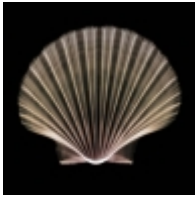
Clinically Proven Image Quality

The SIERRA *plus* continues VIDAR's tradition of exceptional image quality. A recent Mallinckrodt Institute of Radiology study comparing the SIERRA *plus* and the Kodak LS75 laser digitizer demonstrated that there is no difference in image quality and radiologists' preference between radiographs digitized on the two systems. In addition, a ROC (Receiver Operator Characteristic) study conducted at Johns Hopkins University concluded there was no difference in a radiologist's ability to make a correct diagnosis when reading the original films or the SIERRA *plus* digitized images on a high-resolution workstation.

The SIERRA *plus* is supported by VIDAR's superior customer service. It also delivers unmatched stability, consistency, and ease of use. With no additional burden on their staff, radiologists can be confident that the digitized image is faithful to the hard-copy film, and that their diagnoses are based on accurate, complete information.

SIERRA *plus* — combining unmatched image quality, superior reliability, compact size, and low total cost of ownership — results in the most economical ACR-compliant film digitizer on the market.

VIDAR[®] SIERRA *plus*



Nominal Resolution	Pixels (14"x17" film)	Spot Size (um)	DPI	Line pairs Per mm	Digitizing Speed
1K x 1.25K	1050 x 1275	339	75	1.5	21 Seconds
2K x 2.5K*	2100 x 2550	169	150	3.0	42 Seconds
4K x 5K	4200 x 5100	85	300	5.8	82 Seconds

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

Clinical Optical Density Range	.02 to 3.6	
Bit Depth	16-bit mapped to 12-bit (4096) and 8-bit (256) grayscale output	
MTBF	35,000 hours	
Film Sizes	Width: 7" to 14" (17.8 cm to 35.6 cm) Length: 7" to 17" (17.8 cm to 43.2 cm) Thickness: 0.006" to 0.008 (0.15 mm to 0.51 mm)	
Film Feeder	Single sheet standard "Light Box" loading: head-up, normal reading, left justified Film sizes up to 14" x 17" (35.6 cm x 43.2 cm)	
Translation Tables	Linear OD	
Geometric Accuracy	Better than 1% or 2 pixels, whichever is greater, in both axes	
Hardware Interface	Conforms to the SCSI-2 specification SCSI termination and ID selection switches are accessible at base of unit	
Software	Windows [®] scanning modules and software development tools available	
Power Requirements	Voltage: 100~240 Vac Frequency: 50~60 Hz Power: ≤48 Watts	
Operating Environment	60° to 85° F (15° to 30° C), 20% to 85% relative humidity, non-condensing	
Storage Environment	0° to 140° F (-15° to 60° C), 20% to 85% relative humidity, non-condensing	
Illuminator	Cold cathode; ≥35,000 hours expected life	
Detector	Solid-state, next-generation High Definition CCD (HD-CCD [®])	
Dimensions	Footprint: 19" W x 18.5" D (48.26 cm x 46.99 cm) Overall: 19" W x 18.5" D" x 40" H (48.26 cm x 46.99 cm x 101.6cm) Shipping: 27" W x 18" L x 27" H (68.6 cm x 45.72 cm x 68.6 cm)	
Weight	21.5 lbs. (9.75 kg); shipping weight: 48 lbs. (20.52 kg)	
Certifications	FDA Class II 510(k) 993597; CE MDD 93/42/EEC Class I; CAN/CSA C22.2 No. 601.1-M90; Health Canada Class II; Japan-MHW; CCC; SFDA; KFDA; FCC Class A; EN 60601-1-2; IEC 60601-1; ISO 9001:2000; ISO 13485:2003	
Authorised Distributors	Cynaptix Technologies Pvt Ltd Padmaram Towers, II Floor, 15, East Spur Tank Road, Chennai 600 031, India. www.cynaptix.com	Phone : +91-44-28192444 +91-44-42147065 Fax : +91-44-28191444 email : vinod@cynaptix.com



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



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VIDAR® SIERRA™ plus Film Digitizer

Introduction

- The award-winning SIERRA plus from VIDAR Systems Corporation combines exceptional image quality, reliable performance, compact size, flexibility of siting, and affordability to overcome barriers to digitizer use. The SIERRA plus is ideal for imaging centers and small- to medium-size hospitals, as well as larger hospitals that require multidigitizer solutions.
- The SIERRA plus, which exceeds the American College of Radiology teleradiology practice guidelines, weighs less than 25 pounds and can be easily wall-mounted, allowing it to be deployed in a wide variety of healthcare settings, including at the point of care.
- Well-known in the industry for its leading-edge products and exceptional customer service, VIDAR has pioneered a series of product innovations that have dramatically changed the field of film digitization. The SIERRA plus, which reflects VIDAR's ongoing commitment to product excellence, received the 2001 Industrial Design Excellence Award for design innovation.

Enhanced Capabilities

The SIERRA plus features VIDAR's next-generation High Definition CCD (HD-CCD®) technology. HD-CCD is based on the company's advanced digital design and image processing technology, which deliver image quality equal to or better than that of larger, more expensive laser digitizers.

- The SIERRA plus also includes VIDAR's enhanced ADC™

(Automatic Digitizer Calibration) feature, which prompts the digitizer to calibrate automatically before every film digitized, eliminating the need for manual calibration.

Outstanding Reliability, Durability & Value

- Engineered for reliability and durability, VIDAR digitizers have a mean time between failure (MTBF) of =50,000 hours, the equivalent of nearly six years.
- Unlike digitizers from other manufacturers that require periodic maintenance to ensure optimal performance, VIDAR's digitizers require no routine maintenance or daily cleaning. For busy radiology departments, this highly reliable, maintenance-free performance translates into greater up-time, improved productivity, reduced operating costs, and increased revenue.

Clinically Proven Image Quality

- VIDAR is unique among digitizer manufacturers in its investment in clinical studies to validate the image quality and performance of its digitizers, reflecting the company's continuing focus on maintaining the highest standards in digitizer technology.
- A growing number of clinical studies at leading institutions such as Johns Hopkins University and the Mallinckrodt Institute of Radiology confirm that there is no difference in image quality and the ability of radiologists to make correct diagnoses between films digitized on VIDAR or laser-based systems.

The VIDAR SIERRA plus Film Digitizer

- Named for its unmatched image quality, compact size, flexibility of siting, and low life-cycle cost, SIERRA stands for: **S**mall **I**nexpensive to purchase & own **E**xcellent image quality **R**eliable performance **R**emarkably easy to use **A**dvanced digitizer

About VIDAR

- VIDAR Systems Corporation, headquartered in Herndon, Va., is the worldwide market leader in medical film digitizers, with more than 11,000 units installed. VIDAR's digitizers are the choice of leading systems solution providers, including Agfa HealthCare, FUJIFILM Medical Systems USA, Inc., GE Medical Systems, Kodak Health Imaging, PenRad, Philips Medical Systems, R2 Technology, RIT, Scanditronix-Wellhofer, Siemens Medical Solutions, and Varian Medical Systems. For additional information, visit VIDAR's Web site at www.filmdigitizer.com.

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