

VIDAR ATLAS 40

WIDE FORMAT COLOR SCANNERS



ATLAS 40" - Model BASE and PLUS

Wide Format Color Scanners

SCANNING

- Very fast color and monochrome scanning
- 42 bit color capture for photo-realistic vivid colors
- 14 bit graytone capture for perfect reproduction of grayshades
- All-Wheel-Drive with contour adjustment
- Thick Media Support – up to 0.6"
- Flexible connectivity - FireWire Plug 'n' Play and SCSI
- 3C Automatic Maintenance System
- Scan to PDF format option

COPYING

- Color matching to printer & media
- Advanced options for printing of grayshades
- Built-in Basic calibration – black-and-white points
- Built-in Precision Color calibration

ATLAS 40"

The Vidar ATLAS 40" wide-format color scanners incorporate the latest in imaging technology for high-quality full color scanning and copying. The scanner's 40" imaging area handles large color posters, architectural sketches, detailed maps, drawings and fine art at very high speeds. These state of the art scanners offer a cost-effective solution for reprographics, graphic arts, GIS and CAD professionals worldwide. The ATLAS 40" scanner opens new possibilities for Sign Companies, Pre-press shops, Copy shops, POP/Exhibit/Display Providers, Repro Houses, Mapping, Architect and Engineer offices.

 The Image of Reliability.

VIDAR
systems corporation
www.vidar.com

ATLAS 40" – Wide Format Color Scanners

SCANNING SUPERIORITY

The versatile ATLAS 40" scanner creates images in photorealistic colors, high-quality grayscale and crisp, clear black-and-white. Color is captured at 42 bits for maximum color precision, passing the best 24 bits of color data to the computer to enhance color fidelity. The ATLAS uses All-Digital cameras with advanced point-of-origin color capture and on-board digital conversion ensuring minimum noise and an extended dynamic range. Quality color matched fluorescent lamps ensure the market's highest standards for color correctness. Graytones are captured at 14 bits for maximum precision, passing the best 8 bits of graytone data to the computer. The scanner's unique four-linear CCD technology, with a special panchromatic line, ensures that no colors are lost when scanning monochrome. The ATLAS 40 can scan up to 0.6-inch (15mm.) thick originals such as posters mounted on foamboards, gatorboards etc.

ONE TOUCH SCANNING

The ATLAS' operator's panel is designed with convenient programmable action buttons for initiating common tasks directly from the scanner.

CARE FOR YOUR ORIGINAL

The Vidar All-Wheel-Drive with contour adjustment and precision rollers ensures a perfectly straight scanning path without using unnecessary force so you avoid both image distortion and damage to your customer's fragile originals. Dual shared axels synchronize roller movement to ensure a straight and stable scan path. Suspension components apply pressure evenly across the whole width of the document for an optimal yet delicate hold. The roller's soft-friction contact surface adds the final touch to a system that cares for your original and for your scan results.

IMAGE ENHANCEMENT POWER

The ATLAS 40' on-board real time color correction and 2D-filters for color sharpening, softening and blur provide superior results with a wide variety of input images. The ATLAS 40 supports the latest in monochrome scanning technology with Dual 2D-Adaptive enhancement that works simultaneously on foreground, background, edges and other individual aspects of the original so you produce clean, crisp scans even from poor quality drawings. Dual 2D-Adaptive processing is the only pixel level cleanup of its kind in the industry today. All processing is embedded in the hardware enabling you to perform powerful image enhancement without overhead and at speeds incomparable to standard software processing.

COPYING MADE EASY

Connect the ATLAS 40" scanner with a large-format printer and you get the perfect large format color and monochrome digital copier. With the scanner's high precision of details and colors, users can enlarge their creations to full display sizes without losing quality. Dual 2D-Adaptive enhancement and ADL+ error diffusion halftoning produce reliable copies of drawings and photos in which even subtle differences between shades of gray are maintained in the printed output.

FLEXIBLE CONNECTIVITY

The ATLAS 40 scanner lets you fit the connection to your immediate needs by offering two interface options - the highly efficient and convenient Plug and Play (PnP) FireWire connection and the industry standard SCSI interface. With the FireWire interface you can get your scanner running with plug-and-play ease while achieving optimal scanning speed. FireWire can accommodate 400 megabits per second, which is highly effective for high volume scanning of large formats. The standard SCSI connection can be used for computers without FireWire support. Vidar scanners protect your investment with support for STI (Still Image Interface) ensuring problem-free compatibility with current and future versions of Windows.

PRECISION COLOR

A new wide format scanner may come calibrated from the factory, but as time goes by, components and lamps will change character and affect color output. With a Vidar scanner, your investment is fully protected and you need not worry about degradation. The unique Precision Color system lets you calibrate in the field at any time ensuring stable and predictable color output. The ATLAS 40 scanner is calibrated to both sRGB and NTSC color spaces using an ANSI IT8 calibration target. Furthermore, the automatic black-and-white point monitoring allows users to get an optimal dynamic range of color fidelity tailored to the actual scanned original.

AUTOMATIC SCANNER MAINTENANCE

The ATLAS scanner incorporates the 3C Auto-Maintenance system that keeps your cameras perfectly aligned, adjusted and calibrated for optimal image quality. The process is automatic - just insert the maintenance sheet and click the wizard's start button. The 3C Auto-Maintenance system aligns and stitches your cameras to a fraction of a pixel giving the highest wide format image precision available. Basic-Calibration sets black-and-white points on each individual pixel and ensures linearity in both highlight and shadow areas giving noise-free and stable scans at all resolutions. Precision Color calibration completes the 3C Auto-maintenance system process. Once the scanner has been fine-tuned, it performs a number of basic tasks on its own, removing those tedious chores required with other scanner systems. Using patented technology, camera stitching and black-white-points are constantly monitored and corrected while your scanner is running. Vidar scanners are designed to let you concentrate on your work and take optimal scanner performance for granted.

ADVANCED POWER MANAGEMENT

Running with the right internal temperature is of utmost importance when doing high-quality scanning through sensitive CCDs. The ATLAS 40 scanner has Advanced Power Management that rapidly brings the scanner to its optimal working temperature, after which the temperature is monitored and held at a minimum level ensuring low CCD noise. The Advanced Power Management system also lets users leave the scanner in low-power mode and program it to power up automatically before they arrive at work so the scanner is ready to scan right away.

Distributor:

Dealer:

VIDAR
systems corporation
www.vidar.com

ATLAS 40" – Wide Format Color Scanners

The two ATLAS 40" scanner models differ in performance and can be easily upgraded with new features for future requirements through the Smart-Card Upgrade Kit.

ATLAS 40 Wide Format Color Scanner Models		BASE	PLUS
Maximum Resolution:	(in dpi)	800	2400
Optical Resolution:	(in dpi)	508	508
Scan Accuracy:	0.1% ±1 pixel	√	√
Variable Resolution Setting:	from 50 dpi in one dpi increments	√	√
Scanning Speed inch/sec.:	(400 dpi turbo, 24-bit RGB)	1.5"/s	3.0"/s
	(400 dpi turbo, 8-bit Index)	3.0"/s	3.0"/s
	(400 dpi turbo, B/W)	4.0"/s	8.0"/s
Media Maximum Width:	43" (1092 mm.)	√	√
Maximum Thickness:	0.6" (15 mm.)	√	√
Scan Width:	40" (1016 mm.), Scan Length: not limited by scanner	√	√
Digital Image Processing embedded in hardware:	Dual 2D-Adaptive Enhancement	√	√
	Dual 2D-Adaptive Gray	√	√
	ADL+ Error Diffusion Halftoning	√	√
	2D-Sharpening, 2D-Softening and 2D-Blur Filter	√	√
	Color Feature Extraction	√	√
	2D-Adaptive Thresholding	√	√
Scan Modes:	24-bit color	√	√
	8-bit Feature extraction/Indexed color	√	√
	8-bit Graytone	√	√
	Copy modes with grayshades	√	√
	1-bit black-and-white	√	√
	B/W Dual 2D-Adaptive Modes	√	√
Color Adjustment:	3x3 matrix multiplier	√	√
	Independent RGB tone curves (Gamma)	√	√
	Independent black-and-white point setting	√	√
Color Space:	NTSC	√	√
	sRGB	√	√
3C Auto-Maintenance System:	Auto-alignment to fraction of a pixel	√	√
	Auto-stitching to fraction of a pixel	√	√
	Basic calibration	√	√
	Precision Color calibration	√	√
	Auto monitoring and correction (stitching, black-and-white point)	√	√
Sensors:	Triple 4-linear CCDs (RGB triplets+Panchromatic BW)	√	√
	22,500 pixels	√	√
	42 bits of color data capture	√	√
	14 bits of graytone data capture	√	√
	All-Digital cameras	√	√
One Touch Scanning:		√	√
Advanced Power Manager:	Temperature control	√	√
	Low power mode	√	√
	Programmable power up timer	√	√
All-Wheel-Drive:	Contour adjustment	√	√
	Precision rollers	√	√
Light Source:	Color matched fluorescent lamps – Color Rendering Index (CRI) > 95	√	√
Optics:	Torsion stabilized for portability	√	√
Interface:	FireWire	√	√
	Ultrafast SCSI	√	√
	STI (Still Image Interface) support	√	√
Dimensions:	52.9" wide x 7.3" high x 18.3" deep (1342 x 185 x 465 mm.), Weight: 57 kg	√	√
Power:	110/220/240V, 60/50cs, 180W	√	√
Interface board (Included)		√	√
WIDEsystem Kit (Included):	Drivers, Maintenance software, Maintenance sheet	√	√
Floor Stand (Optional):	Includes document basket	√	√
Thick Media Support Table (Optional):	Floor stand required	√	√
Host Platforms:	Windows 98, 98SE, ME, NT4, 2000, XP with SCSI	√	√
	Windows ME, 2000, XP with FireWire	√	√
	Power Macintosh	√	√

Distributor:

Dealer:

VIDAR
systems corporation
www.vidar.com

Vidar is a trademark of Vidar A/S. Apple and Macintosh are trademarks of Apple computer, Inc. registered in the USA, and other countries. Microsoft, Windows, and Windows NT are registered trademarks of Microsoft Corporation in the USA, and other countries. UNIX is a registered trademark of the Open Group in the USA, and other countries. All other brand and product names are trademarks or registered trademarks of their respective companies. The information contained in this document is subject to change without notice. Vidar makes no warranty of any kind with respect to this information. Vidar specifically disclaims the implied warranty of merchantability and fitness for a particular purpose. Vidar shall not be liable for any direct, indirect, incidental, consequential, or other damage alleged in connection with the furnishing of or this information.