

AZTEK® PREMIER™ DRUM SCANNER

The Best Archival Quality Film Scanning System!

Beneath its straightforward appearance the New Advanced AZTEK® PREMIER™ DRUM SCANNER possesses capabilities unavailable in any other Scanner. With its patented Photo Multiplier and OptiVu™ Technologies, the Premier™ automatically manages and focuses variable scan capture spot sizes down to 3 microns to match the grain of the film. This function is performed completely independently of the resolution (or dpi) of the scanners resolution. The AZTEK® OptiVu™ technology uniquely results in literally flawless archival large format scanning, at any scale factor (even at 21,333% or 64,000 dpi) without any grain noise or other image artifacts. With the sensitivity of Photo Multiplier Sensors and OptiVu™ technology, the AZTEK® Premier™ has proven itself in both photo lab production and industry standardized benchmarks to have greater density sensitivity, optical accuracy, image quality, speed and scaling capability than any other professional film scanner tested to-date.



The AZTEK® Premier™ is the result of decades of Photo Imaging Industry, film optical and density management, software and P.M.T. (Photo Multiplier) drum scanner research and development. Unlike other scanners without OptiVu™ Technology, most are limited to a few physical spot sizes or true physical optical resolutions and perform only Log Space or ICC Capture. The AZTEK Premier™ is equipped with eighteen physical optical spot sizes and truly can see or sample to the finest detail spot size of 3 microns (thousandth of a millimeter) and each scan is density calibrated! All under automatic software control, tailored to the media or film being scanned. This equates to the optimum grain management and the ability for unsurpassed optical enlargements without scanner noise unsharp masks or similar problems.

The AZTEK Premier Drum Scanning System surprises people with its productivity and intuitive ease of use and complete end-to-end 48 bit workflow quality. The Premier includes the patented AZTEK Digital PhotoLab® Scanning Software, One Removable Drum and Accessory Kit of Supplies. The optional Premier Film Mounting Station can literally take seconds to mount film. Due to multi-processing and multi-tasking a single user can review and correct pre-scans, setup batches, color correct or adjust images, open and close files, all simultaneously while scanning is in progress. This plus, extraordinary capabilities to auto analyze film for accurate scanning and speeds at 500MB 120/220 scans in less than 9 minutes, the results are dramatic. Typical batch production levels vary between 60 to 6 scans per hour depending on size and resolutions. Advanced features include: RGB and CMYK Scanning with Both Density Calibrated and ICC Workflows; Negative Analyzer, Max Optical, Optical Only, "Scan-to-File," "Scan-to-Print," "Scan-to-Print-&-File," Calibration Tools for On-line Display of both ISO Status A Densitometer and an Accurate Photo Color Target Image.



SPECIFICATION:

Scanning Area:	12" x 12"
Scan Principle:	Single Pass with Three Independent Photo Multipliers and Aperture Light Path Control
Spot Size:	Eighteen Sizes Smallest 3 Micron or 3 ten thousandth of a mm
Capture Fidelity:	All scans are 16-Bit Separate RGB Output
Optical Step Resolutions:	Twenty: 16,000 x 8,000; 8000, 4000, 3200, 2,666, 2000, 1666, 1333, 1142, 1000, 888, 727, 615, 500, 400, 320, 250, 200, 100, 80
Interpolated Resolution:	64,000 dpi Bi-Cubic Interpolation in Increments of 1 dpi
Scaling (at 300 dpi):	2,666% Optical or Up to 21,333% Bi-Cubic Interpolated
Maximum File Size:	4.1GB
Original Types:	Transparency (Positive and Negative), Reflective, Framed Slides, Printed Material and Half-Tone Screened Films
Materials:	Reflective, Transparencies Chromes and Negatives
Scan Modes:	RGB and CMYK Density, RGB Log, Gray-Tone, ICC / ICM
File Formats:	Tiff 8, 16, 24, & 48-Bit RGB, CMYK and Gray; Adobe PSD; Loss-Less JPEG, WMF, BMP
Industry* Dmax:	5.9*
Actual Optical Density:	ANSI / ISO Status A Density between .02 D _{min} and 3.88 D _{max}
Workflow:	Density & ICM / ICC Color Management Tagging and Conversion
Interface:	ANSI SCSI-2
Light Source:	Two Halogen Photo Optic Lamps
Electrical Requirements:	120/240 Vac 50/60 Hz Auto Sensing
Weight:	168 lbs.

OPTIONS:

Premier Mounting Kit:	Mounting Station, 2nd Removable Drum, Film Mounting Fluid, Cleaning Fluid, Clothes, Tape & Acetate
Additional Drums:	Separately Available
Software:	AZTEK Digital PhotoLab® Pro
AZTEK ScanServer:	Two Models of Pre-Configured Scanning and Image Computer Servers to Choose from the "LE" & "XP"
Services:	Training, Installation, Calibration Support and Full Service Maintenance

* Scanner Industry Specifications are only provided for comparison purposes. Please refer to the actual optical performance.



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