

ALOS



More speed, more options, more visual display, all with the ALOS Z-Scan 47.

Digital technology makes microform data more powerful than ever. ALOS makes microform access and distribution quick and simple – with widescreen viewing, high-resolution image quality, flexible PC connectivity, and versatile printing options

for superior results in every application. The ALOS Z-Scan 47 offers a wide range of automatic features and options for added flexibility and convenience.

 **Scan 47**
Universal Digital Microform Scanner

VERSATILITY



12"X17" SCREEN AND DUAL OUTPUT

Lets you view more detailed information with higher productivity and lets you select the output format with ease. With dual output, you can switch from PC scanning to laser printing at the touch of a button. With "push" scanning, you can initiate scan functions and adjust scanning parameters right on the front panel of your scanner – no need to move from scanner to PC.

To make scanning easy, a standard USB 2.0 Interface with TWAIN driver lets you use Windows 2000, XP or Vista.

Vertical stacking lets you automatically combine front and back of checks on a single print; and high-resolution PC scanning at up to 800 dpi lets you use and distribute microform information in websites, e-mails, faxes and desktop publishing.

Professionals in finance and business applications, architecture and manufacturing, education, government and libraries already count on ALOS microform scanners for quality, versatility and performance.

MORE SPEED, MORE OPTIONS, MORE VISUAL DISPLAY.

Digital technology makes microform data more powerful than ever. ALOS makes microform access and distribution quick and simple – with widescreen viewing, high-resolution image quality, flexible PC connectivity, and printing options for superior results in every application.

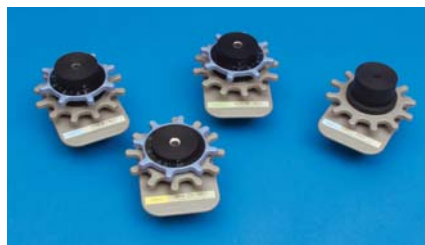
The ALOS Z-Scan 47 gives you wide screen high-resolution 12"x17" viewing to display more visual information. It lets you quickly access the data, drawings, graphics and microfilm archive information you need. You can electronically enhance images, zoom in on areas to magnify fine details, and utilize a wide range of auto imaging convenience features. Then scan to the PC for electronic distribution as e-mail attachments, on websites, or for use in desktop publishing. Print on the high quality MSP3000 laser printer, at full 20 ppm and up to 11"x17" prints.

Read on screen. Print on paper. Scan to PC. The digital era gives you new opportunities for making microform information more powerful, versatile and cost-effective.

A wide range of options and accessories are available, so you can handle any microfilm or microfiche image. And with the modular designed scanner and printer, you can set up your system to suit your work environment – even have two scanners share a single MSP3000 printer.

With the Z-Scan 47 quality optics and sturdy construction, we've raised our own high-standard for high-resolution scanning, fast high-quality printing, ease of operation, and long-term reliability.

HIGH QUALITY OPTICS



You choose from four types of interchangeable lenses, from a single focus 7.5x lens, or zoom lenses that span 9-16x, 13-27x or 20-50x zoom ratios.

MICROFORM CARRIERS



Whatever your application, ALOS provides the carrier you need. The Z-Scan 47 offers a full range of interchangeable microform carriers for microfiche, aperture cards, jackets, 16mm and 35mm rollfilm, and 16mm cartridges.

APERTURE CARD AUTO SCANNING

The ACF 7 Aperture Card Feeder option lets you feed aperture cards automatically at adjustable viewing or scanning speed – 150-card capacity, variable speed adjustment, single/manual feed operation, and fast batch scanning with the Twain driver.

MSP3000 DIGITAL PRINTER

Superior image quality, fast output at up to 20 ppm with first-copy output in just 13 seconds. The paper capacity can be up to 1,150 sheets with optional cassettes.

Superior print quality: The Fine Micro Toner (Fine-MT) System uses precision laser technology to reproduce fine details other printers might miss.



Toner is simple to replace with all-in-one imaging unit. And your end users can do it themselves without asking for staff assistance.

When cost or workspace is an issue the 2-1 sharing lets you share two Z-Scan 47 scanners with a single MSP3000 printer.

FEATURE RICH AND EASY TO USE

The Z-Scan 47 is designed to be simple and self-explanatory. All important controls are at your fingertips and clearly labeled – including a Dual Output function that prints or scans images at the touch of a button. And when you scan to the PC, you don't have to move from scanner to PC keyboard – because front-panel “push” scanning lets you initiate scanning and make all scan adjustments right from the front panel of your Z-Scan 47.

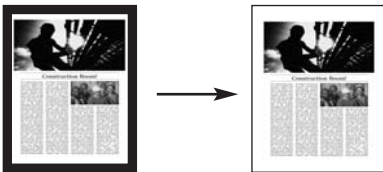


STANDARD FEATURES

AUTO EXPOSURE

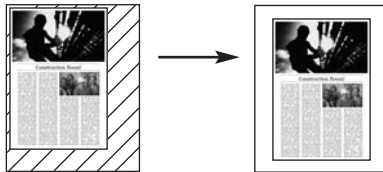
The Z-Scan 47 determines the exposure setting automatically for the highest quality scan. Manual exposure override is available.

AUTO FRAME MASKING



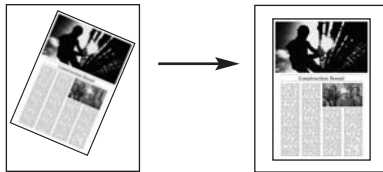
The system masks the black bands that run along the edges of the image.

AUTO CENTERING



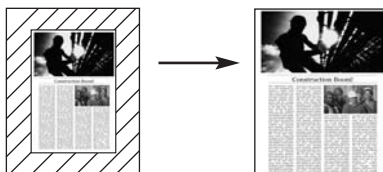
The system generates an image that is centered on the printed page, from an image on the screen with a masked frame.

AUTO SKEW CORRECTION



The machine automatically corrects any skew of up to 30 degrees when the image is printed.

FIT TO PRINT

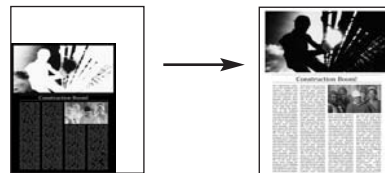


Fits the image on the screen onto the entire surface of the print (50% to 200%).

VERSATILE INTERFACE

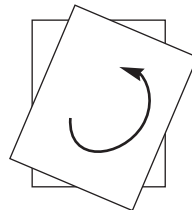
Standard USB 2.0 connector and Twain Driver for PC and high-speed video connector for direct printing.

AUTO FILM POLARITY DETECTION



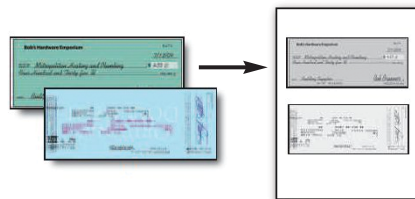
When selected a true Bi-Mode sensing allows the Z-Scan 47 to automatically determine the film type so you get a positive printout whether you are using negative or positive film.

AUTO IMAGE ROTATION



Rotates the image electronically or with a motorized optical prism to the print orientation desired.

CHECK STACKING



When you are viewing checks on screen, you can scan both front and back, crop and deskew each image independently, and output both automatically on a single 8-1/2" x 11" page.

OPTIONAL FEATURES

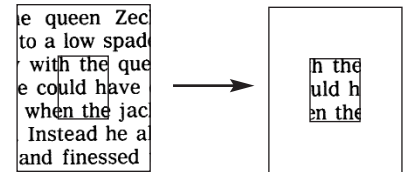
AUTO FOCUS

With the optional Auto-Focusing Kit you can add increased versatility and performance.

MANUAL MASKING AND TRIMMING

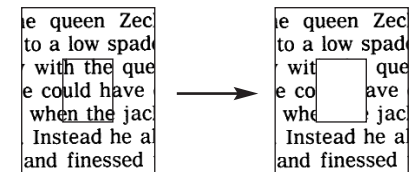
The optional Manual Frame Masking/Trimming Kit provides side-screen LED lights for visual cues to manually select print or scan areas, as well as define the areas to be masked or trimmed.

MASKING



The system marks the center of the image appearing on the screen with the Manual Frame Masking Panel function.

TRIMMING



The system masks everything but the center of the image.

GRAYSCALE SUPPORT

If your application demands high-graphics reproduction, the optional Grayscale Upgrade Kit lets you output 8-bit, 256-gradation grayscale images to your PC capturing fine details more accurately.

Z-SCAN 47 MICROFORM SCANNER



OPTIONAL WORKSTATION:
With space-saving over/under design – Z-Scan 47 above. MSP3000 Laser Printer below.

SPECIFICATIONS

Type: Desktop Universal Digital Microform Scanner

Type of Film: Microfiche, jackets, aperture cards, 16mm and 35mm roll film, 16mm film cartridges

Screen Size: 12" x 17" (300 x 440 mm)

Magnifications: 7.5x, 9-16x, 13-27x, 20-50x

Focus Control: Manual, Auto (optional)

Image Rotation: Prism rotation (standard Auto Image Rotation; prism included) Carrier rotation (fiche carrier)

Zooming: Manual

Scanning Method: CIS (Contact Image Sensor)

Scanning Speed: 5 seconds per page at 400 DPI
4 seconds per page continuous scan, 400 dpi

Scanning Density: 200, 300, 400, 600 dpi
800 dpi (check scanning)
PC mode

Optical Resolution: 600 dpi

Electronic Zooming: 50% - 200%, print to fit paper (direct print)

Multiple Printing: 1-99 prints (LED countdown identification) with MSP3000 printer

Hardware Interface: Video (direct print) to MSP3000 printer
USB 2.0 (to PC) - standard (Switchable on front panel)

Exposure: Auto, Manual

Scanning Features:
Standard:
- Auto Centering
- Auto Frame Masking
- Auto Image Rotation
- Auto Skew Correction
- Check Stacking
- Front-Panel Scanning ("push" scanning)

Optional:
- Auto Focus
- Manual masking (trimming and masking)
- Footswitch Support
- Date Stamp Annotation (with printer)
- Grayscale support

Halogen Lamp: 20V, 150W

Power Requirements: AC 120V, 60Hz

Power Consumption: 350W

Dimensions (WxDxH): 22" x 30" x 33-1/2"
(560 x 760 x 853 mm)

Weight: 143 lbs 4 oz (65kg)

Options:

Microform Carriers:
- Fiche Carrier 9
- Universal Carrier 2
- Universal Carrier UC50
- Universal Carrier UC59/59M
- Rollfilm Carrier 9B
- Rollfilm Carrier 53/53M
- Rollfilm Carrier 15A/15M
- Rollfilm Carrier 22A
- Auto Card Feeder ACF 7

Other Options:

- Lenses (see Magnifications)
- Manual Frame Masking Kit
- Auto Focus Kit
- Grayscale Kit (256 levels, 8-bit Output to PC)
- Mars Controller 4
- Mars Mini Controller 2
- Workstations
- Footswitch

Printer:
- MSP3000 Digital Laser Printer and Cable (Direct)

MSP3000 PRINTER



MSP3000 DIGITAL PRINTER:
20-ppm output speed, max.
1,150-sheet paper capacity,
first copy in just 13 seconds.

SPECIFICATIONS

Printer Method: Laser electrostatic

Developing System: Fine Micro-Toning (Fine-MT) system

Print Resolution: 400, 600 dpi

First Print Speed: 13 seconds (8.5" x 11" or A4; landscape)

Print Speed: 20 sheets per minute (8.5" x 11" or A4, 400 dpi)

Print Size: 8-1/2" x 11" (A4) landscape
8-1/2" x 11" (A4) portrait
8-1/2" x 14" (B4) landscape
11" x 17" (A3) portrait

Paper Supply: 150-sheet universal paper tray
250-sheet universal cassette
500-sheet letter size cassette (optional)
Third paper tray with 250-sheet universal tray (optional)

Maximum Paper Capacity: 1,150 sheets

Warm-up Time: Less than 70 seconds

Power Requirements: AC 120V, 60Hz

Power Consumption: 750W

Dimensions (WxDxH): 22" x 20-1/2" x 16"
(561 x 521 x 409 mm)

Weight: 61 lbs 12 oz (28kg), (including imaging cartridge)

ACF 7 CARD FEEDER

SPECIFICATIONS

Type: Aperture Card Feeder

Card Holder Capacity: Up to 150 cards

Card Feed Modes: Single-feed/Eject
Multi-feed and Print/Scan
Manual feed

Card Feed Time: 2 seconds or less

Card Feed Interval: 0.5 to 5 seconds (variable, user-selectable)

Screen Position Adjustment: Vertical: ± 2 mm
Horizontal: ± 2 mm
Slant: $\pm 0.8^\circ$

Dimensions: 34.4" x 14.1" x 7.1" (WxDxH)
(875 x 358 x 180 mm)

Weight: 26 lbs (11.5kg)

Power Requirements: DC 24V (supplied from Z-Scan 47)

Power Consumption: 72W or less

Supplied Accessories:

Manual Feed Table
Exit Tray
Interface Board

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