COOLSCAN IV ED (LS-40 ED)

Nikon Corporation is pleased to announce the introduction of its new scanner - the COOLSCAN IV ED.

Developed as a general-use film scanner within the new COOLSCAN series, it enables 35mm / IX240 film scanning at true 2,900-dpi optical resolution. Its 12-bit A / D conversion input and 16-bit output deliver accurate color reproduction. What's more, it offers high-speed scanning (approx. 42 sec. from image transfer to display) at 2,900 dpi.

The COOLSCAN IV ED frees photographers from time-consuming film management such as sorting, arranging and storing of film, and offers easy access to the exciting world of digital images.

For the film scanner novice, the new COOLSCAN IV ED acts as a "film's digital bridge", enabling scanning of higher quality than that of a flatbed scanner capable of "transillumination". It can even restore faded or orange-tinged discolored negative film to true, brilliant color, previously a difficult process for beginners.

The COOLSCAN IV ED's superior image quality is supported by an advanced SCANNER NIKKOR ED lens with reduced chromatic aberration and minimized image distortion, newly developed custom CCD for clear resolution, and a new Setup function featuring intelligent tone and color auto-correction. In addition, gentler-on-film LED illumination ensures consistently accurate color reproduction.

Furthermore, the new digital image correction function Digital ICE^{3TM} (cubed)* resolves defects such as film surface dust and scratches, faded color, mold and grain, that cannot be corrected with ordinary scanners. Digital ICE^{3TM} comprises Digital ICETM (Image Correction & Enhancement), Digital ROCTM (Reconstruction of Colors), and Digital GEMTM (Grain Equalization & Management).

For easy connection with a computer, commonly used USB interface is adopted.

*Developed by Applied Science Fiction Inc.

Main Features

- 2,900 dpi true optical resolution scanning, 12-bit A/D converter incorporating 16-/8-bit output for vivid images
- Exclusive SCANNER NIKKOR ED high-resolution/high-performance optics (7 elements in 4 groups including 3 ED glass elements) for reduced color aberration and minimized image distortion
- Newly developed custom CCD reduces image noise, and provides clear resolution
- Proprietary LED technology ensures consistently accurate color reproduction

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- Fast 42-sec. scanning at 2,900 dpi (including image transfer to display)
- New setup function for color negative film, featuring intelligent tone and color auto-correction, enables fine reproduction of orange-tinged negative film
- Quick AF & Quick Preview
- Various film formats (35mm [135], IX240, etc.)
- Easy-to-connect USB interface
- Improved Color Management System accuracy
- Digital ICE^{3TM} automatic digital image correction function
 - Digital ICETM (Image Correction & Enhancement), a refined version of the function known as "CleanImage" in the earlier LS-2000 and LS-30, removes dust, scratches and finger prints from scanned images Digital ICETM applies to color film and color process monochrome film, but is not recommended for use with Kodachrome film.
 - 2. Digital ROCTM (Reconstruction of Color) restores faded images to true, brilliant color by determining ideal color tone for each image.
 - 3. Digital GEMTM (Grain Equalization & Management) equalizes image grain resulting in a smoother overall image.

Digital ICE³ (Digital ICE cubed) is Digital ICE, Digital ROC and Digital GEM. Digital ICE³ (Digital ICE cubed), Digital ICE, Digital ROC and Digital GEM are trademarks of Applied Science Fiction Inc.

Digital ICE³ (Digital ICE cubed) are technologies developed by Applied Science Fiction Inc.



Specifications

Reading system/Optics

T:1 .	0.5 (10.5)	/TT/A 40 C1	1'1 1	c ·
Film type	35mm (135)	1/1 X 7/4() tilm	clide alacc	tor microscone
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Reading resolution 2,900 dpi

Film adapters and

holders

STRIP FILM ADAPTER SA-21 (2 to 6 frames)

SLIDE MOUNT ADAPTER MA-20(S) STRIP FILM HOLDER FH-3 (1 to 6 frames)

IX240 FILM ADAPTER IA-20(S) (15/25/40 frames)

(optional)

MEDICAL SLIDE HOLDER FH-G1 (for slide

glass) (optional)

Scanning area (max.) 25.1 x 38.0mm (2,870 x 4,332 pixels)

Effective area (Size/Pixels) SA-21 23.3 x 36.0mm (2,657 x 4,104)

MA-20(S) 25.1 x 36.8mm* (2,870 x 4,203) FH-3 24.0 x 36.0mm (2,736 x 4,104)

IA-20(S) 16.1 x 26.9mm (1,836 x 3,067) FH-G1 22.9 x 35.0mm (2,610 x 3,989)

Illumination method R, G, B, and D-LED array

Imaging optics SCANNER NIKKOR ED lens (7 elements in 4

groups including 3 ED glass elements)

Focusing Autofocus and Manual focus

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Scanning/Signal processing

Scan time Approx. 42 sec. at 2,900 dpi (35mm), 8-bit output

35mm (135) strip film: 2 to 6 frames

(typical scan time with display, Windows, CMS off)

Density range 3.6

Thumbnail scanning

and batch scanning IX240 film cartridge: 15/25/40 frames (optional)

A/D conversion 12bits

Output data 16 bits, 8 bits per color channel (user selectable)

Digital ICE^{3TM} Digital ICETM, Digital ROCTM, Digital GEMTM

Color Management

System

Built-in

Data transfer

Interface USB 1.1

Operating conditions

Power requirements 100~240VAC, 0.3~0.2A, 50/60Hz

Environmental Temperature: 10°-35°C (50°-95°F)

conditions Relative humidity: 20~60% RH (non-condensing)

Dimensions (W x H x

D)

93 x 169 x 315mm (3.7 x 6.6 x 12.4 in.)

Weight Approx. 3kg (6.6 lbs.)

Others**

Accessories included SLIDE MOUNT ADAPTER MA-20(S),

STRIP FILM ADAPTER SA-21, STRIP FILM HOLDER FH-3,

USB cable, Nikon Scan 3 Driver Software,

AC power cord, Manual

Bundled software Photoshop 5.0 LE (Adobe Systems Inc.)

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer.



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^{*}Actual effective size depends on slide mount aperture size.

^{**}Accessories and software may differ depending on country or region.