SCREEN

Cézanne

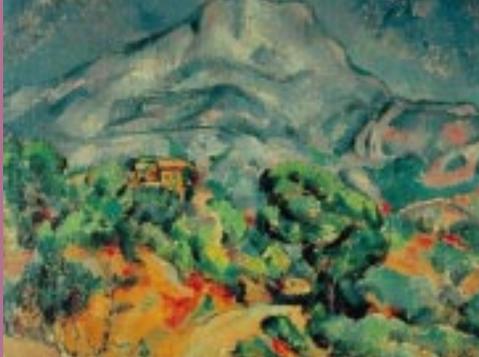**Desktop Flatbed Scanner**

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Cézanne

Screen's expertise encapsulated in an exciting new scanner

Dainippon Screen is proud to present the latest in its famous line of superior scanners: the Cézanne. Like its namesake, the great painter Paul Cézanne, the Cézanne scanner is innovative and ingenious. And just as Paul Cézanne became the father of a whole new world of modern art, this fast, productive, and high-quality machine is sure to be the first in a whole new generation of user-friendly, efficient scanners.

Providing fast scanning at an optical resolution of up to 5,300 dpi across its entire 340 x 530 mm (13.4" x 20.8") scanning area, the Cézanne offers high productivity as well as high speed. It goes without saying that the Cézanne incorporates all the operability you've come to expect from Screen scanners, such as batch scanning and precise control. Its advanced image processing software, ColorScope Pro 3, even features an intuitive Intelligent Setup function. What's more, the Cézanne can be fitted with extra trays for offline original mounting.

Everything you need in a single desktop unit: the Cézanne scanner from Dainippon Screen.

High-resolution input and output

The Cézanne is equipped with a 3-line CCD array that contains 8,000 CCD elements in each line. This helps the Cézanne attain its remarkable 589 to 5,300 dpi range of optical resolutions. What's more, since the Cézanne's CCD array and X, Y zoom mechanism can be moved anywhere in the scanning bed, those optical resolutions are not limited to specific areas. Output is possible at up to 12,000 dpi with the aid of the Cézanne's precision interpolation function and the user can choose between RGB, CMYK, grayscale, and lineart output. RGB output is in 48 bits, CMYK output in 32 bits, grayscale output in 8 bits, and lineart output in 1 bit.

Specially designed fluorescent light source

The Cézanne features a unique, long-lived fluorescent light source that was custom-designed for use with the Cézanne's 3-line CCD array. The blue-green light is tailored to the wavelength at which the CCDs show their highest sensitivity, making it easy to get the best out of the already superior CCD array.

Large scanning area

The Cézanne features an A3 wide scanning bed, which is actually a removable tray, and can scan originals of up to 340 x 530 mm (13.4" x 20.8"). Multiple originals fit easily on the scan bed at the same time, and even A3 size mechanicals, including registration marks, can be placed flat on the Cézanne's scanning bed.

Scanning bed   Original   Light source   Lens   CCD array
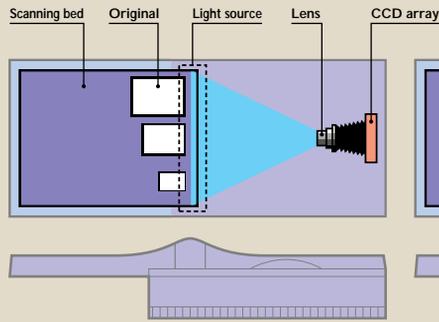
During low resolution scans and prescan, the Cézanne reads the entire scanning bed in one pass.

The Cézanne's advanced X,Y zoom mechanism also allows it to scan originals anywhere on the scanning bed at the optimal resolution for the size and enlargement desired.

Wide variety of originals

The Cézanne offers the versatility every user needs. It is capable of scanning almost anything that fits on its scanning bed, including reflection originals, transparencies, line art, mechanicals, negatives, and even books.

High-speed scanning

The Cézanne features an incredibly high scanning speed. For example, it can scan up to fifty-four 35 mm originals at 350 dpi and 400% magnification, or forty-seven 6 x 7 cm originals at 300 dpi and 250% magnification, in just one hour, including the time required for conversion from RGB to CMYK. This unparalleled speed translates into great productivity. What's more, the Cézanne scans each original at the resolution you need, thus saving valuable time when just a rough scan will do. Prescanning is fast and efficient too.

Batch scanning

The Cézanne supports batch scanning. Originals can be prescanned and set up prior to actual scanning to save time. Furthermore, the Cézanne calculates the best path for the CCD array's X, Y movement, making batch scanning unusually fast and efficient.

Intelligent Setup

The Cézanne's outstanding image processing software, ColorScope Pro 3, features a fuzzy logic driven setup function known as Intelligent Setup. This intuitive setup function allows any operator, whether a novice or an expert, to get the most out of the Cézanne's remarkable scanning ability. All the operator needs to do is select from among intuitive keywords describing the subject of the image to be scanned, such as "Jewels", "Chinaware", or "Foods", and from a variety of finish styles, such as "Slightly dark" or "Soft". The Cézanne does the rest automatically. Intelligent Setup also offers manual controls that allow the operator to adjust highlight, shadow, USM, and tone settings if desired.

Cézanne

A three-dimensional internal view of the Cézanne

CCD array

Lens

Fluorescent bulb

Scanning bed
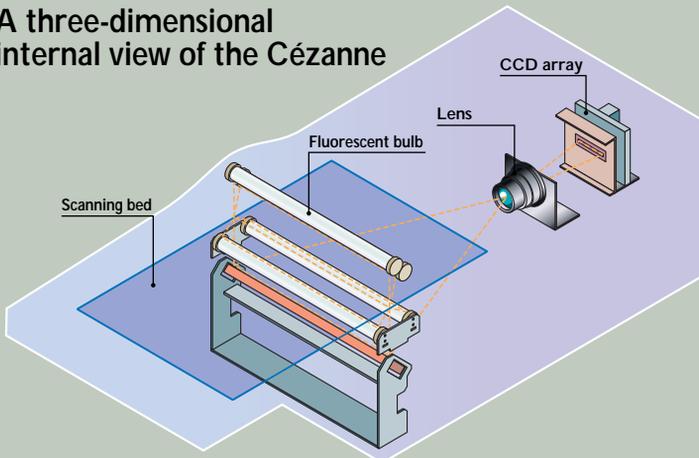
Learning function

ColorScope Pro 3 also incorporates a function that records manual adjustments made to the Intelligent Setup settings, using the information to learn adjustment trends over time. This learning function, which notes which settings were adjusted and how, can reduce setup time significantly by applying the learned settings to Intelligent Setup automatically.

Setup for negatives

ColorScope Pro 3 includes data on negative film produced by several major film manufacturers. The user simply selects the appropriate brand when scanning a negative; ColorScope Pro 3 automatically applies a proper tone curve for conversion of that negative to a positive image. It also calculates suitable highlight and shadow points, as well as adjusting saturation automatically.

Soft previewing

ColorScope Pro 3 supports soft-proofs on the monitor, so the operator can both preview scan results during setup and view a simulation of the printed output after scanning is complete. An automatic trimming function decreases setup time by trimming out non-image areas during prescan, before previewing is done. The Cézanne also comes bundled with Fit 1.0 software, which

allows the user to create ICC profiles for RGB (monitors) in conjunction with ColorSync 2.0.

Background scanning

With ColorScope Pro 3, you can set up originals while scanning other originals. ColorScope Pro 3 features a client/server architecture that allows it to control scanning and receive scan data in the background while the operator sets up other originals in the foreground, using a single computer. ColorScope Pro 3 can also be configured to run on two separate computers for greater efficiency.

Optional original holders and extra trays

The Cézanne can be used with optional original holders that make mounting originals a snap. It can even be fitted with additional trays for greater productivity. With a spare tray, the operator can mount originals onto one tray while the originals on another tray are being scanned.

Light table functionality

The Cézanne's scanning bed can be used as a light table, even when scanning isn't being done. Simply switch the power on and use the scanning bed to view transparencies or negative films. This feature makes original mounting easier as well.

Paul Cézanne: the Father of Modern Art

Paul Cézanne was born in Aix-en-Provence, France in 1839. Despite his family's wish that he become a banker, Cézanne was determined to spend his life as a painter. His style of painting changed several times during his artistic career, and for a relatively long period he was considered a member of the Impressionist school. Cézanne soon outstripped his fellow Impressionists, however, and created a style of painting that was very much his own.

Unsatisfied with his own painting to the last, Cézanne spent his life striving to reproduce the world he saw by interpreting space and mass through the skillful use of color. Although Cézanne received little critical acclaim during his lifetime, his fellow painters recognized his genius. The inspiration for Cubism as well as countless other elements we enjoy in art to this day can be traced back to the great Paul Cézanne.

Artificial intelligence that's truly intelligent

The Cézanne scanner's ColorScope Pro 3 image processing software features a truly intelligent setup function known, appropriately enough, as Intelligent Setup. Unlike standard AI setup functions, Intelligent Setup incorporates great flexibility and intuitive operation. With Intelligent Setup, it's easy to get the effect you want in a scan without complicated combinations of settings.

Changing the appearance of an image involves nothing more than adjusting the appropriate setup bar. There is no need to alter tone curves or make individual settings for each separation. Intelligent Setup makes getting the desired effect easy and fast.

Skin tone

At the standard setting, the model's skin appears as it was in the photograph, neither remarkably rosy nor noticeably pale.

Simply by pulling the marker to the right, the operator can increase the rosiness of the woman's skin, creating a more vibrant and attractive image.

Blue and green

The blue and green of the sky and grass in this image have been made brighter.

This image features the standard setting, with colors that are neither bright nor deep.

In this image, the colors were intentionally made deeper and more subdued.

Space Requirements

Dimensions

	A	B	C
mm	1412	321	676
inch	55.6	12.7	26.7
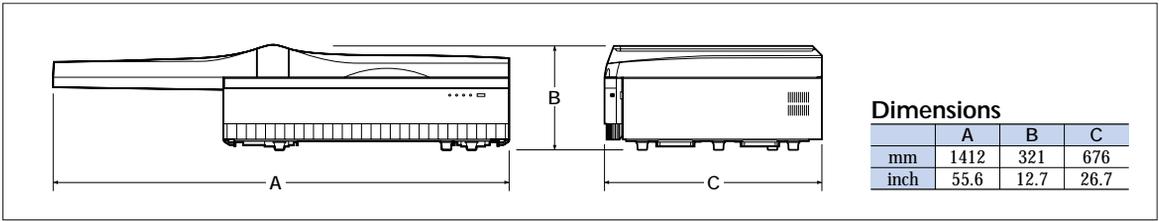
Specifications

Model	FT-S5000
Light sensor	3-line CCD array, 8,000 elements/line
Original types	Reflection originals: Color, B&W line art, grayscale
	Transparencies: Color positive, color negative, B&W line art, grayscale
Effective original size	Continuous tone: 340 x 530 mm (13.4" x 20.9")
	Line art: 330 x 530 mm (13.0" x 20.9")
Original thickness	Up to 25 mm (1") including original retaining plate
Optical resolution	Continuous tone: 589 - 5,300 dpi
	Line art: 600 x 1,200, 1,200 x 1,200, 2,000 x 2,000 dpi
Output resolution	Continuous tone: 20 - 12,000 dpi
	Line art: 1,200 or 2,000 dpi
Max. Density	3.9D
Productivity	54 scans/hour (35 mm at 350 dpi and 400% magnification)
	47 scans/hour (6 x 7 cm at 300 dpi and 250% magnification)
Scanning speed	Continuous tone: 20 msec/line
	Line art: 7 msec/line
Color depth	32-bit CMYK, 48-bit RGB, 8-bit grayscale
File formats	TIFF, EPS, DCS, SCITEX CT, JPEG (for RGB, gray), YCC (for Kodak photo CDs)
Interface	SCSI II
Host computer	Power Macintosh MT/266 with at least 160 MB RAM and 3 GB hard disk
	(For more details, contact any of the Screen representatives listed below.)
Recommended power cord	PI-H05VV-F-C6061 (250V, 6A, 3 x 0.75 mm²)
Power requirements	Single phase 100-230V, 0.2kW 2A(100V)/1A(200V)
Weight	73 kg (160.6 lbs.)
Environment	Temperature: 23 ± 5° C (73.4 ± 9° F) [no sudden temperature changes]
	Relative humidity: 50 to 70% (no condensation)

Be sure to use a table that can adequately support the scanner's weight (73 kg/160.6 lbs) and is larger than the scanner's base.
Use this scanner on a flat surface subject to little vibration (1 Gal or less [approx. DC 20 Hz]) in an area subject to 5 Gal or less (20 Hz or more) vibration.
To assure adequate ventilation, leave at least 30 cm (11.8") of space on all sides of the scanner.
Use this scanner in an environment where the air is relatively free of dust, steam, and gases.

Standard accessories

Tray

Masking sheet

Original retaining plate

SCSI terminator

Power cable (100 V type)

Choice of Macintosh driver set or Windows driver set

ColorScope Pro 3

Options

Glass tray set

Compound tray set (includes compound tray, four types of original holders, two resin holders, and two mask sheets for the resin holders)

Pin bar set

Oil holder

Dot Finder

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