

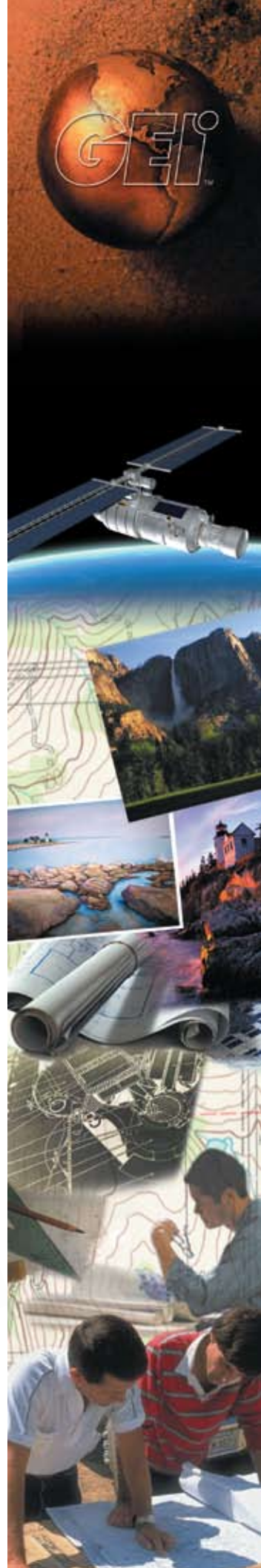
WIDE FORMAT SCANNER



Colortrac

Our Business is Your Image

Colortrac SmartLF Cx 40



Colortrac SmartLF color scanner

Cx 40

- **JOB-SITE RUGGED**
- **NEEDLE-SHARP 600 DPI IMAGE CAPTURE**
- **40 INCH IMAGE WIDTH**
- **NO WARM UP**

SmartLF Cx 40 offers high-quality, fast color scanning at surprisingly low cost. It handles the full spectrum of “technical document” applications including mapping, utility company records, architectural, engineering and construction drawings, newsprint and court documents. All of these applications, at one time outsourced to dedicated scanning operations, are now affordable by even the smallest start-up.

Low cost doesn't mean sacrificing performance. The SmartLF Cx 40 is built for day in, day out use in industrial situations. It doesn't need to be realigned every time you move it from site to site, and it's ready to go from the moment you switch it on. It stands toe-to-toe with scanners costing 50% more, and its software is the best you can find, anywhere.

SmartLF Cx 40 brings you color scanning for the price of others' black and white.

- 1 “AWD” document transport**
uses rotating hold-down rollers instead of a stationary bar

- 2 600 dpi resolution**
Five 600 dpi contact image sensors (see below)

- 3 Document rewind**
Active at any time during and after a scan

- 4 Individual glass covers**
protect the image sensors.
Chemically toughened for scratch resistance, user removable for cleaning or replacement

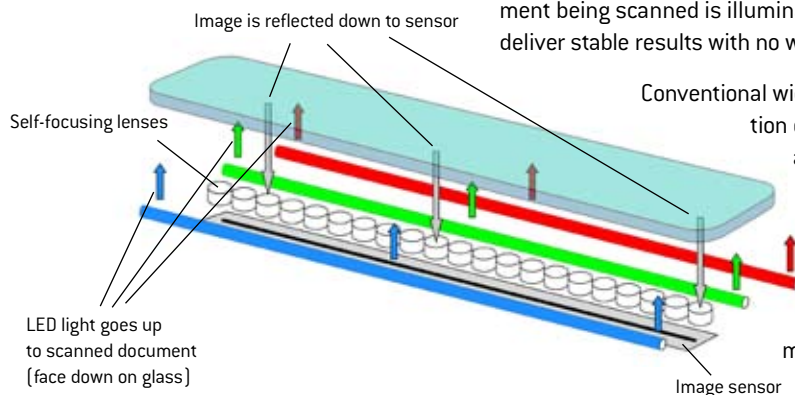
- 5 Auto on-line optimization**
of color quality, shadow and highlight detail

- 6 New operator controls**



Cx 40 features solid state CIS technology

SmartLF Cx 40 is all solid-state, with five 600 dpi contact imaging sensors (CIS) mounted on a rigid transverse beam. The document being scanned is illuminated by built-in color LEDs that deliver stable results with no warm-up delay.



Conventional wide format scanners use a combination of fluorescent light tubes, lenses, and miniature image capture devices with built-in color filters. Like all non solid-state devices they have issues with warm-up time (up to 30 minutes to stabilize) and transportability (realignment may be necessary).



A SCANNER ISN'T JUST HARDWARE


Much of a scanner's "look and feel" comes from its supporting software. Software from Colortrac is truly state-of-the-art. Refined through more than 10 years of hands-on experience, it is easy to use, elegant, and stable.

SmartLF software included with the scanner

The basic software shipped with the SmartLF Cx 40 scanner is surprisingly capable. SmartLF lets you choose color, grayscale or black/white scan modes, preview the result,

select a portion of interest, save it to disk, or send it to your Windows printer.

SmartLF software is all the first-time user needs to explore the scanner's potential. In fact, it may be all the software you ever need. If your application calls for more than occasional scans, consider ScanWorks and CopySmart, two programs that offer greater flexibility and dedicated productivity tools.



Scan mode buttons Select a preset paper size, or let the scanner size the image automatically

Color scan Choice of palettes: Full (16.8M colors) or Limited (256 colors)

Grayscale scan Reduces the scanned image to 256 gray tones between white and black

Bi-level scan Adaptive thresholding delivers a clean black/white image even from low-contrast originals

Cropping marquee Selects a portion of the image to be saved or printed

Preview tools Crop, Save, Zoom, Discard

Scan to file Choose a file format (Tiff, Png or Pdf), decide where you'll save it, then press the **File** button.

Make copies Press the **i** button to select a printer, enter the desired number of copies, then press the **Copy** button.

Email the image Choose a file format (Tiff, Png or Pdf), then press the **Email** button to launch your email program.

ScanWorks software additional charge option

ScanWorks is the productivity tool for high-volume scanning applications. Other software typically uses a three-step process for scan optimization - you pre-scan to make necessary adjustments, then you rewind and re-scan for the end product. With ScanWorks this is a ONE-STEP process. The entire image is saved to disk and is available for any degree of post-processing, with no need for re-scanning [good news for delicate originals].

By eliminating the need for re-scanning, ScanWorks boosts productivity by as much as 40%.

Without rescanning you can, for instance, reduce the color depth of the image on disk, while viewing the effect on the monitor; then change it to grayscale, or reduce it to black and white. You can apply **any of ScanWorks' many filters and controls**, then overwrite the file on disk with the finished product. ScanWorks catalogs your favorite setups, allowing you to batch-process any number of image files in the same way without operator intervention.

ScanWorks saves images in any of 14 file formats, compressed and uncompressed, including WMF, PNG, PDF, CALS, JPEG and TIFF.



Loupe tool Zooms an area of interest for closer inspection. Can be moved freely around the entire image, with selectable magnification.

CopySmart software *additional charge option*

CopySmart is productivity software that automates the entire process of scanning, previewing and printing.

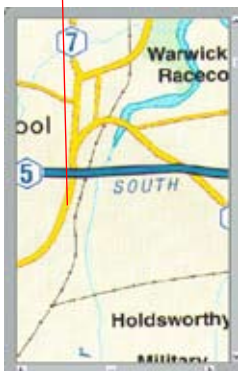
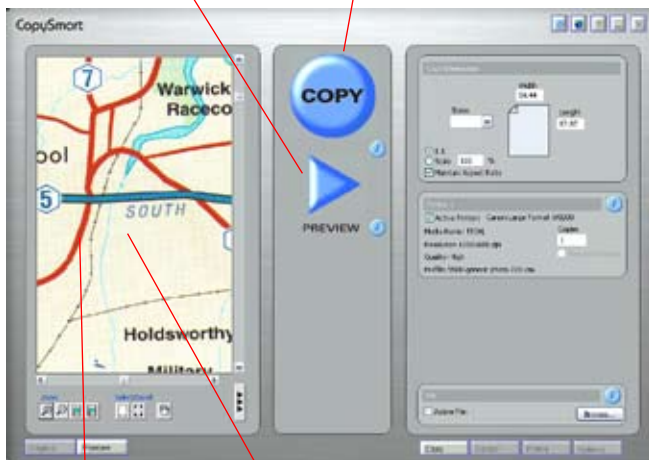
Other scanner manufacturers provide profiles that report, according to internationally agreed standards, the way their products translate colors into digital values. Printer manufacturers do the same, taking into account a wide range of variability possible with the many ink and paper types.

Colortrac goes one step further. CopySmart lets you work in two distinctly different ways: 1. Use published scanner and printer ICM profiles, or; 2. Use CopySmart's closed-loop system to characterize the entire system from scanner to printer for the **exact combination** of ink type and paper you plan to use.

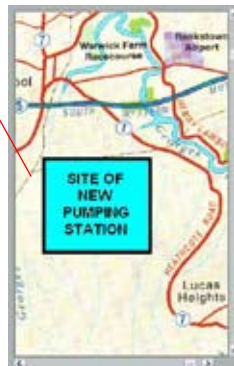
With its closed-loop system ensuring a high degree of original-to-copy fidelity, CopySmart is outstandingly efficient in real-life copy shop applications. Built-in presets automatically optimize the scan for specific image types such as maps, line drawings and text, eliminating the need for user experimenting.

Press PREVIEW to scan the original and display the image

COPY automatically scans and prints the document using your choice of presets such as color depth, resolution, image sharpening



Apply a rectangular mask, with or without border, solid or translucent. Add text annotations, part numbers, date and time, etc.



Select any color with the eye dropper tool, then choose a "change to" color. Here, all reds like the original road color have been changed to yellow.

HARDWARE OPTIONS



Computer and LCD monitor mounting kit

Attaches to the Cx 40 Floor Stand. Accommodates a standard desktop computer, [max footprint 21" x 7 1/2", max height 17"], a flat screen monitor, keyboard and mouse. Shown here with the Paper Catch Basket option.



Document Return Guides (set of 2)

Prevent your original document from dropping behind the stand. Reroutes the document to the front of the scanner so you never need to move.

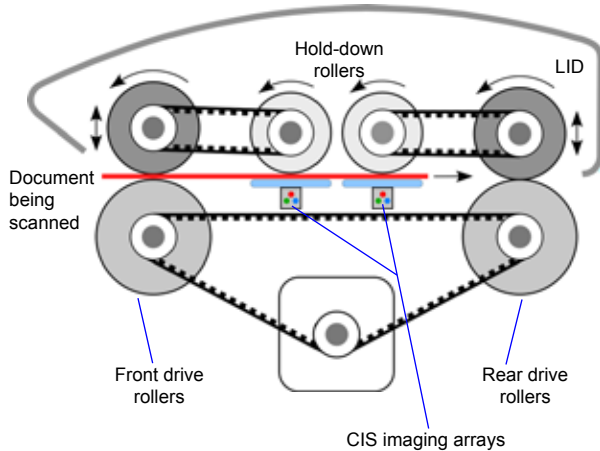


Universal Repro Stand

In addition to a workstation, monitor and keyboard, the Universal Repro Stand accommodates wide format ink jet printers up to 49" in height

SMARTLY Cx 40 IS BUILT TOUGH...

BUT IT'S KIND TO DOCUMENTS



Wide format scanners typically use a spring-loaded or weighted bar to hold the document firmly against the glass. If the loading is too light, crumpled documents scan poorly; if too heavy, delicate originals - think tissues - may not scan at all, because they are stopped by the hold-down bar.

That's a trade-off that doesn't apply to the Cx 40. Instead of a hold-down strip, the Cx 40 uses a pair of driven rollers to ensure consistent throughput of any type of document, from the thinnest paper to the heaviest Mylar.

THREE VERSIONS OF THE Cx 40 SCANNER...

ALL VERSIONS HAVE 40 INCH MAXIMUM IMAGE WIDTH AND CHOICE OF IMAGE RESOLUTIONS UP TO 3600 DPI (MAXIMUM MEDIA WIDTH IS 44 INCHES, LENGTH UNLIMITED).

- **Model Cx 40M** No color capability, but captures the full range of gray tones from black to white at 10.1 ips (inches per second) scanning speed. Scans non-color engineering drawings, photos, renderings and text (newsprint, etc.).
- **Model Cx 40C** Full color capable. Scan speeds up to 0.84 ips color, 10.1 ips gray and black-on-white. Color range is 24-bit RGB*.
- **Model Cx 40E** Full color capable. Scan speeds up to 3.36 ips color, 10.1 ips gray and black-on-white. Color range is 24-bit RGB*.

* RGB refers to the primary colors Red, Green, Blue, combinations of which deliver 16.7 million colors.



Practically all scanners claim resolutions as high as several thousands of dots per inch (dpi). But the fact is, any resolution higher than the scanner's optical (native) resolution relies on interpolation, a process by which the scanner measures adjacent picture elements, then inserts between them "virtual" elements based solely on computation. In other words, the scanner fabricates data that it doesn't actually see.

That is not to say there is no use for interpolation, which often plays an essential role in image smoothing and scaling-to-fit. However, for fine detail capture there is no substitute for optical resolution, the higher the better.

With its 600 dpi contact image sensors, the Cx 40 offers unbeatable performance in all technical scanning applications, from the most detailed of maps to the finest of fine print in legal documents.

SPECIFICATIONS

Maximum image width	40 in (1016 mm)			
Image length	Not limited by scanner			
Maximum document width	44 in (1118 mm)			
Maximum document thickness	0.08 in (2 mm)			
			Scanner version	
			Cx 40M	Cx 40C
				Cx 40E
Scan speeds, inches per second¹	24-bit RGB color, documents < 24 in wide	N/A	0.75 ips	3 ips
	8-bit grayscale & monochrome, any width	9 ips	9 ips	9 ips
Scan accuracy²	+/-0.1% +/-1 pixel			
Optical resolution	600 dots per inch (dpi)			
Maximum resolution	3600 dots per inch (dpi)			
Resolution range	Variable from 100 to 3600dpi in 1 dpi steps			
Scan modes	16.7 million-color (24-bit) RGB (versions Cx 40C and Cx 40E only)			
	256-color (8-bit) and 16-color (4-bit) RGB, adaptive indexed color palette (versions Cx 40C and Cx 40E only)			
	256-level (8-bit) grayscale (all Cx 40 versions)			
	Single bit black-and-white (all Cx 40 versions)			
Color space	Normalized & linearized raw RGB data (versions Cx 40C and Cx 40E only)			
Digital image processing*	2D Intelligent adaptive thresholding			
	Fixed Threshold Black & White (1-bit mode)			
	Dynamic Normalization with 16-bit super-sampled data			
	Precise factory-set color calibration with automatic monitoring and automatic color temperature adjustment			
Color image processing	Gamma, brightness, black & white point adjustments			
Interface	USB2, Windows Image Acquisition (WIA), Still Image Interface (STI)			
Included items	USB2 cable (6.5 ft, 2 m), local power cable, rear media supports			
Dimensions	54.8 in wide x 6.7 in high x 13.0 in deep (1400 x 170 x 330 mm). Weight: net 60 lb (26.5 kg), shipping 78 lb (35.5 kg)			
Power requirement	90 to 250 VAC autosensing, 47 to 63 Hz, 27 VA (scanning), 16 VA (standby)			
Computer recommendation	Pentium 4 2.8 GHz processor with hyper-threading, 512 MB RAM, USB2, Windows XP or 2000			
Agency compliance	CB, CE, UL, RoHS, FCC Class A			

* Colortrac software options provide a comprehensive range of 'post scan' image processing filters and tools

¹ Scan speed is proportional across the full range of resolutions supported by the scanner. Quoted speeds are for scans at 200 dpi. This is equivalent to other manufacturers' "turbo 400 dpi", which is a 200 dpi scan in the document feed direction converted to 400 dpi by interpolation.

² Quoted scan accuracy is valid for media up to 0.03 inches (0.8 mm) thick in typical office conditions. Results may vary depending on local conditions, and on media type and thickness. Cx 40 scanners are tested using a Mylar target at 20°C ± 3°C, 60% ± 10% RH.



Worldwide Headquarters
Graphic Enterprises, Inc.
 3874 Highland Park NW
 North Canton, OH 44720



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Contact us...

For more information about the solutions and services we provide visit us on the web at www.geiwideformat.com or call us
 (800) 842-8448 Corporate
 (888) 722-6434 Colortrac Hotline