

# Colortrac SmartLF

Outstanding performance at an affordable price!  
~ from Colortrac, the most experienced designer of the  
world's most innovative large format scanners

Clever

Ingenious

Resourceful

Stylish

Effective

Quick



COLOUR SCANNING FOR THE PRICE OF B&W - OR LESS!

Exceptional value B&W model is field upgradable to colour

Fast achieved speeds, up to 10.1"/s for B&W and 3.36"/s in colour

Design optimised for accuracy & extra sharp fine image detail

2400 dpi maximum resolution, select any dpi from 100 to 2400

Original documents up to 44" wide with 40" image width

Instant scanning with push button scan to file, copy or e-mail

Perfect for office or mobile scanning projects

Becomes a digital plan copier when scanner PC is connected to a printer

No stitching, no calibration, no warm-up and no waiting!

# Large format digital image scanning solutions for technical documents such as maps, AEC / CAD drawings and lineart.

Colortrac SmartLF is an innovative scanner design that provides fast effective large format image capture for both professional and office users. Archiving, copying or distribution of maps, AEC & CAD drawings, lineart or text is simple, quick and easy with the included software. Optional scanner and software modules can be selected to create a solution optimised for the specific documents, workflow and operational needs of the advanced user.

## The scanner product range at a glance...

Scanner Model	Image Width 40"	Resolution		Scan Speeds	
		400dpi optical	100~2400dpi	Monochrome	Colour
4080e	✓	✓	✓	10.1 inches/Sec	3.36 inches/Sec
4080c	✓	✓	✓	10.1 inches/Sec	0.84 inches/Sec
4080m	✓	✓	✓	10.1 inches/Sec	n/a

### Unique on-site upgrade from monochrome to colour and colour to enhanced colour

A flexible system for your changing requirements with the capability and features you want - when you need them! SmartLF is the ONLY large format monochrome scanner available that can be upgraded to full colour specification. If you require monochrome and are unsure of your need for colour, buy the scanner that fits the current requirement and budget with the reassurance that you can upgrade if / when the need arises.

### Fast achieved scan speeds

Maximum achievable scan speeds at 200 dpi resolution are 10.1"/s (25.6 cm/s) for monochrome and 3.36"/s (8.53 cm/s) for colour. This makes SmartLF easily the best price performance range of large format scanners available.

### 400 dpi deep focus Contact Image Sensors for fine image detail, sharpness & accuracy

Close-spaced, 400 dpi 'deep focus' contact image sensors (CIS) combine with years of Colortrac scanner design experience to achieve sharp, finely resolved monochrome & colour images up to 2400 dpi maximum resolution. The scanner's side justified, straight through media path, transports originals through the scanner at 0.1% +/- 1 pixel accuracy.

### Flexible document format up to 44" wide by unlimited length & 40" image width

The 40" image width is ideal for most documents in the AEC, CAD, GIS, archive and reproduction markets.

### Instant scanning from power-on, no stitch, no calibration, no warm-up and no wait!

The CIS integral LED light source is ready to go within 6 seconds from power-on with no warm-up or stabilisation time required. In comparison, fluorescent light tubes used by CCD scanners can take up to 2 hours to stabilise and the scanner may need re-alignment and re-calibration before use. SmartLF scans excellent quality images right after power-on and when not in use the scanner can be switched off to conserve energy and is conveniently ready to go - at the flick of a switch.

### Innovative, curved document feed tray with improved auto size detection & media handling

Documents are fed into the scanner from the front, side justified over a gently curved feed tray and detected by reliable, solid state optical sensors, for optimum support and positioning of the original. Auto size detection is rapid using improved techniques that work in-line as the image is scanned. Documents are transported by precision power rollers and high grip contour rollers with the minimum force necessary to preserve delicate originals. An adjustable pressure plate maintains the best possible contact between the media and the scan glass to ensure images are pin-sharp, colourful and shadow free. The standard hold down setting is pre-compressed for normal originals with gradually lower pressure settings available for badly dog-eared or flimsy documents such as newsprint. The scan glass is chemically treated for high impact & scratch resistance - more than 5 times that of normal optical glass. Access to the glass for cleaning is quick and easy via the opening grip-roller cover.

### Compact, space saving design with low power consumption

SmartLF is a stylish, lightweight & portable desktop scanner that will fit easily in any work place environment. If preferred, an optional floor stand is available that minimises the installed footprint of the scanner and positions the media feed tray at the best height for most users. The SmartLF is friendly to our environment using just 24 VA during operation (approximately 10% of the power used by CCD scanners) and even less, 15 VA, when on standby.

Customer installable scanner with plug & play USB 2 and low maintenance operation

High speed 480 Mb/s/sec USB 2 plug 'n' play connection, factory set colour calibration and fully automatic sensor alignment simplifies scanner installation, operation and maintenance. No specialist knowledge or skills are required to install or use the scanner other than basic experience with PCs and Windows software applications.



Archiving, Copying or e-Distribution is simple, quick and easy with SmartLF ready-to-run software or optional advanced software applications

SmartLF scanners are supplied, ready-to-run, with SmartLF software that provides all the basic scan, copy and e-mail functions in a single application. For users with more demanding requirements a range of optional software applications are available.

### The software product range at a glance...

Scanner Model	SmartLF Software	ScanWorks (Scan to File)	CopySmart (Scan to Print)	ISIS (Scan to Archive)
4080e	✓	Optional	Optional	Optional
4080c	✓	Optional	Optional	Optional
4080m	✓	Optional	Optional	n/a

SmartLF 'ready-to-run' software. Simple, easy to use one touch scan to file, scan to copy, scan to e-mail from the PC or work directly from the scanner's control panel

Each SmartLF scanner comes complete with simple, easy to use software designed for operation by non-specialist, but computer literate users. Simply select file, copy or email, the type of original to be scanned and a few other intuitive settings, place the original in the scanner and off you go! As the document is scanned the image is displayed on screen to provide reassurance that what you are getting, is what you want. The operator can switch between scan modes using its control panel without using the PC keyboard or mouse. Once selected, optical sensors in the scanner detect new documents and keep the SmartLF scanning, copying or e-mailing until the job is done.



Colortrac Software options for advanced users

For applications where more powerful software tools are required, for example by professional imaging specialists, optional Colortrac and 3rd party software is available to enhance the capability and performance of the SmartLF scanning system.

Archiving applications ~ Professional scan to file



ScanWorks ~ this software allows complete control of the scanning process with additional image enhancement filters, image manipulation functions, high productivity volume batch scanning modes and other features that expand the performance and quality of the digital image capture process.

ISIS ~ (Image & Scanner Interface Specification) is a technology for connecting high-speed document scanners to electronic document management (EDM) systems. Colortrac ISIS drivers are tested and certified to be ISIS compliant accessing the scanner directly to provide the flexibility of choice benefits of non-proprietary solutions.

Reproduction applications ~ Professional scan to copy, print from file



CopySmart ~ connect the scanner and its PC to a large format printer and you have a digital copy system. This software creates a multi-function scan / copy / print system maximising your investment and the utilisation of the equipment. Designed with simplicity as a primary objective, CopySmart has a graphical user interface adopting a 'big button' philosophy. Consistent colour quality and accurate reproduction of fine image detail is provided by IT8 closed loop calibration that matches the scanner colours to the printer, ink & media. CopySmart uses Colortrac developed printer drivers optimised to produce fast, multi-copy high quality prints direct from the scanner or from saved image files.

Approved 3rd party software products ~ Various applications

Colortrac Ltd Approved Software Product (CLASP) ~ is a Colortrac initiated programme to evaluate and test software products from leading independent software vendors (ISVs) to ensure compatibility, functionality and performance with Colortrac scanners. For more information about CLASP and approved ISV products visit our web site [http://www.colortrac.com/clasp\\_main.htm](http://www.colortrac.com/clasp_main.htm).

**Whatever the application, Colortrac SmartLF is an easy to use, customer installable scanner that provides high performance, great images and exceptional value for money ~ straight out of the box.**

**Simply the BEST VALUE large format scanner available!**



# Colortrac SmartLF Scanners - Technical Specifications

	4080m Monochrome	4080c Colour	4080e Enhanced Colour	
Scan Speeds <sup>1</sup> in/s (cm/s) ~ full colour ~ greyscale & monochrome	@200 dpi n/a 10.10 (25.6) @400 dpi n/a 5.04 (12.8)	@200 dpi 0.84 (2.13) 10.10 (25.6) @400 dpi 0.42 (1.07) 5.04 (12.8)	@200 dpi 3.36 (8.53) 10.10 (25.6) @400 dpi 1.68 (4.26) 5.04 (12.8)	
Scan Modes	n/a 256 Level Greyscale (8bit) Black & White (1-bit)	16.7 Million Colour RGB (24-bit) 256 Level Greyscale (8-bit) Black & White (1-bit)		
Colour Space	n/a	Normalised / Linearised Raw RGB		
Colour Image Processing	n/a	Gamma, Brightness, Black & White Point adjustment		
Resolution	2400 dpi maximum / 400 dpi optical / variable in 1dpi steps 100 ~ 2400 dpi			
Scan Accuracy <sup>2</sup>	+/- 0.1% +/- 1 pixel			
Maximum Image Width	40 in (101.6 cm)	Image Length	not limited by scanner	
Maximum Media Width	44 in (111.8 cm)	Media Thickness	0.08 in (0.2 cm)	
Media Feed System	Reliable, front loading & straight through media path for user friendly jam-free operation Chemically treated, scratch resistant scan glass with easy-clean access via hinged grip-roller cover Side justified, one-way document transport with adjustable pressure plate (paper hold down) continuously variable over a range 0.08 in (0.2 cm) with 0.06 in (0.15 cm) pre-compression Precision power rollers with 20 offset, dual independently suspended high grip contour rollers transport documents gently & accurately through the scanner			
Digital Imaging Technology	Accurate, zero maintenance optical media sensors & automatic media size detection Contact Image Sensor (CIS) technology - requires no stitching or maintenance adjustment 5 x close-spaced 'deep focus' CIS (17,000 pixels) Integral LED illumination for instant scanning from power-on & practically unlimited life span 36-bit digital colour image capture Panchromatic Black & White Factory set, permanent Smart colour calibration			
Digital Image Processing	2D Intelligent Adaptive Thresholding (IAT) (1-bit mode) Fixed Threshold Black & White (1-bit mode)			
User Status & Control	LCD screen displaying scanner status, mode & settings One touch push button operation for scan to file, scan to copy, scan to e-mail			
User Maintenance	Customer installable plug 'n' play scanner Simple cleaning			
Software (Included)	Colortrac SmartLF ready-to-run software for scan_to_file, scan to copy, scan to e-mail Windows Image Acquisition (WIA) / TIFF, JPEG, PDF file formats supported			
Software Options	ScanWorks, CopySmart, Predator, ISIS			
Scanner Interface kit (included)	480 Mbits/sec USB 2 (on scanner) / 2m USB 2 cable / local power cable / rear media supports			
Scanner Options	On-site upgrade from mono to colour and colour to enhanced colour			
Scanner Accessory Options	Floor stand (scanner may be used on a desktop or table without the stand)			
Equipment	Height	Width	Depth	Weight
~ dimensions (scanner)	6.69 in (17 cm)	54.72 in (139 cm)	13.00 in (33 cm)	60 Lbs (26.5 Kgs)
~ dimensions (scanner and stand)	37.40 in (95 cm)	54.72 in (139 cm)	21.65 in (55 cm)	81 Lbs (35.8 Kgs)
~ packed Scanner	13.00 in (33 cm)	60.63 in (154 cm)	19.69 in (50 cm)	78 Lbs (35.0 Kgs)
~ packed Stand	3.54 in (9 cm)	60.63 in (154 cm)	19.69 in (50 cm)	27 Lbs (12.0 Kgs)
~ operating environment	15 ~ 30°C, 15 ~ 85 % RH, non-condensing			
~ power requirements	90 ~ 250 VAC autosensing, 47 ~ 63 Hz, 24 VA (scanning) 15VA (standby)			
Compliances	CB, CE, FCC, UL			
Recommended PC System <sup>3</sup>	P4 2.8 GHz Processor with hyper threading / 512 MB RAM / USB 2 / Windows™ XP & 2000			



Scans image side down



<sup>1</sup>The scan rate is proportional across the full range of resolutions supported by the scanner. Actual scan times will depend on the host system performance. Speeds quoted are for documents less than 24 in width (60.96 cm); wider documents scan half this speed. <sup>2</sup>The quoted scan accuracy is valid for media upto 0.8mm thick and may vary depending on the operating environment and the type & thickness of media. SmartLF scanners are tested using a Mylar target at 20°C +/- 3°C, 60% +/- 10% RH with the media feed set to standard. <sup>3</sup>Some advanced features may not be available in Windows 2000. Contact your supplier for advice on the optimum system configuration for your application. Colortrac Ltd reserves the right to change or amend specifications without notice. Colortrac and SmartLF are trademarks of Colortrac Ltd. All other trademarks are the property of their respective owners. Copyright © 2005 Colortrac Ltd.

SmartLF scanners are made in the United Kingdom.