



Maps



CAD &amp; Technical Drawings



Photographs



Graphic Art

# Colortrac SmartLF Gx+ 28/Gx+ T28



Professional SmartLF Scanning Solutions for:  
 REPROGRAPHICS  
 COPY SHOPS  
 GRAPHICS DESIGNERS  
 MAPPING & GIS PROFESSIONALS  
 AEC CAD DRAWING OFFICES



- ▶ Unique 2D LED<sup>1</sup> illumination system – instant-on, long-life, no fluorescent tubes
- ▶ High definition (HD) 1200dpi optical CCD<sup>2</sup> resolution – the highest available
- ▶ ENERGY STAR<sup>®</sup> qualified – uses 30% less power and 94% less when idle – cuts costs
- ▶ High productivity – scan A1/D-size documents FAST at 12ips @ 200dpi mono and 4ips color
- ▶ Optional ScanWorks<sup>3</sup> software offers outstanding "scan once interactive 2D image restoration"
- ▶ 28" image width with 34.13" media width - ideal for scanning up to A1/D-size documents
- ▶ Combines faithful 48-bit color graphics capture with crisp, sharp line definition for maximum capability
- ▶ Motorized thick media option for board mounted originals up to 0.8"/20mm in Gx+ T28
- ▶ Network-ready – Gigabit Ethernet connectivity using unlimited LAN cable length
- ▶ Easy configuration with Plug and Play high speed USB 2.0 connection
- ▶ SmartLF All-in-One Scan and Copy software included
- ▶ Affordable, professional value for money!

The SmartLF Gx+ range is the first true 1200dpi optical resolution CCD scanner. It combines the benefits of new, instant-on LED lighting - lower energy requirements, a longer life and reduced environmental impact - with the superior color imaging attributes of CCD technology. In one uniquely versatile system, you get both the AEC, CAD and GIS users' need for sharply defined line detail in technical documents and maps combined with the highly accurate color reproduction and copying demanded by graphics professionals.

Colortrac's 6th generation SmartLF Gx+ 28 range now defines a new industry benchmark. Its combination of instant-on, long-life 2D LED illumination, full 1200dpi optical CCD resolution, power-saving ENERGY STAR compliance and fast scan speeds is unavailable in any other product. Importantly, the SmartLF is the only scanner with "scan once" software that works in real-time without a need to rescan, saving you time and money, making you more productive.... making the attractively-priced SmartLF Gx+ 28 range the best-of-breed in CCD-based scanning.



**Colortrac**  
Our Business is Your Image

**SmartLF Gx+ 28**

Professional SmartLF Scanning Solutions for REPROGRAPHICS | COPYSHOPS | GRAPHICS DESIGNERS | MAPPING &amp; GIS PROFESSIONALS | AEC CAD DRAWING OFFICES

**Because you need large format scanning solutions that work for you:**

- ▶ Gx+ 28 scans technical documents sharply and color graphics superbly
- ▶ Unrivalled image capture displays a full color gamut with shadows and highlights
- ▶ Has full compatibility with wide format printers through standard Windows drivers
- ▶ Optional ScanWorks<sup>3</sup> has "the best" interactive 2D image restoration for reclaiming image detail
- ▶ Optional CopySmart provides easy, high definition professional color scan and print productivity
- ▶ CopySmart's professional color management controls ensure top quality color copies every time



Specification	Gx+ 28m/Gx+T28m mono/grayscale	Gx+ 28c/Gx+T28c +Color	Gx+ 28e/Gx+T28e +Express Color
UPGRADEABLE Note: No upgrade available from Gx+ to Gx+T models	m → c m → e	c → e	N/A
OPTICAL RESOLUTION	1200 dpi	1200 dpi	1200 dpi
INTERPOLATED RESOLUTION	9600 dpi	9600 dpi	9600 dpi
MAX SCAN WIDTH	28" (71.12cm)	28" (71.12cm)	28" (71.12cm)
MAX MEDIA WIDTH	34" (86.7cm)	34" (86.7cm)	34" (86.7cm)
MAX MEDIA THICKNESS	0.08" (2mm)/0.8" (20mm)	0.08" (2mm)/0.8" (20mm)	0.08" (2mm)/0.8" (20mm)
ACCURACY	+/-0.1% +/-1 pixel	+/-0.1% +/-1 pixel	+/-0.1% +/-1 pixel
DATA CAPTURE (COLOR/GRAYSCALE)	16-bit	48-bit/16-bit	48-bit/16-bit
COLOR SPACE	N/A	RAW RGB/sRGB	RAW RGB/sRGB
SCAN SPEED 1-BIT MONO (in/sec) @200 dpi	12.00	12.00	12.00
SCAN SPEED 24-BIT COLOR (in/sec) @200 dpi	N/A	1.00	4.00
PAPER PATH	Face-down, front entry, rear exit		
INTERFACE	High Speed USB 2.0/Gigabit Ethernet - network ready		
POWER REQUIREMENTS	External power supply 100~250 VAC autosensing +/-10% Less than 72Wh (scanning) 4.5Wh (standby)		
WEIGHT & DIMENSIONS (WxHxD)	87lbs (39.5kg)	44.9 x 7 x 14.6" (114 x 18 x 37cm)	
HOST PLATFORM	Windows XP, Windows Vista – 32-bit and 64-bit architectures		
CERTIFICATIONS	CB, CE, FCC, UL, RoHS. ENERGY STAR <sup>®</sup> .		
INCLUDED SOFTWARE	SmartLF All-in-One scan and copy software –supports TIFF, JPEG, PNG & PDF; WIA/STI interface.		
OPTIONAL SOFTWARE	ScanWorks – industry leading scanning software; CopySmart professional scan-to-copy software.		

<sup>1</sup>Unlike fluorescent tubes, LEDs only come on when scanning. They have an estimated working-life of 50,000 hours or 6 years scanning 24/7. <sup>2</sup>CCD (Charge Coupled Device).

<sup>3</sup>Colortrac scanning software - "a joy... provides the best results" Cadalyst (April 2007). For an explanation of scanning terms, see [www.colortrac.com/glossary.htm](http://www.colortrac.com/glossary.htm)

[1 Media wider than 34in (86.3cm) may exhibit some degradation in the image.] [2 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. Quoted top speeds may be limited by the effective bandwidth of the USB2 or ethernet (if and are not guaranteed for all media types.)] [3 The achieved scan accuracy may vary depending on the operating environment and the type & thickness of media. Colortrac measures accuracy by scanning a paper original printed with a 68.58cm (27in) square target. The pixel co-ordinates of the corner points of the target image are measured and compared with the known dimensions of the original. SmartLF Gx+ scanners are tested at 20°C +/- 3°C, 60% +/- 10% RH non-condensing.] [4 The maximum resolution & size selectable for an image is limited by the file format specified, the available disk space & the computer operating system.] [5 16 colour RGB (4-bit) adaptive indexed palette images are a feature of the optional Colortrac ScanWorks software.] [6 Languages supported: Arabic, Chinese (Traditional), English, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish.] [7 Microsoft WIA / STI is specified for the USB interface only.] [Colortrac recommends Intel Pentium, Core Duo, Core 2 Duo, HT (Hyper-Threading) and AMD Athlon Dual Core processors, at least 1GB RAM, Gigabit ethernet, USB2 and Windows™ XP Home, Windows™ XP Professional or Windows™ Vista operating systems. SmartLF drivers support 32-bit and 64-bit processor architectures. Contact your supplier for advice on the optimum system configuration for your application.] [Colortrac SmartLF Gx+ scanners comply with ENERGY STAR, CB, CE, FCC, UL and RoHS standards and regulations.] Colortrac Ltd makes no warranty of any kind with respect to the information contained in this document and reserves the right to change specifications without notice. Colortrac and Smart LF® are trademarks of Colortrac Ltd. All other trademarks are the property of their respective owners. Copyright © 2009 Colortrac Ltd. Colortrac SmartLF wide format scanners are designed and manufactured by Colortrac Ltd

**COLORTRAC LIMITED**  
COLORTRAC HQ AND FACTORY  
3-5 Brunel Court  
Burrell Road  
St Ives, Cambs  
PE27 3LW, UK  
Tel: +44 1480 464618  
Fax: +44 1480 464620  
info@colortrac.com

**COLORTRAC INC**  
17301 West Colfax Avenue  
Suite 165  
Golden, Colorado 80401  
USA  
Tel: +1 303 973 6722  
Fax: +1 303 973 7092

**COLORTRAC LTD BEIJING**  
Room 4-B1B, Building No. 7, Section 3, Century City  
HaiDian District, Beijing 100089, P.R. China  
Tel: +86 1051 988928 Fax: +86 1051 988927

[www.colortrac.com](http://www.colortrac.com)



**Colortrac**  
Our Business is Your Image



Gx42

SmartLF Gx+ 28 with optional floor stand.



The new generation of **SmartLF Gx+ 28 / Gx+ T28** large format scanners are affordable 28" wide ENERGY STAR qualified CCD devices offering high quality optimized color imaging performance, 1200 dpi optical resolution, Ethernet connectivity and instant-on LED long-life illumination.

**Ideal for full color graphics, photographs, maps, AEC, CAD and GIS technical documents.**

**What are the benefits of Colortrac CCD scanning technology?**

SmartLF CCD (contact charge device) technology captures a **wide color gamut** and a **high dynamic range**.

Color gamut determines how many different colors the scanner can capture accurately; dynamic range governs how much detail the scanner can see in dark areas before "blacking out". SmartLF Gx+ scanners capture 48-bit color and 16-bit monochrome data to allow you to scan and copy exceptionally colorful images with clear shadow details.

The higher the optical resolution of a scanner the smaller and finer are the details that it can capture from the original. The 1200 x 1200 dpi optical

resolution of your Gx+ scanner is the highest in its class. This will help you capture **the very finest image detail**.

SmartLF Gx+ scanners combine the traditional benefits of CCD imaging - the capture of a wide color gamut and a high dynamic range - with the chief benefit of CIS (contact image sensor) scanners - the capture of sharp, fine line details in technical drawings.

**The new SmartLF Gx+ scanner series provides the best and most cost-effective way to gain the benefits of both CCD and CIS imaging in one affordable device.**

**For capturing high quality color and fine line monochrome detail in one productive, fast scanner, get smart - SmartLF Gx+.**

**Software**

**SmartLF All-in-One (included, below)** Easy to use scanning and copying software designed for nonspecialists. It includes all essential functions such as scan to file (PDF, TIFF, JPG) and scan to copy (any Windows printer).



**ScanWorks (optional)**

Powerful scan to file software with a unique "scan-it-once" ability to ensure that top quality scanned images are produced in the least amount of time.

ScanWorks requires a minimum of scanner activity as **ALL** image adjustment can be made from just one scan of the document. This gives you the fastest workflow and productivity in technical document scanning today. Its interactive adaptive thresholding for flexible real-time image restoration and enhancement is "a joy.... provides the best results." (Cadalyt April 2007)

**CopySmart (optional)**

Simple to use but advanced professional scan to copy software with dedicated Colortrac printer driver support for market leading printers.

CopySmart gives high definition color scan and print productivity. Its color and paper management controls include quick and simple user ICC profiling, color adjustment, image cropping, paper economy and predictable copy sizing to ensure economic, professional quality color copies every time.

**ISIS driver (free on request)**

Industry standard scanner interface for enterprise EDC/EDM scan systems.

**CLASP software (optional)**

(Colortrac Approved Software Products). Third party software from leading independent software vendors.

**Universal Repro Stand**

A floor stand for use with popular large format printers. The scanner is held above the printer to minimize the combined footprint and create a practical scan-to-copy workstation.

**Scanner accessories**



**Floor stand**

Minimizes the installed footprint of the scanner and positions the document feed at a comfortable and convenient height for most users to work at.

**Paper catch basket**

For floor stand. Catches scanned documents as they are ejected from the rear of the scanner and retains them in a holder for easy collection later.

**PC / flat screen mounting**

For floor stand. Combines a SmartLF scanner with a PC, screen and keyboard to create a self-contained and practical scanning workstation.



The SmartLF Gx+ 28 & Gx+ T28 (thick media) scanner models are available in three performance levels with features optimized for different applications. If your requirements change, the m and c models can be upgraded on-site at your premises quickly and easily using our simple scanner upgrade process via email.

● standard ○ optional - not supported

Feature	SmartLF Gx+ 28 / Gx+ T28 wide format scanner model:	m	c	e
Maximum image width	28in (71.12cm) Image length: not limited by scanner	●	●	●
Maximum media width <sup>1</sup>	34.13in (86.7cm) Thickness: Gx+ 0.08in (2mm) / Gx+ T 0.8in (20mm)	● / ○	● / ○	● / ○
Scan speeds <sup>2</sup> in/sec	24-bit RGB color @ 200dpi 8-bit grayscale & monochrome @ 200dpi	- 12.00	1.00 12.00	4.00 12.00
Scan accuracy <sup>3</sup>	+/-0.1% +/-1 pixel	●	●	●
Optical resolution	Dots per inch (dpi) (User selection of 1200x1200 or 600x600 modes)	1200	1200	1200
Extended resolution <sup>4</sup>	Linear interpolation from 100 to 9600dpi in 1 dpi steps	9600	9600	9600
Scan modes	16.7 million color RGB (24-bit) 256 & 16 color RGB adaptive indexed color palette (8-bit & 4-bit) <sup>5</sup> 256 level grayscale (8-bit) Black & White (1-bit)	- - ● ●	● ● ● ●	● ● ● ●
Digital image processing (Colortrac software options provide a comprehensive range of post scan image processing filters and tools)	2D Intelligent Adaptive Thresholding (IAT) (1-bit mode) Fixed Threshold Black & White (1-bit mode) Dynamic Normalization Application (DNA) with 16-bit super sampled data	● ● ●	● ● ●	● ● ●
Color Space	Normalized / linearized RAW RGB or sRGB	-	●	●
Color image processing	Gamma, brightness, black & white point adjustment	-	●	●
Advanced 2+3 wheel-drive	Dual precision ground drive rollers	●	●	●
Active Paper Transport (APT)	Dual all-wheel-drive contour rollers with high grip rubber tyres Single media hold down roller optimized for superior L/R stitch Face down, front loading, rear exit media path with side or centre justification Automatic media size detection with reliable optical media sensors	● ● ● ●	● ● ● ●	● ● ● ●
Motorized Thick Media adjustment (MTM) (Gx+ T range)	Adapts the APT for media up to 20mm (0.8in) thick Automatic detection of optimum grip roller pressure Simple operation from scanner control panel at the touch of a button	○ ○ ○	○ ○ ○	○ ○ ○
All digital image sensor technology	4 x quadri-linear CCDs each with 10,800 pixels (RGB + monochrome) Rigid monocoque chassis provides accurate camera positioning & location 48-bit primary point color image capture 16-bit primary point grayscale image capture Panchromatic monochrome and black & white	● ● - ● ●	● ● ● ● ●	● ● ● ● ●
Light source	Dual 2D extra long-life LED light system for optimum object illumination and instant-on scanning capability	●	●	●
Optics	4 x micro lens with integral infra red filter	●	●	●
User status & one touch operation	LCD scanner control panel provides easy walk up operation and user selection of scanner mode with stop, forward, rewind, scan & copy buttons User selectable IP address, local language options and panel overlay <sup>6</sup> MTM control buttons (Gx+ T range)	● ● ○	● ● ○	● ● ○
Scanner maintenance and user replaceable parts	Customer installable, plug 'n' play scanner Precision media calibration with DNA 16-bit super sampled data Automatic digital stitch adjustment / Easy access for cleaning Chemically treated, scratch resistant scan glass with magnetic mounts	● ● ● ●	● ● ● ●	● ● ● ●
SmartLF All-in-One software (included)	Scan_to_file with real-time image viewer Scan_to_copy with real-time image viewer Scan_to_email with real-time image viewer Drivers, TIFF, JPEG, PNG, PDF file formats	● ● ● ●	● ● ● ●	● ● ● ●
Interface (included)	Gigabit Ethernet (2m) & USB2 (2m) data cables / local power cable Windows Image Acquisition (WIA) / Still Image Interface (STI) <sup>7</sup>	● ●	● ●	● ●
Dimensions & weight	44.9in wide x 7in high x 14.6in deep (114 x 18 x 37cm) 87Lbs (39.5kg)	●	●	●
Power requirements	External power supply 100~250 VAC autosensing +/-10%, 50~60Hz Scanner power consumption 72Wh (scanning) 4.5Wh (standby)	● ●	● ●	● ●
Environmental impact	ENERGY STAR and RoHS compliant	●	●	●
Operating conditions	10°C - 35°C, 35% - 80% RH non-condensing	●	●	●
Scan software	ScanWorks ~ professional scan_to_archive & post scan image processing	○	○	○
Copy software	CopySmart ~ professional scan_to_print with IT8 color matching	○	○	○
EDC software	ISIS™ driver ~ connect seamlessly to EDM systems & database	○	○	○
Scanner accessories	Floor Stand 30.7in high x 22in deep (78 x 56cm) 27Lbs (12.2kg) Paper catch basket (floor stand is required) PC & LCD monitor mounting kit (floor stand is required) Universal repro stand with PC & LCD monitor mounting kit 63.2in wide x 61in high (max incl. scanner) x 29in deep (161 x 155 x 74cm) 97Lbs (44kg), max permissible printer height 49in (125cm)	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○

[1 Media wider than 34in (86.3cm) may exhibit some degradation in the image.] [2 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. Quoted top speeds maybe limited by the effective bandwidth of the USB2 or ethernet if and are not guaranteed for all media types.] [3 The achieved scan accuracy may vary depending on the operating environment and the type & thickness of media. Colortrac measures accuracy by scanning a paper original printed with a 68.58cm (27in) square target. The pixel co-ordinates of the corner points of the target image are measured and compared with the known dimensions of the original. SmartLF Gx+ scanners are tested at 20°C +/- 3°C, 60% +/- 10% RH non-condensing.] [4 The maximum resolution & size selectable for an image is limited by the file format specified, the available disk space & the computer operating system.] [5 16 colour RGB (4-bit) adaptive indexed palette images are a feature of the optional Colortrac ScanWorks software.] [6 Languages supported: Arabic, Chinese (Traditional), English, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish.] [7 Microsoft WIA / STI is specified for the USB interface only.] [Colortrac recommends Intel Pentium, Core Duo, Core 2 Duo, HT (Hyper-Threading) and AMD Athlon Dual Core processors, at least 1GB RAM, Gigabit ethernet, USB2 and Windows™ XP Home, Windows™ XP Professional or Windows™ Vista operating systems. SmartLF drivers support 32-bit and 64-bit processor architectures. Contact your supplier for advice on the optimum system configuration for your application.] [Colortrac SmartLF Gx+ scanners comply with ENERGY STAR, CE, FCC, UL and RoHS standards and regulations.] Colortrac Ltd makes no warranty of any kind with respect to the information contained in this document and reserves the right to change specifications without notice. Colortrac and Smart LF® are trademarks of Colortrac Ltd. All other trademarks are the property of their respective owners. Copyright © 2009 Colortrac Ltd. Colortrac SmartLF wide format scanners are designed and manufactured by Colortrac Ltd.