



The Professional Buyers Guide to large format Multi-Functional Peripheral (MFP) Systems



Introduction

This guide is intended to provide the background on what a Multi-Functional Peripheral (MFP) can do for you in a large or wide format document oriented Enterprise environment and what impact these devices may have on the professional workflow. Whilst the original intention of an MFP device covers media of all types and sizes throughout the enterprise workflow, this Buyers Guide will concentrate on the larger or wider format documents comprising media up to 56 inches (1,423 mm) wide and of indeterminate lengths.

What does MFP mean?

The term MFP or Multi-Functional Peripheral has been in use for a long time and whilst MFP is widely quoted, the origins of this acronym may have been long forgotten. More recently the printer manufacturers started using the acronym MFP to describe the use of a Printer in an environment where it was attached to other devices – typically a scanner and / or a computer. This allowed the printer combination to provide image capture, storage and copying or print reproduction capability and where appropriately connected, communication through Fax, data network or e-mail.

Why is the MFP important?

Why have large format MFP solutions become more popular? The main reason is the rising popularity of the large format technically oriented documents in the field of Architecture, Engineering and Construction due primarily to the increased computing power & sophistication of CAD based applications, coupled with the lowering cost of wide format printing. If we follow through the wide format printed CAD document usages in the key AEC sectors, these documents are key working drawings that contain information on how something is constructed or laid out. Where the printed information is being used or interpreted as perhaps on a construction site, manual additions or layout corrections hand written on these documents need to be captured for either legal reasons or for maintaining an audit trail of alterations to the original plan. This can only be done if the amended document can be stored either manually or scanned and stored digitally and these days the cost of digital storage is far less than required for storing paper based evidence.

With some technology acquisition costs declining, the threshold for adopting an MFP based workflow becomes more persuasive as these component costs of MFP devices such as integrated scanner and printers can now be acquired at an attractive price. However, where capital investments such as in printing have already taken place, then the concept of the MFP is still valid but will be satisfied by creating solutions that can offer cost effective results using existing major components such as scanner or printer and adding the Workflow software.

If we consider the major drivers for incorporating an MFP into the document workflow, it becomes apparent that increasing costs exist where employees are involved in either processing or producing various types of documentation for either internal or external consumption. Add to that the increasing cost and contention for available floor space or work areas within many companies, this has caused management to consider alternatives in the way some of the key processes or products are executed. Changing the processes may not be possible due to legal restrictions in reducing manpower or company structure, but simplifying the workflow or the time taken to complete certain jobs do help to reduce waste, time and costs. With the MFP, all the critical hardware and software components for document production, archive and printing can be in one location and combine to create a simple and effective workflow providing easy operation and a smaller footprint.

Common components that comprise a professional MFP solution

The most common components of a professional MFP solution all reside as standalone items within most enterprises. By combining these individual components with appropriate workflow software and assigning a skilled person, the MFP can become a powerful tool that will help to efficiently increase productivity in document workflow.

The three main components are:

- Scanner
- Printer
- Workflow Application software

The Scanner

Where documentation does not already exist in digital form, then the primary reason for the scanner is to create a digital representation (image) of the document for further processing, printing, distribution or archival. Additionally, every piece of printed documentation that has been manually amended through drawing or written amendments need to be stored. In these cases, the scanner may be the only route back into your Enterprise document management system.

Where extensive archival of existing manually written documentation such as technical drawings in the form of Blueprints or CAD output require future printing, then it may be that some form of post scanning manipulation or correction of the image will help to create a cleaner copy of the original thus making future prints more legible. Using sophisticated scanning software that is rich in features but simple to use, such as the **Colortrac SmartWorks Pro** software, allows the key workflow application to do all the hard work for you and get the best out of your scanner.

What type of document will you be scanning?

The vast majority of documents created using the wide format printing technologies are technical documents that are output from large format printers or plotters. Most of these documents may be purely black & white (monochrome) or they could contain varying amounts of color and some of them could be full color as you would see in a full color photograph. Things to consider here are the width of the documents that will be scanned and whether the final images or scans are to be done in Landscape or Portrait format.

So the four key decisions to make when defining the scanner component of the professional MFP solution would be the Document size (width), the maximum media thickness (classified as the weight) of media used, the number of scans you will make per day and finally, will you need to scan color which also helps to define the scanning technology used?

Size

Wide format documents are available in a number of industry standard sizes and your scanner choice should be able to accommodate these. If in doubt, go for a scanner that is equal to or larger than the maximum printer paper size that will be used for the MFP solution. The rationale here is that any scanned image can always be reduced by the MFP workflow software to fit the printer width without loss of detail.

Furthermore, if the document can be scanned in Landscape mode, then there is a 30% reduction in the time taken to complete the scan for the equivalent Portrait version of the same document. This can be a significant time saving when archiving large quantities of documents. The sheet sizing diagram below will give you a visual representation of how this can be achieved.

Color

What is the content of color in the majority of your documents? Are they monochrome technical drawings or typical business documents with low levels of accents and highlight colors, or business graphics with reasonable amounts of color, or even full color images that may be products in their own rights? Many technical documents, such as building plans or routing maps for building site utilities are often changed on site to accommodate local unplanned variances. Additional information is added written as change notes to the hardcopy document or with critical areas highlighted to ensure that the changes visible. These changes are invariably written in color and these will be recorded by re-scanning the document into the host or enterprise system. As these documents are records of transactions or work undertaken, they are considered “live” and may be reprinted or rescanned several times to record all changes before being archived.

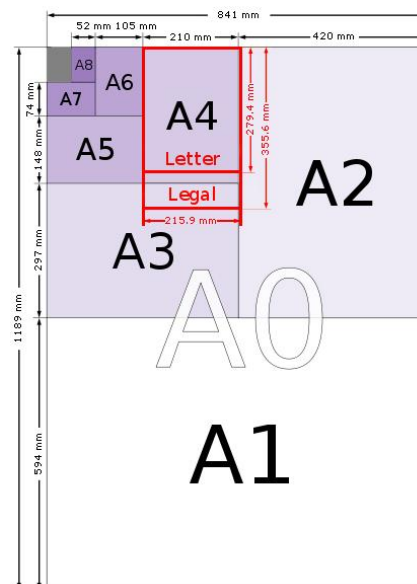
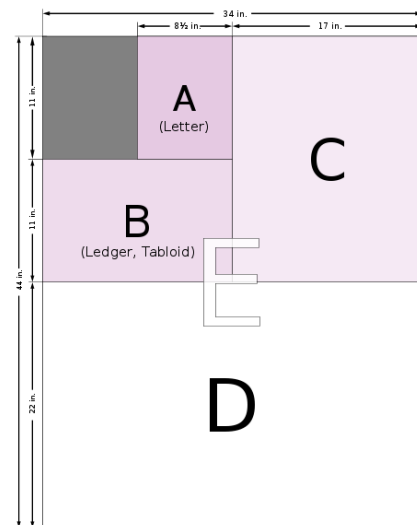
One emerging trend you should bear in mind is that with the availability of color display monitors, most software applications now use color for emphasising special data or critical items / areas. This color emphasis will also be reflected in the printed hardcopy output expected from the printer.

Number of Scans

Clearly the number of scans completed per day will influence the time spent completing the job. As in any process, there are certain stages when scanning any document that require additional operator intervention. These are generally when the original documents are offered up or fed in to the scanner (sometimes known as staging), when the operator needs to make changes to the quality of the scan and finally when the scanned document is retrieved and stored.

When archiving, the original document is staged and the scanner will pull the document through a short way and rewind to the start point. In doing this, it will already have determined the width of the original and depending on how the workflow software (SmartWorks Pro) is set, it will automatically prepare the file for archiving with a unique sequential serial number once the scan has been completed and be ready for the next document.

In most instances, the scanned documents will be dropped into a basket below the scanner output, or with more sophisticated scanners provide a document return guide so they can be deflected over the top of the scanner so the operator can easily remove it from the scanner when the operation is completed and stack or store the original as required. If all the document contents were the same, then operator intervention would be kept to a minimum. Generally, operator intervention is always needed as no two documents ever have exactly the same content and so they have to make changes to the scan set-up particularly when the



document is in poor condition or has blemishes that need removing on the scanned version. The operator will need to alter elements of the workflow software allowing the scanner to compensate for these marks. The impact of the human intervention in the process are the times taken to complete each scan and can be reduced by use of a sophisticated workflow software such as Colortrac SmartWorks Pro, with an experienced operator or by on-the-job training.

Scanner Technology

The two dominant scanning technologies based on Charge Coupled Devices (CCD) and Contact Image Sensor (CIS) have evolved to suit different needs, but their applications overlap widely due to their imaging capabilities.



The diagram above gives a representation of how the technologies can best be utilised against the types and contents of documents being scanned. If the document content is largely monochrome, then the preferred technology favours CIS based scanners like the SmartLF Ci 24 and Ci 40 that offer scan widths of 24 and 40 inches respectively. Where the document content is largely full color photographic, then the preferred technology favours CCD based scanners such as the SmartLF Gx+ 28, 42 and 56 that accept documents that are up to 28 inches, 42 inches or 56 inches wide respectively.

The Printer

The printer component of the MFP may be the part that will receive the most usage and some serious consideration as to the types of printed documents should be clearly understood.

What are the Available Technologies

Whatever the technology used, reliability and print quality for the dominant applications will be a large factor in how successfully the MFP solution gets used. With three dominant wide format printing technologies available from ink jet, through LED or Laser based printers, the monochrome and full color capabilities of these technologies offer a wide printer price range to suit your needs.

At the lower price point, color ink jet printers offer the best choice for lower volume printing but with both excellent monochrome and color reproduction. At the mid and upper price points, the LED and Laser based technologies excel for both monochrome and full color. There are many manufacturers of printers including (but not limited to) HP, Canon, Epson to name a few.

Inkjet Printers

Inkjet printers in terms of unit volumes are probably the most popular and versatile type of printer technology available. They can print photos, graphics, and CAD drawings on a wide range of media to produce clean clear outputs. They can print in color or monochrome and these attributes may be changed quickly by simply altering your printer driver settings. They may also be set to default to black and white, which will help save money on running costs.

Laser Printers

Laser printers have come down in price in recent years, making them more affordable for professional large format printing applications. Lasers excel at printing text and CAD type drawings; they also tend to be quicker than inkjets at printing multiple pages. However, they're physically bigger and usually noisier when printing.

One key advantage of a laser printer is that the toner cartridge capacities are generally larger than typical ink jet versions and hence allow the user to complete more printed pages before needing replacement. Although toner cartridges are significantly more expensive to buy, they last longer than ink jet and are relatively cheaper, producing per printed page costs of less than half of equivalent ink jet printers.

Do I need a fully integrated MFP system or not?

When looking for a fully integrated MFP system, it's important to recognise that the major components of the scanner and printer are by definition compromises in terms of their functionality. To achieve an acceptable market price level, the printers and the scanners contained within these systems are generally functionally reduced versions of their stand-alone equivalents, giving rise to a poor overall scanned image and printing performance. This price positioning is to entice customers into purchasing a cheap all-in-one MFP solution that may not suit your long term needs.

On a positive point, the footprint occupied by a fully integrated MFP solution can be kept to a minimum and for organisations with small offices or reduced space; this may be a major requirement. If footprint is a major consideration, then consider the way in which an integrated printer may be replenished with paper or printing inks and where the completed print is delivered. Similarly, the integral scanner should have the optional ability to deliver the original scanning document to the front of the machine for the operator to retrieve. Front feed and front retrieve for both the printer and the scanner give you the ability to position the MFP against a wall, thus providing a compact MFP solution with minimal footprint.



Already have the printer?

You may already have invested in a wide format printer that suits your style of business, so how can you make it more productive? By understanding the concept, scope and payback of a professional MFP solution, the addition of key components such as Scanner and Workflow software along with network capability will help to increase the productivity, throughput and the types of jobs that can be handled with a reduced financial outlay. This could be the best way in which to learn how the professional MFP solution can give you an acceptable return on investment.

Workflow Software

The MFP workflow software is the key to releasing the latent capability of the combined system components, so time spent at this stage in checking that your requirements can be handled by the MFP software will have a profound impact on both the workflow and productivity of the complete system. So look for a solution that has a simple user interface providing quick access to all the key functions required with single scan technology to capture image, make changes to the image and finally print, store or distribute the final document when operating your MFP.

Image Enhancements – Using Presets:

Whilst most MFP solutions can provide the basic printing and copying functions, the real impact is how the additional features are brought into the equation to make the system usable and productive. Copying and Scan to file are basic requirements and used extensively when archiving volumes of hardcopy information. Connectivity allows complete scanned image file distribution and access to large local or networked hard drives is a must to improve your flexibility as image files tend to be large. Look for software solutions that provide easy to operate filters to eliminate or reduce background artefacts within the scanned image. With standard Preset Filters, the workflow software can be easily set up to provide excellent scan results for

unskilled operators, allowing your experienced operators to handle more complex tasks. This helps to reduce manpower costs without impacting the throughput productivity.

Scan Once:

Clearly, if the workflow software cannot keep pace with either the scanner or printer, then the MFP system will struggle to provide the user with the productivity they are looking for. The aspect of the workflow throughput time is something that must be checked carefully and any reasons requiring multiple scans to create one file must be clearly understood when comparing alternative MFP solutions. If you have a long archiving job to complete and you have to scan more than once to get what you need, the cumulative effect of these additional scans will increase job times rendering the MFP solution less productive and less cost effective.

Wide range of Supported Printers:

If you already have or plan to have more than one large format printer, make sure your MFP solution has the capability to support all the printer features available through either a standard Windows™ driver for that printer, or a native built-in driver that optimises color calibration for the workflow software, scanner and printer capabilities from the scanner provider. The greater the flexibility here particularly when dealing with multiple media types will help to produce excellent results between scanned and printed images.

In general terms, the large format printer is more likely to take longer to print a document than the scanner takes to scan the same document, so adding a scanner to your printer clearly makes sense and will not compromise the intended workflow. Moreover, by using a scanner that is wider than your printer, it allows larger documents to be scanned and with image reduction capability in your workflow software, it will provide increased scope and additional copying capabilities for your printer.

Batch Scanning:

When scanning batches of documents that require retention as a set, then take note of the Batch Scanning features in the workflow software that help you increase the throughput of scanned documents. By using features such as Auto Size that automatically set the parameters of the scan to suit the size of original document or the Auto Detect Document that starts the scan automatically allowing the operator to concentrate on the staging of the document and preparing subsequent materials for feeding. Use Auto Detect Document in conjunction with the Auto Name feature where the operator can define the basic file name and the software appends the relevant scan number to the file name for each subsequent document scanned. It can also be set to provide an Automatic Time Stamp to each file and includes options that control over-writing of the file to avoid costly mistakes. These combined features allow the operator to scan multiple sheets simply by continually feeding the scanner with new documents and helping them save time completing the job.

Color Calibration:

If you operate in a Service Bureau, Reprographics or Copy Shop environment and use a wide variety of output media in your printer, make sure the workflow software has the capability to color calibrate both the scanner and printer using either a Closed Loop system or an ICC color calibration to obtain best possible output print quality. This allows you to customise the types of media you can make available to your customers and know that you can repeat the image quality time after time.

Scan to PDF:

If your business requires document sharing, then look for capabilities that allow integration of the Workflow software sharing scanned PDF image files. PDF is the standard for on-line documents as it includes both content & layout information in the file. PDF benefits are document fidelity and integrity, integration with electronic work processes and publically available readers.

Touch-Screen Operation:

Most casual users prefer the least complicated way to make a scanned image or printed copy and the touch screen capability provides an easy way for displaying or manipulating the BASIC functionality of the workflow software. If a skilled operator is using the workflow software, there is a higher probability that they will require access to more features that allow them to obtain a better image quality and a more consistent output. In these situations, the touch screen would be a less satisfactory solution as the sensitive manipulation of several scanning, image quality and document media variables would make this difficult for the casual user.

Key things to look for here are easy access to key functions such as scan-to-file, print or email capabilities, with easy manipulation of image quality (color or monochrome), output page size and file storage format selection as a high priority.

Why Buy a Colortrac professional MFP solution?

The decision process for users' considering different solutions may be made for a wide variety of reasons. Some of these reasons are clearly related to the performance of the scanner and printer combination, but other needs must also be taken into consideration for the MFP solution to continue being kept in optimal performance.

Quality Products

Colortrac have been manufacturing large format scanners for over twenty years and it goes without saying they have an immaculate pedigree and the ISO 14001 manufacturing qualification is testament to their continued quest for customer satisfaction, innovative product design, quality performance and value for money. Products within their range have been applauded by independent industry experts such as BERTL for producing quality scanning with technical innovation and elegance. With these key operating principles in place, Colortrac have also attracted the interest of large printer manufacturers that have chosen versions of our scanning products to be integrated in their own MFP solutions.

Worldwide Sales & Support Coverage

To support their continued rapid growth, Colortrac have established a worldwide network of accredited resellers that provide sales and support for the all the quality solutions Colortrac provide to their customers'. If you require further information where to buy their products then look on their website www.colortrac.com on the "Where to Buy" page for information on a local Colortrac accredited reseller.

Lower Costs

As we have indicated, it may be that you already have the printer of choice available. If this is the case, then Colortrac can help you complete your transition from an existing printer to a full scale professional MFP solution with the minimum of fuss or cost. With their wide range of MFP solutions, they can help bring the cost of ownership for the professional MFP solution to a price level that would satisfy the most stringent budget requirements.

Printer Compatibility

One of the key questions we are often asked is "are your scanners compatible with our existing printers"? The answer is clearly "Yes", but if you are not sure or require further evidence, then check the long list of compatible printers available on the Colortrac website (www.colortrac.com) for more information.

Superb Workflow

The pivotal element of any professional MFP solution is the ease with which the workflow software can augment the operators' skills with simple but effective facilities. The **Colortrac SmartWorks Pro** has all these key features that can make the operators more productive.

Remember that productivity is severely impacted when needing to scan the document more than once to achieve basic results. Some competitive offerings would have you believe that this is the correct way to do it, but the **Colortrac Scan-Once feature in SmartWorks Pro** allows the operator the flexibility to do ALL image corrections in real time to get the quality images required. If you're scanning fragile documents, this scan-once feature also minimises the risk of any damage being done to the original.

Controlling Color

By integrating ICC color management into SmartWorks Pro viewer, they have been able to provide a very accurate representation of scanned and printed output. This allows a rapid media profiling capability in the set-up stage by the use of standard IT8 targets that profile the scanner for color accuracy and color sensitivity. SmartWorks Pro will attach profile information to each scanned image file, ensuring accurate color reproduction when reloading pre-scanned images into SmartWorks Pro or displaying images using other color calibrated viewers. When viewing the color or tonal changes of a scanned image, SmartWorks Pro also provides the user with a color managed and smooth flicker-free display showing exactly how the changes made will affect the final color of the output document that no other vendor provides. This not only saves time, it also saves cost because the final image that is printed will always be correct, thus saving costly inks and minimising media wastage.

Better Performance

With the Colortrac professional MFP solution providing scanner resolutions up to 9600 dpi and scan speeds up to 12 inches per second, the few completely integrated MFP products available cannot compete on speed, resolution or price. In addition, the scalable workflow options included in the Colortrac SmartWorks Pro available right out of the box provide users with an array of Pre-set configurations that provide superior image reproduction and control performance for most document sizes and conditions. In most cases, the scanned image can easily be better than the original in that the image backgrounds can be cleaned taking out artefacts or dark backgrounds such as in old Blueprints, and leaving the image unblemished and totally legible.

Touch Screen Control

The use of a touch screen display seems to be attractive and many suppliers have adopted this format for their integrated MFP versions, but they tend to be very small displays. Because fingers generally tend to be larger than Mouse based pointing devices, the screens need to be made with a fairly coarse resolution to allow the touch of the finger to be registered. By creating the screen displays big enough to allow the finger to control functions or initiate actions, the amount of information given to the user at any one time is severely restricted unless a very large and expensive screen is used. In practical terms, the touch screen based devices tend to be limited to the copier based solutions where users can just walk up, load the document and press the green button just like a normal A4 copier might do. Where skilled operators are used, or the more technically elegant image quality control features are required, then the Mouse based pointing devices with keyboards tend to prevail.

Scanner, Visual Display & Keyboard Support

To create a suitable workplace that can encompass all the components of the MFP solution, it is important to have an adjustable stand that will support not only the Scanner, but also the PC, Visual Display, keyboard and Mouse pointing device. Look for a combination stand that can support these devices and also be adjustable in terms of height from ground and also able position around the scanner and printer. Some suppliers have the screen positioned behind the rear of the scanner that sits above the printer. This is likely to cause some shorter people a problem in reaching the screen and keyboard as you will have to lean not only over the scanner, but also the printer as well. Generally the position of the Keyboard and Screen should be to one side of the Scanner and Printer combination to ensure a safe working height for all operators,

Selecting the right professional MFP solution for you

Selecting the correct solution for you may well require balancing a number of physical requirements such as scan and print width, against with system capabilities. To help you make a knowledgeable decision, Colortrac have provided the following table that might give you a starting point that may narrow down the selection criteria.

Different Configurations

Colortrac provide four different professional MFP solutions to ensure that you can find a combination that suits your working practices and demands. Follow the table below to identify the most likely solution that will fit your needs. The following pages will provide further levels of details to your selected professional MFP solution.

Recommended Colortrac Professional MFP Solutions

Recommended Solution	24 inch Professional MFP CAD Solution	40 inch Professional MFP CAD Copier Solution	42 inch Professional MFP Graphics & CAD Copier Solution	42 inch Professional MFP Scan & Copy Production Solution
Scanner	SmartLF Ci 24c	SmartLF Ci 40c	SmartLF Gx+ 42c	SmartLF Gx+ T42c
Workflow Software	SmartWorks Pro (SCAN & COPY Touch Screen compatible)	SmartWorks Pro (COPIER Touch Screen compatible)	SmartWorks Pro (COPIER Touch Screen compatible)	SmartWorks Pro (SCAN & COPY Touch Screen compatible)
Typical Primary Use	Ultra-compact Color and Monochrome Copier for Technical Imaging and Office Graphics	Wide format Color and Monochrome Copier for Technical Imaging, Office Graphics and EDM	Wide format solution for High Speed Technical Imaging & High Fidelity Color reproduction	Wide format Production solution for High Speed Technical Imaging & High Fidelity Color reproduction
Small Office / Home Office	•			
Engineering Office	•	•		
CAD Drawing Office	•	•		
Technical & CAD drawings	•	•		
Architecture, Engineering & Construction	•	•	•	
Utilities & Energy	•	•	•	
Facilities Management	•	•	•	
Electronic Document Capture (EDC)	•	○	•	○
Copy Shops		•	•	○
Graphic Design	•	•	•	•
Scanning Service Bureaus		○	○	•

Recommended Solution	24 inch Professional MFP CAD Solution	40 inch Professional MFP CAD Copier Solution	42 inch Professional MFP Graphics & CAD Copier Solution	42 inch Professional MFP Scan & Copy Production Solution
Reprographics Services Professionals		○	●	●
Mapping & GIS		●	●	●
Thick Media capability				●
Maximum Scanning Resolution (dpi)	9600	9600	9600	9600
Maximum Scan Speed (ips)	10.00	10.00	12.00	12.00
Maximum Image Width	24 inches 610 mm	40 inches 1016 mm	42 inches 1067 mm	42 inches 1067 mm
Maximum Document width	25 inches 635 mm	41 inches 1042 mm	46 inches 1170 mm	46 inches 1170 mm
Maximum Document Thickness	280 gsm flexible media	280 gsm flexible media	0.08 inches 2 mm	0.8 inches 20 mm

Note: ● - indicates the recommended solution
○ - indicates a capable solution

Colortrac 24 inch professional MFP CAD solution

If you have limited space available and need a flexible wide format document copier capable of taking D-size or A1 technical drawings, then Colortrac provide the affordable Ultra-compact **SmartLF Ci 24 professional MFP solution** that is tailored specifically for you.

Who would use it?

This compact MFP solution would be ideal for home office locations or people handling CAD or technical drawings and office documents with color graphics in Architecture, Engineering & Manufacturing, Construction, Utilities and Energy companies.



The compact MFP clearly benefits these environments, with the ability to position the combined scanner and printer units together with the Universal Repro Stand against a wall to provide a complete stand-alone scanning and printing workstation if required, with a minimal footprint.

The Colortrac SmartLF Ci 24 is powerful enough to scan a wide variety of media containing monochrome technical with medium levels of color content. Archiving or copying different documents types and sizes to file or print are made simple with the workflow software provided by the SmartWorks Pro.

Connect any wide format printer using the SmartWorks Pro workflow software as the catalyst to create a robust and productive wide format MFP solution.

Key Features: 24 inch Professional MFP CAD Solution

Recommended Solution	24 inch Professional MFP CAD Solution
Scanner	Colortrac SmartLF Ci 24c
Workflow Software	SmartWorks Pro (SCAN & COPY) – provided as standard with this scanner
Printer Compatibility	Capable of working with the extended 24 inch wide format printer products from Hewlett Packard, Canon, Epson and others. To see if your printer is compatible, please check on the Colortrac website at www.colortrac.com for more information.
Typical Primary Use	Ultra-compact Color and Monochrome Copier for Technical Imaging and Office Graphics
Maximum Scanning Resolution (dpi)	9600
Maximum Scan Speed (ips)	10.00
Maximum Image Width	24 inches 610 mm
Maximum Document width	25 inches 635 mm
Maximum Document Thickness	280 gsm flexible media

Colortrac 40 inch professional MFP CAD Copier solution

If you require a robust CAD based wide format copier capable of handling a variety of documents up to E-size+ or A0+ size in a busy office or department, then this is the solution for you.

Who would use it?

This **SmartLF Ci 40 professional MFP solution** would be ideal for people handling large CAD technical drawings or office documents with color graphics for Architecture, Engineering & Manufacturing, Construction, Utilities and Energy companies, Graphic Design Studios, Mapping and GIS.



With the front feed and front retrieve document feeding and capable of taking any media up to 40inches (1016mm) wide, the **SmartLF Ci 40 professional MFP solution** has all the productive capabilities you may require with a minimal footprint that allows it to be placed against a wall to minimise floor space. In a busy CAD drawing office or cramped Architects office, space matters and this solution is the way that you can accommodate the copier functionality and throughput without compromising available space.

The **SmartLF Ci 40 scanner** is powerful enough to copy large volumes of a wide variety of monochrome and colored technical media of varying sizes. Add the ability in **SmartWorks Pro** to rapidly control the scanned image through their **Scan-Once technology** and also using the **10 pre-configured Presets** allows you to radically enhance your productivity and image quality control.

Key Features: 40 inch Professional MFP CAD Copier Solution

Recommended Solution	40 inch Professional MFP CAD Solution
Scanner	Colortrac SmartLF Ci 40c
Workflow Software	SmartWorks Pro COPIER (Touch Screen compatible)
Printer Compatibility	Capable of working with wide format printer products up to 40 inches from Hewlett Packard, Canon, Epson and others. To see if your printer is compatible, please check on the Colortrac website at www.colortrac.com for more information.
Typical Primary Use	Wide format Color and Monochrome Copier for Technical Imaging, Office Graphics and EDM requirements
Maximum Scanning Resolution (dpi)	9600
Maximum Scan Speed (ips)	10.00
Maximum Image Width	40 inches 1016 mm
Maximum Document width	41 inches 1042 mm
Maximum Document Thickness	280 gsm flexible media

Colortrac 42 inch professional MFP Graphics & CAD Copier solution

If large maps, GIS documents or full color photos are your requirements, then the Colortrac **SmartLF Gx+ 42 professional MFP solution** will take these in their stride. Coupled with any wide format printer you may already have, connecting the scanner and printer together with the SmartWorks Pro workflow software will create an unbeatable large format Copier solution.



Who would use it?

With the outstanding full color rendition capability of the **SmartLF Gx+ 42 professional MFP solution**, it would lend itself to being suitable for companies handling higher volumes of Mapping and GIS documents, Graphic Design studios and Copy Shops with the need to provide fantastic color rendition output. Add to this the type of companies that also have needs for higher levels of color content in their business documents such as Facilities Management, Utilities and Energy, Architectural, Engineering, and Construction companies, then the **SmartLF Gx+ 42 professional MFP solution** is definitely the one for you.

The standard **SmartLF Gx+ 42 scanners** provide a face down, front loading, rear exit media path. If you need to position the **SmartLF Gx+ 42 professional MFP solution** against a wall to minimise footprint, then the optional **Document Return Guide** will allow all media to be returned to the operator by redirecting the scanned document back over the top of the scanner. Furthermore, the tremendous ability yet simplicity of the **SmartWorks Pro** workflow solution will allow you to automatically configure scans to accommodate different document sizes and types.

Key Features: 42 inch Professional MFP Graphics & CAD Copier solution

Recommended Solution	42 inch Professional MFP Graphics & CAD Copier Solution
Scanner	Colortrac SmartLF Gx+ 42c
Workflow Software	SmartWorks Pro COPIER (Touch Screen compatible)
Printer Compatibility	Capable of working with wide format printer products up to 42 inches from Hewlett Packard, Canon, Epson and others. To see if your printer is compatible, please check on the Colortrac website at www.colortrac.com for more information.
Typical Primary Use	Wide format solution for High Speed Technical Imaging & High Fidelity Color reproduction
Maximum Scanning Resolution (dpi)	9600
Maximum Scan Speed (ips)	12.00
Maximum Image Width	42 inches 1067 mm
Maximum Document width	46 inches 1170 mm
Maximum Document Thickness	0.08 inches 2 mm

Colortrac 42 inch professional MFP Scan & Copy Production Solution

The **SmartLF Gx+ T42 professional MFP solution** is designed for the higher productivity applications but also require the ability to handle thicker than normal documents such as those attached to foam backed board (up to 0.8 inches or 20mm thick).



Who would use it?

With the ability to handle a wide variety of documents media or thick board mounted materials, it makes the **SmartLF Gx+ T42 professional MFP solution** with a straight through document path very suitable for professional Reprographics Services, larger Graphic Design studios and large format Scanning Bureaus with larger scan volumes.

The **SmartLF Gx+ T42 professional MFP solution** is also powerful enough to scan large volumes of a wide variety of monochrome and colored technical media of varying sizes. Furthermore, use it with the tremendous ability of **SmartWorks Pro** that allows you to automatically configure the scan workflow to accommodate the document size, distribute your scanned image files into a networked folder for client collection or for onward distribution to networked printers, then you have a powerful Enterprise production MFP solution.

Key Features: 42 inch Professional MFP Scan & Copy Production Solution

Recommended Solution	42 inch Professional MFP Scan & Copy Solution
Scanner	Colortrac SmartLF Gx+ T42c
Workflow Software	SmartWorks Pro SCAN & COPY (Touch Screen compatible)
Printer Compatibility	Capable of working with wide format printer products up to 42 inches from Hewlett Packard, Canon, Epson and others. To see if your printer is compatible, please check on the Colortrac website at www.colortrac.com for more information.
Typical Primary Use	Wide format Production solution for large volume High Speed Technical Imaging & High Fidelity Color reproduction
Maximum Scanning Resolution (dpi)	9600
Maximum Scan Speed (ips)	12.00
Maximum Image Width	42 inches 1067 mm
Maximum Document width	46 inches 1170 mm
Maximum Document Thickness	0.8 inches 20 mm

Where to find further information

If you need more detailed information on any of the recommended Colortrac professional MFP solutions, then the Colortrac website listed below contains more information on how to get the best out of your professional MFP solution, along with who to contact and where you can buy your scanner and workflow software.

www.colortrac.com

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Credits

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