



*hit* **PRINT**

HP Designjet **Large-format Printing System**

# PORTFOLIO

## Table of Contents

<b>Introduction</b>	2
<b>Customer Needs and HP Application Solutions</b>	4
<b>Portfolio Printers</b>	6
<b>Help me choose</b>	8
<b>HP Designjet Technical Printer</b>	9
HP Designjet Technology for Technical Printers	10
HP Designjet 70/110plus Printer series	12
HP Designjet 510 Printer series	13
HP Designjet T610 Printer series	14
HP Designjet T1120 Printer series	15
<b>HP Designjet Graphics/Photo Printers</b>	16
HP Designjet Technology for Graphics/Photo Printers	18
HP Designjet 90/130 Printer series	19
HP Designjet Z2100/Z3200 Photo Printer series	20
<b>HP Designjet Production and Department Printers</b>	21
HP Designjet Technology for Production and Department Printers	22
HP Designjet 4020/4520 Printer series	23
HP Designjet Z6100 Printer series	24
<b>HP Designjet Multifunction Printers</b>	25
HP Designjet Technology for Multifunction Printers	26
HP Designjet T1120 SD-MFP	27
HP Designjet T1120 HD-MFP	28
HP Designjet 4520 HD-MFP/HP Designjet 4520 Scanner	29
<b>Solutions</b>	30
<b>Original HP Large-format media</b>	31
<b>Original HP Ink Cartridges</b>	32
<b>HP Large-format Media Portfolio</b>	33
<b>Making a difference for customers and the environment</b>	34

## What makes HP different?

More printing possibilities with the names you trust:

- HP Designjet Printing System
- HP Indigo Printing System
- HP Scitex Printing System
- HP Specialty Printing Systems
- HP Retail Photo Solutions

## Broadest Portfolio

## Unrivalled IT Infrastructure

- Powerful, global IT infrastructure unmatched in our industry
- Only HP offers it all – computing, storage, printing software, and services
- 20+ years of digital printing experience



## What makes HP different?

HP large-format printing solutions are designed for graphic arts professionals who want to print maps, technical drawings, posters, photos, proofs or fine art with accurate line quality and short term indoor vibrant color

- Print quality that is designed to last
- Print technology innovations that deliver superior results
- Consistent print results each and every time

## Outstanding print quality and color consistency

- Invest 58% of our profits in R&D
- Continuous technological innovation
- Offer TIJ, LEP, and piezo technologies
- Complete printing system including innovative HP ink and media technologies
- Acquisitions of leading-edge companies (Indigo and Scitex)

## R&D second to none

Committed to customer success  
Industry-leading program  
Collaboration and co-existence for a very special community

## Social responsibility

- Environmental Story
- Designing for the environment
- Energy-efficient products and a range of product reuse and recycling options
- Design products and services that promote environmental conservation
- Worldwide collaboration to develop responsible practices

## Strong, dynamic network of partners

- True end-to-end solutions for your business
- Commitment to open architecture and industry standards
- Working with trusted partners and developing stronger alliances mean more offerings for you

We are continually extending our range of digital products and technologies to provide:

- more **quality** to faithfully reproduce the results you work so hard to achieve.
- more **options** with new HP substrates that open new possibilities.
- compelling prices and **low cost** of operation for you to build an advantage in an increasingly competitive world.

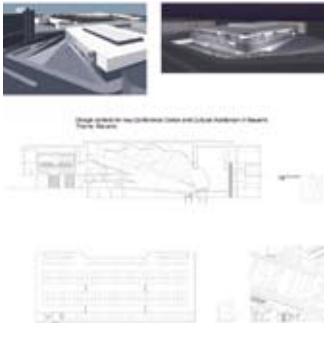




And ensure a confident customer experience with:

- smart features that integrate easily to your **workflow**.
- reliable rock-solid products that give you peace of mind as well as services, programs, and **support** when you need them.
- tools that help you in your business growth.

In this brochure, you'll find a complete display of our large-format printing portfolio as well as market-specific product information.

You will also learn about HP technologies, supplies and media and why HP is the world trusted choice of graphics and technical professionals.

# Customer Needs and HP Application Solutions

Industries	Applications	Customer's vision
<b>AEC</b>	 <ul style="list-style-type: none"> <li>• B&amp;W line drawings</li> <li>• Color drawings</li> <li>• Presentation panels/project bids</li> <li>• Renders</li> <li>• Construction plans</li> </ul>	<p><i>"When we decided to set up our own in-house resource, reliability was a major consideration and one of the main reasons why we chose HP. When we are putting together bids for new projects, we rely very heavily on these plotters."</i></p> <p>Terry Nichols, IT Manager, HOK</p>
<b>MCAD</b>	 <ul style="list-style-type: none"> <li>• Renders</li> <li>• Sketches</li> <li>• Photorealistic images</li> <li>• Presentation panels</li> <li>• Line drawings in color and monochrome</li> </ul>	<p><i>"Designers may spend hours agonizing over what color to actually use. So, obviously they're not very happy if it doesn't come out the way they actually intended it in the first place. That's why accuracy in terms of color is very, very important."</i></p> <p>David M. Ancora, Chief Designer, Volvo Car Corporation</p>
<b>GIS</b>	 <ul style="list-style-type: none"> <li>• Maps</li> <li>• Aerial photographs</li> <li>• Trade show displays</li> <li>• Photorealistic images</li> <li>• Large-format scans</li> </ul>	<p><i>"Image quality is the critical area for map printing businesses. There are people out there that buy maps because they just love maps. When the maps look that much better, our customers are that much happier."</i></p> <p>Garry Heaton, Prepress Technical Business Officer, Ordnance Survey</p>
<b>Reprographics</b>	 <ul style="list-style-type: none"> <li>• B&amp;W and color drawings</li> <li>• Renders</li> <li>• Photorealistic images</li> <li>• Construction plans</li> <li>• Maps</li> <li>• Poster and POP displays</li> <li>• Presentation panels</li> <li>• Large-format scans</li> </ul>	<p><i>"I see large-format going the way of small format: clients gradually asking for more color, attracted by the new low prices, and the added value of color to their prints."</i></p> <p>Roy Clark, sales director, Repro Graffix</p>
<b>Newspaper Proofing</b>	 <ul style="list-style-type: none"> <li>• B&amp;W imposition newspaper proofs.</li> <li>• Single page and spread ads proofs.</li> </ul>	<p><i>"We have a very short transmission time between when the files come to us, and proofing before the press starts running. Printer speed is critical in getting the newspaper proofs fast enough before the section starts running on the press."</i></p> <p>Andrea Gray, Quality Manager for Production, The Globe and Mail</p>



## Retail



- Retail and trade show posters and displays
- Graphic and photographic images

*"In the past, local Coors distributors used hand-written signs and posters for in-store promotion. Such campaigns were variable in quality and difficult for Coors to measure. We want to give retailers the promotional tools needed to influence the undecided customer."*

Ted Glauth, National Manager of point of sale and merchandising for Coors

## Business Graphics



- Posters
- Diagrams
- Charts: Pie, bar, etc.

*"We interact with our customers a lot, particularly in the fields of human resources and knowledge management where we have found that using colorful diagrams is an excellent way of communicating. In many instances, rather than using on-screen presentations, we put our diagrams and ideas onto large posters."*

Montserrat Marsal, senior manager, PricewaterhouseCoopers

## Professional Photography



- Color exhibition prints
- B&W exhibition prints
- Contact sheets (thumbnails)
- Proofs
- Portfolio prints

*"Every photographer wants to have something they can count on to be able to make two prints in a row that are the absolute best print. And with digital printing, we're finally at a place where we can make master prints where you can realize everything that's in the negative, so I feel like we've entered a world of great opportunity for color photography."*

Joel Meyerowitz, photographer

## Graphic Design



- Portfolio prints
- Presentation panels to sell ideas
- Proofs
- Short-run final prints

*"We have a very, very fast turnaround, high pressure deadlines. We've got to produce high-quality work quickly. I just don't want things breaking. I want it to work efficiently and consistently."*

Tony Chambers, Wallpaper Magazine

## Pre-Press



- Single page proofs
- Imposition proofs
- Contract proofs

*"We need inks which dry faster and stay stable once they're on the paper. That allows us to pull a proof out really quickly, look at it in the light-box, and know that it's right and that it's going to stay like that. So when we show it to an art director or our client, we know that what we've seen is what they're going to see. That's core to what we do."*

Allan Roche, Pixel CMS Ltd., The Globe and Mail

## Digital Fine Art



- Proofs
- Fine art prints

*"The gallery can tell a client, 'Well, this one is sold but we will make another one for you', and they can be assured that the next print will be just like the one that they see hanging on the wall at the gallery. And that consistency is just critically important to the way I work because I never print a whole series at one time. I print them over time, as they're sold."*

Bonny Lhotka, Founder & Artist, Digital Atelier

# Large-format **Technical Workgroup/Personal** Printers



\*Not available in USA and Canada

HP Designjet 70 Printer series\*

HP Designjet 110plus Printer series

# Large-format **Graphics Photo** Printers



\*Not available in USA and Canada

HP Designjet 90 Printer series\*

HP Designjet 130 Printer series

# Large-format **Production and Department** Printers



HP Designjet 4020/4520 Printer series

# Large-format **Technical Multifunction** Printers



HP Designjet T1120 SD-MFP



HP Designjet 510 Printer series



HP Designjet T610 Printer series



HP Designjet T1120 Printer series



HP Designjet Z2100 Photo Printer series



HP Designjet Z3200 Photo Printer series



HP Designjet Z6100 Printer series



HP Designjet T1120 HD-MFP



HP Designjet 4520 HD-MFP

# Help me choose

## Specifications

\*Stated volumes indicate range of sizes available; not all colors are available in every size.

	Page	Size	Speed	Cartridge*	Ink/Type	Resolution
HP Designjet 70	10	C+/A2	Color image, Normal mode B/A3 glossy paper: 4 min/page	69-ml, 28-ml	4/Black pigment, CMY dye-based	1200 x 600 dpi
HP Designjet 90	18	C+/A2	Color image, Normal mode B/A3 glossy paper: 4 min/page	69-ml, 28-ml	6/HP Vivera dye-based inks	2400 x 1200 dpi
HP Designjet 110plus	10	D+/A1	Color image, Normal mode B/A3 glossy paper: 4 min/page	69-ml, 28-ml	4/Black pigment, CMY dye-based	1200 x 600 dpi
HP Designjet 130	18	D+/A1	Color image, Normal mode B/A3 glossy paper: 4 min/page	69-ml, 28-ml	6/HP Vivera dye-based inks	2400 x 1200 dpi
HP Designjet 510	10	24/42 in (610/1067 mm)	Line drawings, Fast mode: 55 seconds	69-ml, 28-ml	4/Black pigment, CMY dye-based	2400 x 1200 dpi
HP Designjet T610	11	24/44 in (610/1117 mm)	Line drawings, Fast mode: 35 sec/page on D/A1	69-ml, 130-ml	6/HP Vivera inks Matte black pigment Color, photo black, gray dye-based	2400 x 1200 dpi
HP Designjet T1120	11	24/44 in (610/1117 mm)	Line drawings, Fast mode: 35 sec/page on D/A1	69-ml, 130-ml	6/HP Vivera inks Matte black pigment Color, photo black, gray dye-based	2400 x 1200 dpi
HP Designjet 4020	12	42 in (1067 mm)	Line drawings, Fast mode: 25 sec/page on D/A1	225-ml, 400-ml, and 775-ml	4/Black pigment, CMY dye-based	2400 x 1200 dpi
HP Designjet 4520	12	42 in (1067 mm)	Line drawings, Fast mode: 25 sec/page on D/A1	225-ml, 400-ml, and 775-ml	4/Black pigment, CMY dye-based	2400 x 1200 dpi
HP Designjet Z2100	19	24/44 in (610/1117 mm)	Color image, Normal mode B/A3 glossy paper: 2 min/page	130-ml	8/HP Vivera pigment inks	2400 x 1200 dpi
HP Designjet Z3200	19	24/44 in (610/1117 mm)	Color image, Normal mode D/A1 glossy paper: 7.2 min/page	130-ml	12/HP Vivera pigment inks Including chromatic red and gloss enhancer	2400 x 1200 dpi
HP Designjet Z6100	20	42/60 in (1067/1524 mm)	Color image, Fast mode D/A1 glossy paper: 2.1 min/page	775-ml	8/HP Vivera pigment inks	2400 x 1200 dpi

Choose a printer depending on the type of application

	B&W line drawing	Color drawings	Presentation panels/Bids	Photorealistic	Renders	GIS/Maps	POP/Retail	Business graphics	Posters	Newspaper proofing	DFA/Photography	Pre-press proofs
HP Designjet 70	●	●	●		●			●	●			
HP Designjet 90			●	●	●	●	●	●	●		●	
HP Designjet 110plus	●	●	●		●	●		●	●			
HP Designjet 130			●	●	●	●		●	●		●	
HP Designjet 510	●	●	●		●			●	●			
HP Designjet T610	●	●	●		●			●	●			
HP Designjet T1120	●	●	●		●			●	●	●		
HP Designjet 4020	●	●	●		●			●	●	●		
HP Designjet 4520	●	●	●		●			●	●	●		
HP Designjet Z2100		●	●	●	●			●	●		●	●
HP Designjet Z3200		●	●	●	●			●	●		●	●
HP Designjet Z6100		●	●	●	●			●	●		●	●









# HP Designjet **Technical** Printers

## Trusted printing for demanding professionals

HP is a worldwide trusted choice in large-format printing for demanding professionals — from architecture to construction, manufacturing and civil engineering to GIS – providing one of the most diverse families of affordable printing solutions that combines superior quality with timesaving operation and proven reliability.

Product	For	Who needs	We offer	Volume
 <p><b>HP Designjet 70/110plus</b></p>	<p>AEC and CAD small office/home, office and students</p> <p><b>Personal use 1 to 3 people</b></p>	<p>Size and media flexibility</p> <p>Compact LF printer</p>	<p>Multiformat printing with a wide range of media and 3 independent paper paths</p> <p>Desktop companion</p>	<p>Low</p>
 <p><b>HP Designjet 510</b></p>	<p>AEC and CAD small companies</p> <p><b>Small and medium-size groups</b></p>	<p>Entry-level solution</p> <p>Fast and efficient printing</p>	<p>Affordability, fast speeds and easy HP-GL/2 direct printing.</p> <p>Complete compatibility with the latest applications and operating systems</p>	<p>Low to medium</p>
 <p><b>HP Designjet T610</b></p>	<p>CAD and GIS professionals individual use</p> <p><b>Small and medium-size groups</b></p>	<p>High quality presentations and technical drawings</p> <p>Fast printer to produce a moderate number of prints of diverse types (presentations, line drawings, indoor displays)</p> <p>Confidence that the color will be accurate</p>	<p>Fast performance</p> <p>High quality accurate prints</p> <p>Match printed colors with screen colors</p> <p>Network capability available as an accessory</p>	<p>Low to medium</p>
 <p><b>HP Designjet T1120</b></p>	<p>CAD and GIS workgroups in a networked environment</p> <p><b>Medium and large departments</b></p>	<p>High quality presentations and technical drawings</p> <p>Fast printer to produce a moderate number of prints of diverse types (presentations, line drawings, indoor displays)</p> <p>Confidence that the color will be accurate</p> <p>High-speed network printing and work team productivity</p>	<p>Fast performance</p> <p>High quality accurate prints</p> <p>Match printed colors with screen colors</p> <p>Enhanced networking functionality</p>	<p>Occasional printing peaks</p> <p>(volumes of 75 pages/week)</p>

# HP Technology For Designjet Technical Printers

## Professionalism - impress your clients with the quality of your prints thanks to:

- Wide color gamut and rich true blacks with **HP Vivera inks with the HP Three-black ink set**

HP Vivera office inks are designed first and foremost to provide exceptional plain paper print quality and durability for typical office and technical applications.

They deliver crisp, laser-quality text, bright, true colors for business graphics and technical prints, and quick-dry durability to meet the demands characteristic of office and technical working environments. In addition, HP Vivera office inks allow customers to produce brilliant photos and business graphics on coated media which are smudge-, water-, and fade-resistant; ideal for professional-looking brochures, presentation panels, marketing materials, and technical drawings.

Using the HP Three-black ink set enhances detail and produces smooth area fills. This is especially visible in

construction drawings that require a high level of detail and also in high-quality renders of architectural or mechanical designs and maps.



- A wide range of **Original HP printing materials** for all your technical application needs.

### Technical printers that use Vivera inks:

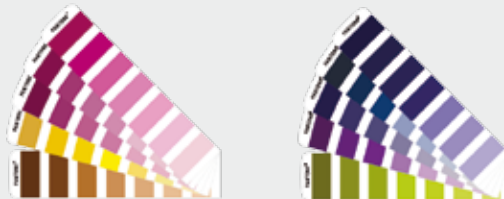
HP Designjet T610 Printer series

HP Designjet T1120 Printer series

- Technical drawings
- Presentation panels/bids
- Office graphics and presentations
- Maps
- 3D renderings
- Posters

- **HP Professional Color Technologies** for accurate and consistent color

The combination of new HP products and HP Professional Color Technologies delivers predictable and outstanding prints, with radically simple solutions that cover the needs of businesses in the technical markets. Most of the HP technical line of large-format printers and MFPs include HP Professional Color Technologies.



HP Professional Color Technologies are currently formed by:

- **Color emulation** ensures color consistency between different HP large-format printer models.
- **Closed-loop color calibration on HP media** delivers consistent and accurate color for technical and business communication graphics.
- **Professional PANTONE® Emulation** offers accurate spot-color proofing with a colorimetric high match of PANTONE® colors and ink values are automatically determined for the printer, inks, and media.<sup>1</sup>

HP Professional Color Technologies capabilities, such as Closed-loop color and Professional PANTONE® Emulation, are included in both HP DreamColor Technologies and HP Professional Color Technologies.

- **HP Scalable Printing Technology** delivers exacting detail

Consistently high print quality and faster printing speeds require precise drop ejection characteristics, and these are determined by the design and construction of the printhead.



HP 90 and HP 72 Printheads are built with HP Scalable Printing Technology (SPT) and, because the SPT process can define and produce very small structures, this ensures high print quality with consistent drop volumes, drop speeds, and drop trajectories. In addition, SPT achieves outstanding line accuracy even at high speeds.

SPT-based HP 90 and HP 72 Printheads allow HP Designjet printers such as the 4020, 4520, T1120 and T610 series to deliver high productivity in all print modes and to produce very fine lines and crisp text.

- 1 ±0.1% line accuracy.
- 2 Precise line width difference between horizontal and vertical lines.
- 3 Minimum line width (HP-GL/2 addressable): 0.0007 in (0.02 mm)

Guaranteed minimum line thickness (ISO/IEC 13660:2001(E))\*: 0.0023 in<sup>0</sup> (0.06 mm) and 0.0027 in<sup>1</sup> (0.07 mm)

<sup>1</sup> On the HP Designjet T1120 Printer series

<sup>2</sup> On the HP Designjet 4020 and 4520 Printer series

## Dependability you know you can count on with:

- **HP-GL/2** is a printer language developed by HP that has become a standard printer language for technical documents.

HP-GL/2 is an evolved version of the original HP-GL, which was used in early drafting devices of HP. This language is a vector language that is extremely efficient and compact, so it will not lock up networks, file servers or e-mail servers.

Using HP-GL/2 results in less overhead of design workstations because file processing when printing is performed at the printer instead of at the computer. In addition, it is supported by all major large-format printer manufacturers, which ensures that the file contents will be printed correctly on a wide range of printers. It also ensures compatibility with major CAD applications, which use this language to export the design or print directly.

## • Optimized drivers for AutoCAD.

HP Optimized Windows drivers for AutoCAD are co-developed with Autodesk to provide the optimized performance of HDI (AutoCAD Heidi® Device Interface) within a familiar Windows interface.

The result is a better user experience and substantial benefits to the AutoCAD user.

- Windows interface: ease of use with one single familiar interface. Print with a single click from inside the AutoCAD application
- Bi-directional communication: avoid possible errors, wasting time and media always knowing the printer status from your AutoCAD application
- High content fidelity and high productivity: lines are crisp, clear and complete, colors are accurate and no information is lost. In addition, files are processed swiftly thanks to the integration between AutoCAD and HP Designjet drivers.

## High productivity and fast technical printing

- **HP-GL/2** and HP Embedded Web Server with Job Center are key innovative technologies for HP Technical printers.

- Send and print jobs reliably over the network thanks to **HP In-printer processing architecture**.

In-printer processing architecture frees up workstations and processes complex files quickly in the printer. The printer's internal hard disk provides a large buffer, reducing the chance that your workstation will lock up when printing large files.



Job Center in HP Embedded Web Server

### Dependability with In-printer processing architecture

#### HP

Low computer load while spooling files

#### Low network traffic

Processing in printer



### Raster architecture

#### Other manufacturers

High computer load while spooling files

#### Dense network traffic

Processing at computer

The printer is controlled by the workstation



# HP Designjet 110plus Printer series

B&W line drawing | Color drawings | Presentation panels/Bids | Renders | Business graphics | Posters



**Multi-purpose, versatile, and affordable printers ideal for personal use or small groups**

Size	Ink	Resolution	Line accuracy	Technology
70: C+/A2+ 110plus: D+/A1+	4	1200 x 600 dpi	+/- 0.2%	HP Thermal Inkjet
Media handling		Connectivity		
Sheet feed Roll feed (optional)		USB 1.1 (USB 2.0 compliant), Centronics parallel IEEE1284 (ECP compliant)		
HP Designjet 70	HP Designjet 110plus	HP Designjet 110plus r		
Q6655A	C7796D	C7796H		
AEC and CAD small office/home office and students Small retail companies Business graphics				

### Enlarge your vision

- Enjoy media flexibility – with three independent paper paths and a wide range of Original HP printing materials.
- Provides continuous adjustments to optimize print quality and achieve lasting results for archiving CAD plots and architectural plans.
- Multi-format color business printing at your fingertips. From proposals to line drawings to oversized graphics.

### Full color, superior results

- Produce rich, vibrant color with patented HP inks, 1200 dpi, and HP Color Layering technology.
- Easy printer configuration in multiple network environments. Versatile for almost any office environment, optimized drivers provide full support for Macintosh and Windows operating systems.
- AutoCAD drivers handle the intricacies of AutoCAD printing such as line ends and joins, annotations, raster patterns, and more.

### Valuable time and cost savings

- Individually replaceable supplies make this desktop companion printer budget-friendly to own and operate.
- In-house color wide format printing and occasional large-format up to 24 in/610 mm to reduce outsourcing costs.
- Minimize the waste and cost associated with trial and error prints. The Designjet 70 Printer offers intelligent print previewing with actual layout positioning.



Media flexibility



Rich, vibrant color with HP inks



*"The convenience of printing large documents instantly has positively impacted my workflow. With the HP Designjet 110plus Printer, our subcontractors have the drawings in their hands minutes after the architect has finished with them."*

Andy Rymer, Project Superintendent, Reeve-Knight Construction



# HP Designjet 510 Printer series

B&W line drawing | Color drawings | Presentation panels/Bids | Small renders | Business graphics | Posters



**HP's most affordable standalone large-format printer for small studios (CAD professionals, GIS, etc.) at an exceptional price**

Size	Ink	Resolution	Line accuracy	Technology
24/42 in 610/1067 mm	4	2400 x 1200 dpi	+/- 0.2%	HP Thermal Inkjet
Media handling		Connectivity		
Single sheet feed, roll feed Automatic cutter (except canvas)		1 USB 2.0 compliant port, 1 IEEE1284 compliant parallel port, 1 EIO Jetdirect accessory slot. Optional: Compatible HP Jetdirect EIO print servers		
HP Designjet 510		HP Designjet 510ps		
24 in / 610 mm	CH336A	CJ996A		
44 in / 1117 mm	CH337A	CJ997A		
CAD, AEC and GIS small office/home office and students Small retail companies, Business graphics				

### Conveniently print large-format technical drawings

- Conveniently print CAD documents with print speeds up to 55 seconds for D/A1-sized documents.
- HP Instant Printing-quickly print your HP-GL/2, PLT, PDF, and PPT files with the simple click of a button.
- Easily share this large-format Designjet among multiple users with optional network capability.

### Reliable performance, high line and image quality

- Based on the very reliable and best-selling HP Designjet 500 large-format printer series.
- Confidently print HP-GL/2 and PLT files knowing HP provides top-quality HP-GL/2 support.
- Process complex files with great ease thanks to 160 MB of memory.

### Bring CAD printing in-house, at the right price

- Get high quality, high reliability at an affordable price.
- A choice of 28-ml and 69-ml HP ink cartridges enables cost-effective printing matched to your needs.
- Choose from a wide range of Original HP printing materials designed together with the printer for consistently outstanding results.
- Separate ink cartridges and printheads and efficient servicing routines keep running costs down.
- Operation is easy and intuitive, so you can focus on key projects and not on your printer.



*"Having an HP Designjet 510 Printer in the office, we are able to control drawings down to the last detail. We don't have to pay the expensive prices charged by printing houses, and we get better quality prints. What we see on the screen is what we get on the print."*

Pablo Twose, Architect, two.bo arquitectura, Barcelona, Spain

# HP Designjet T610 Printer series

B&W line drawing | Color drawings | Presentation panels/Bids | Renders | GIS/Maps | POP/Retail | Business graphics | Posters



HP's new large-format Designjet - with the HP Three-black ink set - is ideal for CAD and GIS professionals individual use\*

Size	Ink	Resolution	Line accuracy	Technology
24/44 in 610/1117 mm	6	2400 x 1200 dpi	+/- 0.1% <sup>2</sup>	HP Thermal Inkjet
Media handling		Connectivity		
Roll feed, sheet feed		One Hi-Speed USB 2.0 certified port, one EIO Jetdirect accessory slot		
HP Designjet T610				
24 in/610 mm		Q6711A		
44 in /1117 mm		Q6712A		
* Network printing optional as an accessory				

## Impressive accuracy and detail

- The HP Three-black ink set—including a gray HP Vivera ink—produces true neutral gray, and accentuates detail.
- Improved line accuracy to 0.1%<sup>2</sup> and 0.002 in/0.0423 mm minimum line width for outstanding horizontal-to-vertical line width difference.
- Choose from a wide range of Original HP printing materials designed together with the printer for consistently outstanding results.

## Rest assured

- Keep the color you want from screen to print. Screen-to-print matching through HP Professional Color Technologies, including enhanced sRGB and Adobe® RGB printing and closed loop color calibration.
- Embedded HP-GL/2 ensures support for most CAD applications on a wide range of operating systems.
- HP printer drivers are specially optimized for AutoCAD, providing Windows ease-of-use with the performance of HDI.

## Save time and boost personal productivity

- Print a D/A1 page in up to 35 seconds.<sup>1</sup>
- HP's innovative Scalable Printing Technology is built in for accurate consistent results even at fast print speeds.
- HP Vivera inks achieve excellent dry times and smudge-resistance on a range of HP large-format media producing prints that can be handled right out of the printer.



HP Scalable Printing Technology (SPT) built into HP 72 Printheads



True neutral grays with HP Three-black ink set



(1) Mechanical printing time on plain media in Fast mode with Economode on.  
 (2) ±0.1% of the specified vector length or ±0.1 mm (whichever greater) at 73° F (23° C), 50–60% relative humidity, on E/A0 printing material in Best or Normal mode with HP Matte Film.

# HP Designjet T1120 Printer series

B&W line drawing | Color drawings | Presentation panels/Bids | Renders | GIS/Maps | POP/Retail | Business graphics | Posters | Newspaper proofing



HP's new large format Designjet - with the HP Three-black ink set - is ideal for CAD and GIS printing in a workgroup network environment.

Size	Ink	Resolution	Line accuracy	Technology
24/44 in 610/1117 mm	6	2400 x 1200 dpi	+/- 0.1% <sup>(2)</sup>	HP Thermal Inkjet
Media handling		Connectivity		
Roll feed, sheet feed		One Hi-Speed USB 2.0 certified port, one EIO Jetdirect accessory slot, One Gigabit Ethernet (1000Base-T) port		
HP Designjet T1120		HP Designjet T1120ps		
24 in / 610 mm	CK837A			CK838A
44 in / 1117 mm	CK839A			CK840A

## Impress your clients with the quality of your prints

### Produce exacting detail and precise, accurate line quality

- The HP Three-black ink set—including a gray HP Vivera ink—produces true neutral gray, and accentuates detail.
- Produce highly accurate drawings with a printer and HP Vivera inks that deliver outstanding details—with 0.1% line accuracy.<sup>(2)</sup>

### Meet your deadlines, even with printing peaks

- Print a D/A1 page in up to 35 seconds.<sup>(1)</sup>
- HP's innovative Scalable Printing Technology for accurate consistent results even at fast print speeds.
- HP Designjet T1120 Printer series in-printer processing architecture frees up workstations and processes complex files quickly. Its internal 80 GB hard disk provides a large buffer when printing large files.
- HP Designjet T1120 Printer series with HP Jetdirect networking, including IPv6 and Gigabit Ethernet, supports high-speed printing and work team productivity. You can also change print job priorities and reprint copies efficiently with the Job Center and HP's embedded Web server.

### Avoid downtime with dependability, compatibility

- Easily connect to operating systems and applications thanks to HP-GL/2.
- Print right the first time with Original HP printing materials and HP Professional Color technologies ensure colors on the printed page match the colors on your screen.



HP Jetdirect 630n IPv6 Gigabit Print Server



Job Center in HP Embedded Web Server

(1) Mechanical printing time on plain media in Fast mode with Economode on.

(2) ±0.1% of the specified vector length or ±0.1 mm (whichever greater) at 73° F (23° C), 50–60% relative humidity, on E/A0 printing material in Best or Normal mode with HP Matte Film.



"We also tend to print large engineering drawings and the T1120 Printer series is very fast and very accurate; we can do half size cars with complete line detail for the engine transmission, internal sheet metal work, and the like."

David M. Ancona, Designer Volvo Car Corporation






# HP Designjet **Graphics/Photo** Printers

## Create your digital difference with HP

HP digital printing solutions, combined with your skill set, provide the effective way to build your digital difference, enabling graphic arts professionals of all kinds to...

**Do more, do it differently, and do it better.**

Product	For	Who needs	We offer	Volume
 <p><b>HP Designjet 90/130</b></p>	<p>Graphic designers, digital fine artists, and professional photographers</p> <p>AEC and CAD small office/home office and students</p> <p>Small and medium retail companies</p> <p><b>Personal use and small studios and departments</b></p>	<p>Affordable photo quality prints</p> <p>Size and media flexibility</p> <p>Ease of use</p> <p>Compact LF printer</p>	<p>Photo-quality images</p> <p>Fast color stability</p> <p>HP Vivera dye-based inks</p> <p>4 different media paths for maximum media flexibility, including up to C/A2 size tray and automatic roll-feed capability</p> <p>RGB ICC profiles support</p> <p>Desktop size</p>	Low
 <p><b>HP Designjet Z2100</b></p>	<p>Graphic designers, professional photographers, and pre-press professionals</p> <p>Industrial designers, GIS specialists, CAD and AEC professionals</p> <p>Medium and large retail companies</p> <p><b>Personal use and medium size studios and departments</b></p>	<p>High-quality, fade-resistant prints with true neutral grays and smoother transitions</p> <p>Broad color gamut</p> <p>Compliance with pre-press standards</p> <p>Color consistency</p> <p>Wide range of media</p> <p>Simple operation</p> <p>Seamless integration into their workflows</p>	<p>HP Vivera pigment inks deliver an unmatched combination of outstanding image quality and over 200 years print permanence on a range of HP media<sup>(1)</sup></p> <p>8 pigment inks with HP Three-black ink set and replaceable printheads</p> <p>Over 70 Original HP media substrates</p> <p>Build-in spectrophotometer</p> <p>Automatic media profiling</p> <p>Supports a range of commercially available proofing RIPs</p>	Low to medium
<p><b>HP Designjet Z3200</b> <b>HP Designjet Z3200ps</b></p>	<p>Graphic designers, professional photographers, fine arts and pre-press professionals</p> <p>Industrial designers</p> <p>Photo and fine art print service providers</p> <p>Medium and large retail companies</p> <p><b>Personal use and medium size studios and departments</b></p>	<p>High-quality, fade-resistant prints with true neutral grays and smoother transitions</p> <p>Color color gamut</p> <p>Compliance with pre-press standards</p> <p>Color consistency</p> <p>Wide range of media</p> <p>Simple operation</p> <p>Seamless integration into their workflows</p> <p>Gloss uniformity</p>	<p>HP Vivera pigment inks deliver an unmatched combination of outstanding image quality and over 200 years print permanence on a range of HP media<sup>(1)</sup></p> <p>12 pigment inks with gloss enhancer, HP Quad-black ink set, chromatic red ink, and replaceable printheads</p> <p>Over 70 Original HP media substrates</p> <p>Build-in spectrophotometer</p> <p>Automatic media profiling</p> <p>Supports a range of commercially available proofing RIPs</p>	Low to medium
<p><b>Only HP Designjet Z3200ps</b></p> 	<p>Low-volume PSP</p> <p>Graphic design studios, professional photographers and fine arts professionals</p>	<p>Ease-of-use</p> <p>Workflow integration</p> <p>Language support</p>	<p>Direct PostScript and PDF support</p> <p>The embedded Adobe PS/PDF RIP (PostScript 3, PDF 1.6, fully Acrobat 7 compatible) and PostScript driver give you optimum network capability and color management</p> <p>The Z3200ps expands the Z3200 capabilities to include job submission, nesting, queuing, and permanent storage of files</p> <p>HP Professional PANTONE Emulation</p> <p>HP Advanced Profiling Solution</p>	Low to medium

(1) Display permanence rating for interior displays/away from direct sunlight, under glass by HP Image Permanence Lab and/or by Wilhelm Imaging Research, Inc. on a range of HP media.



# HP Technology

## For Designjet Graphics/Photo Printers

### Get exquisite prints with HP Vivera professional inks

HP Vivera pigment inks are formulated to deliver exceptional image quality, permanence, and durability across a broad media set. When combined with HP media, Vivera pigment inks offer display permanence of over 200 years.<sup>(1)</sup>

HP's proprietary Electrosteric Encapsulation Technology optimizes the pigment chemistry and ink properties for stability and performance to ensure a wide color gamut, print permanence, excellent gloss uniformity, and reliable, accurate, consistent printing.

#### 8-ink and 12-ink printing system with HP black ink sets

Additionally, the HP Designjet Z2100 and Z6100 series offer an 8-ink printing system while the HP Designjet Z3200 Photo Printer series offers 12 pigment inks. The 8-ink printing systems use the HP Three-black ink set with Light Gray, Matte Black, and Photo Black inks. The 12-ink printing system adds gray for a Quad-black ink set as well as HP gloss enhancer and a chromatic red ink. See 8 and 12 ink printing system chart for details. The Designjet Z3200 also incorporates HP Multi-Color Separation Technology – a method for separating CMYK or RGB inputs into 12 inks. These inks deliver an exceptionally broad color gamut for photographic and graphic art applications, superb neutral tones, and deep blacks on matte, glossy, semi-gloss, and fine art papers.



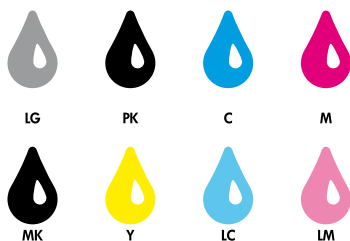
- Digital Fine Art (DFA)
- Photography
- Proofs
- Photorealistic images
- Full color maps
- Signage

vivera  
HP INKS

<sup>(1)</sup> Display permanence rating for interior displays/away from direct sunlight, under glass by HP Image Permanence Lab and/or by Wilhelm Imaging Research, Inc. on a range of HP large-format media.

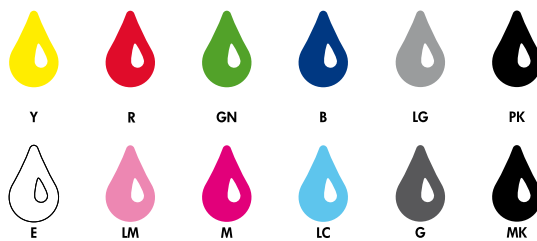
#### 8-ink printing system

HP Designjet Z2100 Photo Printer series  
HP Designjet Z6100 Printer series



#### 12-ink printing system

HP Designjet Z3200 Photo Printer series



### The standout color your customers want every time with HP DreamColor Technologies

HP DreamColor Technologies is a new set of color sciences that makes it possible to give your clients the colors they expect and present your ideas as you envision while saving you time and money. The new system helps you more accurately match color to the original—display, printer, press—and produce true spot color prints and proofs. When you use HP DreamColor Technologies, you can achieve consistent color, even across different printers or different presses and on a wide variety of media. You can also speed turnaround time and lower production costs thanks to the seamless interaction between applications and devices.



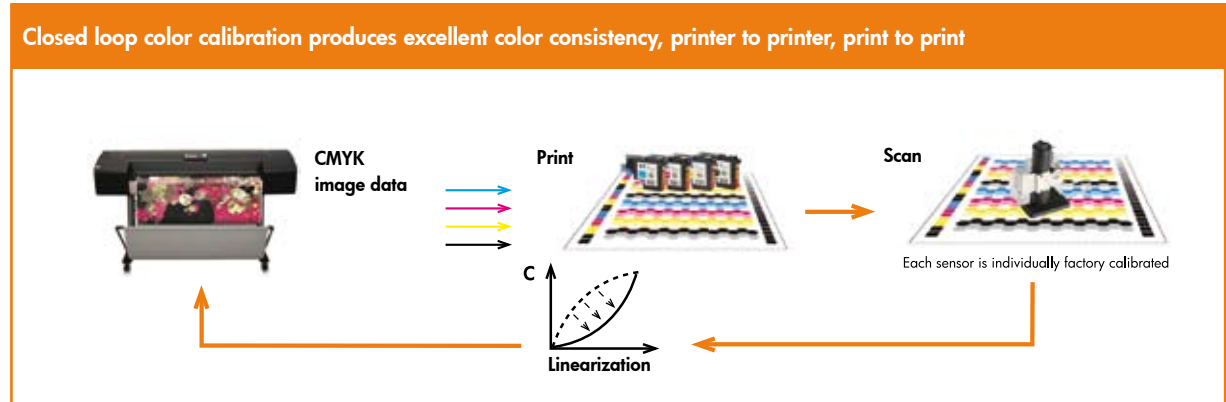
**Accurate color**  
**Predictable color**  
**Easy, automated color**

In order to precisely maintain color from display through printing, HP DreamColor Technologies is built into the following collection of applications and devices:

**Automatic closed loop color calibration**

Using automatic closed loop color calibration processes, HP Designjet printers can ensure accurate and consistent color reproduction from printer-to-printer and print-to-print. A

narrow-band LED light source is used to illuminate primary color tiles. The reflected light is measured by a color sensor and adjustments, based on the measurements, are made to the amount of primary ink used.



**HP Embedded Spectrophotometer and software**

The HP Embedded Spectrophotometer is mounted on the printer carriage of the latest HP Designjet Z Printer series, self calibrates, and is powered by X-Rite™ technology. It features a built-in white calibration tile, protected by an automatic shutter, which assures reliable, media-independent measurements that are traceable to international standards.

The HP Embedded Spectrophotometer allows you to automatically generate custom ICC profiles for your preferred paper and calibrate the printer to deliver consistent results—print-to-print and printer-to-printer.



HP Embedded spectrophotometer and software

**HP Professional PANTONE® Emulation**

There are times when you need to match the emblem of a municipality or maintain the brand and logo colors of a client.

With HP Professional PANTONE® Emulation capability, you get broad color gamut and accurate spot-color proofing with a colorimetric match up to 95% of PANTONE® colors.<sup>(1)</sup>

(1) HP's preliminary, internal testing (PANTONE approval pending) have shown that HP Designjet Z3200 Photo Printers achieves 95% coverage of PANTONE MATCHING SYSTEM® and PANTONE Goe™ System. Please visit [www.hp.com/go/Z3200/PANTONE](http://www.hp.com/go/Z3200/PANTONE) for final results. Other HP Designjet Z Photo Printer series are capable of successfully simulating over 75% of the PANTONE colors.

**Working with partners**

**Adobe Photoshop CS3 Improved Printing Experience**

Avoid double color management when using Adobe Photoshop CS3 Improved Printing Experience—co-developed by HP—for both Mac and Windows Vista. Check [www.hp.com/go/Z3200/solutions](http://www.hp.com/go/Z3200/solutions) for more details on the exact configurations supported.

# HP Designjet 130 Printer series

**HP Designjet 90** Photorealistic | GIS/Maps | POP/Retail | Business graphics | Posters | DFA/Photography

**HP Designjet 130** Presentation panels/Bids | Photorealistic | Renders | GIS/Maps | POP/Retail | Posters | DFA/Photography



**Focus on your creativity and present your ideas with convincing colors and fade-resistant photo-image quality**

Size			
HP Designjet 90	sheet: C+/A2+ - 24 in / 18 x 457 x 610 mm	roll: 18 in / 457 mm	
HP Designjet 130	sheet: D+/A1+ - 36 in / 24 x 610 x 914 mm	roll: 24 in / 610 mm	
Ink	Resolution	Line accuracy	Technology
6	2400 x 1200 dpi	+/- 0.2%	HP Thermal Inkjet
Media handling		Connectivity	
Sheet feed, roll feed with automatic cutter (optional)		USB 1.1 (USB 2.0 compliant), Centronics parallel IEEE1284 (ECP compliant), 1 EIO slot	
HP Designjet 90		HP Designjet 130	HP Designjet 130r
Q6656A		C7791C	C7791H
Graphic designers and professional photographers AEC and CAD small office/home office and students Small and medium retail companies		Graphic designers, DFA and professional photographers AEC and CAD small office/home office and students Small and medium retail companies	

### Experience professional color

- HP Vivera inks deliver a wide range of colors, deeper blacks, minimal dot visibility, continuous tones, and gloss uniformity.
- See reliable, consistent color from print to print.
- Choose from a wide range of Original HP printing materials designed together with the printer for consistently outstanding results.
- Add the optional EFI software RIP to expand your printing options and enhance color accuracy.



### Live out your creativity

- Print high-quality images on B+/A3+ size media at four minutes per page in Normal mode.
- Increase your output options with multiple media-handling capabilities from cut-sheets to roll feed media with the optional Roll Feed accessory.
- HP Color Technologies such as PANTONE® emulation and CMYK+ will provide the edge to win more clients.



### Valuable time and cost savings

- Save time, money, and increase productivity by publishing professional color prints in-house - no need to outsource or tile and assemble.
- Cost-effective, individually replaceable HP ink cartridges and printheads maximize efficiency and provide reliable operation that minimizes user intervention and improves productivity.



*"The HP Designjet 130r printer is a fantastic printer that offers me new possibilities in photographic art installations. It is also an amazing tool that helps me gain more control over the whole creative process and gets me the exact results that I desire."*

Frank Le Petit, Photographic Artist, parisdyneytokyo

# HP Designjet Z2100/Z3200 Photo Printer series

## HP Designjet Z2100

GIS/Maps | Color drawings | Renders | Photorealistic | Presentation panels/Bids | Posters | DFA/Photography | Pre-press Proofing

## HP Designjet Z3200

Presentation panels/Bids | POP/Retail | Business graphics | Posters | DFA/Photography | Pre-press Proofing



**True creative expression: Get vivid, long-lasting quality thanks to 8 or 12 HP Vivera pigment inks printing systems**

Size	Ink	Resolution
24 in / 610 mm 44 in / 1117 mm	<b>Z2100</b> <b>Z3200</b>	8 12
2400 x 1200 dpi		
Line accuracy	Technology	
+/- 0.2% <sup>(1)</sup>	HP Thermal Inkjet	
Media handling	Connectivity	
Roll feed, sheet feed, automatic cutter	One 10/100Base-T Ethernet port (1000Base-T for ps models), one Hi-Speed USB 2.0 certified port, one EIO Jetdirect accessory slot	
HP Designjet Z2100		HP Designjet Z3200/Z3200PS
24 in / 610 mm		Q6675A
44 in / 1117 mm		Q6677A
Industrial designers, graphic designers, professional photographers and pre-press professionals, medium and large retail companies		DFA/ professional photographers, prepress and print service providers (PSP), graphic designers, large retail companies PostScript ready

(1) ±0.2% of the specified vector length or ±0.1 mm (whichever greater) at 73° F (23° C), 50-60% relative humidity, on E/A0 printing material in Best or Normal mode with HP Matte Film.

### Achieve consistent and accurate color with the HP Embedded Spectrophotometer<sup>(2)</sup>

- Calibrate the printer and begin delivering print-to-print and printer-to-printer color repeatability.
- The HP Embedded Spectrophotometer and an automated workflow bring simplicity and reliability

### Get vivid, long-lasting quality with HP Vivera pigment inks

- Water resistant prints resist fading for over 200 years.<sup>(3)</sup>
- Achieve exceptional, consistent results on a wide range of HP large-format media including photo papers, coated papers, banner and sign materials and other specialty media that's ideal for point-of-sale, tradeshow displays and more.
- The Designjet Z3200 Photo Printer with its 12-ink printing system, including HP chromatic red ink, offers a broad gamut coverage with up to 95% PANTONE® coverage<sup>(4)</sup>, and full compliance with prepress standards: SWOP, ISO, etc. Its HP Gloss Enhancer provides superior gloss uniformity minimizing bronzing when used on glossy and semi-gloss photo papers.

### Print with greater confidence

- Expect always-on quality with proactive automatic servicing routines that result in great ink efficiency<sup>(5)</sup>
- Monitor the status of printers and supplies and get the latest updates with HP Printer Utility software.
- Dependable results with optical drop detection system that prevents nozzle clogging, and replaceable printheads.
- Rich, dark blacks on matte and glossy papers-and you don't have to swap cartridges.
- HP Embedded Web Server and other efficiency-enhancing features. In addition, in the Designjet Z3200 Photo Printer, embedded TIFF, JPEG, and Adobe PS3/PDF RIP-enables direct job submission, queuing, nesting capabilities<sup>(6)</sup> for a more efficient operation so you save time and money.



HP Embedded Spectrophotometer



HP Designjet Z2100: 8 inks



HP Designjet Z3200: 12 inks



*"The black and whites I printed are absolutely perfect. They're neutral in their grays, they have wonderful tonality and very, very heavy blacks (which I love)."*  
*"The results are remarkable: something I feel proud and confident about putting out in public in a museum."*

Thomas Hoepker, Magnum Photographer

(2) With i1 color technology.

(3) Display permanence rating for interior displays/away from direct sunlight, under glass by HP Image Permanence Lab and/or by Wilhelm Imaging Research, Inc. on a range of HP media. For details, see [www.hp.com/go/supplies/printpermanence](http://www.hp.com/go/supplies/printpermanence)

(4) HP's preliminary, internal results have shown that the HP Designjet Z Photo Printer series is capable of successfully simulating up to 95% of the PANTONE colors. HP Designjet Z2100 and Z3200 Photo Printers are pending PANTONE licensing.

(5) Based on internal HP testing, the HP Designjet Z3200 Photo Printer series utilizes at least 30% less ink during routine maintenance operations versus select printers from other vendors.



(6) HP Professional PANTONE Emulation, HP Advanced Profiling Solution, remote management, queue management, nesting, job submission and storage capabilities, and support for 16-bit TIFF and JPEG files are standard on HP Designjet Z3200PS Photo printers only. HP Advanced Profiling Solution is also available as an accessory for HP Designjet Z3200 Photo Printers.



# HP Designjet **Production** and **Department** Printers

## Fast turnaround high printing volumes with HP

HP Designjet line of Production and Department printers are designed for large departments and print service providers who want to produce high volumes of prints, high quality text, graphics, and short term signage with a fast turnaround time.

Product	For	Who needs	We offer	Volume
 <p><b>HP Designjet 4020</b></p>	<p>AEC, CAD, and GIS companies</p> <p>Newspapers and retail companies</p> <p><b>Medium and large departments</b></p>	<p>High number of prints per day and many users sharing the printer</p> <p>Remote printer management</p> <p>Secure integration in IT environment</p>	<p>Low cost per copy</p> <p>Enhanced networking functionality</p>	<p>Low to Medium</p> <p>(up to 400 prints/month)</p>
 <p><b>HP Designjet 4520</b></p>	<p>Large, AEC, CAD, and GIS enterprises with technical production</p> <p>Repro houses with non-stop centralized production environment</p> <p>Large retail companies</p> <p><b>Large departments</b></p>	<p>High number of prints per day and many users sharing the printer</p> <p>Remote printer management</p> <p>Secure integration in IT environment</p> <p>Unattended printing</p>	<p>Low cost per copy</p> <p>Enhanced networking functionality</p> <p>Heavy duty, unattended solution</p>	<p>High</p> <p>(more than 400 prints/month)</p>
 <p><b>HP Designjet Z6100</b></p>	<p>DFA/professional photographers with high productivity</p> <p>Enterprises, repro houses</p> <p>Big GIS, AEC, and CAD</p> <p>Large retail companies with high productivity</p> <p>Print service providers with high productivity</p> <p><b>Large agencies and departments</b></p>	<p>To reduce turnaround time and increase their print capacity</p> <p>High quality, permanent prints</p> <p>Consistent colors</p> <p>Expand their offering</p> <p>Unattended printing</p> <p>Respond faster to emergencies</p> <p>Simple and consistent operation during peak periods</p> <p>High quality, durable prints in the field</p>	<p>Speed - over 1076.3 ft<sup>2</sup>/hr (100 m<sup>2</sup>/hr)</p> <p>HP Vivera pigment inks deliver an unmatched combination of outstanding photo-image quality, water resistance, and over 200 years display permanence<sup>(1)</sup></p> <p>HP Three-black ink set produces true gray neutrality</p> <p>Media advance accuracy</p> <p>Over 70 Original HP media substrates</p> <p>Longer, heavier media rolls</p> <p>Build-in spectrophotometer</p> <p>Automatic media profiling</p> <p>Loading rack</p>	<p>Medium</p> <p>(from 50 to 400 prints/month)</p> <p>High productivity environments</p> <p>(more than 400 prints/month)</p>

(1) Water resistance ratings by HP Image Permanence Lab on a range of HP media. Display permanence rating for interior displays/away from direct sunlight by HP Image Permanence Lab, and by Wilhelm Imaging Research, Inc. on a range of HP media. For details: [www.hp.com/go/supplies/printpermanence](http://www.hp.com/go/supplies/printpermanence).

# HP Designjet Technology

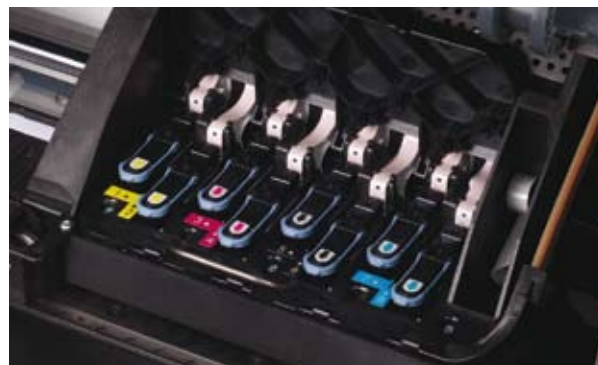
## For Production and Department Printers

### Twice the performance with HP Double Swath Technology

HP Double Swath Technology is an innovative writing system that doubles the number of printhead nozzles by placing them in a staggered formation. This staggering allows the printer to cover two print paths in one single pass, resulting in a faster print output. Highest print quality and product robustness are also secured thanks to an advanced platen design that features several innovative breakthroughs.

The total printing performance is influenced both by the mechanical printing speed and the time needed to process the data. The powerful hardware, along with built-in algorithms, can dramatically reduce the overall printing time. It significantly improves productivity, especially for large bitmap data such as visualizations or complex vector and bitmap files such as maps.

a method for separating CMYK or RGB inputs into 12 inks. These inks deliver an exceptionally broad color gamut for photographic and graphic art applications, superb neutral tones, and deep blacks on matte, glossy, semi-gloss, and fine art papers.



### HP Optical Media Advance Sensor

The new HP Designjet Z6100 Printer series presents the **HP Optical Media Advance Sensor** which provides direct optical measurement of media motion and delivers a breakthrough in accuracy over conventional encoder-based media advance systems.

Because the Optical Media Advance Sensor provides direct measurement of media advance, it is not affected by variations in media thickness, stiffness, and coefficient of friction between the media and media drive components.

For you, this means accurate line lengths and consistent quality in images, area fills, and line drawings over a wide range of temperatures and humidity conditions,<sup>1</sup> as well as a dependable consistent printer performance.



HP Optical Media Advance Sensor

### HP Embedded Web Server (EWS)

HP Embedded Web Server is a powerful remote management tool for managing jobs and cost accounting. It is operating-system independent; it simply requires a TCP/IP connection and a standard Web browser to access it.

You don't have to wait; you don't have to spend time wondering "Is it done? Has it finished printing? Is the printer ready? Is the right media loaded?" You have all this information at your fingertips, right on your desktop.

There are a number of smart remote features that the **HP Embedded Web Server** offers such as:

- **Queue management** – Remotely reset your print job priorities at any time. Its unified queue can place on hold HP-GL/2 and PS jobs at the same time, as well as JPEG and TIFF files, without losing already printed files.

- **Multi-file printing, job storage, and preview** – Increase your productivity and cost efficiency, making print management easier than ever before. Store jobs in the printer and output them again when needed – saving time.

The "print preview" features save you time and money, avoiding clipped prints and media errors.

- **Remote supplies status** – Avoid surprises, ensure uninterrupted printing, and easy on-line ordering. <sup>(2)</sup> E-mail alerts notify you when the printer needs your attention.

- **Accounting** – Easily determine supplies usage and cost of operation. With the Job Accounting feature, you can track what was printed, how much ink and paper were used for each print, and who printed each job. You can also export this information into an Excel spreadsheet or XML format.

- **Troubleshooting features** – Facilitate remote troubleshooting. Remotely trouble-shooting print jobs is simple with the help of extended troubleshooting and remote diagnostics.



(1) The HP Designjet Z6100 is rated for best print quality operation over 15 to 30 °C and 20 to 80% relative humidity.

(2) Program features and availability may vary by country. For more information, visit: [www.hp.com/go/designjet/supplies](http://www.hp.com/go/designjet/supplies)

# HP Designjet 4020/4520 Printer series

B&W line drawing | Color drawings | Presentation panels/Bids | Renders | GIS/Maps | POP/Retail | Business graphics | Posters | Newspaper proofing



Powered by HP Double Swath technology, the HP Designjet 4020/4520 Printer series offers high-speed color and black-and-white printing up to 42 in /1067 mm wide, complete with outstanding line accuracy, image quality, and remote printer management

Size	Ink	Resolution	Line accuracy	Technology
42 in /1067 mm	4	2400 x 1200 dpi	+/- 0.1% <sup>1</sup>	HP Thermal Inkjet
Media handling		Connectivity		
4020	Roll feed, sheet feed, automatic cutter	1 EIO slot, 1 Gigabit Ethernet (1000Base-T) port, 2 FireWire (IEEE 1394a-compliant), embedded Jetdirect (only 4500)		
4520	Two automatic rolls, automatic roll-switching, automatic cutter			
HP Designjet 4020		HP Designjet 4520		
4020	CM765A	4520	CM767A	
4020ps	CM766A	4520ps	CM768A	
Medium and large AEC, CAD and GIS departments Newspapers and retail companies		Large AEC, CAD and GIS enterprises with technical production and unattended printing Large retail companies		

<sup>1</sup> ±0.1% of the specified vector length or ±0.1 mm (whichever greater) at 73° F (23° C), 50-60% relative humidity, on E/A0 printing material in Best or Normal mode with HP Matte Film.

## Provides great possibilities to grow your business

- Double your print capacity and maximize productivity with HP Double Swath technology and 160 GB hard disk.
- Produce excellent lines and images with patented HP inks, printheads enabling 0.1% line accuracy<sup>1</sup>, HP Professional Color technologies, and Original HP printing materials.
- High-capacity 775-ml black, 400-ml color Original HP ink cartridges.
- No need for trimming; get ready-to-use prints with small margin printing.

## Trusted integration in your IT environment

- Trusted connectivity and security-with built-in Gigabit Ethernet networking, advanced access control, and optional HP Jetdirect support for secure IPsec and IPv6<sup>2</sup>. A Linux PS driver offers additional support for Linux users<sup>3</sup>.
- Manage your HP Designjet, fleet of devices, and your costs with HP Web Jetadmin and the embedded Web server.

## Unattended color production at low cost with the HP Designjet 4520 Printer series

- Two rolls to allow for different media types or sizes.
- Automatic roll switching.
- Long roll support up to 575 ft / 175 m.



HP Double-Swath technology



Small margins for ready-to-use prints  
0.1% line accuracy<sup>1</sup>



HP Designjet 4500 Stacker (optional)  
collects up to 200 D/A1 or E/A0 size plots

<sup>2</sup> IPsec and IPv6 support requires the purchase of the HP Jetdirect 630n or HP Jetdirect 635n.

<sup>3</sup> Available on the HP Designjet 4020ps and 4520ps Printers only. Support in English only.

*"The HP Designjet 4500 Printer series permits us to print jobs in-house. Before, it took us 7 hours to print 200 A1-size plots and now it only takes 3 hours. Also, we have more control and feel assured that the plot will be printed correctly. Printing inhouse gives us peace of mind."*

Carlos Chao, Information systems Manager, Dragados/Drace

# HP Designjet Z6100 Printer series

Color drawings | Presentation panels/Bids | Photorealistic | Renders | GIS/Maps | POP/Retail | Business graphics | Posters | DFA/Photography | Pre-press proofing



**The most productive large-format printer in its class - delivers vivid, high-impact prints**

Size	Ink	Resolution	Line accuracy
42 in /1067 mm 60 in /1524 mm	8	2400 x 1200 dpi	+/- 0.1% <sup>(1)</sup>

Technology	Media handling	Connectivity
HP Thermal Inkjet	Roll feed	One EIO slot, Gigabit Ethernet

HP Designjet Z6100		HP Designjet Z6100ps	
42 in /1067 mm	Q6651A	Q6653A	
60 in /1524 mm	Q6652A	Q6654A	

DFA/professional photographers and PSP with high productivity, large retail companies with high productivity, enterprises, repro houses, big GIS, AEC and CAD

(1) ±0.1% of the specified vector length or ±0.1 mm (whichever greater) at 73° F (23° C), 50-60% relative humidity, on E/AO printing material in Best or Normal mode with HP Matte Film.

### Shorten your turnaround times

- Easily print over 1000 ft<sup>2</sup>/hr (92.8 m<sup>2</sup>/hr) on plain paper in Fast mode and over 250 ft<sup>2</sup>/hr (23.2 m<sup>2</sup>/hr) on photo paper in Fast mode.
- Print at top speeds and still get great output results with the Optical Media Advance Sensor.
- Longer, heavier media rolls — up to 575 ft (175 m)/44 lbs (20 kg) and 775-ml cartridges for high productivity and overnight unattended printing.

### High-impact image quality and exceptional fade resistance<sup>(2)</sup>

- HP Vivera pigment inks with the Three-black ink set provide a wide color gamut and true neutral grays.
- Interior displays resist fading—in-window over 1 year unlaminate, over 3 years laminated; over 200 years away from direct sun.<sup>(2)</sup>
- Print on a wide range of media and choose from over 50<sup>(3)</sup> Original HP media substrates for a broad set of applications.
- HP's innovative printhead design; small drop sizes enable high-quality, high-speed production-volume printing.

### Breakthrough color accuracy with HP DreamColor Technologies

- Get consistent and accurate color print-to-print and printer-to-printer and automatic, simple creation of ICC profiles with HP Embedded Spectrophotometer. Eliminate outsourcing costs and delays.
- HP Color Center tool effortlessly guides you through color management and printing.<sup>(4)</sup>



HP Optical Media Advance Sensor



HP Vivera inks with the Three-black ink set



HP Embedded Spectrophotometer

(2) Water resistance and interior in-window display ratings by HP Image Permanence Lab on a range of HP media. HP interior in-window predictions based on test data under Xenon-Arc illuminant-for fine arts and photo papers data collected by Q-Lab Corp; for sign and banner media based on test data for similar ink/media combinations; calculation assumes 6,000 Lux/12 hr day. Display permanence rating for interior displays/away from direct sunlight by HP Image Permanence Lab, and by Wilhelm Imaging Research, Inc. on a range of HP media. For details: [www.hp.com/go/supplies/printpermanence](http://www.hp.com/go/supplies/printpermanence)

(3) Not all media are available in all regions.

(4) For HP Designjet Z6100ps only.



*"The Z6100 allows me to produce multiple projects in any given day; I don't have to spend time scheduling- I can do other things like ordering inventory and, you know, creating really cool graphics."*

Laura Humbrecht, Production Manager, Digital Pond



# HP Designjet Multifunction Printers

	HP Designjet T1120 SD-MFP	HP Designjet T1120 HD-MFP	HP Designjet 4520 HD-MFP
<b>FOR</b>			
<b>WHO NEEDS</b>	Small and large-size corporations (Internal planning & construction department, design department,...)	GIS (Government, military, utilities, transportation, natural resources,...) Copy-shops and Quick-printers	Repro-houses Technical production environment
<b>WE OFFER</b>	<ul style="list-style-type: none"> <li>• Basic features and operation</li> <li>• Line definition and readability</li> <li>• Efficient sharing</li> </ul>	<ul style="list-style-type: none"> <li>• Versatility and high-quality output/ high-quality legacy scanning</li> <li>• Ease of use</li> <li>• Ability to integrate in complex connectivity workflow</li> </ul>	<ul style="list-style-type: none"> <li>• Versatility and high-quality output</li> <li>• Fast turnaround time</li> <li>• Unattended printing and low cost per copy</li> </ul>
<b>VOLUME</b>	Integrated technical color MFP	Integrated, versatile color MFP	High performance color production system
	Low volume (up to 1,7 m <sup>2</sup> /y, less than 19K ft <sup>2</sup> /y)	Low to medium volume (up to 2.3K m <sup>2</sup> /y ,up to 25K ft <sup>2</sup> /y)	Medium to high volume (up to 2.3K m <sup>2</sup> /y, 25K to 150K ft <sup>2</sup> /y)
			<ul style="list-style-type: none"> <li>• HP Designjet 4520 Scanner included in the box and also sold separately</li> <li>• HP Designjet 4500 Stacker sold as an optional accessory</li> </ul>



	HP Designjet T1120 SD-MFP	HP Designjet T1120 HD-MFP	HP Designjet 4520 HD-MFP
<b>Scan technology</b>	CIS		CCD
<b>Optical resolution</b>	1200 dpi		508 dpi
<b>Max. resolution</b>	9600 dpi		9600 dpi
<b>Speed defined at</b>	200 dpi		400 dpi Turbo
<b>Color speed</b>	1.5 in/sec (38.1 mm/sec)*	2 in/sec (51 mm/sec)	3 in/sec (80 mm/sec)
<b>B&amp;W speed</b>	5 in/sec (127 mm/sec)*	6 in/sec (152 mm/sec)	10 in/sec (250 mm/sec)
<b>Max. scan width</b>	44 in (1118 mm)		42 in (1067 mm)
<b>Thick media</b>	No		Yes
<b>Scan-to-network</b>	Yes		Yes
<b>Scan-to-JPG/PDF/DWF</b>	Yes		Yes
<b>Printer status in scanner SW</b>	Yes		Yes
<b>System security</b>	High		High
<b>Full HP solution</b>	Yes		Yes
<b>Touchscreen</b>	9 in (23 cm)		15 in (38 cm)

\* Using a 36 inch original

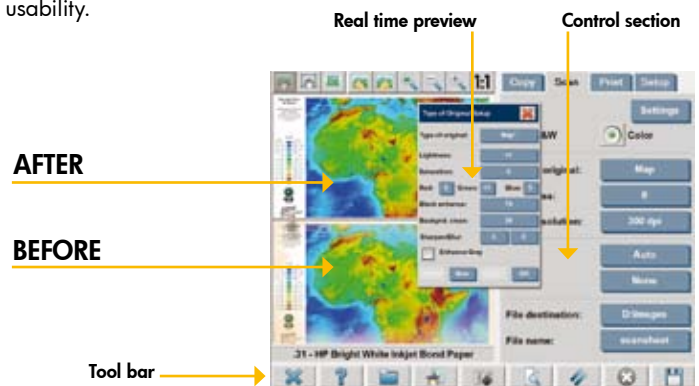
# HP Designjet Technology For Multifunction Printers

## Scanning Technologies

	Line & text quality	Image detail & grain	Old drawings & wrinkles
<p><b>CIS</b> Higher resolution sensor allows better text and line definition.</p> <p>HP Designjet T1120 SD-MFP</p>			
<p><b>CCD</b> Wider gamut and better visibility of details in images. More depth of focus for better results on previously folded/old documents.</p> <p>HP Designjet T1120 HD-MFP HP Designjet 4520 HD-MFP HP Designjet 4520 Scanner</p>			

## Touchscreen many features ensure greater control over the final output

HP Multifunctional devices come with a 9 in (23 cm) or 15 in (38 cm) touchscreen display, designed for greater usability.



HP Designjet T1120 HD-MFP

## Intuitive, easy to use software

HP Multifunctional printers are equipped with easy-to-learn software that guides you as you are using it. Even untrained users can easily master operation to immediately copy, scan, and print.

Boost your productivity with software features such as:

- Scan-to-network built-in. A built-in DVD writer lets you scan, save, and store files smoothly and easily.
- Scan-to-DWF or save your scans in PDF, TIFF, and JPEG/JPG2000.
- Straight printing of a scanned PDF.
- Batch scanning auto-naming.
- Background cleaning options improves the quality of damaged or weathered originals, saving time and cost in the process.
- Modernized look and feel of user interface.



# HP Designjet T1120 SD-MFP

Large-format scans | B&W and color copies | B&W line drawings | Color drawings | Presentation panels/Bids | Renders | GIS/Maps | POP/Retail | Business graphics | Posters | Newspaper proofing



## New affordable, easy-to-use integrated HP MFP

### Scan

Speed	Technology
<b>Color:</b> (200 dpi): 1.5 in/sec (38 mm/sec) <b>Black-and-white:</b> (200 dpi): 5 in/sec (127 mm/sec)	CIS
Maximum scan width	Maximum scan thickness
42 in / 1067 mm	0.04 in/1 mm

### Copying

Reduction/Enlargement	Maximum copies	Copy resolution
25 to 400%	50	<b>Best mode</b> Color and black-and-white: 400 dpi
<b>HP Designjet T1120 SD-MFP</b>		
CM719A		
Small and medium size business		

### Fast, intuitive operation improves user efficiency

- Copy to a local printer and scan to a USB device or network from the scanner touchscreen interface.
- Self-sufficient scanner that does not require calibration at installation. LED lights help you to diagnose any issues.
- You're in total control with a new HP MFP that's easy to manage thanks to the HP Embedded Web Server.
- Timesaving features, such as a CIS scanner that doesn't require a warm-up period.

### Superior line and text quality at the right price

- HP Vivera inks deliver outstanding details-with 0.1% line accuracy<sup>(1)</sup>. The HP Three-black ink set—including a gray HP Vivera ink—produces true neutral gray, accentuating the detail in your prints. Choose from a wide range of Original HP printing materials.
- High-quality results—especially for lines and text—with CIS scanning technology and 1200 dpi optical resolution. Scan or copy archived documents of existing buildings or “as-build” drawings.
- Use predefined media profiles and setting for the type of original (line drawings, renders, etc.) that you use most often.

### Dependable, unique integrated HP solution

- In-printer processing architecture and an 80 GB HDD.
- Convenient single-vendor solution—built together to work together.
- Save valuable workspace. A 9 in (23 cm) touchscreen panel on top of the scanner, creates additional room in your office.

(1) ±0.1% of the specified vector length or ±0.1 mm (whichever greater) at 73° F (23° C), 50-60% relative humidity, on E/A0 printing material in Best or Normal mode with HP Matte Film



Copy to local printer and scan to USB or network from the scanner touchscreen interface



*“Color copying and scanning of plans in-house saves us about 40 hours a month. We get high-quality, large-format scans in minutes instead of hours when outsourcing.”*

Manuel Navarro, Head Designer at Santa-Cruz Arquitectos

# HP Designjet T1120 HD-MFP

Large format scans | B&W and color copies | B&W line drawings | Color drawings | Presentation panels/Bids | Renders | GIS/Maps | POP/Retail | Business graphics | Posters | Newspaper proofing



## Fast, versatile HP MFP for professional results

Scan		
Speed	Technology	
Color (200 dpi/400 dpi Turbo): 2 in/sec (5.1 cm/sec) Black-and-white (200 dpi/400 dpi Turbo): 6 in/sec (15.2 cm/sec)	CCD	
Maximum scan width	Maximum scan thickness	
42 in /1067 mm	0.6 in /15 mm	
Copying		
Reduction/Enlargement	Maximum copies	Copy resolution
1 to 10,000%	1000	<b>Best mode</b> Color and black-and-white: 300 dpi
<b>HP Designjet T1120 HD-MFP</b>		
CK841A		
IT Managers, GIS Practitioners and Copy-shops		

### Superior copy, scan, and print results

- HP Vivera inks with the Three-black ink set produce a wide range of colors and fine detail.
- Choose from a wide range of Original HP printing materials designed together with the printer for consistently outstanding results.
- Get the highest level of quality—from line drawings to maps to posters—with CCD scanning technology and embedded PS.
- Scan and archive older—including previously-folded—documents and save space.

### Performs 3 functions in 1-quickly and effectively

- Print A1 (D)-sized documents in just up to 35 seconds per page.<sup>(1)</sup>
- Batch scanning and printing. Collating and nesting features when copying.
- Print with confidence with an 80 GB HDD and embedded PS.
- Copy, scan, and print functions-with a range of effective management tools via the printer's embedded Web server and the accounting feature in the scanner.
- Copy documents directly to most other HP Designjet printers thanks to preconfigured drivers in the scanner.

### Do more with a unique integrated HP solution

- Convenient single-vendor solution-built together to work together.
- Save valuable workspace.
- Real time preview and retouch software. Adjust and retouch the color in scanned documents with this MFP's color management tools, including a background cleaning option.



Background cleaning feature improves copying quality of damaged documents

(1) Mechanical printing time on plain media in Fast mode with Economode on.

**Barcelona will be the world Internet capital in May 2004**

Barcelona From May 10-14 2004, will be home to the most internationally important Internet event: the joint hosting of the Internet Society's INET and the Internet Global Congress. IGC 2004 will therefore be much more than the sixth year of the leading event for the ITC sector in Spain. The date in 2004 will beco-

**The final countdown begins**

Forum ticket sales exceed the 100,000 expected during Christmas campaign



Thursday, January 1, the final countdown for the inauguration of the Universal Forum of Cultures begins. With just 129 days to go, the Forum is putting the finishing touches to its program of activities. The year of the Forum has begun. There are now only four months left until the Universal Forum of Cultures - Barcelona 2004 opens its doors on May 9, 2004. During those

OPINION: 2

*Pay homage to Catalonia and reap the benefits*

JOHN MCTERNAN

INTERVIEW: 6

*"Life has another dimension for me"*



# HP Designjet 4520 HD-MFP

# HP Designjet 4520 Scanner

B&W line drawings | Color drawings | Presentation panels/Bids | Renders | GIS/Maps | POP/Retail | Business graphics | Posters | Newspaper proofing



## Ideal for color production and unattended printing

### Scan

Speed	Technology
Color: (200 dpi): 3 in/sec (76 mm/sec) Black-and-white: (200 dpi): 10 in/sec (254 mm/sec)	CCD
Maximum scan width	Maximum scan thickness
42 in / 1067 mm	0.6 in / 15 mm

### Copying

Reduction/Enlargement	Maximum copies	Copy resolution
1 to 10000%	1000	300 x 300 dpi
HP Designjet 4520 HD-MFP	HP Designjet 4520 Scanner*	
CM769A	CM770A	
Enterprise and public sector with large departments Repro houses printing non-stop in a centralized production environment		

\* HP Designjet 4520 Scanner comes as standard with HP Designjet 4520 HD-MFP

### Unattended color production at low cost

- Long media rolls up to 575 ft (175 meters) and reliable 775-ml black, 400-ml color Original HP ink cartridges.
- HP Double Swath technology and 160 GB hard disk.

### Provides great possibilities to grow your business

- Produce excellent lines and images with patented HP inks, printheads enabling 0.1% line accuracy<sup>(1)</sup>, and HP Professional Color technologies.
- Choose from a wide range of Original HP printing materials designed together with the printer for consistently outstanding results.
- Expand your business with high performance copy and scan capabilities<sup>(2)</sup>.

### Trusted integration in your IT environment

- Trusted connectivity and security-with built-in Gigabit Ethernet networking, advanced access control, and optional HP Jetdirect support for secure IPsec and IPv6<sup>(3)</sup>. A Linux PS driver offers additional support for Linux users.
- Manage your HP Designjet, fleet of devices, and your costs with HP Web Jetadmin and the embedded Web server.



HP large black ink cartridge (775 ml)



HP long media roll up to 575 ft / 175 m

(1) +/-0.1% of the specified vector length or +/-0.1 mm (whichever greater) at 73° F (23° C), 50-60% relative humidity, on E/A0 printing material in Best or Normal mode with HP Matte Film.  
 (2) The HP Designjet 4520 Scanner comes standard on the HP Designjet 4520 HD-MFP. It is an optional (not included, sold separately) accessory on the HP Designjet 4520 and 4520ps printers.  
 (3) IPsec and IPv6 support requires the purchase of the HP Jetdirect 630n or HP Jetdirect 635n.



*"The stacker has enabled us to produce up to 250 sheet jobs without having someone attending the machine constantly. We're able to produce work overnight or on shifts where we just need to have an operator go in and check on occasion without having someone constantly with the machine. That's important before I run split shifts and in my second shift a lot of multi-tasking is going on."*

John Duke, Production Manager, Entire Imaging Solutions

HP introduces new solutions designed to increase productivity, reduce costs and deliver high-quality results to help you capture more business.

## HP Instant Printing Utility 2.0

HP is transforming large-format printing with HP Instant Printing, an innovative technology that delivers a radically simple printing experience combining ease of use with high-quality results. The enhanced HP Instant Printing Utility 2.0 provides additional features and is even more in sync with the way you work. Whether you are printing a design in PDF, a poster created in PowerPoint, or reprinting a stored CAD drawing HP-GL/2 file, you can handle several files together—not separately, but as a project.

Simply:

- **Select** your files in Windows® Explorer
- **Right-click** HP Instant Printing Utility 2.0
- **Print** to your HP Designjet printer

For more information and to download a free copy, please visit:

[www.hp.com/go/hpinstantprintingutility](http://www.hp.com/go/hpinstantprintingutility)



## Serif PosterDesigner Pro for HP

This software solution tailored for HP printers gives you all the design power you need to achieve high-quality posters and banners to inform, educate and promote on a new and larger scale. With an intuitive interface, professionally designed templates and a wide range of tools and effects, Serif PosterDesigner Pro for HP achieves superb results quickly, easily and reliably. For optimum results, use Original HP printing materials.

For more information, to download the free trial version or to purchase the full version of the software, please visit: [www.hp.com/go/PosterDesignerPro](http://www.hp.com/go/PosterDesignerPro)



## SCP reprocontrol for HP

Flexibly automate, standardize, and manage color consistently within your workflow using SCP reprocontrol for HP. This gives you more control and helps reduce print costs, increase productivity, enables new services to be offered helping you increase your profits.

The easy-to-use interface allows you to automate print settings, easily handle mixed print jobs, and remotely manage file submission and configurations. Quick preflight preparation helps you reduce costly printing errors and save ink and paper. SCP reprocontrol for HP supports unlimited job capacity, collated set printing, and print queue job monitoring, along with all major file formats such as HP-GL/2, PDF, DWF, and raster files.

For more information, please visit: [www.hp.com/go/reprocontrol](http://www.hp.com/go/reprocontrol)



## HP Accounting Excel Tool 2.0

Remotely view and create advanced usage tracking reports with HP Accounting Excel Tool 2.0.

This updated tool helps you track usage information using a wide variety of criteria including supplies, media, user information, account information and the types of print jobs. This versatility makes it easy for administrators to invoice or cross-charge departments, projects or clients at periodic intervals for the correct amount of printer usage.

For more information, please visit: [www.hp.com/go/designjet/accounting](http://www.hp.com/go/designjet/accounting)

# Original HP Large-format media

## Designed together for optimal results

HP Designjet printers, Original HP large-format media, and HP ink formulations are designed together to ensure uncompromising image quality, consistency, performance, print permanence, durability, and value with every print.

## Original HP large-format printing supplies

Original HP Designjet ink cartridges and printheads are developed to work with HP Designjet printers and HP large-format printing materials to provide reliable, trouble-free printing in supplies that are easy to buy, manage, and use. Original HP large-format ink formulations and printing supplies are designed to meet the needs of Graphics Arts professionals from AEC, GIS, and MCAD professionals to professional photographers, graphic designers and Print Service Providers. HP Viverra pigment inks deliver an unmatched combination of outstanding image quality, water resistance, and exceptional fade resistance.<sup>(1)</sup> Patented dye-based color and pigment-based black Original HP inks produce sharp, accurate line diagrams and photo-quality images.

HP Designjet printing supplies innovations include intelligent technology—built into HP ink cartridges and printheads—that communicates with the printer to enable features that save time and increase productivity. For example, proactive alerts let you know when supplies are low to help you avoid workflow interruptions. High-volume ink cartridges, long-life printheads, Value Packs and 3-ink Cartridge Multipacks deliver uncompromising image quality along with printing economy.

Get great results every time when you use HP Designjet printers with Original HP ink formulations, ink cartridges, and large-format printing materials.

Together, HP large-format media and inks provide reliable, trouble-free printing for less printer downtime and increased productivity.

## Original HP Large-format Media

Original HP Large-format Media is more than just paper. It's a technological innovation, using advanced HP-engineered coatings to take the guesswork out of consistently brilliant printing. The complete HP Designjet printing system—large-format printers, HP ink formulations, printing supplies, and printing material—is custom designed to deliver exceptional quality and consistent results at a competitive price.

Whether you're looking to produce photo enlargements, fine art exhibits, outdoor or indoor signage, backlit displays, or CAD designs, HP has it all. In fact, HP offers one of the broadest printing material portfolios specifically designed to meet the demands of graphics and technical professionals—from satin or gloss photo papers and a variety of fine art papers to scrim, vinyl and backlit materials, and technical films. Whatever your printing need, HP has an option.

With so many choices, look no further than HP for all your large-format printing material needs.

(1) Image permanence estimates by HP Image Permanence Lab based on testing on a range of HP media. For more information visit [www.hp.com/go/designjet/supplies](http://www.hp.com/go/designjet/supplies).

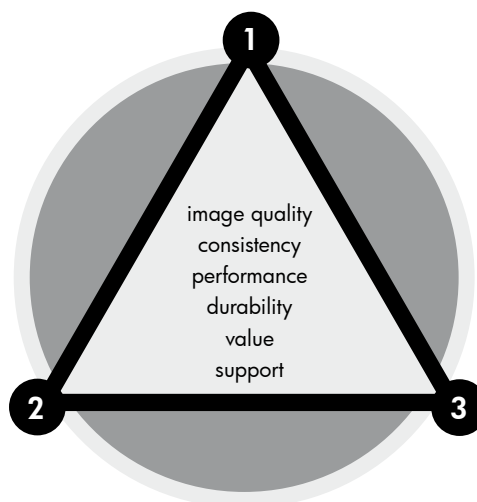
## The HP printing system

HP printers, HP ink formulations and printing supplies, and HP printing materials are designed and engineered to work together as a single printing system, providing exceptional print quality and reliability—print after print. HP supplies are exceptionally consistent—meaningless downtime and increased productivity.

For more information, visit:







































[www.hp.com/go/designjet/supplies](http://www.hp.com/go/designjet/supplies)

- 1 HP printers
- 2 HP ink supplies
- 3 HP printing material



# Original HP Ink Cartridges

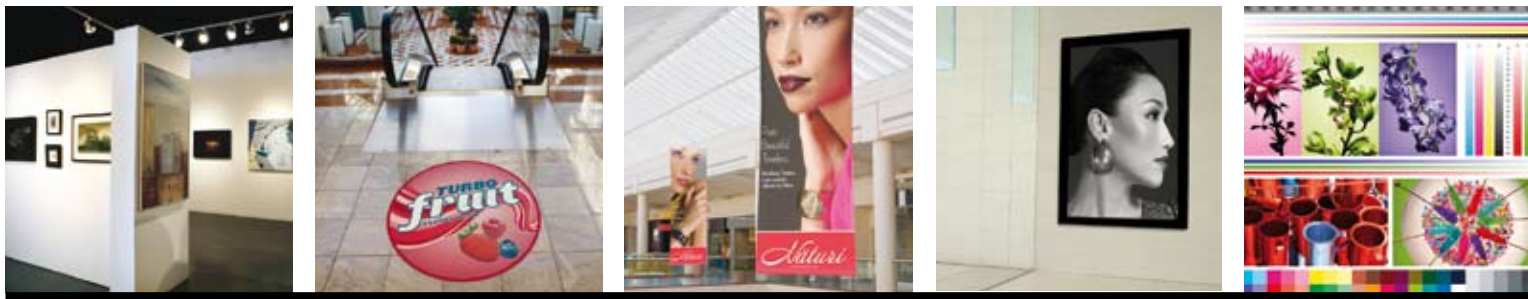
For more information on the entire portfolio of HP large-format ink supplies including ink cartridges, printheads, value packs and multipacks, please visit the HP Large-format Supplies Center website at: [www.hp.com](http://www.hp.com) or [www.hp.com/go/designjet/supplies](http://www.hp.com/go/designjet/supplies)

Product name	Product #	HP Designjet 70 Printer	HP Designjet 90 Printer series	HP Designjet T10plus Printer series	HP Designjet 130 Printer series	HP Designjet 510 Printer series	HP Designjet T610 Printer series	HP Designjet T1120 Printer series	HP Designjet 4020 Printer series	HP Designjet 4520 Printer series	HP Designjet Z2100 Photo Printer series	HP Designjet Z3200 Photo Printer series	HP Designjet Z6100 Printer series
HP 10 69-ml Black Ink Cartridge	C4844A	●	●	●									
HP 11 28-ml Cyan Ink Cartridge	C4836A	●	●										
HP 11 28-ml Magenta Ink Cartridge	C4837A	●	●										
HP 11 28-ml Yellow Ink Cartridge	C4838A	●	●										
HP 70 130-ml Matte Black Ink Cartridge	 C9448A										●	●	
HP 70 130-ml Photo Black Ink Cartridge	 C9449A										●	●	
HP 70 130-ml Gray Ink Cartridge	 C9450A											●	
HP 70 130-ml Light Gray Ink Cartridge	 C9451A										●	●	
HP 70 130-ml Cyan Ink Cartridge	 C9452A										●		
HP 70 130-ml Magenta Ink Cartridge	 C9453A										●	●	
HP 70 130-ml Yellow Ink Cartridge	 C9454A										●	●	
HP 70 130-ml Light Magenta Ink Cartridge	 C9455A										●	●	
HP 70 130-ml Red Ink Cartridge	 C9456A											●	
HP 70 130-ml Green Ink Cartridge	 C9457A											●	
HP 70 130-ml Blue Ink Cartridge	 C9458A											●	
HP 70 130-ml Gloss Enhancer Ink Cartridge	 C9459A											●	
HP 70 130-ml Light Cyan Ink Cartridge	 C9390A										●	●	
HP 72 69-ml Photo Black Ink Cartridge	 C9397A						●	●					
HP 72 69-ml Cyan Ink Cartridge	 C9398A						●	●					
HP 72 69-ml Magenta Ink Cartridge	 C9399A						●	●					
HP 72 69-ml Yellow Ink Cartridge	 C9400A						●	●					
HP 72 69-ml Gray Ink Cartridge	 C9401A						●	●					
HP 72 130-ml Matte Black Ink Cartridge	 C9403A						●	●					
HP 72 130-ml Photo Black Ink Cartridge	 C9370A						●	●					
HP 72 130-ml Cyan Ink Cartridge	 C9371A						●	●					
HP 72 130-ml Magenta Ink Cartridge	 C9372A						●	●					
HP 72 130-ml Yellow Ink Cartridge	 C9373A						●	●					
HP 72 130-ml Gray Ink Cartridge	 C9374A						●	●					
HP 73 130-ml Chromatic Red Ink Cartridge	 CD951A											●	
HP 82 69-ml Cyan Ink Cartridge	C4911A					●							
HP 82 69-ml Magenta Ink Cartridge	C4912A					●							
HP 82 69-ml Yellow Ink Cartridge	C4913A					●							
HP 84 69-ml Black Ink Cartridge	C5016A		●	●									
HP 85 28-ml Cyan Ink Cartridge	 C9425A		●	●									
HP 85 28-ml Magenta Ink Cartridge	 C9426A		●	●									
HP 85 69-ml Yellow Ink Cartridge	 C9427A		●	●									
HP 85 69-ml Light Cyan Ink Cartridge	 C9428A		●	●									
HP 85 69-ml Light Magenta Ink Cartridge	 C9429A		●	●									
HP 90 400-ml Black Ink Cartridge	C5058A								●	●			
HP 90 775-ml Black Ink Cartridge	C5059A								●	●			
HP 90 225-ml Cyan Ink Cartridge	C5060A								●	●			
HP 90 400-ml Cyan Ink Cartridge	C5061A								●	●			
HP 90 225-ml Magenta Ink Cartridge	C5062A								●	●			
HP 90 400-ml Magenta Ink Cartridge	C5063A								●	●			
HP 90 225-ml Yellow Ink Cartridge	C5064A								●	●			
HP 90 400-ml Yellow Ink Cartridge	C5065A								●	●			
HP 91 775-ml Matte Black Ink Cartridge	 C9464A												●
HP 91 775-ml Photo Black Ink Cartridge	 C9465A												●
HP 91 775-ml Light Gray Ink Cartridge	 C9466A												●
HP 91 775-ml Cyan Ink Cartridge	 C9467A												●
HP 91 775-ml Magenta Ink Cartridge	 C9468A												●
HP 91 775-ml Yellow Ink Cartridge	 C9469A												●
HP 91 775-ml Light Cyan Ink Cartridge	 C9470A												●
HP 91 775-ml Light Magenta Ink Cartridge	 C9471A												●



# HP Large-format Media Portfolio

HP offers one of the broadest media portfolios in the large-format printing industry, specifically designed to meet the demands of graphics and technical professionals.



## Original HP Large-format Media

For more information on the entire portfolio of HP Large-format Media, please visit the HP Large-format Supplies Center website at: [www.hp.com/go/designjet/supplies](http://www.hp.com/go/designjet/supplies)

### Ten product categories in the HP Large format Media Portfolio:

#### HP Bond and Coated Paper

For economical, high-quality printing with crisp, sharp text and lines choose HP Bond and Coated Paper. Specially engineered for high production environments and short term signage.

#### HP Technical Paper

Designed for architecture (AEC), mechanical drawings (CAD) and Geographic Information Systems (GIS), HP Technical Papers produce crisp black text, fine lines, and medium-density area fills.

#### HP Film (Technical and Graphics)

HP Films are optimized to provide sharp lines on plots for archiving, future multiple reproductions, and overlays. Graphic polyester films provide the ideal solution by producing sharp, vivid image quality when used with HP Designjet printers and Original HP inks.

#### HP Photographic Paper

The HP Photo Paper portfolio includes a variety of substrates for a broad range of applications from high-end fine art photography where quality is of utmost importance to photo enlargement, displays, and large format retail graphics that need to be handled right of the printer.

#### HP Proofing Paper

Use HP Proofing Papers to ensure color accuracy for professional looking comps prior to large-run printing.

#### HP Backlit Material

HP Backlit Materials are offered in both dye and UV ink-compatible products for illuminated backlit displays in indoor and outdoor locations.

#### HP Self-adhesive Material

HP Self-adhesive Materials offer a wide variety of products including coated paper, vinyl, polypropylene, and polyester films, as well as laminates for post-processing.

#### HP Banner and Sign Material

HP offers durable, weather resistant banner and sign material for a variety of applications from indoor and outdoor banners and pop-up displays to decorating indoor and outdoor signs.

#### HP Fabric and Textile Material

HP offers a range of textile materials that give movement to large-format prints and create a distinct look appropriate for indoor and outdoor uses in retail, trade show or banner applications.

#### HP Fine Art Printing Material

HP art papers and canvas materials are designed for art reproduction professionals and offer a wide range of color, texture, thickness, sheen, and durability.

# Reduce your environmental impact—and your costs

Going green is going mainstream and printing and imaging represents a huge opportunity for businesses to reduce their environmental impact. At HP, we are committed to helping our customers to reduce the environmental impact of their large format design printing—and reduce their costs—without compromising results.

When selecting a large-format design printing solution, there can be a significant difference between one that meets basic environmental regulations and standards and one that has really been designed with the environment in mind.

HP has a long-established commitment to environmental sustainability, and we take all of these aspects in mind when developing our HP Designjet printing solutions as part of the HP Eco Solutions program.

**Sustainable design** – Our global network of environmental product stewards works with design and development teams to incorporate environmental innovations into our products and to measure performance.

- **Energy and carbon footprint** – Most HP Designjet printers are ENERGY STAR® compliant<sup>1</sup> and include energy-saving features to reduce your overall carbon footprint.

- **Ink** – HP Designjet printers use water-based inks and, thanks to efficient installation and maintenance routines, waste so much less ink than comparable printers that it could save you hundreds of dollars or euros in the first year of operation alone.<sup>1</sup>
- **Recycling** – The HP Planet Partners program offers free and convenient recycling or responsible disposal of HP Designjet ink cartridges and printheads in more than 45 countries and territories around the world. In addition, HP has programs that allow you to return and recycle your HP Designjet printer when you are ready to upgrade to HP's latest technology.
- **Media** – HP Designjet printers include features to help you make the most efficient use of your media. Additionally, HP Recycled Bond Paper for large-format printing is made of 100% recycled base paper and is chlorine free.





## HP's Commitment to the Environment

Our efforts to reduce our impact on the planet are industry-leading as reflected in our holistic approach to product design, operational management, and recycling and reuse.

Our commitment is demonstrated in our carefully considered goals, such as reducing the combined energy consumption and associated greenhouse gas emissions of our operations and products by 25% below 2005 levels by 2010.



### Meeting Environmental Standards and Regulations

Global ISO 14001 certification of HP manufacturing facilities helps in establishing effective environmental management processes.

HP Designjet printers also conform to key internationally recognized environmental regulations and standards, including:

- RoHS and REACH – restrictions on the use of certain hazardous substances.
- ENERGY STAR<sup>®(2)</sup>

For more information, please visit:

[www.hp.com/ecosolutions](http://www.hp.com/ecosolutions)

(1) Based on competitive tests conducted by Hewlett Packard that model a representative usage scenario for the first year of operation. Ink waste and cost-savings estimate based on competitive test of HP Designjet 4500 Printer versus closest competitor available at the time the test was conducted, in 2008.

(2) HP Designjet printers which include an optional high definition scanner are an exception.



hit **PRINT**



© 2009 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

4AA17157ENA, May 2009