BLI BUYERS LAB

# Lab Test Report

*A Comprehensive BLI Laboratory Evaluation* | SEPTEMBER 2009

EUROPEAN EDITION

## Canon imagePROGRAF iPF750

Wide-Format Colour Inkjet Printer

BUYERS LABORATORY 2009 BLI HIGHLY RECOMMENDED LAB TESTED

| | |
|---|---|
| Reliability | Excellent |
| Ease of Assembly | Very Good |
| Ease of Network Setup | Excellent |
| Paper Handling | Excellent |
| Ease of Use | Very Good |
| Administrative Utilities | Very Good |
| Print Drivers | Very Good |
| Feedback to Workstations | Very Good |
| Applications Compatibility | Excellent |
| Colour Management | Good |
| Colour Print Quality | Very Good |
| Black Print Quality | Very Good |
| Colour Print Productivity | Excellent |
| Black Print Productivity | Very Good |
| Feature Set | Very Good |

## BLI RECOMMENDATION

Exhibiting the fastest colour and black print speeds of any wide-format printer tested to date, the Canon imagePROGRAF iPF750 performed commendably during its 2,087-square-metre BLI evaluation. Demonstrating that it can capably satisfy the needs of Architectural, Engineering and Construction (AEC), Computer-Aided Design (CAD) and Geographic Information Systems (GIS) professionals, it will also be suitable for many general corporate wide-format workflows and print for pay/production environments. The 36-inch imagePROGRAF iPF750 generated a broad range of architectural plans and maps with exacting detail, as well as high-quality monochrome and colour graphics on heavyweight coated media. The heightened position and design of the single-roll media feeder offers users the ability to load a roll of paper or cut-sheet media, from either the front or the back of the machine. The six-ink set, which includes C, M, Y, BK & MK (2), produced colour that remained highly consistent throughout the testing period. This highly reliable unit also offers very good ease of use, with BLI technicians citing very few incidences of incorrect first-time loading due to operator misalignment during feeding, and comprehensive guidance from the control panel.

BLI highly recommends the Canon imagePROGRAF iPF750 for AEC, CAD and GIS professionals. Furthermore, when used with premium media, this device provides acceptable high-quality graphics.

**Test duration:**
Two months, including a 2,087-square-metre durability test.

Please note that results are based on testing conducted on a Canon imagePROGRAF iPF755 which is the same device with the single addition of an 80GB hard drive. Productivity results may vary slightly.

## *STRENGTHS*

- Flawless reliability
- Excellent colour consistency throughout the test period
- Ability to load roll or cut-sheet media from the front or back of the printer
- Ability to replace ink cartridges whilst printer is operational
- Ability to optimize performance for many types of media
- Safety locking mechanism on top cover protects user from accessing moving parts whilst printer is operational
- Highly productive in both colour and monochrome modes
- Feature-rich printer driver includes Free Layout utility for custom nesting
- Quick wake-up and first-page-out times from sleep mode
- Borderless printing
- Media mismatch feature prevents queue bottlenecks

## *WEAKNESSES*

- Composite black is default setting when monochrome is selected in print driver (pure black is attainable only by using the print driver's BK ink setting in Line drawing / text mode)
- Black ink only is not accessible when printing on coated / glossy media
- The plastic fixed spindle head may break during roll reloading
- Inability to import files for direct printing
- No pop-up or e-mail alerts to inform user when job is completed
- The speed at which the cutter cuts the paper can cause the print to fall into the receiving bin at an angle, which can cause problems with the stacking of completed prints
- User interface (UI) calculates the total pages printed as A4 prints

## TEST RESULTS AND OBSERVATIONS

+, – and ○ represent positive, negative and neutral attributes, respectively.

### △▽ RELIABILITY — EXCELLENT

+ The Canon imagePROGRAF iPF750 is certified highly reliable by BLI, completing its two-month evaluation, which included a 2,087-square-metre durability test, without experiencing a single jam and with no service calls required.

## EASE OF ASSEMBLY

VERY GOOD

+ The printer is very easy to install. An HTML manual that supports nine languages and includes step-by-step assembly instructions is included with the device. Two people are needed to lift the printer onto its stand; otherwise one person can easily complete the assembly, which takes approximately one hour.

+ The imagePROGRAF iPF750 comes with six 90ml starter ink cartridges and a maintenance cartridge that are installed after assembly by following easy step-by-step instructions on the control panel.

## EASE OF NETWORK SETUP

EXCELLENT

+ The Canon imagePROGRAF iPF750 is equipped with a 10/100/1000Base/T/TX Ethernet port. An IP address can easily be assigned to the printer directly on the control panel.

+ The print driver CD auto launches and users can select from three options—Install Printer Driver, Install Individual Software and Create the Installer Files. The Install Printer Driver option requires eleven clicks and installs the driver, Status Monitor Utility, Media Configuration Tool, Digital Photo Front-Access and imagePROGRAF Print Plug-In for Word. The printer port is created automatically during driver installation. The second selection, Install Individual Software, offers users eight separate options—GARO (Graphic Arts with Raster Operations) print driver, HDI print driver, Status Monitor, Media Configuration Tool, Digital Photo Front Access, Print Plug-In For Word, ICC profiles and Device Setup Utility. Create the Installer Files is a utility that allows the print driver to be downloaded to any networked workstation rather than an administrator or user having to install the driver on to each workstation separately.

+ When using the Install Printer Driver option, all installation instructions are selected before installation commences with no further need for administrator input until all applications have been fully loaded.

+ A second CD, Canon iPF750 User Manual, is also provided. It auto-launches and installs the manual in HTML format in six clicks of the mouse. It is available as a selection in All Programs and from the print driver and Status Monitor.

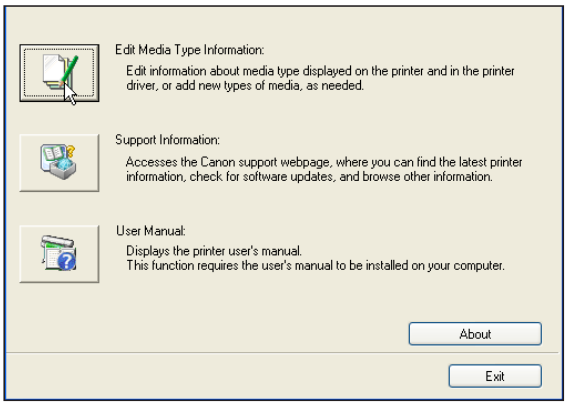
## PAPER HANDLING

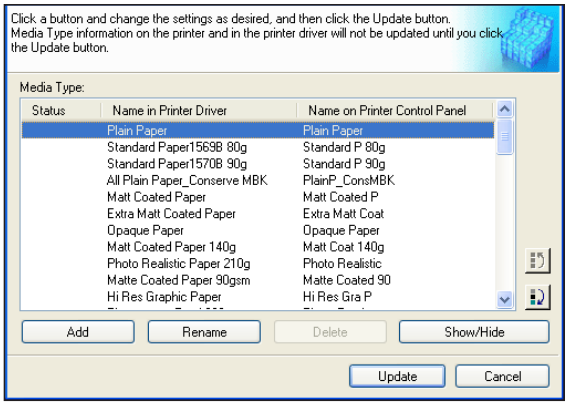
EXCELLENT

+ The Canon imagePROGRAF iPF750 supports a single paper roll feed. The position of the paper roll feed housing allows users the option of loading roll or cut-sheet media from the front or the back of the printer. The paper roll can be of different types and widths, depending on a user's needs. Minimum roll width is 17" (43.2 cm); maximum roll width is 36" (91.4 cm); maximum outer roll diameter is 150mm and maximum supported media weight is 300gsm. The printer also supports cut-sheet media; the minimum supported size is 8"

x 10" (20.3 x 25.4 cm), and maximum supported size is 36" x 48" (91.4 cm x 121.9cm).

+ The imagePROGRAF iPF750 is compatible with a wide range of media, from plain to satin and photographic glossy papers, to name just a few. There are more than 47 (depending on region) pre-set paper selections and five special paper selections on the imagePROGRAF iPF750 control panel from which to choose. Each selection automatically enables specific ink, cutting and drying specifications for the particular paper; therefore it is recommended that care should be taken when making a paper selection on the control panel and at the printer driver.




**Canon imagePROGRAF iPF750 Media Configuration Tool**

+ Users are able to program custom cut-sheet and roll media sizes and save them for reuse.

+ Three cutting speeds are available, providing greater flexibility when handling a wide range of media types.

+ Users have the option of programming the exact length of the roll for any media type installed in the printer, which is reported on the control panel, and the length is automatically counted down as the roll is depleted. If a job requires more media than is already loaded, the user is prompted to replace the roll.

+ Unlike with some other wide-format devices evaluated by BLI, sheet paper length and width are automatically detected by the imagePROGRAF iPF750 once the sheet is properly loaded.

+ The two hubs or end caps that hold a roll of paper in place on the spindle are smartly designed. They are octagonal rather than circular in shape, so that when the spindle is placed on a table top it doesn't roll.

— Finished prints exit the printer from the front and are deposited into a cloth catch basket situated directly below the printer. The basket holds numerous prints, depending on the media type, but during BLI's tests they did not stack neatly, got out of order quickly and tended to curl.

○ The catch tray has two settings which are designed to improve stacking of both A0 and A1 media sizes.

○ If a media roll is depleted part-way through a page, the printer will prompt on the

display that media is out. The user is prompted to install new roll. The partially printed page will be reprinted.

+ There are four paper type mismatch settings selectable in the control panel, which govern how a mismatch in paper size or type will be handled. Users can choose “None,” in which case no action will be taken; “Warning,” which will display a warning message on the control panel and in the Status Monitor but will still print the job; or “Pause,” which will pause the job from printing until corrective action is taken, or “Hold Job.”

## △ EASE OF USE — VERY GOOD

○ The control panel has nine clearly labelled buttons and a small LCD display measuring 5.5cm x 4.5cm with six lines of text. LEDs include on/offline status, data, message and paper source. When online, the display shows the paper type loaded. The digital menus on the LCD display can be accessed by scrolling left or right on the OK button. The digital menus include paper menu, ink menu, jobs menu and settings/adjustment menu

+ The display prioritizes an error message or consumable status when the message LED flashes orange. All actions required to rectify the situation are displayed on the display and are easy to follow.

○ The menu system on the iPF750 is different to that on the Canon iPF810/820 series which may create some confusion for users utilizing both devices.

+ Step-by-step instructions for both sheet and roll loading are provided on the control panel. The display changes for each step of the procedure at a predetermined interval, and users can press the pause button to pause the display.

+ The Navigate button on the printer display provides step-by-step instructions on common end user maintenance tasks such as how to replace consumables, media, and print head.

○ Both 2" and 3" end caps are supplied for different core sizes.

+ Loading cut-sheet media is an easy process. The user must align the sheet to the right guide, with print side up,set the sliding width guide and fully insert the sheet into the printer until the buzzer sounds. The user selects a media type on the control panel and the printer automatically detects the sheet’s dimensions and then indicates “online” on the control panel display. This information is transmitted to both the Web page and the Status Monitor.

+ Replacement of the six ink cartridges is easy, simply requiring users to open a cover and lift a lever to unlock the cartridge.

+ Replacing the single print head is automated and accessed from the control panel with instructions displayed on the LCD.

+ The unit has one integrated printhead, which makes maintenance a faster process than with some competitive devices that have separate printheads for each colour.

+ Maintenance cartridge (waste ink tank) replacement is a simple pull-out/push-in operation.

+ Users can delete a job just by pressing the stop button; confirmation is required.

— The printer stand is on wheels that are rather small, which makes it difficult to access their locking devices.

+ Users have a choice of nine languages that can be set from the control panel.

+ Layout of multiple pages is simple using the Free Layout feature in the GARO print driver.

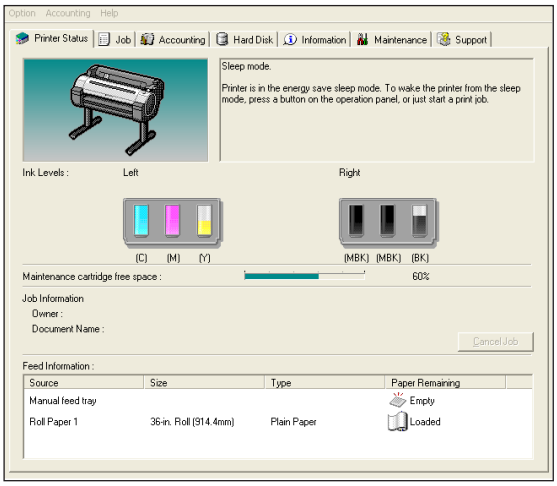
+ Loading of partly used rolls is a simple process with a one touch feed and another one touch manual cut button, making removal of damaged leading edges much easier than with some previous Canon LFP products BLI has tested.

## ADMINISTRATIVE UTILITIES

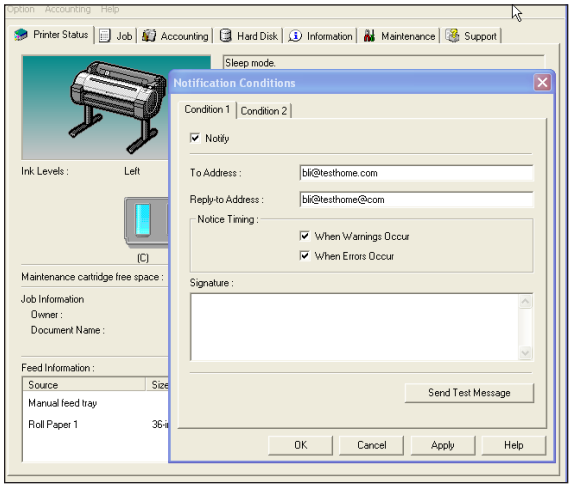
VERY GOOD

+ Users can view the progress of print jobs and paper and ink supplies in real time for all networked imagePROGRAF printers using the Status Monitor. Jobs can be cancelled or paused but not prioritized in the Job tab. As a workaround for prioritizing, users can pause previously submitted jobs and allow current jobs to print next. The Status Monitor can be configured to launch automatically, or users can open it from the Windows Programs menu.

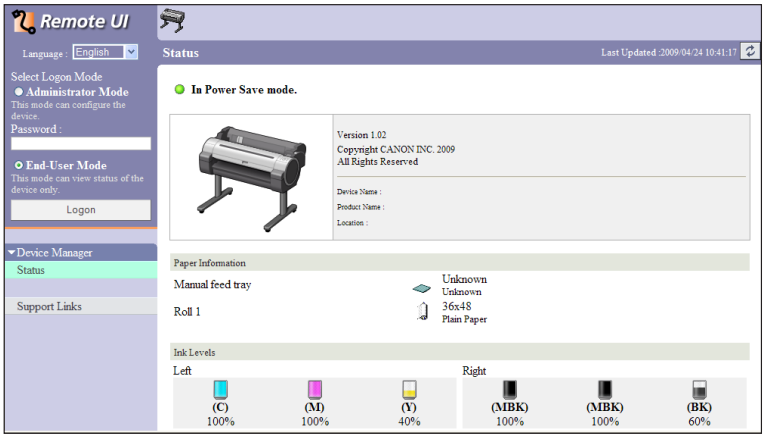
+ Administrators can set up e-mail alerts for the imagePROGRAF iPF750 using Canon's imagePROGRAF Status Monitor and its iW Management Console server-based fleet management tool.




Canon imagePROGRAF Main Console




E-Mail alerts setup via Options Menu




**Remote UI Web Console for Canon imagePROGRAF iPF750**

+ The Status Display, located in the Status Monitor's Information tab, provides users with paper usage information, including total area of each individual roll and sheet used, displayed in both square feet and square metres, and overall total area printed. Configuration,  and network settings are also listed here.

○ The Print Job Log Display, located in the Status Monitor's Information tab, offers a list of only the last 32 jobs that were printed on the imagePROGRAF iPF750, a smaller list than many competitive models offer. Job information includes document name, user name, page count, job status, start time, end time, total time, print size, media type and ink consumed for each job. Users can save this information as a text file.

— During BLI's testing, it was determined that ink usage in the log only represented ink transferred to the paper, and did not include ink that was consumed and wasted during maintenance tasks such as automated head cleaning. The extent of the difference will vary depending on the frequency of cleaning routines.

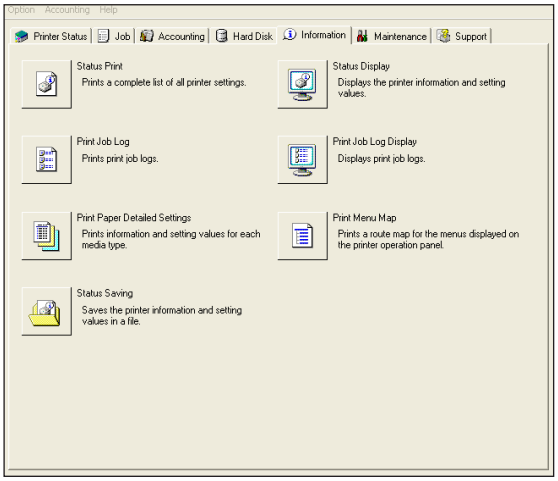
○ Canon offers several third-party software solutions for job accounting, although none were evaluated during BLI's test.

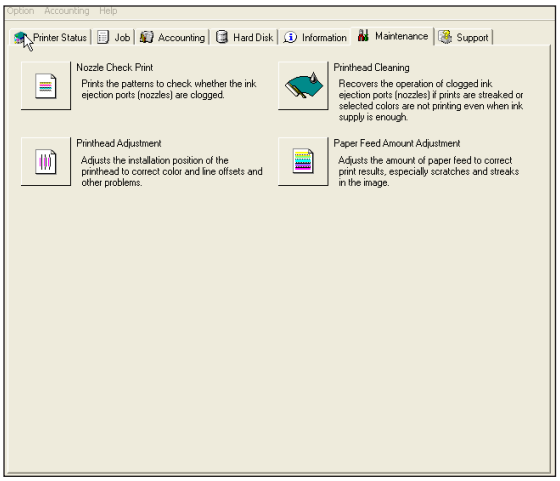
+ The Media Configuration Tool, a separate utility, allows for the updating and editing of media between the printer and driver and allows users to add or delete media types in both the print driver and on the printer control panel.

— Unlike some competitive Web utilities Remote UI, the Web page, does not offer direct printing of files.  All files must be printed from an application.

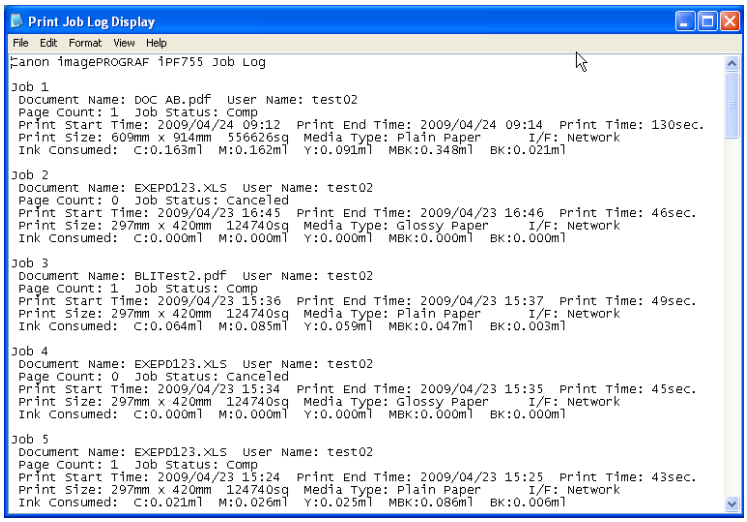
+ Within the Status Monitor and administration section of the Remote UI, administrators can create .txt files of device settings for quick reinstallation / duplicate placements.

+ Two separate e-mail addresses can be set up to receive notifications when device issues or errors arise.




**Status Monitor provides extensive desktop management and maintenance capabilities.**




**The last 32 jobs can be viewed including details on ink usage and print duration.**

## PRINT DRIVERS

VERY GOOD

+ The Canon imagePROGRAF iPF750 GARO print driver is graphical and includes six easy to navigate tabs. The most commonly used features, such as Media Type and Print Target settings, can be selected from the Main tab.

+ From the Easy Settings menu there are 8 print target settings that provide the best settings for the chosen print job. From the Advanced Settings menu, various quality and colour settings are available.

+ Unlike the drivers on some competitive devices, the Canon imagePROGRAF iPF750's GARO driver provides a single page overview of each one-touch print profile, allowing users to make quick decisions on which setting best suits their requirements.

+ A Borderless Printing selection prints images directly to the edge of the media, which can reduce trimming and finishing requirements.

+ One-touch selection in the print driver's favourites tab can be configured for setting combinations of paper, size and quality settings.

○ The "Rotate page 90 degrees" selection from the Page Setup tab can be selected to conserve paper.

+ For Windows users, the Free Layout function, an easy-to-use image nesting feature selectable in the print driver, enables documents and/or images of different file formats to be merged on to a single page and printed together across the paper's width. Each time a document is sent with the Free Layout feature enabled, the Free Layout window opens automatically. Each submitted image appears in the window in the order it was received. When all files have been sent, the user can reposition them by clicking and dragging the image on the monitor to its desired location. Once all the images are in place, users can press the print button and they will be printed on one page.

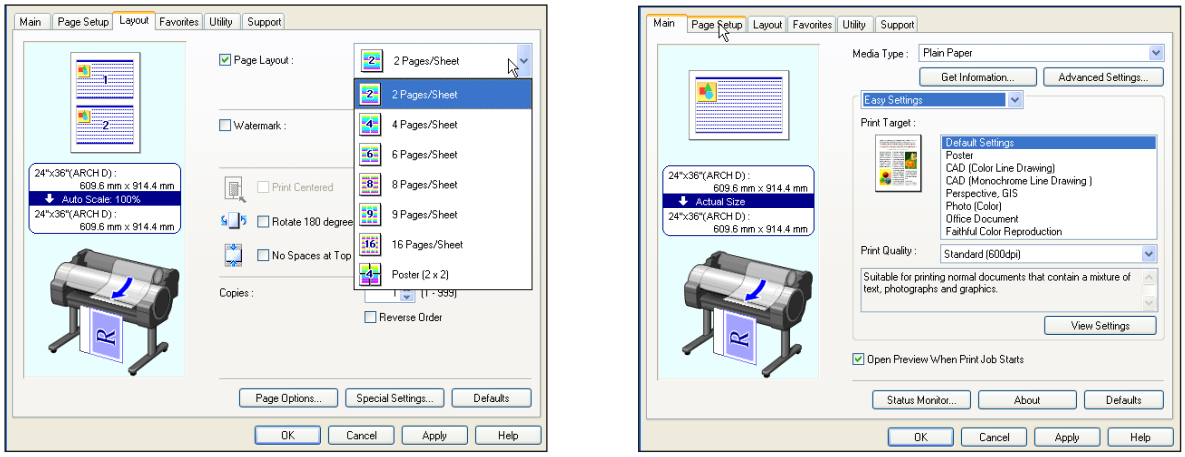
+ Maintenance procedures, including nozzle check, printhead adjustment, printhead cleaning and media feed adjustment, can be performed via the print driver, Status Monitor and the driver utility tab. The Web page is limited; it only allows any user to perform a nozzle check print and printhead cleaning procedure.

— The procedure for generating black-only output from the print driver is not intuitive for users. When choosing monochrome mode in the print driver (the logical choice for black-only printing), four-colour process black is produced on all media types. To print with black ink only, users must choose the Monochrome (BK Ink) selection that becomes available only when the Print Priority is changed from Image to Line Drawing/Text.

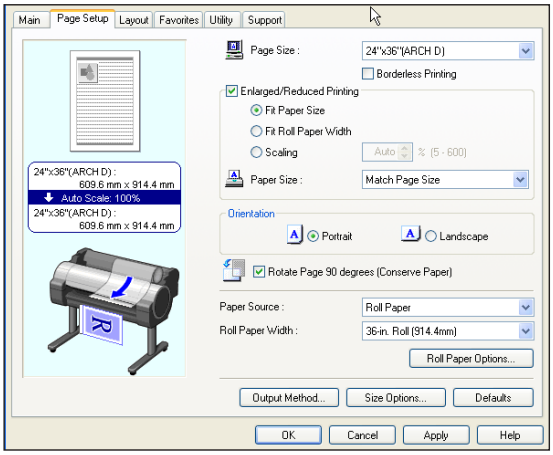
+ An economy mode setting, which can be selected when the driver is in draft mode, reduces ink usage, offering cost of ownership advantages for internal/drafting workflows.

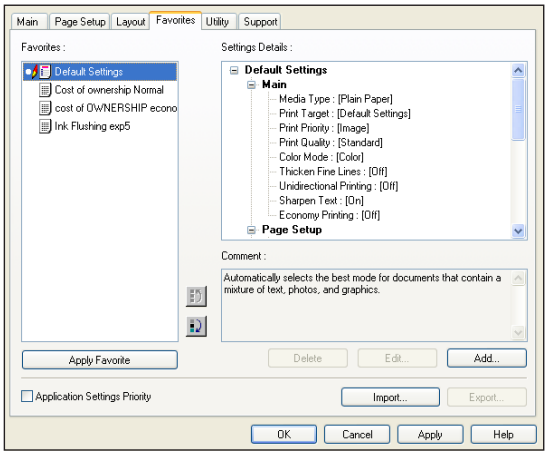
+ The Canon GARO driver includes both N-up (up to 16 up) and poster printing (2 x 2) capabilities.

+ The Canon GARO driver includes page-stamping capabilities (date/user name/page number), features which some rival units tested by BLI do not possess.




**Canon GARO Print Driver Layout and Main Tabs**




**Canon GARO Print Driver Page Setup and Favorites Tabs**

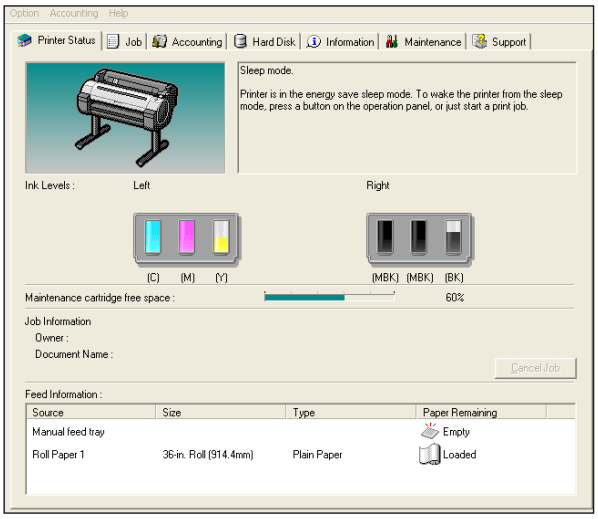
## FEEDBACK TO WORKSTATIONS

VERY GOOD

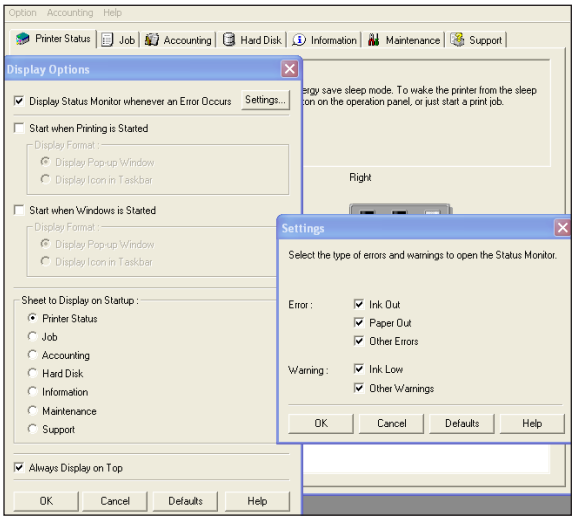
\+ The Status Monitor can be displayed either as a pop-up window or as a taskbar icon and can be configured to automatically launch either when printing starts and/or when the Windows operating system is started. Errors and/or warnings, such as ink out, paper out and ink low, can be set to display.

— No pop-up or e-mail alerts indicating when jobs are completed are offered.

\+ The Status Monitor can be accessed directly from the main tab of the print driver.




**Status Monitor User Desktop Information**




**Status Monitor Alerts Setup**

○ Ink-low or ink-out conditions are reported on the Web page and in the Status Monitor in 20-percent increments.

○ Remote User Interface, the Web page, offers much of the same information found in the Status Monitor. Noteworthy features found on the Web page include security settings, including SNMP and IPP authentication and IP and MAC address filtering,that can be enabled by an administrator.

○ Paper and ink status information is available on the Web page. The Print Job selection on the Web page only displays the job that is printing or processing, not a list of pending jobs. A job can be cancelled if the user is logged on in administrator mode.

## APPLICATIONS COMPATIBILITY

EXCELLENT

+ The Canon imagePROGRAF iPF750 performed well in BLI's applications compatibility test, successfully handling all the file formats used, including PDF, TIFF, XLS, PPT, JPG, DWF and DWG.

+ A job stream consisting of mixed file types including DWF, PDF and TIFF formats, all 24" x 36", was output without a problem. No file transmission errors were encountered, nor were any problems noted in the output when compared to the digital files.

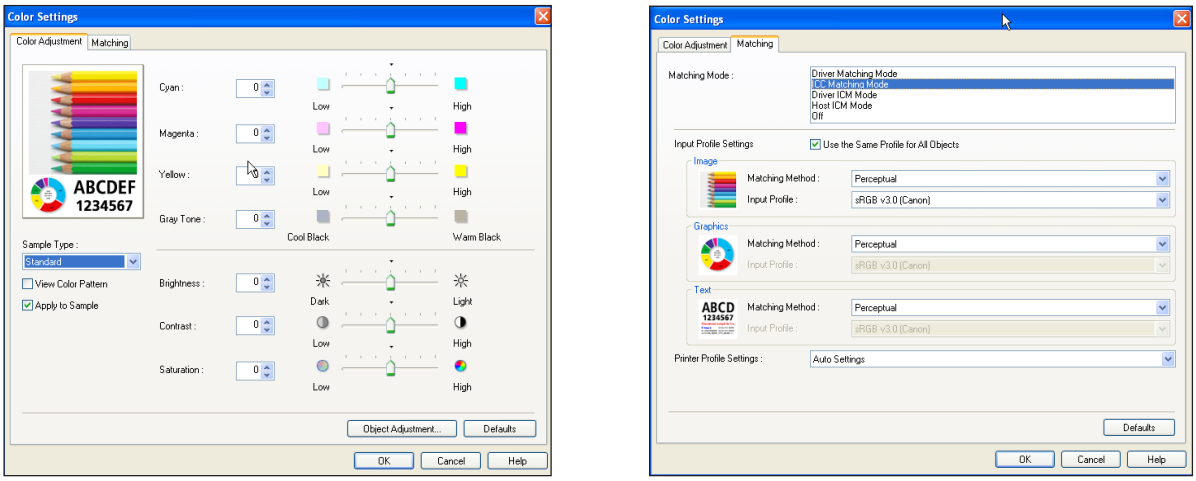
+ Canon includes a plug-in for printing from Word, PowerPoint and Excel that includes useful tools for automatic media resizing, nesting and borderless printing.

## COLOUR MANAGEMENT

GOOD

+ Various colour settings are available when the Advanced Settings tab is selected in the print driver. Sliders are available to make adjustments to C, M, Y or K, as well as to brightness, contrast, saturation and grey tone. Adjustments can be applied to images, graphics and/or text.

+ ICC profile settings are available in the Matching tab under Advanced Settings. Four matching modes (driver, ICC, driver ICM and host ICM matching) and four rendering methods (auto, perceptual, colorimetric or saturation) are selectable..




**Basic and Advanced Colour Management Options in the Canon GARO Driver**

## PRINT QUALITY

### COLOUR PRINT QUALITY — VERY GOOD

+ The Canon imagePROGRAF iPF750 produced a typical gamut for an inkjet colour printer. BLI's test instruments showed that colour remained consistent over the course of the test and no noticeable changes were detected in a visual observation of a group of images printed at the end of the test period compared to the same group printed at the start of the test.

+ At the print driver's default setting, colour charts, architectural plans and maps printed on plain paper displayed very good image quality. Fine lines and curves printed distinctly and colours were bright and of good density.

+ Colour photographs printed on Canon's Heavy Weight Satin Photo paper exhibited very good image quality at default settings, displaying high contrast and sharpness, with natural-looking colours and skin tones.

### BLACK PRINT QUALITY — VERY GOOD

+ Black-only architectural documents were rated very good, with consistent line widths, fully formed circles and no stair-stepping of diagonal lines.

+ In line drawing/monochrome (blk) there was no evidence of colour mixing. The black halftones were rated very good.

+ Black print quality on plain paper was rated very good overall. Characters appeared dark and fully formed, with minimal ink overspray and wicking Circles were cleanly formed. Diagonal lines were straight, with no stair-stepping evident. Greyscale was visible over a normal range, from 1% to 100%.

— There is no option to print monochrome images using black ink only on to coated media. While output had a very pleasing look with very good halftone gradation, the composite mixing left the appearance with a slight hint of yellow/green at times.

## PRINT PRODUCTIVITY

### COLOUR PRINT PRODUCTIVITY — EXCELLENT

+ The imagePROGRAF iPF750 wakes from power-save mode almost instantaneously. After a weekend of non-use, the printer awoke after 24 seconds and began to print a D-size document 38 seconds after the print was initiated from the driver.

+ To assess colour print productivity, one 12-page Arch D-size DWF document was used. This document was printed using the Canon imagePROGRAF iPF750 driver set for plain paper/colour, using three different quality settings—Draft, Default and Highest Quality. In Draft mode, the 12 pages printed in 7 minutes and 50 seconds, which translates to 101.6 pages per hour (pph). In Default mode, the document printed in 11 minutes and 48 seconds, which translates to 70.0 pph, and in Highest Quality mode, the document printed in 21 minutes and 45 seconds, which translates to 33.1 pph. These are the fastest colour print speeds measured by BLI to date.

## BLACK PRINT PRODUCTIVITY

EXCELLENT

+ To assess black print productivity, the same 12-page Arch D-size DWF document was used. This document was printed using the Canon imagePROGRAF iPF750 driver set for plain paper/monochrome, using three different quality settings—Draft, Default and Highest Quality. In Draft mode, the 12 pages printed in 7 minutes and 12 seconds, which translates to 99.9 pph. In Default mode, the document printed in 12 minutes and 10 seconds, which translates to 59.1 pph and in Highest Quality mode, the document printed in 22 minutes and 16 seconds, which translates to 32.3 pph. These are the fastest black print speeds measured by BLI to date.

○ A job stream consisting of 10 24" x 36" monochrome files (a mix of DWF, PDF and TIFF) was sent to the printer while in a paused state. The files consisted of five or fewer pages, totalling 19 pages, and were sent using the Default plain paper/monochrome driver setting. Timing began when the printer was taken out of paused mode, and ended when the last page of the job stream completely exited the device. The job stream was completed in 19 minutes and 29 seconds, which translates to 58.5 pph and is considered competitive with other devices tested by BLI.

## △ SECURITY FEATURES

NOT RATED

○ An Administrator password can be set to enable SNMP settings and IPP authentication, and restrict TCP/IP Printing, SNMP settings and MAC address access. Additional configurable options are available in the Device Manager section in the Web utility. Users are advised to check the sales manual for security features.

## △ FEATURE SET

VERY GOOD

+ IEEE 1394 (Firewire) connectivity is optionally available.

○ The 256MB RAM is competitive with other units in its category.

+ The imagePROGRAF iPF750 supports borderless printing, a feature not offered on many rival units.

+ The unit supports both roll and cut-sheet media, a feature than some competitors do not offer.

+ The device includes Canon's GARO print driver and an HDI driver (for use with AutoCAD) as standard.

+ The software bundle includes two useful end-user applications: Digital Photo Front Access for easy manipulation and printing of digital camera images, and Print Plug-In For Word, PowerPoint and Excel, which makes resizing and layout of documents created in Office applications an easier and more error-free process.

+ The Canon driver includes a utility (Colour imageRUNNER Enlargement Copy Mode) allowing users to integrate a Canon MFP device with the iPF750. Documents scanned by the Canon MFP are automatically routed to a hot folder which is monitored by the driver of the iPF750. The image is then resized and printed, offering a fast, easy to use poster creation tool for office users.

— There is no inline folding unit offered with the device

+ Both 90ml and 130ml capacity ink cartridges are offered with the unit.

## SUPPORTING TEST DATA

### Test Environment

Testing was conducted in BLI's European test lab, in an atmospherically controlled environment monitored by a 24/7 Dickson Temperature/RH chart recorder, ensuring that typical office conditions were maintained. All paper used in testing was allowed to acclimatize inside the test facility for a minimum of 12 hours before being used.

### Test Equipment

BLI's dedicated test network in Europe, consisting of Windows 2003 servers, Windows XP workstations, 10/100/1000BaseTX network switches and CAT5 cabling.

### Test Procedures

The test methods and procedures employed by BLI in its lab testing include BLI's proprietary procedures and industry-standard test procedures. In addition to a number of proprietary test documents, BLI uses industry-standard files including an IT8 test file and an ASTM monochrome test document for evaluating black image quality. In addition to a visual observation, colour print quality and gamut size is evaluated using a 1,400-patch profile software tool from Colour Confidence that was read using an EFI ES-1000 colour spectrophotometer and analysed using Chromix ColorThink Pro 3.0 software. Density of black and colour output was measured using an X-Rite 508 densitometer.

## RELIABILITY

| | |
|---|---|
| Meter Count beginning of test | 0 |
| Meter count end of test period | 2,087 square metres |
| Total misfeeds or jams | 0 |
| Total Service Calls | 0 |

## PRINT DRIVERS

### Canon imagePROGRAF iPF750 Print Driver Features

| | |
|---|---|
| Collate Sets | Yes |
| Mirror Image | Yes |
| Reverse order printing selection | Yes |
| N-Up Printing | 2 to 16 |
| Paper Gauge | Yes |
| Quantity Selection | 999 |
| Reduction/Enlargement | 5% to 600% |
| Print Quality (dpi) | 300, 1200 |
| Printing Shortcuts/Save Settings | Yes/Yes |
| Show Preview | Yes |
| Consumables Status | Yes |
| Rotate 90 Degrees | Yes |
| Option to save to mailbox | No |
| Secure Printing | No |
| Watermarks/Custom Watermarks | Yes |
| Cutter settings/including disable | Yes |
| Drying Times/including disable | Yes |
| Sharpen text selection | Yes |
| Thicken lines selection | Yes |
| Economy mode (with Draft mode) | Yes |
| Poster Print | Yes (2x2) |
| Page Stamping | Yes (date/user name/page number) |
| CMYK Balance Adjustments | Yes |
| ICC Profiling | Yes |
| Integration with MFPs | Yes |

## PRINT QUALITY

### Colour Print Quality

| | Plain Paper | Heavy Weight Satin Photo Paper |
|---|---|---|
| Photographic Images | N/A | Very Good |
| AEC Graphics | Very Good | N/A |
| Business Graphics | Very Good | Very Good |

N/A: Mode not available for Heavy Weight Satin Photo Paper

### Colour Density – Plain Paper

| | Draft | | Standard | | High | |
|---|---|---|---|---|---|---|
| Dot Fill | 100% | 50% | 100% | 50% | 100% | 50% |
| Cyan | 0.86 | 0.55 | 0.84 | 0.51 | 0.87 | 0.53 |
| Magenta | 0.91 | 0.44 | 0.97 | 0.43 | 0.98 | 0.44 |
| Yellow | 0.75 | 0.36 | 0.81 | 0.34 | 0.84 | 0.34 |
| Black | 1.20 | 0.44 | 1.15 | 0.44 | 1.19 | 0.44 |

### Colour Density – Heavy Weight Satin Photographic Paper

| | Standard | | High | | Highest | |
|---|---|---|---|---|---|---|
| Dot Fill | 100% | 50% | 100% | 50% | 100% | 50% |
| Cyan | 0.98 | 0.59 | 0.96 | 0.59 | 0.95 | 0.59 |
| Magenta | 1.58 | 0.52 | 1.57 | 0.52 | 1.56 | 0.52 |
| Yellow | 0.69 | 0.39 | 0.68 | 0.39 | 0.68 | 0.39 |
| Black | 1.77 | 0.57 | 1.77 | 0.58 | 1.76 | 0.57 |

Note: Colour density readings (dot fill) were measured on solid colour patches (100% dot fill) and at 50% density for plain and Heavy Weight Satin Photo papers at Standard, High and Highest quality settings.

### Black Print Quality – Plain Paper

| | |
|---|---|
| Text | Very Good |
| Line Art | Very Good |
| Halftone Pattern | Very Good |
| Halftone Range | Very Good |
| Solids | Good |

### Black Density – Plain Paper

| Speed | Draft | Standard | High |
|---|---|---|---|
| Density | 1.37 – 1.38 | 1.44 – 1.46 | 1.44 – 1.44 |

Note: Solid black density measurements are based on four readings corresponding to eight different solid black locations on the output.

Print density for inkjet-based printers tested to date:
1.15 to 1.49

Halftone range:

Greyscale is clearly visible from the 1% to 100% dot-fill levels, with distinct transitions between levels and consistent ink coverage within levels.

Typical halftone range for colour inkjet printers:

From the 1% to 97% dot-fill levels.

## PRINT PRODUCTIVITY

### Job Stream: Mixed File Types, Same Size

| Sets | Actual Time (Min:Sec) | Calculated Pages Per Hour |
|---|---|---|
| 1 | 19:29 | 58.5 |

BLI's job stream includes PDF, TIF and DWF files, totalling 19 pages. This test indicates the type of traffic a typical wide-format device might experience in a real-world, multi-user environment. All of the files are submitted to the controller in default mode in a specific order and sent to the printer as a group, at which time the stopwatch begins; timing ends when the last page of the last file exits the device.

### Colour Print Productivity: 12-Page D-Size DWF Document Using the Canon imagePROGRAF iPF750 Driver

| Print Driver Quality Setting | Actual Time (Min:Sec) | Calculated Pages Per Hour |
|---|---|---|
| Draft | 7:50 | 101.6 |
| Standard | 11:48 | 60.9 |
| High | 21:45 | 33.1 |

The 12-page DWF test file was printed using the plain paper/colour setting of the Canon imagePROGRAF iPF750 driver. The actual time indicated is the time it took to RIP, image and deliver all pages of the test document to the collection bin.

### Black Print Productivity : 12-Page D-Size DWF Document Using the Canon imagePROGRAF iPF750 Driver

| Print Driver Quality Setting | Actual Time (Min:Sec) | Calculated Pages Per Hour |
|---|---|---|
| Draft | 7:12 | 99.9 |
| Standard | 12:10 | 59.1 |
| High | 22.16 | 32.3 |

The 12-page DWF test file was printed using the plain paper/monochrome setting of the Canon imagePROGRAF iPF750 driver. The actual time indicated is the time it took to RIP, image and deliver all pages of the test document to the collection bin.

# Certificate of Reliability

Awarded to

**CANON, INC.**

for the performance of the

Canon imagePROGRAF iPF750

in BLI's in-house durability test.


Anthony F. Polifrone
Managing Director

September 2009
Date

This is to certify that when subjected to a 2,087-square-metre Buyers Lab durability test in a networked environment, the Canon imagePROGRAF iPF750 proved to be a highly reliable product.

**BUYERS LABORATORY INC.**

THE LEADING INDEPENDENT OFFICE PRODUCTS TEST LAB AND BUSINESS CONSUMER ADVOCATE

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