

**BE EFFICIENT**



**PRINT UP TO**  
**PAGES WITH A SINGLE BLACK**  
**CARTRIDGE TO INCREASE YOUR**  
**WORKPLACE EFFICIENCY**

**800**



**NEW**

**PIXMA Ink Efficient E510**  
Photo All-in-One



**PIXMA Ink Efficient E600**  
Office All-in-One

# INK EFFICIENT!

The PIXMA Ink Efficient E600 and  
PIXMA Ink Efficient E510 print up to 800 monochrome  
documents with a single black cartridge, and up to  
400 color documents with just  
one color cartridge!

PIXMA Ink Efficient E510 **NEW**

## The Economical Document Solution

The PIXMA Ink Efficient E510 is the affordable answer to all your printing requirements, particularly when it comes to documents. This economy-minded All-in-One also provides highly effective solutions to your copying and scanning needs. My Image Garden software offers innovation printing opportunities by allowing you to dramatize your photos. You can also use Print Your Days application to create amazing collages of your favorite Facebook photos.

Document Printing	sFCOT (First Copy Out Time)	Copy	Photo Print Speed
approx. <b>8.6</b> ipm Black	approx. <b>5.0</b> ipm Color	approx. <b>30</b> sec. Color	approx. <b>44</b> sec. Color
Measured by ISO/IEC 24734 standard.		Measured by ISO/IEC 29183 standard.	10x15cm (4x6") borderless



2 pl  
Technology

4800 dpi

SCAN  
1200x2400 dpi

My Image Garden

Print Your Days

Full HD Movie Print

Fun Filter Effect

Fast Front

FINE Cartridge

ChromaLife100

USB



# PIXMA Ink Efficient E600

## The Ultra-Efficient All-in-One

The PIXMA Ink Efficient E600 is all about efficiency! It offers high-quality printing, high-speed faxing, high-resolution scanning and high-performance copying. Then there's the 30-page Auto Document Feeder! Even maintenance has been simplified, as FastFront makes changing ink cartridges and loading paper effortless. The only thing better than doing a great job is doing it more efficiently...with the PIXMA Ink Efficient E600.

Document Printing	sFCOT (First Copy Out Time)	ADF Copy	Photo Print Speed
approx. <b>8.9</b> ipm <b>Black</b> <small>Measured by ISO/IEC 24734 standard.</small>	approx. <b>5.2</b> ipm <b>Color</b> <small>Measured by ISO/IEC 29183 standard.</small>	approx. <b>23</b> sec <b>Color</b> <small>Measured by ISO/IEC 24735 standard.</small>	approx. <b>46</b> sec. <b>Color</b> <small>10x15cm (4x6") borderless</small>

2<sup>pl</sup>  
Technology

4800<sup>dots</sup>  
dpi

SCAN  
1200×2400<sub>dpi</sub>

FAX  
33.6 Kbps

My Image Garden

Print Your Days

Full HD Movie Print

Fun Filter Effect

ADF

FastFront

FINE Cartridge

ChromaLife100

USB

# My Image Garden



NEW

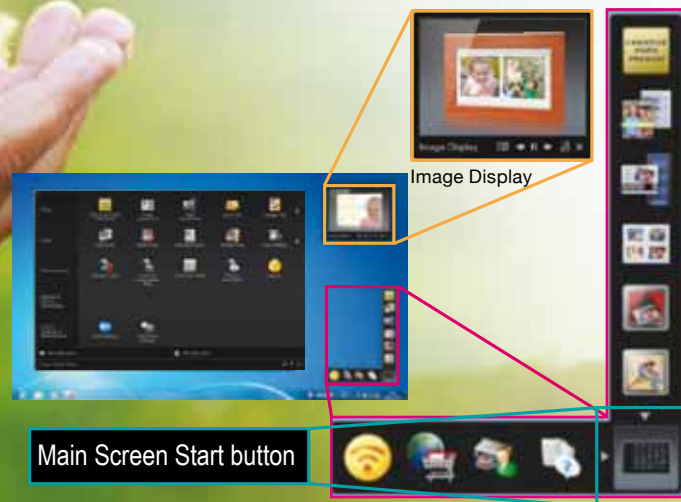
## Where Your Creativity Grows

My Image Garden is a brilliantly simple innovation that brings back the joy of printing. This software is designed to help you find new and creative ways to organize, combine and print your photos – even images you may have forgotten. My Image Garden automatically unearths these lost treasures and combines them with new ones in thematic layouts that will dazzle you. Scanning, file management and PDF editing functions can also be performed. It's the ultimate creative tool for your new and old photos.

## New User Interface

### Finding Treasure

This highly functional interface ensures easy operation and makes viewing and searching for photos more fun than ever. It will constantly inspire you with imaginative ways to combine images. Quick Menu shows you how to expand your creativity, suggesting fantastic layouts and automatically displays old photos. It also gives you quick access to a variety of useful functions via the customizable Desktop Accessory.



## Calendar View / People View / Folder View

### Easy Organization

Organize your photos so that they are always easy to recall and access. People View creates categories based on the faces you register; Calendar View organizes images by capturing date and displays thumbnails in a calendar format; with Folder View, you create your own categories, such as events or places.



Calendar View



Folder View

## Image Assorting Technology

### Instant Layouts

It recognizes faces and groups them into optimum layouts for calendars, montages and other creative printouts.



Auto Layout



Face Recognition



## My Art

### Creative Templates

Choose from eight categories of creative templates and you can do amazing things with your photos: Photo Layout (including business cards and ID photos), Collage, Card, Calendar, Stickers, Disc Label, Video Layout and Paper Craft. You can even specify various settings and perform editing operations.



Collage



Card



Calendar

## Full HD Movie Print

### Movie Stills / Merging Frames



Select still frames from your HD movies and improve image quality with a click. You can also do wonderfully creative things like merging several images into a single, action-packed photo or make a truly spectacular layout.

\*Requires installation of the following software available for the Canon camera on which the movie was captured.

- Canon ZoomBrowser EX (version 6.5 or later) or Canon ImageBrowser (version 6.5 or later): MOV format only
- Canon ImageBrowser EX (version 1.0 or later) software: MOV format and MP4 format



Merge Frames

## Fun Filter Effect

### Artistic Twists



Add artistic effects to your photos – including Fish-Eye, Miniature, Toy Camera, Soft Focus and Blur Background – with a click.



Fish-Eye



Miniature

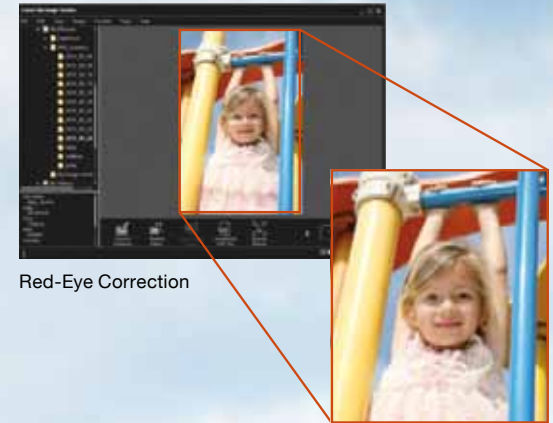


Toy Camera

## Image Correction/ Manipulation

### Professional Finish

Enjoy one-click access to Auto Photo Fix for a professional photo finish: automatic Red-Eye correction; Face Sharpener for improved sharpness; and Face Smoothing, which removes blemishes and gives skin a smooth, natural look.



Red-Eye Correction

## Photo Sharing Site

### Easy Access

Access Flickr – a popular photo-sharing site and download images instantly. Just enter the appropriate keyword, select an image and click “save” to the desired location.

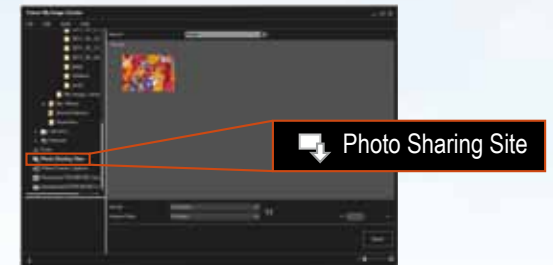
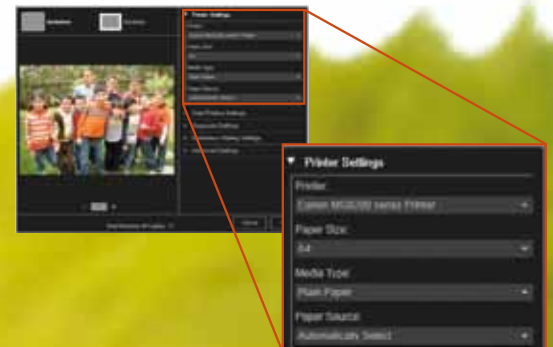


Photo Sharing Site

## Print

### Perfect Endings

Once you've finished creating and enhancing your images, you're ready to print. My Image Garden makes it easy to choose media size and type, bordered or borderless prints, print date (if desired), and number of prints. You can also make a grayscale photo or select a PDF file for printing.



# Print Your Days



**NEW**

Now you can have a wonderful time printing your favorite photos or making thrilling photo collages from Facebook albums that you have access to. You can even add text and exciting photo effects before printing. Simply log in to your Facebook account and start the Print Your Days application\*.

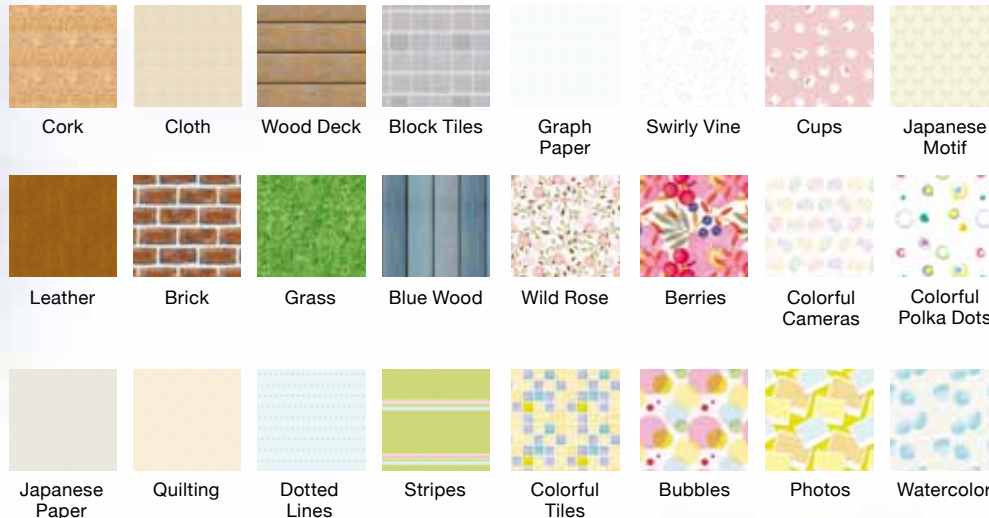


**Find this app on Facebook**



## Photo Collage

Select "Photo Collage", choose the paper size and import photos from the selected album. There are 24 background themes to choose from; once you make your choice, your photos are automatically laid out in an attractive collage. You then have the option of confirming the layout or customizing it to suit your preference. When you're satisfied, press the print button.



Choose from 24 background themes for your photo collage.

## Individual Photo

Select "Single Photos", choose the paper size and import a photo from the selected album. You then have the option of cropping the photo, adding photo effects or inserting text. When you're satisfied, press the print button.



Select Paper size



Text editing

## Photo Effects - Up to 17 photo effects to choose from



Brighten Entire Image   Darken Entire Image   Vivid Tone   Monochrome Tone   Sepia Tone

\*Supported OS: Windows 7 / Vista  
Requires installation of Silverlight 5 or later



## High-Yield, High-Quality FINE™ Print Cartridges

### Vibrant Printouts

Beyond ink efficiency, high-quality prints and high printing speeds on plain paper are the hallmarks of Canon FINE™ 11 cartridges. They boast twice as many nozzles as previous cartridges, so they're even faster and more efficient. What's more, color in the red areas is enhanced for vibrant, naturally brilliant images.



Original

New FINE™ Cartridge

## Hybrid Ink System

### Vivid Colors & Sharp Text



Hybrid Ink System

The Hybrid Ink System greatly enhances printer performance by incorporating dye-based and pigment-based inks. Dye ink produces vivid, natural colors, while pigment ink ensures sharp, easy-to-read black text – even when it's printed over an image. Thus, whether your printouts are heavy on text, images or both, they'll always look professional.



## Dual Color Gamut Processing (DCGP)

### Exceptionally Accurate Color Copies

Reproduction is so precise that even second-generation copies are virtually identical to the original. This is because DCGP evaluates brightness, contrast and other factors critical to the copying process, and then creates the ideal balance between color differences and gradation. Thus, color accuracy is always exceptional.



## Auto Scan Mode

### A Better Way To Scan

SCAN



Scanning photos and documents is easier than ever, with all functions accessible via My Image Garden.\* You can choose from a comprehensive of options that best suits your scanning requirements. With Auto Scan Mode, the type of document/image you're scanning is identified and the ideal settings are automatically made, so you scan at the touch of a button!

\*PIXMA Ink Efficient E510 only; scan functions for the Ink Efficient E600 are accessed via the bundled MP Navigator EX.

## Super G3 Faxing\*

### A Faster Way To Fax

FAX



You can fax an A4-size document in approximately 3 seconds, which increases productivity and lowers your phone bill. Store up to 50 pages in the Memory Reception so you won't miss a fax.

\*PIXMA Ink Efficient E600 only.

## ChromaLife100 – A Century Of Brilliant Photos

ChromaLife100 greatly increases the longevity of your photos through an innovative combination of Canon Genuine Inks and Photo Papers. Not only will prints last up to 100\* years under proper storage conditions, the image quality is also greatly enhanced.

### Gas Fastness Approx. 10 Years

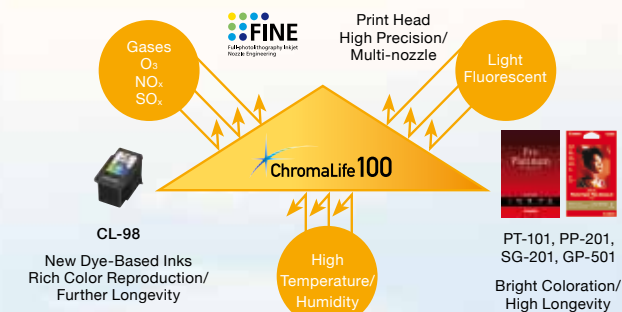


Original print



10 years later

No noticeable color change



\* Under proper storage conditions. See specifications for details.

## EASY OPERATION

### FastFront

With the innovative FastFront design, you have direct access to the ink cartridges and paper tray from the front of the printer. This makes changing cartridges and loading paper incredibly quick and easy.



### 30-Page Auto Document Feeder (ADF)\*



The PIXMA Ink Efficient E600 features a built-in ADF, so you can load up to 30 sheets for continuous copying and scanning.

\*PIXMA Ink Efficient E600 only.



### Environment Friendly

PIXMA printers are designed to be energy efficient and to have minimal impact on the environment. To reduce CO<sub>2</sub> emissions, PIXMA conforms to the EU RoHS directive and the international Energy Star Program. Whenever possible, recycled plastics are used and packing materials are reduced.

### Quiet Mode Settings

Quiet Mode reduces noise to a bare minimum. You can pre-set specific hours of operation via Quick Menu and the printer will automatically shift to Quiet Mode at the specified time.



### Auto Power Off

Your PIXMA will automatically turn itself off after a specified interval of inactivity.

### Auto Power On\* **NEW**

It's not necessary to leave the printer ON to make sure you don't miss a print job. Whenever your PIXMA receives a print job, even if the power is OFF, it will automatically power ON and print. This is particularly useful for Wi-Fi printing and cloud printing jobs from outside the home.

\*PIXMA Ink Efficient E510 only.



## PAPER MEDIA & INK CARTRIDGES

### Photo Printing



- PT-101**  
Photo Paper Pro  
Platinum  
(Super High Gloss)
- 300g/m<sup>2</sup>
  - 4x6", A4



- PP-201**  
Photo Paper  
Plus Glossy II
- 275g/m<sup>2</sup>
  - 4x6", A4



- LU-101**  
Photo Paper  
Pro Luster
- 260g/m<sup>2</sup>
  - A4

NEW



- GP-501**  
Glossy Photo  
Paper
- 170g/m<sup>2</sup>
  - 4x6", A4



- SG-201**  
Photo Paper Plus  
Semi-Gloss
- 260g/m<sup>2</sup>
  - 4x6", 8x10", A4

### Special Projects



- MP-101**  
Matte Photo  
Paper
- 170g/m<sup>2</sup>
  - 4x6", A4



- TR-301**  
T-Shirt  
Transfers
- 143g/m<sup>2</sup>
  - A4  
(10 sheets/pack)



- PS-101**  
Photo Stickers
- 190g/m<sup>2</sup>
  - Stickers  
(5 sheets/pack)  
(16 photo stickers/  
sheet)

### Business Printing



- HR-101N**  
High Resolution  
Paper
- 106g/m<sup>2</sup>
  - A4

### Ink Cartridges

- High Yield  
PG-88  
Pigment  
Black
- 88**  
Black



- High Yield  
CL-98  
Dye  
Color
- 98**  
Color



## CREATIVE PARK PREMIUM EXCLUSIVE ACCESS!

ACCESS VIA  
MY IMAGE  
GARDEN

Creative Park Premium gives you exclusive access to the photos and illustrations of world-renowned artists. Use these free downloads to create magnificent prints, posters, calendars, greeting cards and so much more. You can also download templates and make intricate 3D paper sculptures. All you need is a PIXMA Printer complete with Canon Genuine Inks.



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These printers and Canon Original Inks give you exclusive access to Canon's CREATIVE PARK PREMIUM website. And it's yours FREE! This professional-quality content is available when all Canon Original Inks are properly installed. So bring out the best in yourself and your printer – visit Canon Creative Park Premium!

## CREATIVE PARK

[www.canon.com/c-park](http://www.canon.com/c-park)

Creative Park lets you turn ordinary paper into magical creations! Have endless fun making personalized gifts, cards, calendars and more. Or create amazing origami and 3D paper sculptures simply by downloading the templates. With Canon Genuine Inks and Photo Paper, you can work magic!



## PIXMA town

[www.canon-asia.com/pixmatown](http://www.canon-asia.com/pixmatown)

Imagine a place where you're inspired by everything you see! That's life in PIXMAtown, because you can't help being creative! Download templates and have fun with all sorts of crafts projects – from home decor to stationery. Be inspired by the hippest contemporary artists. In PIXMAtown, you're part of a truly creative community!



FREE DOWNLOADS!

SPECIFICATIONS

PRINT		PIXMA E600	PIXMA E510
Maximum Printing Resolution		4800 (horizontal) <sup>*1</sup> x 1200 (vertical) dpi	4800 (horizontal) <sup>*1</sup> x 1200 (vertical) dpi
Print Head / Ink	Type	FINE™ Cartridge	FINE™ Cartridge
	Total Number of Nozzles	1,792	1,792
	Ink Droplet Size (Min)	2pi	2pi
	Ink Tank	PG-88, CL-98	PG-88, CL-98
Print Speed	Document: Color <sup>*2</sup>	ESAT / Simplex approx. 5.2ipm	approx. 5.0ipm
	Document: B/W <sup>*2</sup>	ESAT / Simplex approx. 8.9ipm	approx. 8.6ipm
	Photo (4x6") <sup>*2</sup>	PP-201 / Borderless approx. 46sec.	approx. 44sec.
Printable Width		Up to 203.2mm (8 inches), Borderless: Up to 216mm (8.5 inches)	Up to 203.2mm (8 inches), Borderless: Up to 216mm (8.5 inches)
Printable Area	Borderless Printing <sup>*3</sup>	Top / Bottom / Right / Left margin: each 0mm (Supported Paper Size: A4 / LTR / 4x6" / 5x7" / 8x10")	Top / Bottom / Right / Left margin: each 0mm (Supported Paper Size: A4 / LTR / 4x6" / 5x7" / 8x10")
	Bordered Printing	Top margin: 3mm, Bottom margin: 5mm, Left / Right margin: each 3.4mm (LTR, LGL: Left: 6.4mm, Right: 6.3mm)	Top margin: 3mm, Bottom margin: 5mm, Left / Right margin: each 3.4mm (LTR, LGL: Left: 6.4mm, Right: 6.3mm)
Recommended Printing Area		Top margin: 32.5mm / Bottom margin: 33.5mm	Top margin: 32.5mm / Bottom margin: 33.5mm
Paper Size		A4, A5, B5, LTR, LGL, 4x6", 5x7", 8x10", Envelopes (DL, COM10)	A4, A5, B5, LTR, LGL, 4x6", 5x7", 8x10", Envelopes (DL, COM10)
Paper Handling (Front Tray) (Maximum Number)	Plain Paper	A4, A5, B5, LTR = 100, LGL = 10	A4, A5, B5, LTR = 100, LGL = 10
	High Resolution Paper (HR-101N)	A4 = 80	A4 = 80
	Photo Paper Pro Platinum (PT-101)	4x6" = 20, A4 = 10	4x6" = 20, A4 = 10
	Photo Paper Plus Glossy II (PP-201)	4x6" = 20, A4 = 10	4x6" = 20, A4 = 10
	Photo Paper Pro Luster (LU-101)	A4 = 10	A4 = 10
	Photo Paper Plus Semi-Gloss (SG-201)	4x6" = 20, A4 / 8x10" = 10	4x6" = 20, A4 / 8x10" = 10
	Glossy Photo Paper "Everyday Use" (GP-501)	4x6" = 20, A4 = 10	4x6" = 20, A4 = 10
	Matte Photo Paper (MP-101)	4x6" = 20, A4 = 10	4x6" = 20, A4 = 10
	Photo Stickers (PS-101)	1	1
	T-Shirt Transfer (TR-301)	1	1
	Envelope	European DL, US Com. #10 = 5	European DL, US Com. #10 = 5
Paper Weight	Rear Tray	Plain Paper: 64-105 g/m², Canon specialty paper: max paper weight: approx. 300g/m² (Photo Paper Pro Platinum PT-101)	Plain Paper: 64-105 g/m², Canon specialty paper: max paper weight: approx. 300g/m² (Photo Paper Pro Platinum PT-101)
Ink End Sensor		Dot count	Dot count
Print Head Alignment		Manual	Manual
SCAN			
Scanner Type		Flatbed & ADF	Flatbed
Scanning Method		CIS (Contact Image Sensor)	CIS (Contact Image Sensor)
Optical Resolution <sup>*4</sup>		1200 x 2400dpi	1200 x 2400dpi
Selectable Resolution <sup>*5</sup>		25 - 19200dpi	25 - 19200dpi
Scanning Bit Depth (Input / Output)	Grayscale	16 / 8bit	16 / 8bit
	Color	48 / 24bit (RGB each 16 / 8bit)	48 / 24bit (RGB each 16 / 8bit)
Line Scanning Speed <sup>*6</sup>	Grayscale	1.1 ms/lines (300dpi)	1.2 ms/lines (300dpi)
	Color	3.4 ms/lines (300dpi)	3.5 ms/lines (300dpi)
Scanning Speed <sup>*7</sup>	Reflective	A4 Color / 300dpi approx. 15sec.	approx. 14sec.
Maximum Document Size	Flatbed	A4, LTR (216 x 297mm)	A4, LTR (216 x 297mm)
COPY			
Maximum Document Size		A4, LTR (216 x 297mm) (ADF: A4, LTR, LGL)	A4, LTR (216 x 297mm)
Compatible Media	Size	A4, A5, B5, LTR, 4x6", 5x7"	A4, LTR, 4x6"
	Type	Plain Paper, Photo Paper Pro Platinum (PT-101), Photo Paper Plus Glossy II (PP-201), Photo Paper Pro Luster (LU-101), Photo Paper Plus Semi-Gloss (SG-201), Glossy Photo Paper "Everyday Use" (GP-501), Matte Photo Paper (MP-101)	Plain Paper, Photo Paper Plus Glossy II (PP-201), Photo Paper Pro Luster (LU-101), Photo Paper Plus Semi-Gloss (SG-201), Glossy Photo Paper "Everyday Use" (GP-501), Matte Photo Paper (MP-101)
Image Quality		3 positions (Fast, Standard, High)	Plain Paper: Fast, Standard / Other paper: Fix
Copy Speed <sup>*8</sup>	Document: Color	sFCOT / Simplex approx. 23sec.	approx. 30sec.
		sESAT / Simplex approx. 4.1ipm	approx. 2.5ipm
	Document (ADF): Color	sESAT / Simplex approx. 3.4ipm	–
Multiple Copy	Black / Color	Max. 99 pages	1-9 pages / 20 pages
FAX			
Type		Desktop Transceiver (Super G3 / Color Communication)	–
Applicable Line		PSTN (Public Switched Telephone Network)	–
Transmission Speed <sup>*9</sup>	Black	approx. 3sec. (33.6kbps)	–
	Color	approx. 1min. (33.6kbps)	–
Fax Resolution	Black	8pels/mm x 3.85lines/mm (Standard), 8pels/mm x 7.7lines/mm (Fine), 300 x 300dpi (Extra Fine)	–
	Color	200 x 200dpi	–
Print Size		A4, LTR, LGL	–
Scanning Width		208mm (A4), 214mm (LTR)	–
Modem Speed		maximum 33.6kbps (Automatic fall back)	–
Compression	Black	MH, MR, MMR	–
	Color	JPEG	–
Gradation	Black	256 levels	–
	Color	24bit Full color (RGB each 8bit)	–
ECM (Error Correction Mode)		ITU-T T.30 compatible	–
Automatic Dialing	Group Dialing	max. 19 locations	–
Transmission / Reception Memory <sup>*10</sup>		approx. 50 pages	–



PC-FAX			
Type		Windows: via FAX modem (in MFPP), Mac: NA	–
Destination Number		1 location	–
Black / Color		B/W transmission only	–
SYSTEM REQUIREMENTS			
Windows	(Please visit <a href="http://www.canon-asia.com">www.canon-asia.com</a> to check OS compatibility and to download the latest driver updates)	Windows XP SP2, XP SP3 / Windows Vista SP1, Vista SP2 / Windows 7, 7 SP1	Windows XP SP2, XP SP3 / Windows Vista SP1, Vista SP2 / Windows 7, 7 SP1
Macintosh		Mac OS X v10.4.11 – 10.7	Mac OS X v10.4.11 – 10.7
GENERAL SPECIFICATIONS			
Quick Start		approx. 4sec.	approx. 1sec.
Operation Panel	Display	Full Dot LCD (2.5inch / 6.2cm TFT color)	7-segment LED
ADF	Paper Handling (Plain Paper)	A4, LTR = 30, LGL = 5	–
Interface		USB 2.0 Hi-Speed	USB 2.0 Hi-Speed
Operating Environment		Temperature: 5 - 35°C; Humidity: 10 - 90% RH (no dew condensation)	Temperature: 5 - 35°C; Humidity: 10 - 90% RH (no dew condensation)
Storage Environment		Temperature: 0 - 40°C; Humidity: 5 - 95% RH (no dew condensation)	Temperature: 0 - 40°C; Humidity: 5 - 95% RH (no dew condensation)
Acoustic Noise (PC Print)	Photo (4x6")**1	approx. 42.0dB (A)	approx. 43.0dB (A)
Power		AC100 - 240V, 50/60Hz	AC100 - 240V, 50/60Hz
Power Consumption	Standby	approx. 1.6W	approx. 0.6W
	Copying**12 (PIXMA E510: USB Connection to PC)	approx. 14W	approx. 12W
Environment	Regulation	RoHS (EU, China), WEEE (EU)	RoHS (EU, China), WEEE (EU)
	Eco-Label	Energy Star	Energy Star
Monthly Duty Cycle		Up to 3,000 pages	–
Dimensions (WxDxH)		approx. 458 x 385 x 200mm	approx. 449 x 304 x 152mm
Weight		approx. 8.5kg	approx. 5.3kg

**Specifications are subject to change without notice.**

- \*1 Ink droplets can be placed with a pitch of 1/4800 inch at minimum.
- \*2 Document print speeds are the averages of ESAT in Office Category Test for the default simplex mode, ISO / IEC 24734.  
Photo print speed is based on the default setting using ISO / JIS-SCID N2 on Photo Paper Plus Glossy II and does not take into account data processing time on host computer.  
Print speed may vary depending on system configuration, interface, software, document complexity, print mode, page coverage, type of paper used, etc.
- \*3 Paper types NOT supported for borderless printing are as follows: Envelope, High Resolution Paper, T-Shirt Transfer, Photo Stickers.
- \*4 Optical resolution is a measure of maximum hardware sampling resolution, based on ISO 14473 standard.
- \*5 Increasing the scanning resolution will limit the maximum possible scanning area.
- \*6 The fastest speed in Hi-Speed USB on Windows PC. Transfer time to computer is not included.
- \*7 Color document scan speed is measured with ISO / IEC 24735 Annex C Test Chart A.  
Scan speed indicates the time measured between pressing the scan button of the scanner driver and the on-screen status display turning off.  
Scan speed may vary depending on system configuration, interface, software, scan mode settings, document size, etc.
- \*8 Copy speeds are the average of sFCOT and sESAT, ISO / IEC 29183. Copy speed may vary depending on document complexity, copy mode, page coverage, type of paper used etc., and does not take into account warm-up time.
- \*9 These values are a theoretical maximum transmission speed between the printer and an equivalent network device, and do not indicate the actual transmission speed obtained.
- \*10 When printing ISO / JIS-SCID N2 pattern on 4x6" Photo Paper Plus Glossy II using default settings.
- \*11 When copying ISO / JIS-SCID N2 (printed by inkjet printer) on A4 size plain paper using default settings.

**\*CHROMALIFE100 PROPER STORAGE CONDITIONS**

100-year life in an album:  
<Criteria for estimation> The permanence presented above is estimated using an accelerated dark storage test and designed for silver-halide photos (ISO/PD18909). Samples are printed with an optical density of 1.0 (each black, cyan, magenta, yellow) and kept in a controlled environment of high temperature and 50% relative humidity. The test environment is designed to accelerate color fading. The rate of the decrease in the optical density and the rate of yellow discoloration of the paper are measured. Finally, the results are extrapolated to the length of time when a printed image is kept in an environment of 23°C 50% RH.

30-year lightfastness:  
<Criteria for estimation> When displayed in a glass frame in a typical indoor space (estimating 500 lux / 10 hours per day) without direct sunlight. Estimated lightfastness is made under the following test conditions. Light source: White fluorescent light 70,000 lux; Temperature: 24°C; Humidity: 60% RH; A 2mm thick glass is placed on the sample with an air gap between the glass and the sample during accelerated testing.

10-year gas fastness:  
<Criteria for estimation>  
Estimated gas fastness is made under the following test conditions: Temperature (24°C) and humidity (60% RH) are controlled in an environment of mixed gases of O<sub>3</sub>, NO<sub>x</sub> and SO<sub>x</sub>. The ratio of the gases is typical to indoor air composition (O<sub>3</sub>: NO<sub>x</sub>: SO<sub>x</sub> = 3: 19: 1) with 100 times concentration in order to accelerate fading.

<Criteria for estimation of print longevity>  
Estimates for image permanence are made using the Wilhelm Imaging Research, Inc. Endpoint criteria: Accumulated illuminance causes a monochromatic / reflective optical density loss of 20-35% (figures set respectively for each color, starting density of 1.0). Accumulated illuminance causes a difference in color balance of yellow, magenta and cyan (each component in composite black) of 12-18%.

<Tips>  
Making your printed images last longer: Light, environmental gases, high temperature and humidity can accelerate color fading. When displaying your photographs, avoid high intensity lighting and use glass-filtered frames. Photos stored in the dark, using archival quality albums or storage materials, will tend to last longer than photos that are exposed to light. Avoid high temperatures and high humidity to promote the image permanence of your photos.

Note: The image permanence estimates presented above may vary depending on display/ storage conditions. The expressed numbers of years estimates are the result of stimulated, accelerated tests conducted by Canon Inc. and do not represent a product guarantee.



**SOUTH & SOUTHEAST ASIA REGIONAL HEADQUARTERS:  
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