Canon

imageRUNNER 1435i 1435iF



imageRUNNER 1435P



Service Guide

Published by
Canon U.S.A., Inc.
One Canon Park
Melville, NY 11747-3336
1-800-OK-CANON
serviceplanning@cusa.canon.com

Canon U.S.A. Homepage: http://www.usa.canon.com
Canon U.S.A. e-Support Center Web site: http://www.support.cusa.canon.com
Canon U.S.A. ISG Central Web site: http://www.isgcentral.cusa.canon.com
Canon Network Access (CNA) Web site: http://www.cna.cusa.canon.com

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REVISION HISTORY

Revision	Date	Section(s)	Details
—	May 2015	All	Release of the imageRUNNER 1400 Series Service Guide
1	May 2015	II	Remove GPR-54 Toner Black from box contents
2	May 2015	I, XI	Increase maximum scan speed from 28 ipm to 29 ipm
3	July 2015	I, II, IV, VI, VII, X	Include imageRUNNER 1435P printer-only model

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I. Product Overview

The Canon imageRUNNER 1435iF and 1435i are compact, B&W (Black-and-White), laser, multifunction devices with copy, print, and scan capabilities. The imageRUNNER 1435iF also includes fax capabilities. The imageRUNNER 1435P is a compact, B&W, laser printer. These models also bring the following capabilities to users in a small office or home office environment:

- Connectivity:
  - USB 2.0 High Speed port for printing and scanning from USB memory.
  - 1000Base-T/100Base-TX/10Base-T Ethernet connectivity that supports network printing, and scanning.
  - imageRUNNER 1435iF also supports PC faxing.
- Print speeds (using LTR (letter-sized) paper) up to 37 ppm[1] (pages-per-minute).
- Duplex functions
  - imageRUNNER 1435iF: Duplex print, copy, scan, and fax.
  - imageRUNNER 1435i: Duplex print, copy, and scan.
  - imageRUNNER 1435P: Duplex print
- Optical scanning at a resolution of up to 600 x 600 dpi (imageRUNNER 1435iF and 1435i only).
- Includes an automatic document feeder with a capacity up to 50 sheets (imageRUNNER 1435iF and 1435i only), a front-loading paper cassette with a capacity of up to 500 sheets, and a multipurpose tray with multiple-sheet feeding capability.
- 33.6 Kbps Super G3 fax capabilities (imageRUNNER 1435iF only).
- Meets the ENERGY STAR guidelines for energy efficiency.
- Standard UFR II LT, PCL5c, PCL6, and PS printing on the imageRUNNER 1435iF and 1435P, standard UFR II LT with PCL6 and PS printing optional on the imageRUNNER 1435i.
- Remote User Interface allows remote printer configuration and management.
- Scan documents, and send them via e-mail message directly from the printer, or store them in a shared network folder (imageRUNNER 1435iF and 1435i only).
- Total black-and-white print and copy counters (copy counter incremented on imageRUNNER 1435iF and 1435i only).
- Support for mobile printing from Apple iOS and Android mobile devices.
- Embedded uniFLOW support, eliminating the need for external release hardware.
- Lower maintenance design with longer-lasting consumable parts and limited end-user replaceable parts.

1 The copy/print speed is measured during continuous copy/print runs. Copy/print speeds may vary, depending on the paper type, size, and paper feeding direction. Copy/print speeds on smaller paper sizes may be slower. Also, the machine may experience downtime, or slow down in the middle of a continuous copy/print run to adjust the temperature inside the machine, and maintain optimal print quality.

Table 1 — imageRUNNER 1400 Series Comparison

Feature		imageRUNNER		
		1435iF	1435i	1435P
Print Speed (ppm) (LTR)		Up to 37		
Optimum Copy/Print Volume		Approximately 1,000 to 5,000		
Scan Speed	Simplex	Up to 29 ipm		N/A
	Duplex	Up to 10 ipm		N/A
Automatic Document Feeder		Standard		N/A
Feeder Capacity		Up to 50 sheets (20 lb. bond (80 g/m^2))		N/A
Resolution	Reading	Up to 600 x 600 dpi		N/A
	Writing	Up to 1,200 x 600 dpi (enhanced)		
Maximum Paper Size		8.5" x 14"		
Maximum Paper Weight	Paper Drawer	24 lb bond (90 g/m^2)		
	Multi-Purpose Tray	34 lb cover (128 g/m^2)		
Paper Capacity	Paper Drawer	Up to 500 sheets (20 lb bond (80g/m^2))		
	Multi-Purpose Tray	Up to 100 sheets (20 lb bond (80 g/m^2))		
Multiple Copies		1 to 999 sheets		N/A
Printer Memory		512 MB		
Warm Up Time (at room temperature of 68 deg F (20 deg C))[2]	After Power On	20 seconds		
	From Sleep Mode	7.8 seconds		
FCOT (First Copy Out Time)		6.9 seconds (platen), 7.9 seconds (ADF)		5.0 seconds (First Print Out Time)
Power Consumption[3]	Maximum	1500 Watts		
	Sleep Mode	2.0 Watts or less		
Power Requirement		120V AC, 60Hz		
Plug Type		NEMA 5-15P		
Toner Yield (at 6% Coverage (LTR))		Approximately 17,600		
Drum Yield		Approximately 35,500		
Copy		Standard		N/A
Print	UFR II LT	Standard		
	PCL6 and PS	Standard	Optional[4]	Standard
	USB Direct Print	Standard	Optional[5]	Standard
Send	PDF Security	Optional[6]		N/A
	Email	Standard		N/A
Fax (up to Super G3)		Standard	N/A	
Network		Standard Ethernet 1000Base-T/100Base-TX/10Base-T		
Remote UI		Standard		

2 Activation time may vary, depending on the environment and conditions under which the machine is used.
3 These values may differ, depending on the system and conditions of use.
4 Requires installation of the PCL Printer Kit-BA1 and PS Printer Kit-BA1.
5 Requires installation of the USB Direct Print Kit-K1.
6 Requires installation of the Send PDF Security Feature Set-E1.

II. Product Configuration and Box Contents

A. Configuration

Note: All configurations shown are for reference purposes only, and are subject to change without notice. Please refer to the Price List in the CNA (Canon Network Access) Web site www.cna.cusa.canon.com for the most up-to-date item numbers.

Table 2 — Configuration

Item	Part Number[7]
imageRUNNER 1435iF with the Optional Cassette Module-AC1 	
imageRUNNER 1435iF[8]	9507B001AA
imageRUNNER 1435i[9]	9506B001AA
imageRUNNER 1435P[10]	0188C001AA

7 Item numbers and part numbers are subject to change without notice.
8 Ships standard with Duplex Automatic Document Feeder (DADF), UFR II LT, PCL, Genuine Adobe PS3 printing, one 500-sheet cassette, 100-sheet Stack Bypass, 512MB RAM, 1000Base-T/100Base-TX/10Base-T and USB 2.0 connectivity.
9 Ships standard with Duplex Automatic Document Feeder (DADF), UFR II LT printing, Color Send, one 500-sheet cassette and one 100-sheet Stack Bypass, 512MB RAM, 1000Base-T/100Base-TX/10Base-T and USB 2.0 connectivity.
10 Ships standard with UFR II LT, PCL, Genuine Adobe PS3 printing, one 500-sheet cassette and one 100-sheet Stack Bypass, 512 MB RAM, 1000Base-T/100Base-TX/10Base-T and USB 2.0 connectivity.

Table 3 — Hardware Accessories

Item	Part Number
Cassette Module-AC1[11,]	9508B001AA
FL Cassette-AW1[12,]	9509B001AA
Copy Card Reader-F1[13] (imageRUNNER 1435iF and 1435i only)	4784B001AA
Copy Card Reader Attachment-E1[14]	9659B001AA
Cabinet Type-K	0989C001AA
USB Keyboard	1266V426
Canon Card Set-A1 (1-30)	4781B001AA
Canon Card Set-A2 (31-100)	4781B002AA
Canon Card Set-A3 (101-200)	4781B003AA
Canon Card Set-A4 (201-300)	4781B004AA
Canon Card Set-A5 (301-500)	4781B005AA
Canon Card Set-A6 (501-1000)	4781B006AA
ADF Access Handle-A1 (imageRUNNER 1435iF and 1435i only)	1095B001AA
Braille Label Kit-F1	7518A004AA
Copy Control Interface Kit-C1[15]	5145B001AA
Convenience Stapler-B1[16]	1727V838
Universal Keyboard Stand-A1	2212V477
Card Reader Assembly for Universal Keyboard Stand	2212V478

Supplies and Consumables	
GPR-54 Drum Unit (Yields approximately 35,500 pages (LTR), with the factory default print density setting.)	9437B003AA
GPR-54 Toner Black (Yields approximately 17,600 pages (LTR), with the factory default print density setting.)	9436B003AA

Service Materials and Parts Catalog	
imageRUNNER 1400 Series Service Manual	Available for download on the e-Support Web site
imageRUNNER 1400 Series Parts Catalog	

11 Adds one additional 500-sheet cassette and a stand. The total paper capacity becomes approximately 1,100 sheets (500 x 2 + 100-sheet multipurpose tray).
12 Can be used as a replacement for the cassette in the main unit or the cassette in the optional Cassette Module-AC1.
13 Requires the Copy Card Reader Attachment-E1 for installation.
14 Required to attach the Copy Card Reader-F1 to the device. Can also be used as a shelf for a proximity card reader.
15 Cannot be installed if Copy Card Reader-F1 is installed. Provides connection point only. Integration and additional cable from third party vending terminal is required.
16 Uses Staples-P1 (1008B001AA). Two cartridges per case. 5,000 staples per cartridge.

B. Box Contents

Note: The box contents shown below are for reference purposes only, and are subject to change without notice.

- imageRUNNER 1400 Series Device
- User Manual DVD-ROM
- Power Cord
- Starter Guide
- Warranty Card
- Telephone Cord (1435iF only)

III. Hardware Accessory Options

A. Cassette Module-AC1



- 500 sheets (17 lb bond to 21 lb bond [64 to 80 g/m²]) or 480 sheets (22 lb bond to 24 lb bond [81 to 90 g/m²])).
- Maximum paper size: LGL (8 ½" x 14").
- Single drawer.

B. FL Cassette-AW1



- 500 sheets (17 lb bond to 21 lb bond [64 to 80 g/m²]) or 480 sheets (22 lb bond to 24 lb bond [81 to 90 g/m²])).
- Can replace the drawer in the main unit or in the Cassette Module-AC1.
- Maximum paper size: LGL (8 ½" x 14").

C. Copy Card Reader-F1



- Supports up to 300 departments or users.
- Performs Department ID Management automatically. Users must insert a control card to access the machine.
- For use with Card Set-A1 through A6.
- Requires the Copy Card Reader Attachment-E1.
- Cannot be used with Control Interface Kit-C1.
- Available only for the imageRUNNER 1435iF and 1435i.

D. Cabinet Type-K



- Contains storage space for additional supplies.
- Can be used to facilitate maneuvering of the machine if it needs to be moved.

E. Control Interface Kit-C1

- Allows connection of 3rd party hardware, typically pay-for-service terminals.
- Cannot be used with Copy Card Reader-F1.

IV. System Options

The functionality of the imageRUNNER 1400 Series can be expanded by installing the following system-related optional accessories.

A. USB Direct Print Kit-K1

- Enables the user to print PDF files directly from storage media plugged into the USB port.
- Available for the imageRUNNER 1435i (feature is standard on 1435iF and 1435P)
- Requires license activation via the LMS.

B. Barcode Printing Kit-D1

- Provides the ability to print 1D and 2D barcodes on output.
- Requires PCL Printer Kit-BA1 (for imageRUNNER 1435i).
- Requires license activation via the LMS.

C. PCL Printer Kit-BA1

- Supports the PCL5c/6 emulation printing solutions.
- Supports printing in true 600 x 600 dpi resolution with the Canon PCL6 Printer Driver.
- Available for the imageRUNNER 1435i (feature is standard on 1435iF and 1435P).
- Requires license activation via the LMS.

D. PS Printer Kit-BA1

- Supports the PostScript 3 printing solution.
- No additional memory is required.
- Supports printing in true 600 x 600 dpi resolution.
- Available for the imageRUNNER 1435i (feature is standard on 1435iF and 1435P).
- Requires license activation via the LMS.

E. Send PDF Security Feature Set-E1

- Enables the user to encrypt PDF and Digital Device Signature PDF files, as well as set a password to send them safely to a file server or e-mail address.
- Enables the recipient of a PDF or Digital Device Signature PDF file to verify which device scanned the file.
- Available only for the imageRUNNER 1435iF and 1435i.
- Requires license activation via the LMS.

V. Service Authorization

To obtain and maintain authorization to service the imageRUNNER 1400 Series, each dealer location must have at least one (1) technician who has successfully completed the imageRUNNER 1400 Series device-training program.

VI. Educational Training

A. Training Program Overview

The imageRUNNER 1400 Series Online Training e-Learning course provides the technician with the knowledge required for installing, upgrading, servicing, and maintaining the imageRUNNER 1400 Series devices in the field.

The online e-Learning course focuses on the features and functions, functional systems, disassembly, component identification, troubleshooting, and servicing procedures to support these devices in standalone and networked environments.

B. Certification

The successful completion of the imageRUNNER 1400 Series Online Training program is required to sell this product.

Certification includes the following devices:

- imageRUNNER 1435iF
- imageRUNNER 1435i
- imageRUNNER 1435P

C. Who Should Attend

It is highly recommended that any technician responsible for installing, servicing, or supporting the imageRUNNER 1400 Series machines successfully complete the online e-Learning training course.

Note: Our current support policy dictates that only those technicians who have completed the training program are entitled to live, phone-based support through our TSC (Technical Support Center). However, self-service support (software downloads, knowledgebase articles, support forums, technical publications) is available through the Canon U.S.A., Inc. (hereinafter referred to as ("Canon USA")) e-Support Center Web site for all technicians. (Refer to the Technical Support section on the e-Support Center Web site for entitlement details.)

D. Training Facilities

The online course is located in the e-Learning center on the Canon USA e-Support Center Web site: http://www.support.cusa.canon.com. Certification maps on the e-Support Center Web site provide easier access to the training. This e-Learning course can be conducted at any Dealer facility that is suitable for online student learning.

E. Prerequisites

Prior to taking the imageRUNNER 1400 Series Online Training program, a technician is required to complete the Applied Technology eLearning course.

F. What You Will Learn

The imageRUNNER 1400 Series Online Training program takes approximately 2 hours to complete. The items covered include:

- Service Manual
- Product Overview
- Control System
- Original Exposure
- Media Transport
- Image Formation
- Fixing
- Servicing

G. Course Format

The imageRUNNER 1400 Series Online Training e-Learning course is located in the e-Learning center on the e-Support Center Web site. This is a self-paced course.

It takes approximately 3 hours to complete this course successfully. It is strongly recommended that an imageRUNNER 1400 Series machine be available.

All students must complete an assessment exam at the end of this course to receive certification on the imageRUNNER 1400 Series machines.

H. Course Equipment

- imageRUNNER 1400 Series machine
- Windows workstation
- Flash-enabled Web browser (preferably Microsoft Internet Explorer)
- USB cable
- One USB Flash memory
- Service Tools

I. Service Materials

The materials required for the imageRUNNER 1400 Series Online Training program are listed in the table below.

Table 4 — Hardware Accessories

Model/Accessory	Item	Location
imageRUNNER 1400 Series	e-Learning Training Program	Conducted online
	Service Manual	Downloadable from the e-Support Center Web site
	Parts Catalog	

VII. Servicing Notes

A. Power and Plug Requirements

Canon USA strongly suggests dedicated and properly grounded outlets be provided for the imageRUNNER 1400 Series devices.

The imageRUNNER 1400 Series devices require a NEMA 5-15R receptacle for proper operation. Before installation, confirm that the proper dedicated NEMA receptacles are available for these devices.

Table 5 — Power and Plug Requirements



NEMA 5-15R Receptacle

Table 6 — Power Requirements for the Main Unit and Optional Accessories

Part or Accessory	Power Supply	Power Supply Cord/Plug Specifications	Length of Power Cord
Main Unit	1-120V/15 A outlet	NEMA 5-15P	6.5' (2.0 m)
Cassette Module-AC1	From the main unit	—	—
Copy Card Reader-F1 (imageRUNNER 1435iF and 1435i only)	From the main unit	—	—

IMPORTANT

- We recommend an additional standard 120V/15 A outlet for service tools, such as a laptop computer or vacuum that may be used when servicing or configuring the machine.
- Use only dedicated and properly grounded outlets for the main unit. It is also strongly suggested to use dedicated and properly grounded outlets for each optional accessory. Do not use extension cords. The ground connection serves to provide the internal electronics with a reference voltage. Faulty or poor ground sources will cause this reference voltage to fall into a range that no longer serves as a reliable reference voltage. The internal logic and programming of the imageRUNNER 1400 Series machines will not perform reliably because there is an insufficient difference between the internal operating signal voltages and the poor ground reference signal. A qualified electrician can measure and provide the ground source that the imageRUNNER 1400 Series machines or any computer controlled office equipment requires.
- Before installation, confirm that all necessary receptacles are available.

B. Installation Space Requirements

The imageRUNNER 1400 Series machine approximate installation space requirements may differ, depending on how the machine is configured and the optional accessories attached. Always ensure that there is enough space for service and operation of the device.

IMPORTANT

- Make sure to keep the back and sides of the machine approximately 4” (100 mm) away from a wall for the proper servicing of the equipment.
- Make sure that approximately 19 3/4” (500 mm) or more space is left around the front, left, and right sides of the machine for the proper servicing of the equipment.
- The floor must be level (with no bows) and flat for the stabilization and support of the machine.

imageRUNNER Model	Width	Depth	Height
1435iF and 1435i	21.5” (545 mm)	18” (457 mm)	18.7” (476 mm)
1435P	21.5” (545 mm)	18” (457 mm)	15 1/8” (383 mm)

Table 7 — imageRUNNER 1435iF and 1435i Installation Space Requirements

Width and Depth Requirements With the Paper Cassette and Left Door Open

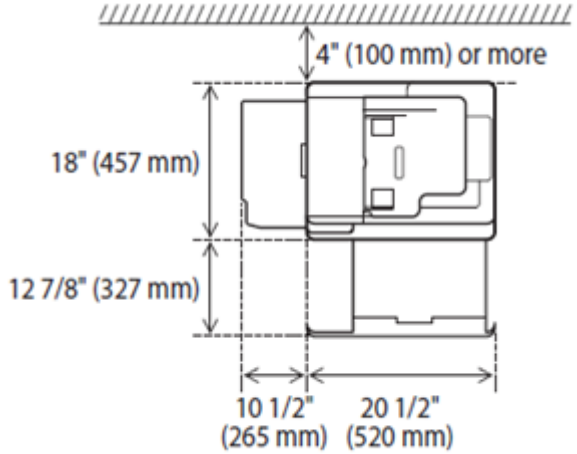
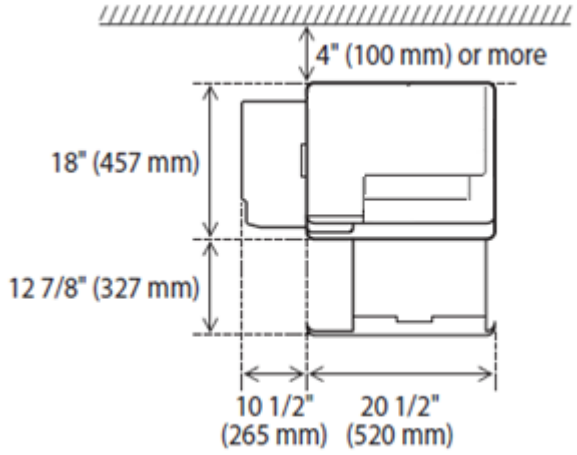


Table 8 —imageRUNNER 1435P Installation Space Requirements

Width and Depth Requirements With the Paper Cassette and Left Door Open



C. Estimated Installation Time

The table below indicates the estimated length of time needed to unpack and install the main unit and optional accessories, and calculated from the average amount of labor hours. The estimated installation times are based on one (1) experienced technician.

IMPORTANT

The installation of the main unit on the optional Cassette Module-AC1 requires two (2) or more technicians.

Table 9 — Estimated Installation Times

Description	Estimated Time
imageRUNNER 1400 Series Main Unit	9 minutes
Cassette Module-AC1	3 minutes
Copy Card Reader-F1, with Attachment-E1 (imageRUNNER 1435iF and 1435i only)	15 minutes
Control Interface Kit-C1	6 minutes
FL Cassette-AW1	2 minutes

D. Remote Support Service

Remote support service consists of the iWEMC (imageWARE Enterprise Management Console).

1. imageWARE Enterprise Management Console and Plug-ins

imageWARE Enterprise Management Console is a web-based network device management utility that enables centralized installation and management of network devices installed across enterprises.

imageWARE Enterprise Management Console provides the customer with the ability to discover devices, view device status, manage device settings using tasks, and notify end-users of device errors via e-mail. The capabilities of imageWARE Enterprise Management Console are expanded using optional plug-in applications.

The imageWARE Enterprise Management Console and many plug-ins are available at no charge. The imageWARE Enterprise Management Console and optional plug-ins are available for the customer and/or dealer through Canon U.S.A.'s www.imageware.com website or to the dealer only through Canon U.S.A.'s e-Support Center website www.support.cusa.canon.com.

2. Content Delivery System

The imageRUNNER 1400 series does not support Content Delivery System over the Internet.

The imageRUNNER 1400 series supports Local Content Delivery System, which requires that a Local CDS server is installed at the customer site and on the same network as the device.

Note: The dealer must have a technician register a firmware update on the Local CDS server. For more information, see the *Content Delivery System Operation Manual* and the *imageRUNNER 1400 Series Service Manual*.

E. Serviceability

The imageRUNNER products are designed to improve serviceability, quality, and deliver lower service costs, which result in increased dealer service profitability.

Enhanced serviceability, as part of the overall design of the imageRUNNER products, enables a reduction in the time required to service the machine's major components. Access to common parts and frequently-used components has been improved to enable technicians to perform tasks more efficiently.

In addition, technology improvements and the FRU (Field Replaceable Unit) Program have reduced parts pricing, improved the cost per copy/print, and reduced the price of the fixing roller.

Finally, the use of Remote Support Services provides your dealership with remote meter reading and service monitoring capabilities using imageWARE Remote. All of these factors combined, helps to reduce the overall cost per copy/print, and enables competitive suggested maintenance pricing and favorable margins.

F. Less Maintenance Strategy

The imageRUNNER 1400 Series machines are designed for ease of installation and parts replacement, thereby reducing dealer labor costs. Serviceability improves because these machines are equipped with the potential to reduce service operation costs for the dealer. The customer also maintains uptime by enabling a nontechnical person (end-user) to perform installation and replace parts. This includes trained delivery people, the person responsible for daily maintenance at the customer site, and end-users.

Canon USA suggests the following tasks as possible options designed to enable dealerships to reduce service costs and maintain uptime for the customer:

- Device installation by an end-user or a less-skilled person, such as a junior technician
- Select parts replacement by an end-user or a less-skilled person, such as a junior technician

The imageRUNNER 1400 Series machines provide dealers with more options for easy installation and parts replacement. The Less Maintenance strategy is solely at the discretion of the dealer, however, Canon USA encourages dealers to utilize this strategy as an opportunity to reduce service costs and maintain uptime for their customers.

G. Device Configuration Management

There are two tools to help a System Administrator manage device configuration settings from device to device, and they are standard tools on the imageRUNNER 1400 Series: DCM (Device Configuration Manager) and Device Migration Navigator.

1. DCM (Device Configuration Manager)

The DCM reduces the installation time for a new or replacement imageRUNNER device by enabling the user modes and service modes to be exported from the current device, and then imported to a new or replacement device.

The settings can be exported from the current device via the Remote UI or the Device Information Delivery Settings function, or via the Service Mode to USB memory media. To import these settings to a new or replacement device, use the Remote UI, or import them via the Service Mode from USB memory media. For more information on the DCM, see the *imageRUNNER 1400 Series Service Manual*.

2. Device Migration Navigator

The Device Migration Navigator is an application that helps the service technician select the best migration tool (Remote UI or USB memory media) to transfer device settings based on the source device, destination device, and the settings that need to be transferred.

The Device Migration Navigator delivers a printable report that shows the service technician the tools to use, the migration procedure, and the migration limitations. It is also available at no charge from CUSA's e-Support Web site Download Center.

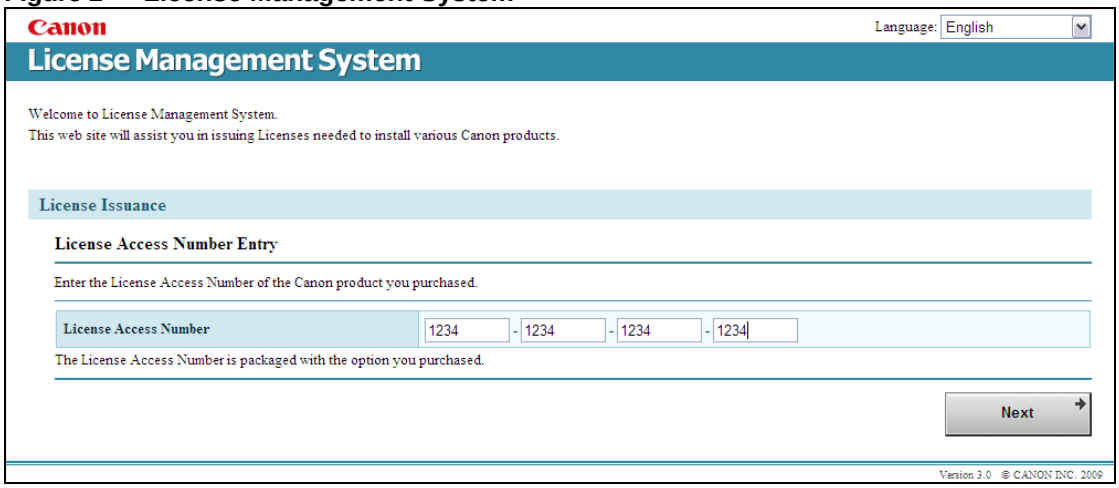
Note: The Device Migration Navigator is only used to transfer device settings. It is not used to back up or restore RAM data.

H. LMS (License Management System)

To activate optional software programs, you must obtain a license key through the LMS server. This replaces the need for additional hardware or dongles to activate new software.

The LMS is a server-based software license program. All optional software programs require a LAN (License Access Number) and serial number to generate a license key to install the software. The LAN is provided by Canon USA via mail within one to two weeks after purchase. The URL to access the LMS server is: http://www.canon.com/lms/license/.

Figure 1 — License Management System



If there are activation or installation issues, contact the Technical Support Center. Be prepared to provide the product's serial number, license access number, and license key.

Notes:

- The license access number comes with the software. Keep the license access number in a secure location, as it cannot be replaced if lost.
- The machine's serial number can be found on the Counter Check screen on the machine's UI.
- Activated software programs are not impacted by normal service activity.

I. Recommended System Engineer Requirements

An SE (System Engineer)[17] is recommended to work with Canon's networked devices, and should have the following basic job functions:

- Systems integration (pre-sale and post-sale)
- Installation
- Education of customers and dealership personnel
- Troubleshooting

To perform the above tasks successfully, it is crucial that the SE have strong computer skills and working knowledge in the following areas (listed in order of importance):

1. The major computer platforms (IBM-compatible and Macintosh)
2. Computer hardware (including cabling)
3. Computer software (including drivers)
4. Operating systems:
   - Windows 2000 Professional/Server/Advanced Server
   - Windows XP Professional/Home Edition (32 bit)
   - Windows XP Professional x64 (64 bit)
   - Windows Server 2003 (32 and 64 bit versions)
   - Windows Vista (32 bit)
   - Windows 7 or 8
   - Mac OS versions 10.1.5 and up (for PS/PCL), and versions 10.2.8 – 10.4.2 (for UFR II)
5. Network Operating Systems:
   - Novell NetWare 3.*x*, 4.*x*, 5.*x*, and 6.*x*
   - Windows NT/2000/2003
   - Mac OS X
6. Protocols:
   - TCP/IP
   - IPX/SPX
   - NetBIOS
   - AppleTalk
7. Printing
8. Scanning

It is also important that the SE have computer skills and working knowledge in the following areas:

- Other computer platforms (mainframe and UNIX)
- Networking
- Basic electronics

17 An SE (System Engineer) is a professional title often used by hardware vendors for individuals who perform systems related tasks, such as analysis, design, and programming. System Engineers are also often involved in pre-sales activities.

The Education/Training (listed in preferred order) of a successful Canon dealership's SE include:

1. Novell CNA or Novell CNE or Microsoft MCSE certification
2. Two years of experience being a Canon Copier Service Technician (training centered on connectivity products)
3. A degree in Computer Science or Engineering, or a computer technician with two years of experience is required in the above areas.

J. Firmware Upgrade

Firmware can be downloaded by the end-user or service technician via a USB cable or a wired/wireless network that is connected to a computer. Firmware is available for download on Canon U.S.A., Inc.'s (hereinafter referred to as Canon USA) public Web site (http://www.usa.canon.com/cusa/support/consumer/). When servicing the machine, make sure to go to Canon USA's public Web site, and download the most recent firmware.

Notes:

- The Main Controller PCB and the DC Controller PCB can be upgraded using the UST.
- The UST and firmware are included in the firmware package download from Canon USA's public Web site.

K. Computer Requirements for Downloading Firmware

The recommended desktop PC or laptop requirements[18] to download the firmware are:

- CPU: Celeron 400 MHz or higher (32-bit processor only)
- Memory: 32 MB of RAM or more
- Free HDD Capacity: 100 MB or more of available hard disk space
- High-Speed USB 2.0 (recommended) or 1.1
- Display: 640 x 480 resolution or better, 256 colors or more
- Operating System (any of the following):
  - Microsoft Windows 2000 Server/Professional
  - Microsoft Windows XP Professional or Home Edition
  - Microsoft Windows Server 2003
  - Microsoft Windows Vista (32-bit processor version only)
  - Microsoft Windows 7, 8, or 8.1
  - Microsoft Windows Server 2008/2012
  - Mac OS X 10.3 or later
- Necessary Cables: High-Speed USB 2.0-compliant cable (as short as possible to avoid connection problems).

  Note: Do not use extension cables.

L. PC-less Firmware Upgrade

The imageRUNNER 1400 Series firmware can also be upgraded without the use of an external PC.

Note: The device must be connected to a network with Internet access.

The device is set to update firmware via the Internet. After the device downloads the firmware update, it restarts and installs the update. For more information on updating firmware without a PC, see the *imageRUNNER 1400 Series User's Manual* and *imageRUNNER 1400 Series Service Manual*.

18 Specifications are subject to change without notice.

M. Special Tools, Solvents, and Oils

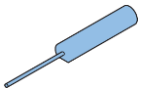
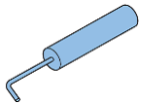
The tools listed in the tables below are necessary for the proper servicing of the machine. For more information on the tools below, see the *imageRUNNER 1400 Series Service Manual.*

Table 10 — Service Tools

Tool Name	Part Number[7]	Usage/Remarks
Tool Case	TKN-0001	—
Jumper Wire	TKN-0069	With clip.
Gap Gauge	CK-0057	0.02 mm to 0.03 mm
Spring Scale	CK-0058	Used to check the paper cassette's spring pressure.
Philips Screwdriver	CK-0101	M4, M5 length: 363 mm
	CK-0104	M3, M4 length: 155 mm
	CK-0105	M4, M5 length: 191 mm
	CK-0106	M4, M5 length: 85 mm
Flat-Blade Screwdriver	CK-0111	—
Precision Slot Head Screwdriver	CK-0114	Six-piece set
Hex-Key Wrench Set	CK-0151	Five-piece set
Smooth File	CK-0161	—
Hex Screwdriver	CK-0170	M4, length: 107 mm
Nipper	CK-0201	—
Long-Nose Pliers	CK-0202	—
Pliers	CK-0203	—
Stop-Ring Pliers	CK-0205	For shaft ring.
Crimping Tool	CK-0218	—
Tweezers	CK-0302	—
Scale	CK-0303	150 mm for measurement
Plastic Hammer	CK-0314	—
Brush	CK-0315	—
Penlight	CK-0327	—
Plastic Bottle	CK-0328	—
Lint-Free Cloth	CK-0336	500 SH/PKG
Oiler	CK-0349	30 cc
Plastic Bottle	CK-0351	30 cc
Digital Multimeter	FY9-2032	—

7 Item numbers and part numbers are subject to change without notice.

Table 11 — Special Tools List

Description	Appearance	Rank	Part Number[7]	Remarks
Digital Multimeter		A	FY9-2002-000	Used for electrical checks and adjustment of laser power with the laser power checker.
Tester Extension Pin		A	FY9-3038-000	Used as a probe extension when making electrical checks.
Tester Extension Pin (L-shaped)		A	FY9-3039-000	Used as a probe extension when making electrical checks.
NA-3 Test Sheet		A	FY9-9196-000	Used for checking and adjusting images.
Rank Description				
A: Each service person must carry one.				

7 Item numbers and part numbers are subject to change without notice.

Table 12 — Solvents and Oils

Type	Uses	Composition	Remarks
Alcohol	Cleaning glass, plastic, rubber, external covers.	• Fluoride-family hydrocarbon • Alcohol Surface activating agent • Water	• Do not put near fire. • Procure locally • Substitute: IPA (isopropyl alcohol)
Alcohol	Cleaning (e.g.) metal, oil stain, toner stain	• Fluoride-family hydrocarbon • Chlorine-family hydrocarbon • Alcohol	• Do not bring near fire. • Procure locally • Substitute: MEK
Lubricating Oil (EM-50L)	Application to gear, shaft of the CIS unit	• Special oil • Special solid lubricating agent • Lithium soap	• Dow Corning Corp. • Tool No. : HY9-0007 (20g)
Lubricating Oil (HP-300)	Application to bushing (L/R) of the pressure roller	Composition oil	• Dow Corning Corp. • Tool No. : CK-8012 (100g)
Conducting grease	Application to contact plate spring, developing sleeve electrode	Mineral oil	• FLOIL GE-676 • Tool No. : FY9-6023 (20g)
Oil Glass Cleaner	Application to stream reading glass	-	• TAIHO KOHZAI • Tool No. : FY9-6020(10ml) • Tool No. : FY9-6035(80ml)

N. Consumables

Consumables are all products and materials that are consumed with regular use and cannot be reused. Such consumables include but are not limited to paper and toner.

A number of factors are considered to determine the approximate yield expectancy of a consumable item, including paper size and the amount of coverage per page.

Note: All consumables shown in the table below are estimates for reference purposes only, and are subject to change without notice.

Table 13 — Main Unit Consumables List

Description	Part Number[7]	Quantity	Estimated Life (prints)[19]	Remarks
GPR-54 Drum Unit	9437B003AA	1	35,500	Based on plain LTR paper with an image ratio of 6%.
GPR-54 Toner Black	9436B003AA	1	17,600	

7 Item numbers and part numbers are subject to change without notice.

Note: Make sure to store toner bottles horizontally with the proper side facing up. Follow storage instructions on the toner packaging.

19 The value is based on LTR paper with the factory default print density setting.

O. Consumable Parts

Consumable parts are parts that have a limited life, which will be reached during a customer's specific machine operation, and should then be replaced as needed by a service technician.

An estimated consumable parts list is provided in the table below to assist in the initial parts/supplies planning. A consumable part's life expectancy is directly related to usage factors, such as paper size, paper quality, environment, usage application, and machine maintenance. Therefore, consumable parts do not have a warranty, and Canon U.S.A. cannot guarantee a minimum life.

Note: All consumable parts shown in the table below are estimates for reference purposes only, and are subject to change without notice

Table 14 — Main Unit Consumable Parts List

Description	Part Number[7]	Quantity	Estimated Life (prints)[19]	Remarks
ADF Pickup Roller Unit	FM4-9859-000	1	50,000	• Customer replaceable, if dealer chooses to allow. • Customer Replaceable Set Part Number FM4-9866-000 • imageRUNNER 1435iF and 1435i only
ADF Separation Pad	FM4-9857-000	1	50,000	

7 Item numbers and part numbers are subject to change without notice.
19 The value is based on LTR paper with the factory default print density setting.

There are no consumable parts for the imageRUNNER 1435P main unit.

P. Periodic Replacement Parts

The imageRUNNER 1400 Series do not have any periodically replaced parts.

Q. Counters

The imageRUNNER 1400 Series machines use soft counters to track their functional copy/print use. The control panel displays up to two counters on the Counter Status Check screen (when the Counter Check key on the control panel is pressed).

The table below indicates the counter configuration of the imageRUNNER 1400 Series machines displayed on the Counter Status Check screen. For more information on the soft counter configurations, see the *imageRUNNER 1400 Series Service Manual*. Specifically, refer to the Service Mode section of the Service Manual that covers the setting under COPIER > OPTION > USER.

Table 15 — Soft Counter Configuration

Counter	Description	Default Display	Default Switch
1	101: Total 1	On	Fixed
2	201: Copy (Total 1)[20]	On	Fixed
3	Not displayed	Off	Can be changed via Service Mode setting to any available counter
4	Not displayed	Off	
5	Not displayed	Off	
6	Not displayed	Off	

20 Counter exists but not incremented on 1435P.

The imageRUNNER 1400 Series machines have Toner Bottle Counters that increase after the machines recognize that a new toner bottle has been inserted. These counters are installed to provide support for billing customers who order and consume a lot of toner. Toner units shipped can be compared against toner bottles actually installed in the machine.

Table 16 — Toner Bottle Counters

	Toner Bottle Counter	Unidentified Toner Bottle Counter
Counter Number	0071 (Bk)	0181 (Bk)
Description	Counts how many toner bottles are consumed throughout the life of the machine.	Counts how many unidentified toner bottles[21] are consumed.
Service Mode	COPIER > OPTION > USER > TNRB-SW	
Display on the Counter Check Screen	0: Not displayed 1: Toner Bottle Counter is displayed 2: Toner Bottle Counter and Premature Removal Counter are displayed[22] 3: Toner Bottle Counter and Unidentified Toner Bottle Counter are displayed	
Remarks	Backed up three times	

21 A toner bottle whose IC tag information cannot be read.
22 The imageRUNNER 1400 Series do not support the Premature Removal Counter

VIII. Suggested End-User Customer Service Offerings

A. Monthly Copy/Print Volume

The optimum performance range is the volume range that the equipment is intended to run on a regular basis to maintain a high-level of performance and copy/print quality.

The maximum copy/print monthly volume is the maximum number of pages the machine can produce within a one-month period (based on letter size paper). However, the device should not be used to produce the maximum number of pages, or a greater volume, on a consistent monthly basis.

Table 17 — Monthly Copy/Print Volume

Model	Optimum Performance Range	Maximum Monthly Copy/Print Volume
imageRUNNER 1400 Series	Up to 5,000 copies/prints	Up to 60,000 copies/prints

B. Limited Warranty Support

1. End-User Limited Warranty Conditions

The Canon imageRUNNER 1400 Series Product Limited Warranty is effective for a period of 90 days following the delivery of the machine to the original purchaser or 100,000 prints/copies, or a combination of both, whichever comes first.

There is no warranty on any consumables, such as waste toner containers or paper.

For detailed warranty information, refer to the Limited Warranty card located in the Appendix.

2. GPR-54 Drum Unit Limited Warranty

Full Credit	30 days from the date of original purchase, or 5,000 prints or copies (or a combination of both), whichever comes first
Prorated Credit	1 year from the date of the original purchase, or 29,000 prints or copies (or a combination of both), whichever comes first

3. Flat-Rate Program

The Flat-Rate Program provides a flat-rate credit to Canon USA's full-line dealers as compensation for warranty expenses that they may incur. Dealers who purchase an imageRUNNER 1400 Series device will receive a Flat-Rate Program credit during the month following their purchase. This credit covers the dealer's cost of defective parts and drums with a dealer cost **under $300.00** that have been replaced during the term of the end-user's Limited Warranty.

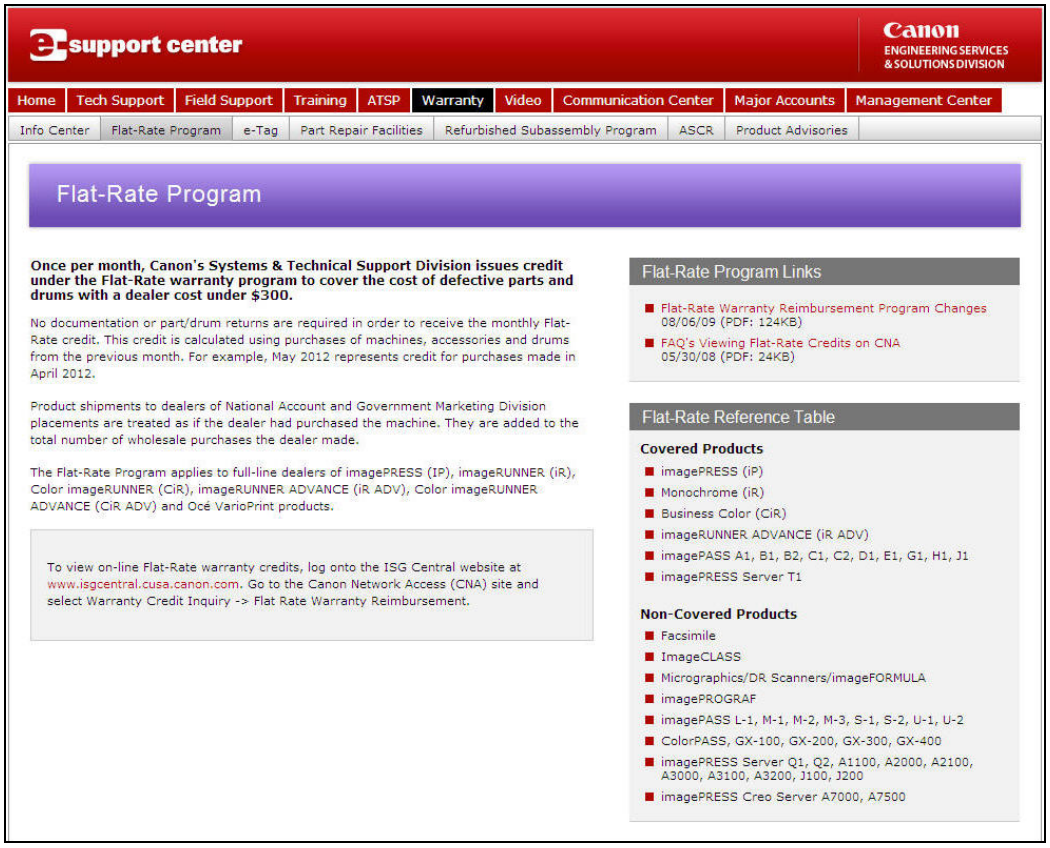
The Flat-Rate Program enables the dealer to return the more expensive machine parts to receive reimbursement for in-warranty part failures. The flat-rate credit is a percentage of your eligible machine purchases, drums, and accessories. Flat-rate credits are posted monthly in the CNA (Canon Network Access) section of Canon USA's ISG Central Web site. Refer to the Online Limited Warranty Credit Inquiry section for more information.

Original defective parts with a dealer cost **over $300.00** that have been replaced during the term of the end-user warranty are eligible to receive reimbursement credit through the e-Tag process. Parts that are listed on the Canon USA Repairable Parts List should be sent to an APRF (Authorized Parts Repair Facility) to be repaired at no charge.

To request a part reimbursement credit, complete the e-Tag warranty claim form in the Warranty section of the e-Support Center Web site at http://www.support.cusa.canon.com. Refer to the e-Tag section of this Service Guide for further details and instructions.

Additional information on the Flat-Rate Program is located on the Canon USA's e-Support Web site at http://www.support.cusa.canon.com, as shown in **Figure 2**.

Figure 2 — e-Support: Flat-Rate Program



4. Warranty Parts for Repair

The APRFs (Authorized Parts Repair Facilities) are authorized by Canon USA to repair circuit boards for various Canon products. The APRF program is designed to help your dealership reduce service costs by having circuit boards repaired instead of purchasing brand new boards. Each circuit board is live tested and updated to the latest firmware version prior to returning it to your dealership.

Parts specified on the Canon USA Repairable Parts List must be prepaid and shipped directly to one of the following Authorized Parts Repair Facilities. Log on to the Canon USA e-Support Web site at http://www.support.cusa.canon.com to view the Canon USA Repairable Parts List. Go to the Warranty tab, Part Repair Facilities, Repairable Parts List. See Figure 3 — e-Support: Authorized Parts Repair Facilities for more details.

Hytec Dealer Services, Inc. 3600 Vineland Road (Suite 121) Orlando, FL 32811	**Nation-Wide Repair Service, Inc.** 16151 Foster Street Overland Park, KS 66085
Telephone: 1-407-297-1001 Customer Service:1-800-883-1001 Technical Support: 1-888-883-2001 Fax: 1-407-297-4310	Customer Service: 1-866-655-8676 Technical Support: 1-800-798-1814 Fax: 1-913-631-8372

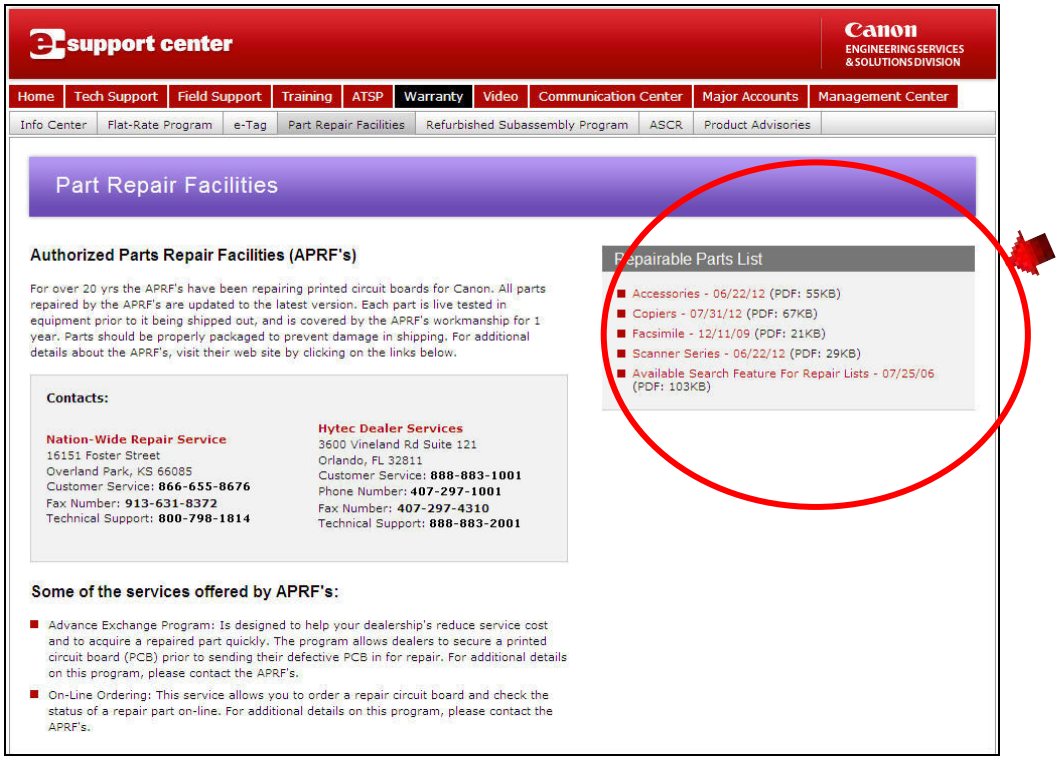
Repairable parts (under warranty) are repaired free-of-charge by the APRFs. Usually, the turnaround time is approximately five (5) business days. Once repaired and tested, the parts are shipped back to your dealership via UPS Ground.

If a part is not repairable, the APRF will contact your dealership, and Canon USA's Warranty Control Section will issue a credit to your account.

To check the status of your part, please contact the APRF.

The Repairable Parts List index is in the Warranty section of the e-Support Center Web site at http://www.support.cusa.canon.com Select from the Repairable Parts List, as shown below, for the most current list.

Figure 3 — e-Support: Authorized Parts Repair Facilities



Warranty Parts over $300.00 that are not on the Repairable Parts List

All original defective parts with a dealer cost valued over $300.00, that are not specified on the Repairable Parts List, must be submitted to Canon Virginia, Inc. with a completed e-Tag warranty claim form, and a handwritten or computer-generated copy of the machine's service history.

Canon Virginia, Inc.
12000 Canon Boulevard
Newport News, VA 23606
Attention: Warranty Returns

The service history log must include the following:

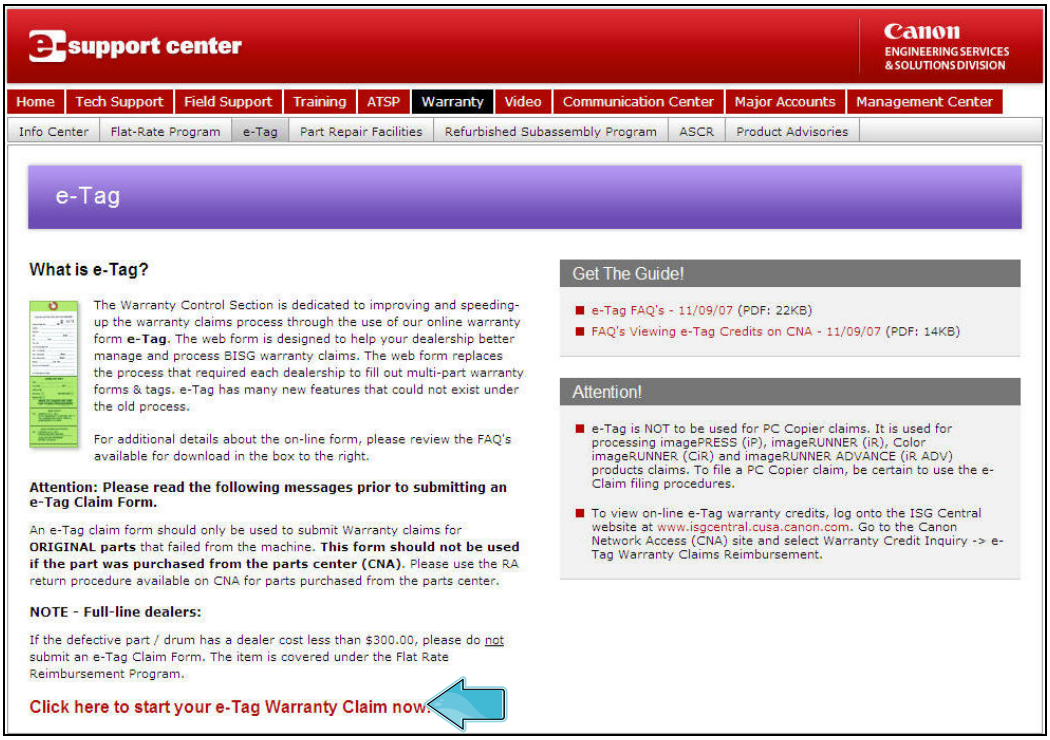
- Dealer Name
- Machine's Installation Date
- Machine's Serial Number
- Part Number
- Work Performed (Highlight Current Service Call)
- Part Description
- Date Part Was Removed
- Machine Copy/Print Count
- Reason for Removal

5. e-Tag

e-Tag is an electronic limited warranty claim form that is completed online, printed out, and accompanied by the original defective part or defective drum that is being returned to the Warranty Control Section for warranty compensation.

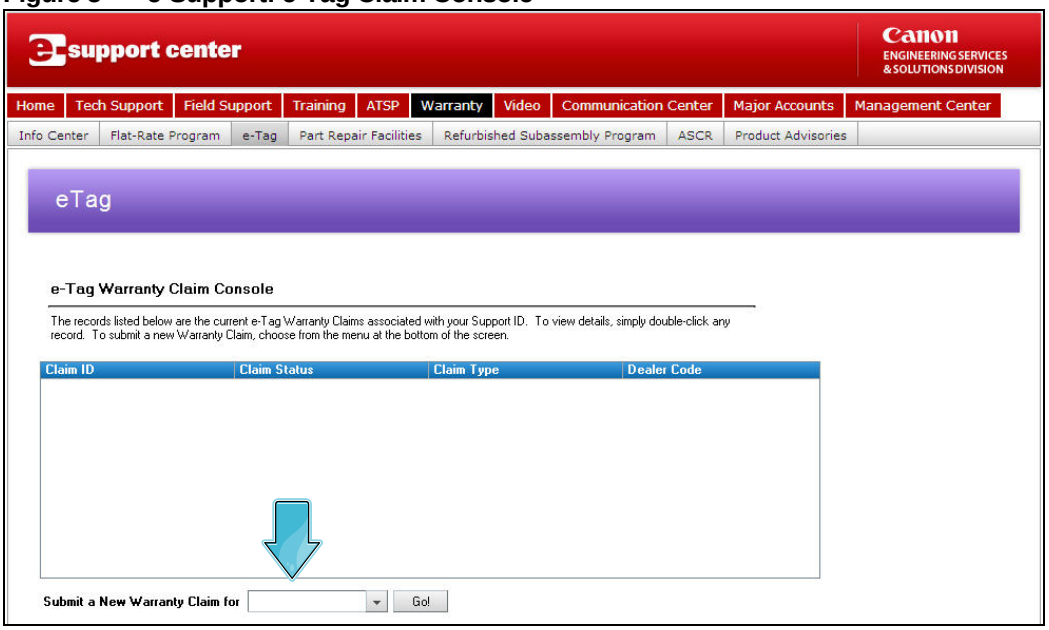
The e-Tag warranty claim form can be accessed in the Warranty section of the e-Support Center Web site at: http://www.support.cusa.canon.com.

Figure 4 — e-Support: e-Tag



To submit a new warranty claim, select the type of claim from the drop-down list, shown below, and complete the required sections of the e-Tag limited warranty claim form.

Figure 5 — e-Support: e-Tag Claim Console



A copy of the e-Tag warranty claim form and the machine's service history must be returned with the original defective parts to the address provided on the bottom of the e-Tag warranty claim form.

The service history log can be handwritten or computer-generated, and must include the following information:

- Dealer Name
- Machine's Installation Date
- Machine's Serial Number
- Part Number
- Part Description
- Date Part Was Removed
- Machine Copy/Print Count
- Reason for Removal
- Work Performed (Highlight Current Service Call)

For defective drums, ship the drum to the address provided on the bottom of the e-Tag warranty claim form, accompanied by a copy of the e-Tag warranty claim form, the machine's service history log, a "before" sample copy that depicts the problem, and an "after" sample copy that shows that the problem has been resolved.

After a claim form is authorized, parts, drums, and labor credits are posted on the CNA Web site the following business day.

6. Online Limited Warranty Credit Inquiry

The Online Warranty Credit Inquiry enables your dealership to check, download, and print the details of your e-Tag and Flat-Rate Program credits on the CNA (Canon Network Access) Web site.

a. e-Tag Inquiry

To view your e-Tag warranty claim credits online, log on to the ISG Central Web site at http://www.isgcentral.cusa.canon.com, and select “Canon Network Access (CNA)”, as shown below.

Figure 6 — ISG Central



On the CNA Web site, select “Warranty Credit Inquiry”, and then select “e-Tag Warranty Claims Reimbursement” to perform an e-Tag Warranty claims search, as shown in the following screen shots.

Figure 7 — CNA: Warranty Credit Inquiry

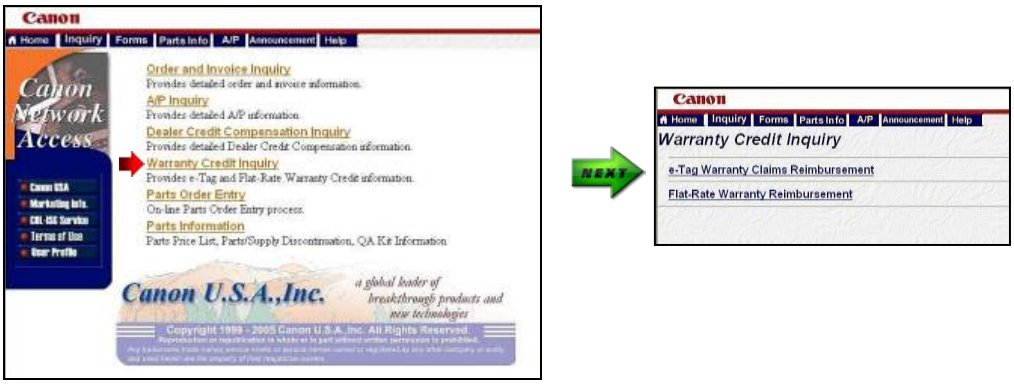


Figure 8 — CNA: e-Tag Warranty Claims Search



To check the status of the e-Tag warranty claims already submitted:

Go to the e-Tag Warranty Claim Console, as shown at the bottom of the screen shot in Figure 5 — e-Support: e-Tag Claim Console. This console enables you to check the status of your claims. To view the details of the e-Tag limited warranty claim form, double-click any record.

Note: e-Tag warranty claims are connected to the e-Support ID number that is entered. Therefore, it is highly recommended that only one person enter and manage the e-Tag warranty claims from your dealership.

b. Flat-Rate Inquiry

To view your Flat-Rate warranty reimbursements online, log on to the ISG Central Web site at http://www.isgcentral.cusa.canon.com, and select “Canon Network Access (CNA)”, as shown below.

Figure 9 — ISG Central



On the CNA Web site, select “Warranty Credit Inquiry”, and then select “Flat-Rate Warranty Reimbursement” to perform a Flat-Rate Warranty claims search, as shown in the following screen shots.

Figure 10 — CNA: Warranty Credit Inquiry

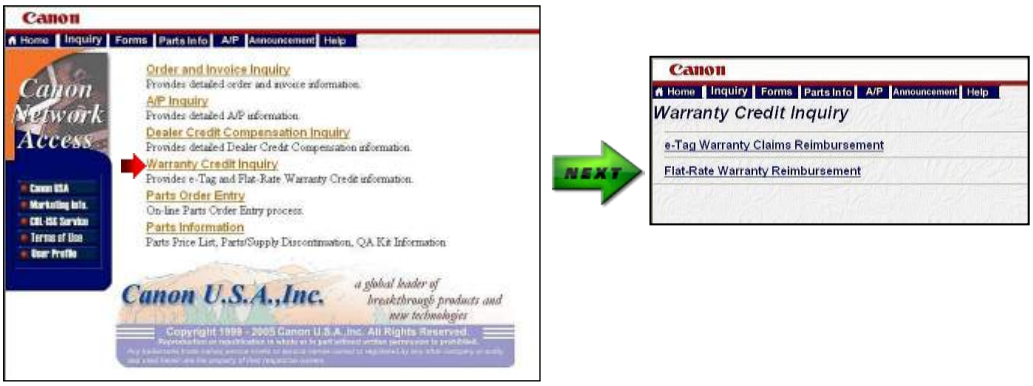


Figure 11 — CNA: Flat-Rate Warranty Reimbursement Search



IX. Product Technical Support Offerings

Note: Please refer to the Technical Support Center on the e-Support Center Web Site for the most current policies and procedures.

A. Dealer Support Requirements

To ensure that every dealer receives the highest level of support and help to resolve the end user's problems quickly and accurately, we recommend the following to maximize your technical support request:

- imageRUNNER 1400 Series Technical Training is required to receive technical support for these machines. Refer to the Canon USA Technical Support Center section for further details.
- Before calling the TSC, reference technical documentation (User Manuals, Parts catalog, Technical Publications, etc.) and research problems on the e-Support Web Site (available 24 hours a day, 7 days a week) since your concern may have already been addressed and documented.
- An assigned DES (Designated Escalation Specialist) is required for support escalations.
- The DES is a service technician who is assigned by the dealership in the model category of the imageRUNNER via the Management Center section on the e-Support Web site. The DES must complete the training program and pass the final assessment exam for the imageRUNNER 1400 Series. See the Technical Support Center on the e-Support Center Web Site for more details.
- Have your unique Support ID number ready when you call the TSC, and make sure that you have access to the engine or application. This significantly improves the TSC's ability to troubleshoot the problem, and eliminates the "guesswork" when answering a specific question. This also helps ensure more accurate answers and suggestions.
- Have the serial number of the installed engine or application you want to troubleshoot.
- Be able to provide environment-specific information and any other site-specific variables that may be requested by the TSC staff.
- Submit and update your profile information, such as cell phone number, e-mail address, and company address on the e-Support Center Web Site in the Current Profile section. Accurate profile information is important to facilitate follow-up communication.
- Be cooperative and willing to troubleshoot the issue. Be prepared to follow instructions and provide the feedback requested by the TSC.

Dealer Support Requirements Continued

- Have the tools necessary to troubleshoot the issue. This may include, but is not limited to: laptop, crossover cable, meter, meter leads, analog telephone (for faxing-related issues, imageRUNNER 1435iF only), technical documentation, diagnostic software, flashing software and utilities. Not having these tools can affect or limit the ability to troubleshoot a technical issue. The TSC reserves the right to terminate the call until proper tools are obtained, or until the technician is prepared to troubleshoot the issue. See Servicing Notes and the *imageRUNNER 1400 Series Service Manual* for a list of equipment and special tools required to service these devices.
- If a ticket is left open and a solution has been confirmed, the technician should close the ticket on e-Support and indicate the resolution details. This information is helpful and enables a Support Specialist to assist other callers who may experience the same problem.

B. Canon USA Support Offerings

The following support offerings were established to deliver high-quality, timely technical support services and product information to Canon dealerships. These support services cover areas, such as system and user software, networking and connectivity issues, electro-mechanical operations, and other hardware servicing.

1. Canon USA Technical Support Center

The TSC is the only way to resolve technical support issues on BISG (Business Imaging Solutions Group) products. Hours of Operation for live, nationwide, toll-free support are Monday to Friday, 9 AM to 8 PM EST (Eastern Standard Time) (hardware) and Monday to Friday, 9 AM to 6 PM EST (software and connectivity).

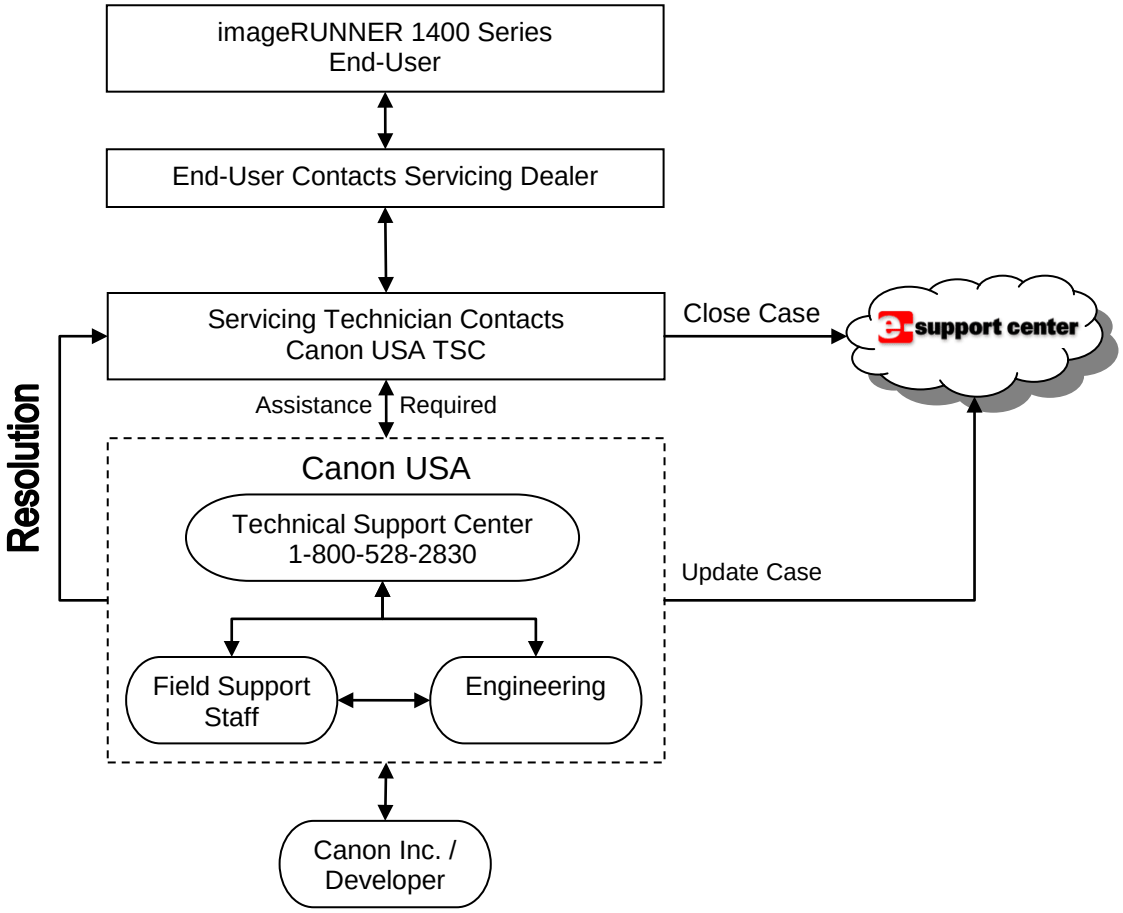
To facilitate support, the TSC strives to meet these expectations:

- Deliver quality support to authorized dealerships by providing assistance to trained Systems Engineers and Technicians. Then, it is the responsibility of the authorized dealer to provide all technical support for the end-user. The TSC does not engage the end-user directly.
- Collaborate with the caller to gather all the details that pertain to the issue, provide technical information, guidance, and troubleshooting information. The TSC documents every interaction in the Customer Relationship Management System.
- Make every effort, and use all available resources, to resolve the issue in the most efficient and timely manner.
- The TSC may, at its discretion, escalate a case to the Regional Field Support Staff or Engineering group after all reasonable troubleshooting options have been used. For hardware-related issues, a DES for the imageRUNNER 1400 Series is required to escalate issues to Field Support Staff. The DES must have worked on the problem directly before the TSC can escalate the issue to Field Support Staff. See Table 18 — Canon USA Support Escalation Flow Chart, on page 44.

Note:

To escalate issues to the Field Support Staff, a DES must contact the TSC and visit the site at least once.

Table 18 — Canon USA Support Escalation Flow Chart



2. Internet Support

a. Canon USA's e-Support Center Web Site

Canon USA's Engineering Services and Solutions Division provides high-quality e-Support via the Internet, and is only available for Canon USA's Authorized Servicing Dealers.

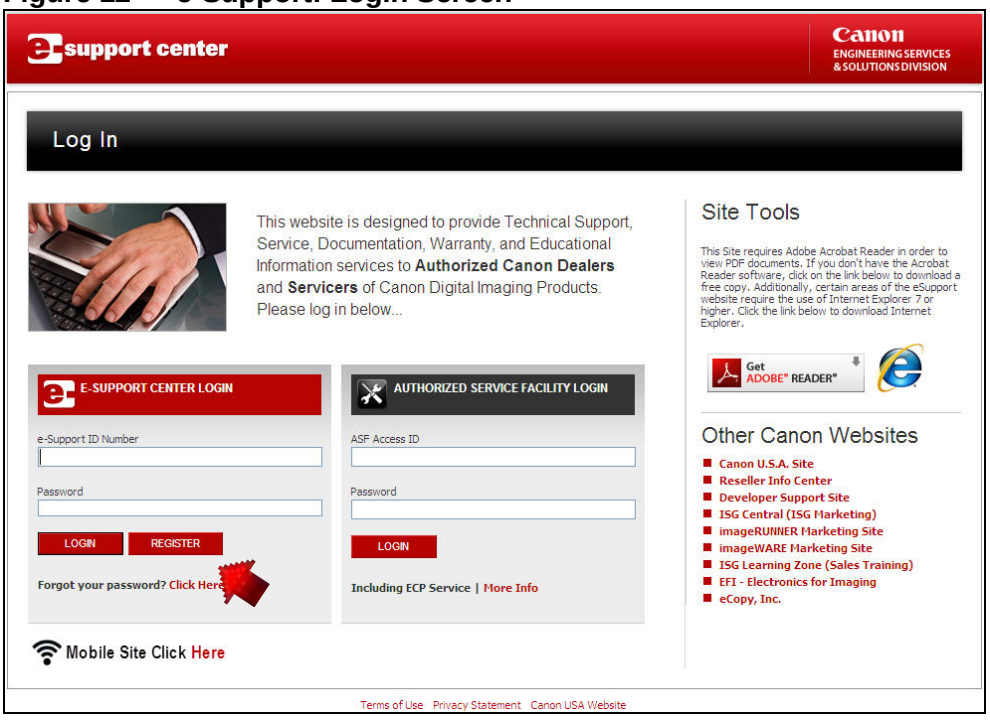
Canon USA's e-Support is designed to provide Systems Engineers and Technicians access to technical support information via the World Wide Web.

The following functions and information can be accessed:

- Proactive notification of new releases, patches, Technical Publications, and other information via e-mail message
- Search for technical solutions with the Integrated Knowledge Management System through a natural language query
- Read or download on-line documentation
- Download patches and their Readme files
- Download firmware and software drivers
- Track or close logged cases
- Review all open cases

To access e-Support, you must first register for an e-Support ID Number. To register for an e-Support ID number, go to the Canon USA's e-Support Center Web site at http://www.support.cusa.canon.com. Click on the "Register" button, and follow the instructions. This service is available at no additional charge to all authorized dealers.

Figure 12 — e-Support: Login Screen

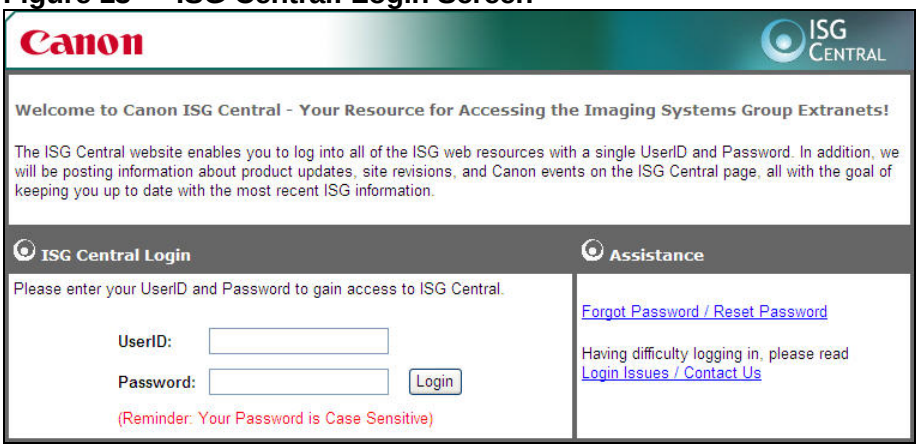


b. Canon USA's ISG Central Web Site

Complete Service Guide versions are available on the Canon USA's ISG Central Web site (http://isgcentral.cusa.canon.com).

Access is limited to an Authorized Dealer's Management staff. Please contact your Dealer System Administrator to request access to the Engineering Services and Solutions section of ISG Central.

Figure 13 — ISG Central: Login Screen



When an end-user logs on to the ISG Central Web site, he/she must select the “Engineering Services & Solutions” button to access the Service Guides area of the Web site, as shown below.

Figure 14 — ISG Central: Engineering Services and Solutions Web Page

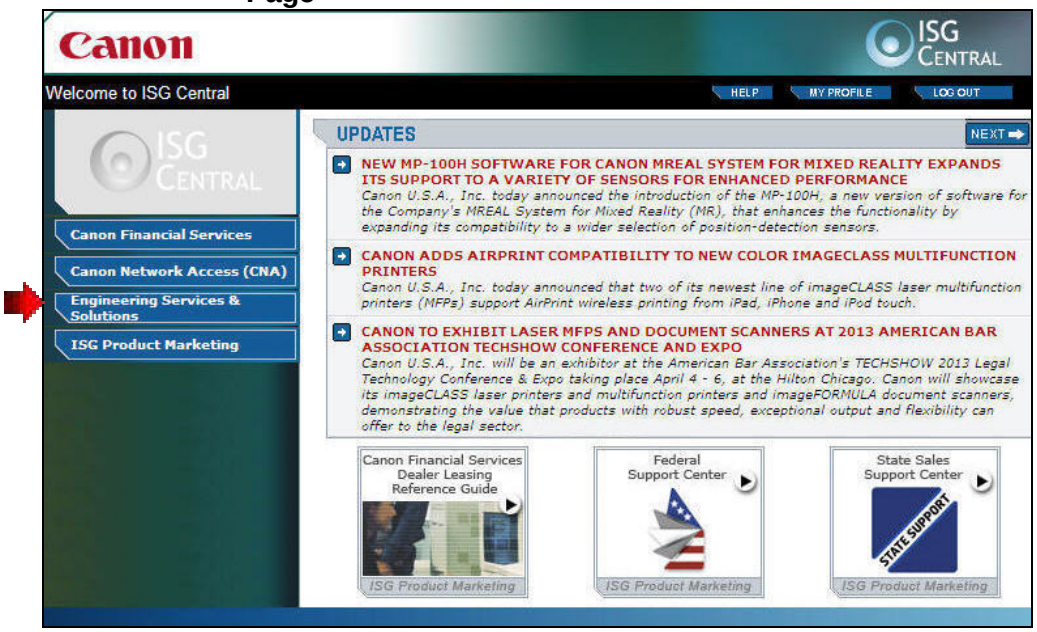
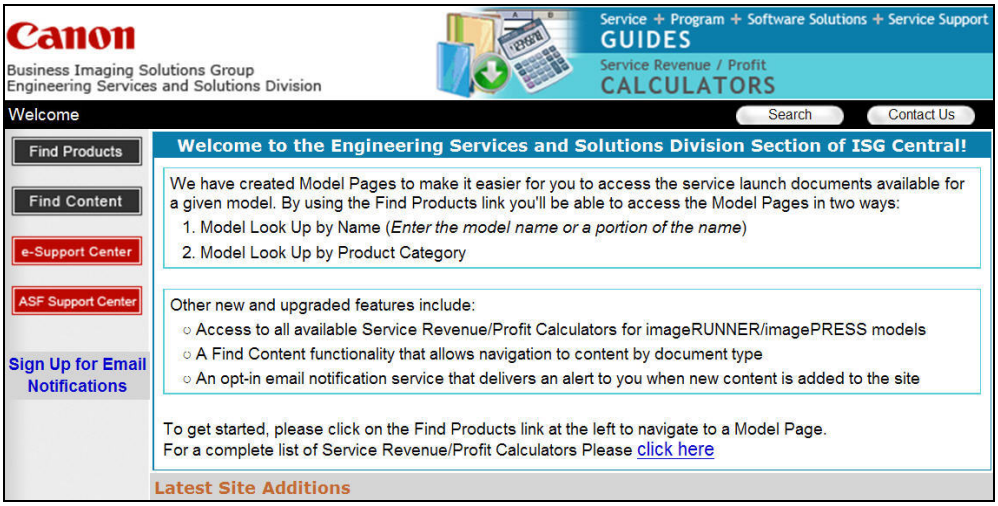


Figure 15 — ISG Central: Engineering Services and Solutions Service Guides Area



X. Appendix

A. Specifications

Note: All specifications are for reference purposes only, and are subject to change without notice.

Table 19 — Machine Specifications

Item		Description
Dimensions (H x W x D)		imageRUNNER 1435iF and 1435i: Approximately 18.7" x 21.5" x 18" (476 mm x 545 mm x 457 mm) imageRUNNER 1435P: Approximately 15.1 ” x 21.5” x 18” (383 mm x 545 mm 457 mm)
Weight		imageRUNNER 1435iF and 1435i: Approximately 52 lb (23.7 kg) imageRUNNER 1435P: Approximately 47 lb (21.4 kg)
Cartridge		Canon GPR 54 Toner Black yields approximately 17,600 LTR pages with the factory default print density setting.
Cartridge Type		One cartridge system (Black)
Maximum Monthly Print Volume		Up to 60,000 prints
Power Requirements		120V AC, 60 Hz
Plug		NEMA 5-15P
Power Consumption	**Maximum**	Approximately 1,500 W
	Standby Mode	Approximately 12 W
	Sleep Mode	Approximately 2.0 W
	Main Power Switch Turned OFF	Approximately 0.5W
Warm-Up Time		Approximately 20 seconds[23] (Temperature: 20°C (68°F), humidity: 65% RH (Relative Humidity); from when the machine is turned ON using the main power switch to when copying becomes available)
Environmental Conditions		Temperature: 50°F to 86°F (10°C to 30°C) Humidity: 20% to 80% RH (Relative Humidity) (no condensation)

23 Warm-up time may vary, depending on the installation environmental conditions.

Table 20 — Cassette Module-AC1

Item	Description
Paper Sizes	A4, LGL, LTR, G-LTR, G-LGL, OFICIO, B-OFICIO, M-OFICIO, FLS
Paper Capacity	Approximately 500 sheets (17 lb bond to 21 lb bond [64 to 80 g/m²]) or 480 sheets (22 lb bond to 24 lb bond [81 to 90 g/m²])
Power Supply	From the main unit.
Dimensions	6 1/8" x 20 1/2" x 17 3/4" (154.8 mm x 520 mm x 450.8 mm)
Weight	Approximately 11 lb (5 kg)

Table 21 — FL Cassette-AW1

Item	Description
Paper Sizes	A4, LGL, LTR, G-LTR, G-LGL, OFICIO, B-OFICIO, M-OFICIO, FLS
Paper Capacity	Approximately 500 sheets (17 lb bond to 21 lb bond [64 to 80 g/m²]) or 480 sheets (22 lb bond to 24 lb bond [81 to 90 g/m²])

Table 22 — Copy Card Reader-F1 (imageRUNNER 1435iF and 1435i only)

Item	Specifications
Available Cards	Magnetic
Card Readout Method	Magnetic readout
Card Reading Direction	Inserting direction
Store/Replay	Replay
Power Source	From the main unit.
Dimensions (H x W x D)	1 5/8” x 3 1/2” x 3 3/4” (40 mm x 88 mm x 96 mm)
Weight	Approximately 7.1 oz (200 g) (Including the attachment kit and cable.)

Table 23 — Copy Specifications (imageRUNNER 1435iF and 1435i only)

Item	Description
Copy Speed[24] (LTR)	imageRUNNER 1435iF and 1435i: Up to 37 cpm (copies per minute)
Copy Resolution	Text/Photo Up to 300 dpi x 600 dpi Text/Photo (Quality), Photo, Text: Up to 600 dpi x 600 dpi
Halftones	Up to 256 levels
First Copy Time[25]	imageRUNNER 1435iF and 1435i: B/W: 7.9 seconds (ADF) 6.9 seconds (platen)
Reduction/Enlargement	25%, 50%, 64%, 78%, 100%, 129%, 200%, 400%
Zoom	25% to 400% in 1% increments
Original Type	Text/Photo (Quality), Photo, and Text
Continuous Copying Capacity	Up to 999 copies
Maximum Copy Size	Up to 8 1/2” x 14” (LGL)
Copy Features	2 on 1, 4 on 1, ID Card Copy, Frame Erase
Copy Memory	512 MB (Shared)

Table 24 — Print Specifications

Item	Description
Type	Black-and-white Laser
Print Speed[24] (LTR, Plain Paper)	Up to 37 ppm (pages per minute)
First Print Time[26]	Approximately 5 seconds
Printer Language	Canon UFR II LT, PCL6 (5c,XL)[31], PostScript 3[27]
Print Resolution	Up to 1200 x 600 dpi (enhanced)
Gradation	256 gradations
Maximum Print Size	Up to 8 1/2” x 14” (LGL)
Output Tray Capacity	Approximately 100 sheets (21 lb bond (80 g/m^2))
Print Memory	512 MB (Shared)

24 Except when the paper is fed from the multi-purpose tray. The copy/print speed is measured during continuous copy/print runs. Copy/print speeds may vary, depending on the paper type, size, and paper feeding direction. Copy/print speeds on smaller paper sizes may be slower. Also, the machine may experience downtime or decrease the copy/print speed in the middle of a continuous copy/print run to adjust the temperature inside the machine or maintain the optimal print quality.
25 LTR size, after returning from the Energy Saver mode.
26 May vary, depending on the output environment.
27 PCL and PS are standard on the imageRUNNER 1435iF and 1435P, and require separate printer kits for the imageRUNNER 1435i.

Table 25 — Send Function: Scan Specifications (imageRUNNER 1435iF and 1435i only)

Item		Description
Scan Speed (LTR)[28]		imageRUNNER 1435iF and 1435i: Up to 29 ipm (images per minute)
Communication Protocol		FTP, SMB
Data Format		PDF, PDF (Compact), PDF (Compact/OCR), PDF (OCR), JPEG, TIFF
Resolution	**B/W**	PDF: 300 dpi (MMR Compression) PDF (Compact): Text 300 dpi, Background 150 dpi TIFF: 300 dpi (MMR Compression) JPEG: 300 dpi
	Color	PDF: 200 dpi (JPEG Compression) PDF (Compact): Text 300 dpi, Background 150 dpi TIFF: 300 dpi (JPEG Compression) JPEG: 300 dpi
System Environment		Windows Server 2003 R2 SP2, Windows Vista SP2, Windows Server 2008 SP2, Windows Server 2008 R2 SP2, Windows 7, Windows 8, Windows 8.1, Windows Server 2012, Windows Server 2012 R2, Red Hat Linux 9, Solaris 10, Mac OS X 10.6.x/10.7.x/10.8.x/10.9.x
Document Size		LTR, LGL, STMT
Color Mode		Color, B/W
Original Type		Text, Text/Photo, Photo
Optional PDF Functions		Encryption, Digital Signature

28 Black-and-White mode, single-sided, 300 x 300 dpi

Table 26 — Send Function: E-mail Specifications (imageRUNNER 1435iF and 1435i only)

Item		Description
Scan Speed (LTR)[21]		imageRUNNER 1435iF and 1435i: Up to 29 ipm (images per minute)
Communication Protocol		SMTP, POP3
Data Format		PDF, PDF (Compact), PDF (Compact/OCR), PDF (OCR), JPEG, TIFF
Resolution	**B/W**	PDF: 300 dpi (MMR Compression) PDF (Compact): Text 300 dpi, Background 150 dpi TIFF: 300 dpi (MMR Compression) JPEG: 300 dpi
	Color	PDF: 200 dpi (JPEG Compression) PDF (Compact): Text 300 dpi, Background 150 dpi TIFF: 300 dpi (JPEG Compression) JPEG: 300 dpi
Server Software		Microsoft Exchange 2003, Microsoft Exchange 2007, Microsoft Exchange 2010, Sendmail 8.12.5 or later, Lotus Domino R6.0 or later
Document Size		LTR, LGL, STMT
Color Mode		Color, B/W
Original Type		Text, Text/Photo, Photo
Optional PDF Functions		Encryption, Digital Signature

21 Black-and-White mode, single-sided, 300 x 300 dpi

Table 27 — Paper Handling Specifications

Item	Description
Paper Source/Capacity	Paper Cassette: 500 sheet capacity[29] Multipurpose Tray: 100 sheet capacity
Document Feeder	imageRUNNER 1435iF and 1435i only: Up to 50 sheets Letter, 30 sheets Legal[29]
Paper Output	Approximately 100 sheets (face-down)
Paper Weight	Paper Cassette: 17 to 24 lb bond (64 to 90 g/m^2) Multipurpose Tray: 17 to 34 lb bond (64 to 128 g/m^2)
Media Sizes	Cassette: A4, LGL, LTR, G-LTR, G-LGL, OFICIO, B-OFICIO, M-OFICIO, FLS Multi-purpose Tray: A4, A5, B5, LGL, LTR, STMT, EXEC, OFICIO, B-OFICIO, M-OFICIO, G-LTR, G-LGL, A-FLS, FLS, 16K, Envelope
Media Types	Cassette: Plain, Recycled, Color, Pre-Punched Multi-purpose Tray: Thin, Plain, Recycled, Color, Pre-Punched, Heavy, Transparency, Label, Coated, Envelope
Envelope Capacity	Multipurpose Tray: 10 envelopes
Envelope Types	COM10, Monarch, C5, DL

29 Based on 20 lb bond (80 g/m^2) plain paper.

Table 28 — Fax Specifications (imageRUNNER 1435iF only)

Item	Description
Line Used	PSTN (Public Switched Telephone Network)[30]
Communication Mode	Super G3, G3
Modem Speed	Super G3: Up to 33.6 Kbps G3: Up to 14.4 Kbps
Compression Method	MH, MR, MMR, JBIG
Transmission Speed	Approximately 2.6 seconds per page[31] (ECM-MMR, transmitting from memory at 33.6 Kbps)
Fax Resolution	Up to 400 x 400 dpi (Ultra Fine)
Memory Capacity (Sending and Receiving)	Up to 512 pages[31] (Total pages of transmission/reception) Maximum number of fax jobs that can be sent from memory: 10 Maximum number of fax jobs that can be received into memory: 90
Dialing	19 One-Touch Key destinations, 281 Coded Dialing destinations, Address Book Dialing, Regular Dialing with the numeric keys, Automatic Redialing, Manual Redialing, and 300 Sequential Broadcast destinations
Reports	Communication Management Report[32], Fax TX Results Report, and RX Results Report

Table 29 — Connectivity and Software Specifications

Item	Description
Standard Interfaces	• USB/USB 2.0 High-Speed (A USB cable is not included.) • 1000Base-T/100Base-TX/10Base-T Ethernet (Network)
USB Functions	imageRUNNER 1435iF: Print, PC Fax, and Scan imageRUNNER 1435i: Print and Scan imageRUNNER 1435P: Print
Network Functions	imageRUNNER 1435iF: Print, PC Fax, and Scan imageRUNNER 1435i: Print and Scan imageRUNNER 1435P: Print
Remote UI	Yes
Supported Operating Systems	Windows 8/8.1, 7, Windows Server 2012 R2, 2008 R2, Windows Server 2008 R2, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP[33], Mac OS X 10.5.8 and up

30 The Public Switched Telephone Network currently supports fax modem speeds up to 28.8 Kbps, depending on telephone line conditions. Fax machines that can send and receive documents must conform to ITU-T v.34 guidelines.
31 Based on the ITU-T (ITU Telecommunication Standardization Sector) Standard Chart No. 1, MMR standard mode.
32 Output automatically after 40 transmissions, if so configured.
33 Driver support for Windows XP ends on April 7, 2015.

B. Warranty

1. imageRUNNER 1435i and 1435iF Limited Warranty

CANON imageRUNNER 1435i/1435iF SERIES LIMITED WARRANTY

Canon U.S.A., Inc. or Canon Canada Inc. (as applicable, "Canon") warrants the imageRUNNER 1435i/1435iF Series product and Canon brand options designed for use with the imageRUNNER product (collectively the "Product") to be free from defects in workmanship and materials under normal use and service for a period of 90 days after delivery to the original purchaser ("Purchaser") or 100,000 prints or copies (or a combination of both), whichever comes first. During such warranty period, Canon shall replace, without charge, any defective part with a new or comparable rebuilt part. This warranty shall not extend to consumables such as paper, chemicals, and toner as to which there shall be no warranty or replacement. Warranty replacement shall not extend the original warranty period of the Product.

This limited warranty shall only apply if the Product is used in conjunction with compatible computers, peripheral equipment and software. Canon shall have no responsibility for such items except for compatible Canon brand peripheral equipment covered by a separate warranty ("Separate Warranty"). Repairs of such Canon brand peripheral equipment shall be governed by the terms of the Separate Warranty. Non-Canon brand equipment that may be distributed with the Product is sold "AS IS" and without warranty of any kind by Canon, including any implied warranty regarding merchantability or fitness for a particular purpose, and all such warranties are disclaimed. The sole warranty, if any, with respect to such non-Canon brand items is given by the supplier or producer thereof. For further information on software, see below.

This warranty shall be void and of no force and effect if the Product is damaged as a result of (a) abuse, neglect, mishandling, alteration, electric current fluctuation or accident, (b) improper use, including failure to follow operating or maintenance instructions or environmental conditions prescribed in Canon's operator's manual or other documentation, (c) installation or repair by other than authorized service representatives qualified by Canon who are acting in accordance with Canon's service bulletins, (d) use of supplies or parts (other than those distributed by Canon) which damage the Product or cause abnormally frequent service calls or service problems, or (e) use of the Product with non-compatible computers, peripheral equipment or software, including the use of the Product in any system configuration not recommended in any manual distributed with the Product. Nor does this warranty extend to any Product on which the original identification marks or serial numbers have been defaced, removed, or altered.

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CONDITIONS OF WARRANTY

Defective parts must be returned to Canon or an Authorized Service Provider with all necessary documentation and will become the property of Canon.

THIS WARRANTY APPLIES TO PRODUCTS SOLD AND USED IN THE U.S.A. AND CANADA ONLY.

2. imageRUNNER 1435P Limited Warranty

CANON imageRUNNER 1435P LIMITED WARRANTY

Canon U.S.A., Inc. or Canon Canada Inc. (as applicable, "Canon") warrants the imageRUNNER 1435P product and Canon brand options designed for use with the imageRUNNER product (collectively the "Product") to be free from defects in workmanship and materials under normal use and service for a period of 90 days after delivery to the original purchaser ("Purchaser") or 100,000 prints or copies (or a combination of both), whichever comes first. During such warranty period, Canon shall replace, without charge, any defective part with a new or comparable rebuilt part. This warranty shall not extend to consumables such as paper, chemicals, and toner as to which there shall be no warranty or replacement. Warranty replacement shall not extend the original warranty period of the Product.

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Defective parts must be returned to Canon or an Authorized Service Provider with all necessary documentation and will become the property of Canon.

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