

Service Manual

Canon BW

Web Browser for iR-A1

Canon

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Application

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Caution

Use of this manual should be strictly supervised to avoid disclosure of confidential information.



Symbols Used

This documentation uses the following symbols to indicate special information:

Symbol	Description
	Indicates an item of a non-specific nature, possibly classified as Note, Caution, or Warning.
	Indicates an item requiring care to avoid electric shocks.
	Indicates an item requiring care to avoid combustion (fire).
	Indicates an item prohibiting disassembly to avoid electric shocks or problems.
	Indicates an item requiring disconnection of the power plug from the electric outlet.
 Memo	Indicates an item intended to provide notes assisting the understanding of the topic in question.
 REF.	Indicates an item of reference assisting the understanding of the topic in question.
	Provides a description of a service mode.
	Provides a description of the nature of an error indication.

The following rules apply throughout this Service Manual:

1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.

In the diagrams,  represents the path of mechanical drive; where a signal name accompanies the symbol, the arrow  indicates the direction of the electric signal.

The expression "turn on the power" means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in supplying the machine with power.

2. In the digital circuits, '1' is used to indicate that the voltage level of a given signal is "High", while '0' is used to indicate "Low". (The voltage value, however, differs from circuit to circuit.) In addition, the asterisk (*) as in "DRMD*" indicates that the DRMD signal goes on when '0'.

In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

The descriptions in this Service Manual are subject to change without notice for product improvement or other purposes, and major changes will be communicated in the form of Service Information bulletins.

All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant Service Information bulletins and be able to identify and isolate faults in the machine."

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Chapter 1 Specifications

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1.1 Product composition

1.1.1 Product configuration

0008-4667

This kit consists of:

- License access number certificate sheet
- Sending and Facsimile Guide
- License Key notice

Using this kit, you can get a license key from the License Management System (LMS) and register it in an iR/imageRUNNER to activate the specific feature included in the System Software.

Note:What's LMS?

A license server system to activate software options of iRs/imageRUNNERS, provided by Canon Inc. Collectively manages options in the form of licenses and protects copy rights of optional products. The options are activated with license keys being different from conventional activation measures that use dongles and PCs. Whereas the details of its management differ among countries and regions, it is designed assuming the users access it and activate licenses by themselves respectively. Per optional product, the license access number certificate sheet is supplied. Per license access number, a user can get a license key and activate the feature on an iR/imageRUNNER. To get a license key, a user accesses the Web server of the LMS.

URL for LMS:

<http://www.canon.com/lms/ir/>

When a user enters the license access number and the serial number for an iR/imageRUNNER in the LMS, 24-digit figure of a license key is generated. The license key includes the information of serial number for the iR/imageRUNNER so that the key cannot be used for iRs/imageRUNNERS. Once the option is activated, the option information is saved as the backup in the iR/imageRUNNER. Parts replacement will not deactivate the feature.

The staff in each regional headquarters can access the administrator's pages of the LMS. They can view the license number issued for each iR/imageRUNNER and can reissue the license. The procedures are the same as the license management system for MEAP except for the point the license key is used instead of the license file.

Transfer of a License

An optional function that has been enabled by the LMS may be used on a different device by transferring its license, as when the original iR device needs to be replaced, say at the end of its lease arrangement. Specifically, individual licenses registered for optional functions must first be invalidated in Additional Functions before transfer may take place. Doing so will invalidate the optional functions on the source iR device and, at the same time, proof of invalidation will be generated within the device in the form of an invalidation license key. The user may then communicate the indicated invalidation license key, the serial number of the original iR device, and the serial number

of the new iR device to the Sales Company, which in turn may issue a new license key for the new iR device. The user now may register the new license key to the new iR device in Additional Functions, thereby enabling the optional function on the new iR device. For details of transferring a license in service mode, see the descriptions of service mode that come later.

Chapter 2 Functions

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2.1 Basic Function

2.1.1 Display Specification

0009-8407

The Web Browser Kit is a tool that enables the display of HTML content collected from a Web server on the LCD panel of an iR machine.

The browser supports the following display formats:

Markup Language:

T-2-1

Markup Language	Version
HTML	HTML4.01 (XHTML1.0)
CSS 1.0, part of CSS 2.0	CSS1.0, part of CSS2.0
ECMAScript	ECMA Scrip 3rd Edition (equivalent of JavaScript 1.5 subset)
DOM	DOM Level 1, part of DOM Level 2 and Dynamic HTML

Supported Schemes:

T-2-2

Scheme	Format
http:	1-byte alphanumeric character string beginning with 'http:/' (excluding space 0 x 20) 4/
https:	1-byte alphanumeric character string beginning with 'https:/' (excluding space 0 x 20) 5/
file:	1-byte alphanumeric character string beginning with 'file:/' (excluding space 0 x 20)

Image format:

Format	Version
GIF	GIF87a, GIF89a(interlaced, Non-interlaced, Transparent Color)
JPEG	Base line DCT coding JFIF based line DCT coding Progressive JPEG
PNG	PNG(interlaced, Non-interlaced, Transparent Color)
BMP	BMP



If the image format that has been read is not supported, the Web Browser Kit will set aside an image display area, but the area will be blank.

The Web Browser Kit does not support VBMP or PNG images.

Font:

The Web Browser Kit is capable of displaying and printing the following Canon fonts:

12x12-dot font
16x16-dot font
20x20-dot font
38x35-dot font
76x75-dot font

The Web Browser Kit does not support the following attributes: italic, bold, underline; however, it does support a deletion line.

Character Code:

The Web Browser Kit is capable of automatically identifying the following character codes to display a page using the code most suited to the page. If the result of auto identification points out the presence of a character code that is not supported (see below), it will use the character code of its display language to display the page.

Shift JIS
eus-jp
iso-2022-jp
iso-8859-1

PDF File:

The Web Browser Kit's display capabilities are identical in level to those of Acrobat and Acrobat Reader 6.0.

Flash Content

The Web Browser Kit does not support the display of flash content.

Java Applet:

The Web Browser Kit does not support display associated with a Java applet.

2.2 New Function

2.2.1 Page Memo (saving a screen)

0009-8408

The page memo function has been designed to enable saving of page content on a hard disk. Once saved, these pages may be brought up for view without first connecting to the network.

As many as 30 items may be stored, each page memo consisting of 500x1024 bytes of data.

The URL character string may be as long as 255 bytes, and the longest title character string may be 255 bytes.

Saving in the form of a page memo, however, is not possible while a PDF file is being displayed.

2.2.2 Web Print

0009-8419

The following option is necessary to print from Web Brower.

T-2-4

	HTML	PDF
UFR II Printer Kit-G3	Yes	No
Printer Kit-G2	Yes	No
Multi-PDL Printer Kit-G1	Yes	Yes

Chapter 3 Installation

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3.1 Installation procedure

3.1.1 Overview of the Installation Procedure

0008-5793

As a rule, the user is expected to obtain a license key and register it to the device. Detailed instructions are found in the User's Guide. The following is an outline of the instructions:

1. Using the following URL, access the LMS, and obtain the license key by following the instructions shown on the screen:

<http://www.canon.com/lms/ir/>

Memo:

A license key is issued in exchange for the 24-digit number indicated on the License Access Number Certificate and the serial number of the device (e.g., ABC01234) to which the license will be registered. The device serial number will be indicated in response to a press on the Counter key on the iR device (under [Serial Number]).

2. Copy the 24-digit number shown on the Web browser screen in the space given for the purpose on the License Access Number Certificate sheet.

Caution:

Be sure to double-check the number to avoid an error. Be sure that the user is aware of the importance of the License Access Number Certificate and that it must be stored away in a safe place.

3. Make the following selections: user mode>system control setup>license control. Then, type in the 24-digit number, and click [Execute]. In response, the license key will be registered and the appropriate functions will be enabled. Otherwise, any of the following error messages will appear:

"The number of the license key is not correct. Check the license key."

>> Make sure that the license key is not issued for a different device.

>> Make sure that the number has been correctly typed in.

>> Make sure that the license key is the correct one.

"The function has already been enabled."

>> Make sure that the Kit has not already been enabled.

4. Hold down the control panel power switch for 3 sec or more. Follow the instructions shown on the screen for shut-down sequence so that the main power switch may be turned off. Turn off the main power switch, wait for 10 sec, and turn it back on.

5. The registered license will become valid when the device is turned back on. When it has started normally, press

the Counter key, and click the Device Configuration button to make sure that the Kit is indicated as part of the options.

Chapter 4 Maintenance

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4.1 Reference matter in market service

4.1.1 Proxy Settings

0009-8409

In additional functions mode, make the following selections: System Settings>Network Settings>TCP/IP Settings>Proxy Settings.

Enable/Disable the Use of a Proxy Server:

Specify whether to use a proxy server.

The setting must be in keeping with the setting made in additional functions mode.

Server Address:

Specify the address of the proxy server.

The setting must be in keeping with the setting made in additional functions mode.

Port Number:

Specify the port number of the proxy server.

The setting must be in keeping with the setting made in additional functions mode.

Enable/Disable the Use of a Proxy Server in the Same Domain:

Use it to specify whether to use a proxy server in the same domain.

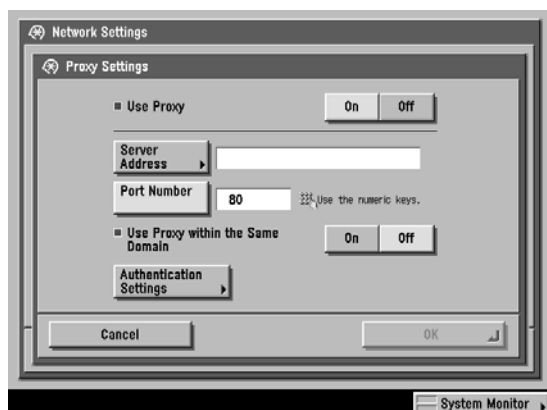
Enable/Disable the Use of Auto Proxy Detection:

The auto proxy detection is not supported.

Further, a proxy auto setting script is not supported.

Enable/Disable the Use of HTTP 1.1 When a Connection Has Been Made to a Proxy Server:

When a connection to a proxy server has been made, the setting will always be 'disabled'.



F-4-1

4.1.2 Importing and Exporting My Favorite Sites

0009-8410

Once registered as a My Favorite Site, Web page information may be exported to a PC using a remote UI. Or, such page information may be imported to an iR machine from a PC.

4.2 Related Service Mode

4.2.1 Invalidating the License for Transfer to a Different Device (Level 2)

0008-5796

Service Mode Item Used to Invalidate a License for Transfer to a Different Device (Level 2)

Possible Situation

A license may be used on a different device through transfer, as when replacing the device at the end of a lease agreement. To do so, the user must first invalidate the existing license by performing a set of steps referred to as "invalidation of a license" using service mode. At times, both source and target of transfer may be the same device, and a license therefore may also be invalidated only temporarily. It is important to note that the user must contact the Sales Company to make a license good regardless of whether it has been invalidated intentionally or inadvertently.

Invalidation Procedure

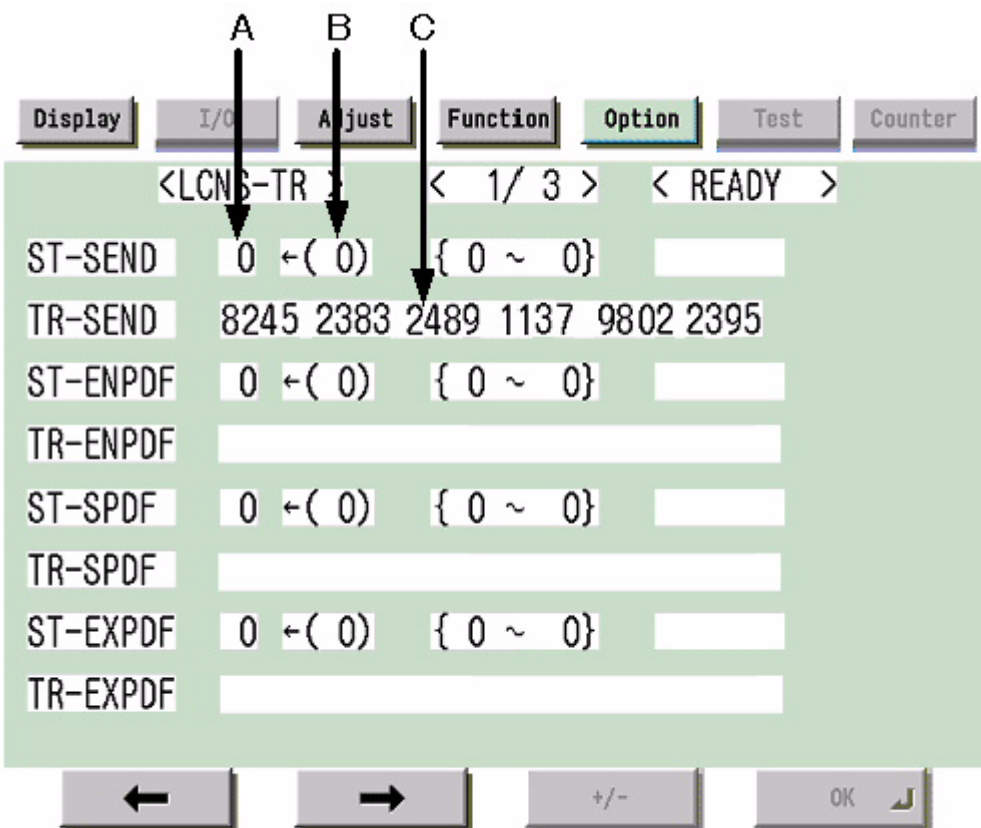
Invalidation consists in invalidating the license in service mode and generating an invalidation certificate that proves the completion of invalidation. Invalidation may take place for individual optional functions, and a specific function becomes no longer available as soon as an invalidation certificate is issued. The user contacts the Sales Company and provides the following: the invalidation certificate, the device serial number of the source of transfer, the device serial number of the target of transfer, reason of transfer. In response, the Sales Company may issue a license key for new installation on a different device. The user must take note of the new license key in writing, and keep it as a record after registering it to the target device.

Installation Procedure

1. Start service mode, and activate Level 2 so that the following is true:

```
COPIER>OPTION>LCNS-TR
```

The following screen appears, showing the current status of various options:



F-4-2

Screen Design:

SET-xxxx: indicates the license status. If installed, the option is identified as '1' under A.

To invalidate an option for transfer, select it, and type in '0' under B; then, click [OK] so that the option will be invalidated and an invalidation certificate will be issued.

TR-xxxx: indicates any invalidation certificates that have been generated under C.

xxxx may be any of the following:

SEND: SEND function

ENPDF: encryption PDF

SPDF: searchable PDF

EXPDF: PDF function expansion (encryption PDF + searchable PDF)

LIPS: LIPS function

PDFDR: PDF Direct print function

SCR: encryption secured printing (for future use)

HDCLR: HDD encryption + full deletion (Security Kit)

BRDIM: BarDIMM (for future use)

VNC: Remote Operators Software

WEB: Web Browser

Memo:

Not all foregoing options are available in all countries and regions.

2. If an option has already been installed, '1' will be indicated under A. If you want to invalidate it, select it, and type in '0' so that the indication under B will change to '0'.

3. Thereafter, when [OK] is pressed, the indication under A will change to '0' and, at the same time, an invalidation certificate will be indicated in the form of a number. Take note of it in writing together with the serial number of the target device.

4. When the target device is ready, check its serial number.

5. Contact the Sales Company, and provide the following: invalidation certificate for transfer, serial number of the source device, serial number of the target device. The Sales Company, in response, may issue a new license key that may be registered on the target device.

6. Register the new license key to the target device, and check to make sure that the function has been enabled.

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