

Network Video Recorder VK-64/VK-16/ VK-Lite

Setup Guide



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Introduction

Thank you for purchasing Network Video Recorder VK-64 v2.0/VK-16 v2.0 (hereafter referred to as "VK-64/VK-16"), or VK-Lite v2.0 (hereafter referred to as "VK-Lite"). VK-64/VK-16 and VK-Lite are software for recording and monitoring video via a network, and includes storage server software and viewer software.

Read this guide thoroughly before using the software to build a network camera recording and monitoring system. Keep this guide in a safe location for future reference.

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About This Guide

This guide is intended for the following users.

- System administrators who install and manage VK-64/VK-16
- System administrators who install and manage VK-Lite

This guide first explains what you should know before operating a network camera monitoring system, and differences between VK-64/VK-16 and VK-Lite.

"VK-64/VK-16 Installation" describes the process from preparation for installation to system administration, and also provides references to each step's detailed explanations in the *Administrator's Manual*.

"VK-Lite Installation" describes the basic steps for preparation for installation and operation.

First, read this guide up to "Specification Comparison of VK-64/VK-16 and VK-Lite". And then, read "VK-64/VK-16 Installation" or "VK-Lite Installation" depending on the software you use.

Icons used in this guide

The following icons are used in this guide to indicate descriptions that you should read in particular.



Contains notes and operational limitations. Read these notes carefully.

Contains supplementary explanations and reference information for the operation.



Shows the relevant page in other manuals that explains more details. Read these as necessary.



It is recommended to read "VK-Lite Installation" even when installing VK-64/VK-16, as an example of simple configuration with 4 camera servers.

System Operation Overview

Overview of VK-64/VK-16

• Network Video Recorder

Network Video Recorder is software for viewing video, recording video and audio, and playing video from multiple network cameras (hereafter referred to as camera servers). VK-64/VK-16 and VK-Lite enable viewing and recording of JPEG and MPEG-4 video, two-way audio communication, and audio recording.

Network Video Recorder Configuration

The Network Video Recorder consists of storage server software and viewer software. You can record videos from multiple camera servers and can log event information of motion detection and external device input, using the storage server software. Also you can view live videos from multiple camera servers, and play recorded videos saved on storage servers, using the viewer software.

Product Type

Product Name	Storage Server	Viewer
Network Video Recorder VK-64 v2.0	1 license	1 license
Network Video Recorder VK-16 v2.0	1 license	1 license
Network Video Recorder VK-64 v2.0 Viewer	-	1 license
Network Video Recorder VK-64 v2.0 5 Viewers	-	5 licenses

Network Video Recorder VK-64

Up to 64 camera servers can be registered to **Network Video Recorder VK-64** (hereafter referred to as **VK-64**).

Network Video Recorder VK-16

Network Video Recorder VK-16 (hereafter referred to as **VK-16**) has the same core functionalities as VK-64, but the maximum of number of camera servers, which can be registered to, is 16.

Туре	Storage Server	Viewer
VK-64	Up to 64 camera servers can be registered.	
VK-16	Up to 16 camera servers can be registered. All other functions are the same as VK-64.	Same

• VK-64 Viewer (Viewer Only)

You need to purchase the required number of viewer licenses to use additional viewers. Also, VK-64 Viewer is suitable for a monitoring system, in which you need just monitoring, not recording. You can view live videos from and control up to 64 camera severs. (Some functions are not available, such as recording and playing video, displaying event logs of motion detection and external device input, and still frames.)

Upgrade from Older Versions

To upgrade from an older version (v1.1, v1.2, v1.3, or v1.4) to v2.0, download the free patch installer from our website. License keys used for the older versions can also be used for v2.0.

Network Video Recorder VK-Lite

Network Video Recorder VK-Lite supplied with VB-C60 is a simplified version software of VK-64/VK-16. VK-Lite allows displaying video, recording video and audio, and playing audio, of up to 4 camera servers.

A VK-Lite Viewer license is given per camera server. When using multiple camera servers, you need to buy additional licenses ("VK-Lite Additional Viewer License") for each camera.

Specification Comparison of VK-64/VK-16 and VK-Lite

VK-Lite is Network Video Recorder which is supplied with VB-C60. Although VK-Lite basically provides the same functionalities as VK-64/VK-16, there are some functional limitations as follows, since VK-Lite is a simplified version of VK-64/VK-16.

Туре	Main functional limitations	VK-64/VK-16 v2.0	VK-Lite v2.0
	Max. number of camera servers	64 / 16	4
Camera server connection	Available camera servers	VB-C60, VB-C300 VB-C50 series, VB-C10/R, VB-150	VB-C60, VB-C300 VB-C50 series
	Automatic camera server search	\checkmark	✓
	Recording format	JPEG, MPEG-4	JPEG only
	Max. recording frame rate	30 fps*1	5 fps
	Video recording mode	Normal Schedule recording (Continuous recording, Sensor event recording, Motion detection recording) Special Day Schedule recording Manual recording	Normal Schedule recording (Continuous recording) Manual recording
	Max. file size setting	Available 32~1024MB, 1~24 hours	Fixed 1GB/day (1024MB)
Storage	Max. retained history of recorded video	999 weeks*1	12 weeks (90 days)
Server	Audio recording / playback	✓	✓
	Recording to NAS servers		_
	Other functional limitations	_	 Following functions are unavailable. Sending mail when an event occurs Customizing priorities of events Connection via an HTTP proxy
	Live video format	JPEG, MPEG-4	JPEG, MPEG-4
	Max. displaying frame rate	30 fps*1	30 fps*1
	Max. number of video windows on the viewer	Unlimited*1	8 or less is recommended.
	Two-way audio	\checkmark	\checkmark
Viewer	Registration of multiple storage servers*2	<i>√</i>	_
	Layout Sequences*3	\checkmark	-
	Other functional limitations	_	Following function is unavailable. • Connection via HTTP proxy

*1 Operational limits apply depending on the number of camera servers, the PC performance and hard disk capacity, and the amount of network traffic.

*2 In case of using VK-64/VK-16 with multiple storage servers, you can unify management of camera servers registered to each storage server and the recorded data, if you set one master storage server. When connecting to each storage server using VK-Lite viewer, you need to switch connection one by one.

^{*3} Layout Sequences is a function to switch displayed viewer windows at set intervals.

System Configuration Examples

A combination of storage servers and viewers enables various types of system configurations, such as a simple system with one PC and one camera server, or a system using multiple PCs and camera servers.

Prove the server and a view of the server and



This configuration is recommended for a system with multiple camera servers.



Displays live video and recorded video

• • 9

Case 3

Using Multiple Storage Servers and Multiple Viewers

Up to 10 storage servers can be used on a single network. When multiple camera servers are used in a system, you can use one of them as a master storage server, and use the others as slave storage servers. Master storage servers are storage servers, which viewers first connect to, and are used to store information of camera servers registered to each storage server and to store event logs. Although there is no limit on the number of viewers to be connected, up to 10 clients can connect to a single server. In all, up to 192 camera servers can be operated in one system. You can operate a system with a combination of storage servers and VK-64, VK-16 or VK-Lite.



Note

The master storage server function is not available with VK-Lite. When operating multiple storage servers with a VK-Lite viewer, you need to switch the connection one by one.



Before Starting Operation <Important>

Please be sure to perform operational tests in the actual environment before starting operation.

Be aware of the following points prior to operation.

- Video recording and live viewing may not be done as your settings, depending on the network environment and the PC's performance.
- Under a heavy load on the CPU or disk of the PC, the recording may not be done at the specified frame rate, recording may be suspended temporarily, or you may receive slow responses to the viewer operation. Also, when the amount of free disk space becomes low, recording may be suspended temporarily, because the disk load increases due to deleting process of recorded video files.
- Operation and performance of storage servers and viewers may be affected on PCs, where anti-virus software or firewall software is running.
- When using a proxy server, video recording may not be done at the specified frame rate, or live viewing may become interrupted. Also, communication between a storage server and viewer may be interrupted. In those cases, audio cannot be recorded.



 Please be sure to read the following reference page for notes on each version of Windows OS.



- When using a NAS server, take note of the following points.
 - Use recommended NAS servers with Windows Storage Server 2003 or Windows Storage Server 2003 R2.
 - To record video to a NAS server, it is recommended that the network for communicating with a camera server be separated from the network for communication with the NAS server.

Notes on audio functions

- Audio functions are available on VB-C60, VB-C300, VB-C50i, VB-C50iR, VB-C50FSi.
- Audio can be sent and received using VK Viewer.
- Audio recording is available. However, it is not possible to record audio without video. Video and audio must be recorded together.
- Video and audio may be asynchronous.
- Audio data may be interrupted depending on the PC's performance and the network environment.
- Audio data may be interrupted on the PC, where antivirus software is running.
- Audio functions cannot be used via a proxy server.



Chapter

VK-64/VK-16 Installation

Setup Procedure

Setup Procedure

This chapter describes the installation process from preparation to maintenance. Refer to *Administrator's Manual* for detailed explanations of each step.



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VK-64/VK-16 Installation

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Recording Schedule Configuration

Camera Server Registration

When registering a camera, first set the camera's the location and

zone to make it easier to categorize registered cameras. If we look at an example of a retailer with multiple branches and stores, the

branches and stores correspond to locations. The sub-classification, such as entrances, cash desks, parking lots, of each store correspond to zones. Register camera servers after setting locations and zones.

Recording schedule settings are available for each camera server, such as continuous recording, motion detection recording, sensor event recording. Recording schedules include normal schedule and special day schedule, so you can configure detailed settings.



Chapter 4 Register Camera Server and Set Recording Schedule"

Location

Tokyo branch





Viewer Settings

You can customize your monitoring screen by designing and registering layouts of the viewing area. You can register multiple layouts and switch them at a fixed time interval, so it is possible to build large-scale monitoring systems. You can also set an upper limit on the viewing frame rate and configure automatic adjustment settings, as well as configure settings for event notifications to operators and audio alert depending on the priority level.



'Chapter 6 Operation and Management'

"Chapter 5 Viewer Reference"



Management and Maintenance

Network failure caused by unforeseen problems may negatively affect on the surveillance system operation. In order to avoid, it is recommended to carry out maintenance, such as periodical back up of recorded data and settings data.







VK-Lite Installation

System Installation Example

VK-Lite System Installation Example

This chapter explains the process from installation to the operational management with an example of a VK-Lite surveillance system based on the following recording conditions.

Recording Conditions

Number of camera servers	4
Video size	VGA (640 x 480)
Video quality	Standard (Video data size approx. 50KB*1)
Recording frame rate	1 fps
Video retention period	14 days

*1 May vary depending on the camera.

System Configuration Example

The example below shows a system, where a storage server and a viewer share a single PC connecting with 4 camera servers.



have already been completed, including settings for network cameras, and installation, setup and wiring of related equipments.

Step 1: Preparation

Calculate how much free hard disk space will be required for the storage server from the recording conditions to ensure that the system can operate stably.

The amount of hard disk space required can be calculated using the following formula.

Required free hard disk space = No. of cameras x Video data size x Recording frame rate x Video retention period (sec.) = 4 x 50 x 1 x (60 x 60 x 24 x 14) ≈ 291000000 B ≈ 300 GB

The amount of free hard disk space required is therefore over 300 GB. However, this value does not include the space required in the system area.



Do not use an external hard drive to store recorded video data. The video may not be recorded properly or the data may be corrupted.



"System Design Concept" in Administrator's Manual (P.28)

Step 2: Camera Server Installation and Setup

Configure initial camera server settings, such as the IP address setting. Refer to *Start Guide* for details of initial camera server settings.



When you use presets and preset tours, it is recommended to complete camera server settings in advance, so that you can build the system more efficiently.



Initial camera settings \rightarrow *Start Guide* Preset settings \rightarrow "Preset Setting Tool" in *Operation Guide* (P.2-18) 2

Step 3: Installation

Install the VK-Lite storage server software on the PC for storage server and the VK-Lite viewer software on the PC for viewer, using the CD-ROM supplied with the network camera.

In the following example, VK-Lite storage server and VK-Lite viewer are installed on a single PC.

Before Installation

The installation drive and the drive for storing recorded video should be formatted in NTFS.

Installation

Double-click **VKLiteInstall.exe** in the **VBTools** folder on the VB-C60 Setup CD-ROM to start the installation.

Click Next.

The **Software License Agreement** screen appears. Read the agreement carefully, and then select the radio button saying **I accept the terms in the license agreement** and click **Next** to continue.



The License Key entry screen does not appear in VK-Lite installation process.

3

Both of the following applications are displayed.

- Viewer
- Storage Server

When you need to install either one of the above, right-click on the application icon, which you will not install, and choose "This feature will not be available".

4

Click Next.

A screen for starting the installation is displayed.



It is recommended that you do not change the installation directory.
You can change the installation directory by clicking Change.

5 Click Install.

The installation process begins and the progress bar is displayed.

Once the installation has finished, the InstallShield Wizard Completed screen is displayed.



Click Finish.

Now the installation has completed.

Тір 🖊
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If you are running a system with multiple PCs, you need to install the software on each of the PCs.



"Chapter 2 Installation" in Administrator's Manual

Step 4: Storage Server Configuration

Start up "VK-Lite Storage Server Configuration" for storage server settings.

In the following example we will configure basic settings, such as the maximum retained history, low disk space warning level, maximum disk space usage, and user management setting. How to set recording schedule is explained in "Step 6: Recording Schedule Configuration".

9
VK-Lite
Storage
Server
Configuration

v2.0		
Login		(
Please enter you ⊢User Login	ur user name and password.	
User Name		_
Password		

Login



Double-click the VK-Lite Storage Server Configuration v2.0 icon on the Desktop.

The Login dialog box is displayed.

Enter your user name and password, and click **Login**.

The **Storage Server Configuration** dialog box is displayed.



Cancel

• If User Account Control is enabled on Windows Vista, the User Account Control dialog box will be displayed. In this case, click Allow.

🧟 Storage Server Configuration 📃 🖃			
Settings Events Event Notification User Management			
Storage Server Settings			
Storage Server Name Stor	rage Server		
Storage Server Proxy			
The following proxy is used by Camera Servers.	the Storage Server to access		
Enable the following proxy	server		
Proxy server	Port 80		
Recorded Video Settings			
Maximum retained history	14 Days 💌		
Maximum file size / duration	6 Hours 💌		
Low disk space warning level	10 %		
Reduce recording frame rat	e when disk is under high load		
Disk drive settings			
Drive C:[local]			
Maximum disk space used	30 GB 🗸		
Add Network Drive	Delete Network Drive		
-Storage server status			
The storage server is running.			
Stop Storage Server	Start Storage Server		
	Logon settings		
Logon settings			
	Apply Exit		

🙇 Storage Server Configuration		×
Settings Events Event Notification	User Managem	ient
Users : admin user A	Admi	nistrator
Add		emove col
	Apply	Exit



Configure the basic storage server settings.

In this example, we use the conditions shown in "VK-Lite System Installation Example" and the hard disk space calculated in "Step 1: Preparation". You should use values calculated for your actual operating conditions.

- Set the Maximum retained history to 14 days.
- Use the default value of 10% for the Low disk space warning level (A value of 10% or more is recommended).
- Set the Maximum disk space used to 300 GB.

- If the system is to be used by multiple users, you need to add users using the **User Management** tab.
 - To add a user, click **Add** and set the user name and password.
 - To assign administrative privileges to the user, check the **Administrator** checkbox.



It is strongly recommended that before operation, you change the user name "admin" and password created after installation.



The following operations are available by the administrator only.

- · Configuring, registering, and changing camera servers
- · Configuring and changing recording schedules



Click Apply.

The changes are saved.



Step 5: Camera Server Registration

Start up VK-Lite Viewer to register camera servers.

When VK-Lite Viewer is run for the first time, no video is displayed in the viewer screen. To display video in the viewer screen, register a camera server and then arrange the video window on the viewing area.







Double-click the VK-Lite Viewer v2.0 icon on the Desktop.

The storage server connection menu (startup screen) is displayed.

Select localhost from the Master Storage Server pull-down menu, and click Connect.

The Login dialog box is displayed.



In this example, localhost is selected because a storage server and viewer are installed and operate on the same PC.

For the master storage server, select one from the following, considering the actual operating environment.

Operating Environment	Selection
The storage server and viewer are running on the same PC	localhost
The storage server and viewer are running on different PCs	Specify the IP address
Not record video but view live video	Storage Server not used

Login Please enter your user name and password. User Login User Name Password Login Cancel	Enter the "User Name" and "Password", and click Login . The Viewer Screen is displayed.
Network Video Recorder VK-Lite v2.0 - Storage Serve	Select View → Configuration from the menu.
File Edit View] Help Location Configuration Zone Viewing Screen ✓ Fullscreen Alt+Enter ✓ Camera Selector Ctrl+P ✓ Camera Selector Ctrl+M ✓ Timeline Ctrl+E Camera Control Ctrl+D Audio Panel Ctrl+L Status Bar Ctrl+B	The Configuration and Preferences screen is displayed.
	Click the Locations/Zones tab to create locations and zones.

- You can set location names to identify each monitoring site, for example "Office Building", "Store", etc.
- You can set zone names for particular places in each Location, such as "Entrance", "Elevator Lobby", "Inside Store", "Stock Room", "Parking Lot", etc.
- The following example shows a location name and zone names used for a small retail (Only one Location is set, on the assumption that there is one branch only).

Location	VB Store
Zone 1	Inside Store
Zone 2	Stock Room
Zone 3	Parking Lot

6 Click Find Camera Servers.

Camera servers that can be registered are displayed in the **Search Results** dialog box.

Camera Name	Address	Туре	Register
B-C300NA B-C300NA B-C60 B-C60	10.2.3.50 10.2.3.55 10.2.3.69 10.2.3.7	VB-C300NA VB-C300NA VB-C60 VB-C60 VB-C60	
Add Camera Server	III Port 80	Exit	bral

Select a camera server to register, and then click **Add Camera Server**.

The **Add Camera Server** dialog box is displayed.



- 8 Configure the following settings in the Add Camera Server dialog box.
 - Enter the "User Name" and "Password", and then click **Connect**. Make sure that the live view is displayed in the Preview window.
 - Enter the "Camera Name", and select the "Location" and "Zone" of the camera.
 - Click **Start Control**, and adjust the viewing angle of the camera.



Click OK.

Now, the camera server has been registered. The registered camera server information is displayed in the right list of the screen.



Repeat step 6 to 9 to register other camera servers, if necessary.



Reference

Check that all of the camera servers that you are using have been registered successfully in the right list of the screen.



Click Save Changes.

The registered camera information is saved.

→ "Chapter 4 Register Camera Server and Set Recording Schedule" in Administrator's Manual 2

Step 6: Recording Schedule Configuration

Configure the recording schedule settings after camera server registration.

You can configurate recording schedule settings using the **Recording Schedules** tab in the **Configuration and Preferences** screen.

The following example shows a normal schedule for continuous recording at 1 fps all day through Monday to Sunday.

Click the **Recording Schedules** tab in the **Configuration and Preferences** screen.



Drag to select the entire camera server schedule area.

The Add Schedule Item dialog box is displayed. If it is not displayed, go to Camera Summary tub. Then, in the Edit Camera Server dialog box, choose Storage Server from the Storage Server drop-down menu.

Add Schedule Item	n - Camera	×
Schedule		
Times	Start End (Next Day) 00:00 • All Day)
Repeat on	M T W Th F S S V V V V V V	
Recording Setting	gs	_
Record	Continuously at Max	•
	On motion detection	Settings
	On sensor event	Settings
	Audio recording	
Preset	Not Specified 💌	
	Preset Tour	Settings
Exposure Compensation	Not Specified	
Preview		Control Setup
Night Mode	Not Specified 💌	
Resolution	Not Specified 💌	
Option	Exposure WB Control	de 🔲 Focus
External Outputs		
External 0	Dutputs Setting	Setup
	OK	Cancel

Configure the following settings.

- Click All Day.
- Check the Monday to Sunday checkboxes.
- Select "1 fps" from the drop-down list for recording frame rate.



3

Click OK.

The configured schedule is displayed in the schedule area.

Check that the settings are correct and click



Save Schedule.

5



Discard Cha

You can only select "Normal Schedule" in VK-Lite. "Special Day Schedule" cannot be selected.



→ "Chapter 4 Register Camera Server and Set Recording Schedule" in Administrator's Manual

Step 7: Viewer Settings

The following example shows how to configure the basic settings for viewer, create a layout, and display video.

Basic Viewer Settings

You can configure basic viewer settings, such as the maximum frame rate, audio, still images, etc.

In the following example, just check the maximum frame rate setting for live video, but not change the value.



Click the **Viewer Settings** tab in the **Configuration and Preferences** screen.

The default value of the maximum frame rate is "5 fps". You can select from the following frame rates.

0.1, 0.2, 0.5, 1, 2, 5, 10, 15, 20, 25, 30

Creating Layouts and Displaying Video

The final step in the system configuration process is to create layouts. In the following example,

• Use grids to arrange video windows



Select **View** \rightarrow **Viewing Screen** from the menu.

The Viewer is displayed. Video thumbnails of cameras registered in "Step 5: Camera Server Registration" are displayed in the camera selection area at the top of the viewer.



To change the size of video windows, click and drag any corner of the window. When you release the mouse, the size and position are automatically adjusted to match the layout frame.

5 Click and drag other thumbnails onto the Viewing Area and resize the windows. A layout example is shown to the right. Right-click on Viewing Area and select Layout Grids \rightarrow Alignment Grid.

- In the Camera Selection Area, drag a thumbnail onto the grid in the Viewing Area.
- Drag the video window to the position you want to display. When you release the mouse, the size and position are automatically adjusted to match the layout frame.





Layout Grids	•
Initialize Layout	
New Layout	
New Layout Sequence	
Save	
Save As	
Organize	
🔡 Default Shared Layout	
🔡 Default Personal Layout	

Right-click on the Viewing Area and select Save from the menu.

Now, the configuration process has been completed.



- You can create and save new layouts under any name. • Live video quality may be degraded or be difficult to view depending on the video size for transmission set on the camera server. In those cases, the quality may be improved by changing the video size for transmission on the camera
- server or changing the video receiving size using the right-click menu of video windows.

6



"Chapter 5 Viewer Reference" in Administrator's Manual

Step 8: Management and Maintenance

It is recommended to regularly provide the operational management, including backing up of recording and setting data, and system maintenance, while you are operating the system.

This section explained the basic operations of some VK-Lite functionalities and configuration examples for a network camera recording and monitoring system. For more detailed information, refer to Administrator's Manual provided on the supplied CD-ROM.



 \rightarrow "Chapter 6 Operation and Management", "Chapter 7 Backup Scheme", and "Chapter 8 System Maintenance" in Administrator's Manual

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CANON INC.

30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan

CANON U.S.A., INC. One Canon Plaza Lake Success, NY 11042-1198 USA

 If you have any questions, call the Canon U.S.A. Information Center toll-free at 1-800-828-4040 (U.S.A. only)

CANON CANADA INC. NATIONAL HEADQUARTERS 6390 Dixie Road, Mississauga, Ontario L5T 1P7

CANON CANADA INC. CALGARY 2828, 16th Street, N.E, Calgary, Alberta T2E 7K7

CANON CANADA INC. MONTRÉAL 8801 Trans Canada Hwy, St. Laurent Québec H4S 126

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CANON MEXICANA, S. DE R.L.DE C.V.

Boulevard Manuel Avila Camacho, No. 138 PB, Pisos 15, 16 y 17

Col Lomas de Chapultepec C.P. 11000 México, D.F. México

CANON SINGAPORE PTE. LTD.

1 HarbourFront Avenue, #04-01, Keppel Bay Tower Singapore 098632

CANON HONGKONG CO., LTD. 19/F., The Metropolis Tower, 10 Metropolis Drive, Hunghom, Kowloon, Hong Kong

CANON AUSTRALIA PTY.LTD.

1 Thomas Holt Drive, North Ryde, Sydney, N.S.W. 2113, Australia

CANON EUROPA N.V.

Bovenkerkerweg 59-61, P.O. Box 2262, 1185 XB Amstelveen, The Netherlands

CANON EUROPE LTD.

6 Roundwood Avenue, Stockley Park, Uxbridge Middlesex, UB11 1JA, United Kingdom

CANON COMMUNICATION & IMAGE FRANCE

12 Rue De L'Industrie, 92414 Corbevoie, Cedex, Fance

CANON (UK) LTD. Woodhatch, Reigate, Surrey RH2 8BF, United Kingdom

CANON DEUTSCHLAND GmbH Europark Fichtenhain A 10, 47807 Krefeld, Germany

CANON ITALIA S.p.A. Via Milano, 8 San Donato M. se-20097 (MI), Italy

CANON (Schweiz) A.G. Industriestrasse 12, 8305 Dietlikon, Switzerland

CANON BELGIUM N.V./S.A Berkenlaan 3, 1831 Diegem (Mechelen), Belgium

CANON GmbH Zetschegasse 11, A-1230 Wien, Austria

CANON ESPAÑA,S.A. Avda. de Europa, 6 Alcobendas, 28108 Madrid, Spain

CANON SVENSKA AB Gustav III:s, Boulevard 26, 169 88 Solna, Sweden

CANON NORGE A/S Hallagerbakken 110, P.O. Box 33, Holmlia, N-1201 Oslo, Norway

CANON OY Huopalahdentie 24, P.O. Box 1, FIN-00351 Helsinki, Finland

CANON DANMARK A/S

Knud Hoejgaards Vej 1, DK-2860, Soeborg, Denmark