

**OLYMPUS**

# FC-WR

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Model No.: IM012

Thank you for purchasing this Olympus product.

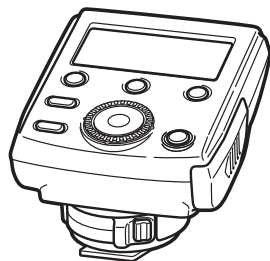
To ensure your safety, please read this instruction manual carefully before use.

In addition, please keep the manual handy for future reference.

Be sure to read the instruction manuals for the flash and the wireless receiver as well.

If you use the product outside the country or region of purchase, you may violate local regulations. Olympus accepts no liability in this case.

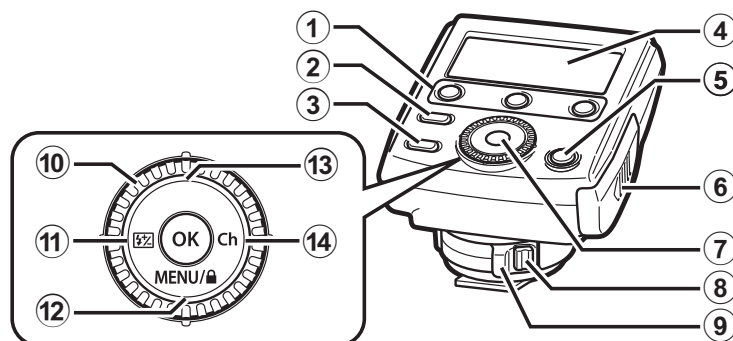
## Checking the Contents of the Package



- Wireless radiowave commander:  
FC-WR

- Pouch
- Instructions (This manual)
- Warranty card

# Names of Parts

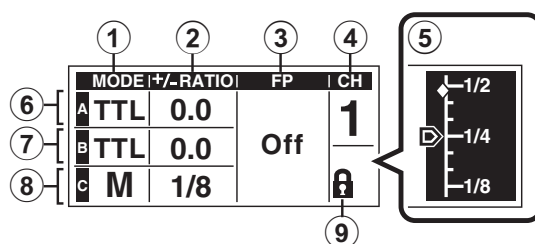


- ① Group buttons (A/B/C) ..... P. 24
- ② MODE button ..... P. 25
- ③ TEST button..... P. 24
- ④ Control panel ..... P. 19
- ⑤ ON/OFF button ..... P. 22
- ⑥ Battery compartment cover..... P. 20
- ⑦ OK button..... P. 24
- ⑧ Latch release button ..... P. 21
- ⑨ Latch ..... P. 21

## Dial/Arrow pad

- ⑩ Dial..... P. 24, 27
- ⑪ (flash compensation/flash intensity)/  
◀ button ..... P. 25, 26
- ⑫ MENU/🔒 (key locking)/▽ button  
..... P. 27
- ⑬ ▲ button
- ⑭ Ch (communication channel)/  
▶ button ..... P. 24

## Display (control panel)



- ① MODE (flash control mode)
- ② +/- (flash compensation)/  
RATIO (flash intensity)
- ③ FP (Super FP) flash
- ④ CH (communication channel)
- ⑤ RATIO (flash intensity)
- ⑥ Group A setting
- ⑦ Group B setting
- ⑧ Group C setting
- ⑨ 🔒 (key lock mode)

# Preparing the Commander

## Inserting the batteries (sold separately)

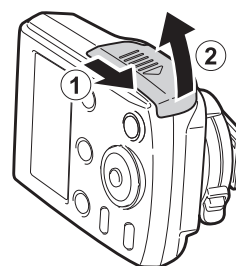
### Batteries to use

Choose from the following batteries.

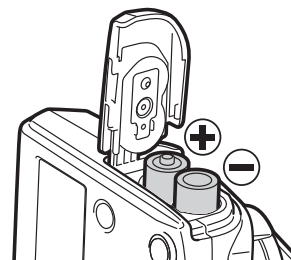
- AAA NiMH batteries (x 2)
- AAA alkaline dry-cell batteries (x 2)
- ❗ AAA manganese batteries are not usable.

### Inserting the batteries

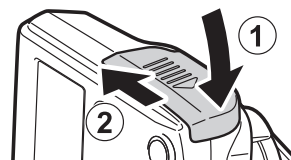
**1** Open the battery compartment cover.



**2** Insert the batteries.  
• Make sure that the polarity ( $\oplus/\ominus$ ) is correct.



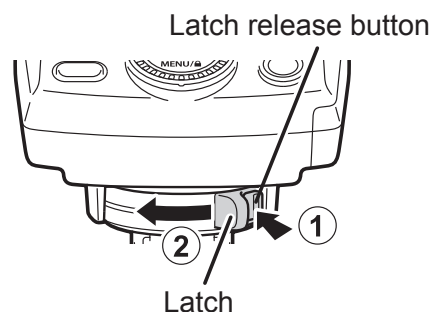
**3** Close the battery compartment cover.



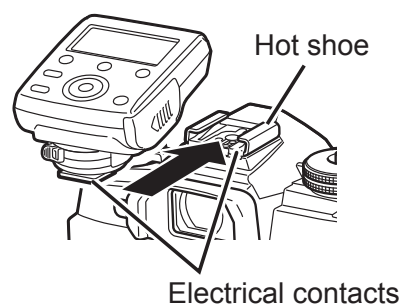
## Attaching the commander to the camera

- ❗ Make sure that both the commander and the camera are turned off.
- ❗ Dirt or moisture on the electrical contacts may cause a malfunction. Wipe off any dirt or moisture before you attach the commander to the camera.

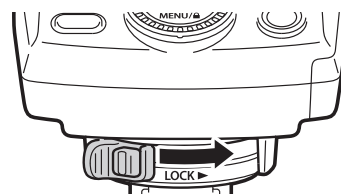
- 1 Hold down the latch release button (①), and slide the latch in the direction of the arrow (②).



- 2 Insert the commander all the way into the hot shoe.



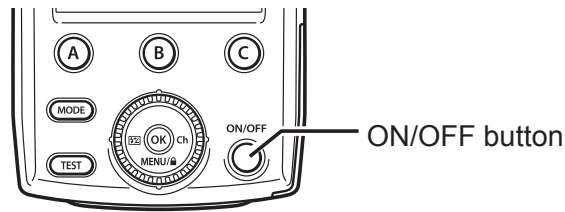
- 3 Slide the latch in the direction of the arrow.




## Removing the commander

Perform Step 1 of the above procedure and remove the commander from the hot shoe.

## Turning on the Power



### 1 Press the ON/OFF button.

- ❗ If the  mark appears in the center of the control panel, the batteries are running very low. Replace the batteries as soon as possible.

## Turning off the power

Press the ON/OFF button.

## Sleep mode/Automatic power off

- With some cameras, the commander will automatically enter the sleep mode when the camera enters the sleep mode.
- If approximately 60 minutes elapse with no operations, the power will turn off automatically. Press the ON/OFF button when you want to use the commander again.

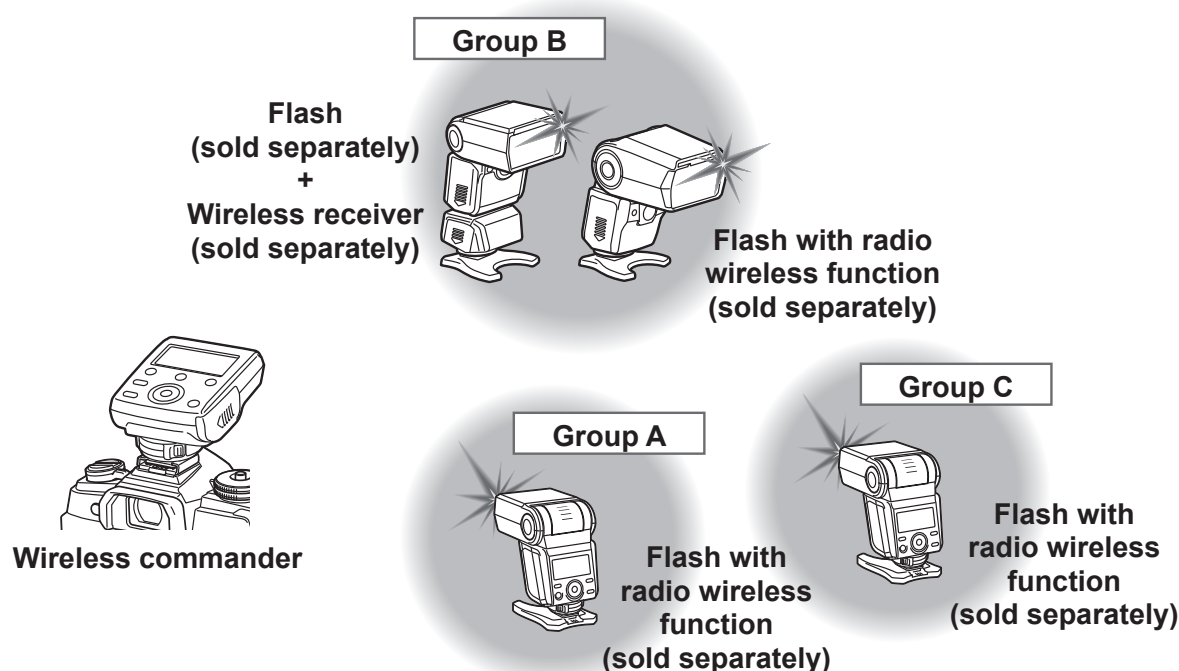
# Radio Wireless Shooting

You can use this wireless commander to control multiple receivers through radio communications. This function only works with Olympus products that support the radio wireless function.

Refer to the Olympus website for information on products that support the radio wireless function.

## Group control

You can control up to three groups of receivers. Within each group, the flashes will fire with the same settings. This function allows you to shoot with a variety of lighting effects.



## Communication distance

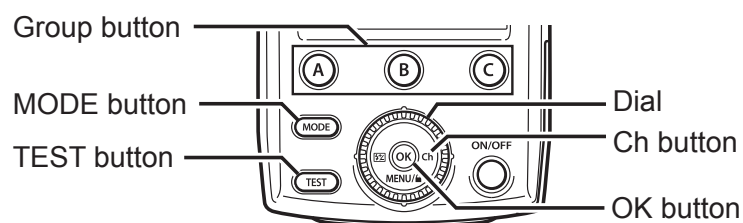
The maximum distance for radio wireless communications with this wireless commander is approx. 30 meters (98.4 ft.) (under Olympus measurement conditions).

- This distance assumes that there are no obstacles, shielding materials, or radio interference from other devices.
- The communication distance may be shorter depending on the positions of the devices, the surrounding environment, weather conditions, and other factors.

## Frequency

This product uses the 2.4 GHz band for wireless communications. However, other wireless devices may use the same frequency.

# Setup



- 1** Set a flash mode on the camera.
  - Refer to the camera manual for details.
- 2** Press the group button to select a communication group.
- 3** Select a flash control mode and adjust the settings.
  - For details, refer to the explanations of the flash control modes (P. 25 to 26).
  - ❗ If you do not want to use this communication group, select “Off.”
- 4** Press the Ch button to highlight CH. Then, turn the dial to select a communication channel. Press the OK button to confirm.
  - You can select SCAN\* or a channel from 1 to 15.
  - \*Select this setting when the communication conditions are poor due to interference from other devices. When an unused channel appears automatically, press the OK button again to confirm.
- 5** Match the receiver channel to the commander channel.
- 6** Set the group on the receiver.
- 7** Press the TEST button to check the flash.



## Shooting with Automatic Flash Control (TTL Mode)

The TTL mode adjusts the flash level according to the brightness through the camera lens. You can use this mode with cameras that support the Olympus TTL mode. Refer to the Olympus website for a list of compatible cameras.

- 1 Press the MODE button. Then, turn the dial to select TTL. Press the OK button to confirm.

MODE	+/-RATIO	FP	CH
A	TTL 0.0	Off	1 ·)
B	TTL 0.0		
C	M 1/128		

- 2 Set the flash compensation (+/-).

Press the  button to highlight +/- RATIO. Then, turn the dial to adjust the setting.

- You can set a flash compensation from -5 to +5.

Press the OK button.

## Manually Setting the Flash Intensity (M Mode)

The flash will fire at the selected intensity. You can use this mode with cameras that do not support the Olympus communication feature.

- 1 Press the MODE button. Then, turn the dial to select M. Press the OK button to confirm.



MODE	+/-RATIO	FP	CH
A	TTL 0.0	Off	1 ·)
B	TTL 0.0		
C	M 1/100		

- 2 Set the flash intensity (RATIO).

Press the  button to highlight RATIO. Then, turn the dial to adjust the setting.

- You can set a flash ratio from 1/1 to 1/128.\*<sup>1</sup>

\*<sup>1</sup> You can select 1/2 EV or 1/3 EV for the adjustment increment. (P. 28)

\*<sup>2</sup> On the scale display,  is the current selection.  is the previous setting.

Press the OK button.

MODE	+/-RATIO	FP	CH
A	TTL 0.0	Off	1 ·)
B	TTL 0.0		
C	M 1/100		

Scale display\*<sup>2</sup>

# Firing the Flash at a High Shutter Speed (FP TTL Mode / FP M Mode)

You can shoot with the flash at shutter speeds faster than the flash sync speed. These modes are useful when you want to shoot a portrait with a blurry background by widening the aperture, or when you want to use a high shutter speed to reduce blown-out highlights in the background.

The guide number is lower than in the regular TTL mode or M mode.

- 1 Press the MODE button. Then, turn the dial to select TTL or M. Press the OK button to confirm.
- 2 Press  $\triangleleft \triangleright \triangle$  on the arrow pad to highlight FP. Then, turn the dial to select "On."
- 3 Adjust the settings.

MODE	+/-RATIO	FP	CH
A FP TTL	0.0	On	1
B FP TTL	0.0		1
C FP M	1/128		1

## Setting the flash compensation (+/-) in the FP TTL mode

Press the  $\frac{1}{2}$  button to highlight +/- RATIO. Then, turn the dial to adjust the setting.

- You can set a flash compensation from -5 to +5.

Press the OK button.

## Setting the flash intensity (RATIO) in the FP M mode

Press the  $\frac{1}{2}$  button to highlight +/- RATIO. Then, turn the dial to adjust the setting.

- You can set a flash ratio from 1/1 to 1/128.\*1

\*1 You can select 1/2 EV or 1/3 EV for the adjustment increment. (P. 28)

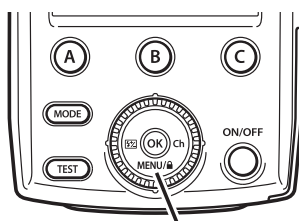
\*2 On the scale display,  $\triangleright$  is the current selection.  $\triangleleft$  is the previous setting.

Press the OK button.

MODE	+/-RATIO	FP	CH
A FP TTL	0.0	On	1
B FP TTL	0.0		1
C FP M	1/100		1

Scale display\*2

## Other settings



MENU/lock button

### Preventing accidental operation (key lock mode)

You can prevent accidental operation of the buttons and dial during shooting.

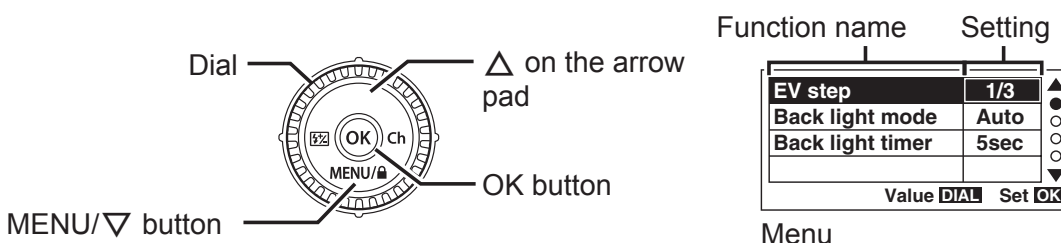
- 1 Hold down the MENU/lock button until lock appears on the control panel.
  - To cancel the mode, hold down the MENU/lock button until lock disappears from the control panel.

MODE		+/−RATIO	FP	CH
A	TTL	0.0	Off	1
B	TTL	0.0		
C	M	1/8		lock

## Settings on the MENU Screen

You can configure various functions to make the wireless commander easier to use.

### Setup procedure



- 1 Press the MENU button.
- 2 Press the Δ ▽ on the arrow pad and select a function name.
- 3 Turn the dial to select a setting, and press the OK button to confirm.

## Configurable functions

 indicates the default setting.

**EV step: You can change the adjustment increment for  +/- (flash compensation/flash intensity).**

 1/3 / 1/2

**Back light mode: You can set the back light of the control panel.**

**Auto** (The back light turns on during operation.) /

**On** (The back light is always on.) / **Off** (The back light is always off.)

**Back light timer: You can set when to turn off the back light of the control panel.**

You can select the time (in seconds) until the back light turns off automatically when there is no operation.

From **1sec** to  **5sec** to **15sec**

## Safety Precautions

Read WARNINGS and CAUTIONS thoroughly to ensure safe usage. These safety precautions protect the users and others and prevent property damage.



### **WARNING**

Failure to observe the precautions indicated by this symbol may result in injury or death.

- Do not use flash in places where it may be exposed to flammable or explosive gas. Otherwise, fire ignition or explosion may result.
- Do not directly solder the product or modify, remodel, or disassemble.
- Do not cover the light emitting area of the flash with your hand, and do not touch the light emitting area after continuous firing. It may burn your skin.
- Water and foreign matter inside of the device may cause fire or electric shock. If the device is immersed in or exposed to water or foreign matter is found inside of the device, turn off the power immediately and remove batteries with care. Contact your dealer or consult an Olympus Authorized Service Station.
- To prevent a traffic accident, do not direct the flash at a person operating a motor vehicle.
- Do not use the flash or AF illuminator in close proximity to others (especially infants). Keep the flash out of reach of children. Light from the flash can cause visual impairment.
- To prevent a short circuit, do not use batteries with a damaged external seal (insulation coating).

- Do not mix old and new batteries, or batteries made by different manufacturers.
- Do not connect substances such as metal to the (+) or (–) of batteries.



### **CAUTION**

Failure to observe the precautions indicated by this symbol may result in injury or property damage.

- If you notice any abnormalities such as odor, noise, or smoke, stop using this device. Otherwise a fire or burn may result. Remove the batteries carefully to avoid burning yourself, and contact your dealer or consult an Olympus Authorized Service Station.
- There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Do not operate with wet hands. This may cause malfunction or electric shock.
- Do not use or store batteries in areas exposed to extremely high temperatures, such as in direct sunlight, in an enclosed vehicle on a sunny day, or near a heater.
- Continuous repeated firing could lead to adverse health effects.
- Dirt or water on the contacts can cause malfunction. Remove dirt, water, and other foreign matter before attaching the unit to the camera.

### **Using the radio wireless function**

- When you use the radio wireless communication function, comply with all local laws and regulations.
- If you use the product outside the region of purchase, you may violate local regulations for radio waves. Olympus accepts no liability in this case.
- Turn off the product in hospitals and other locations where medical equipment is present.  
The radio waves from the product may adversely affect medical equipment, causing a malfunction that results in an accident.
- Turn off the product when onboard aircraft.  
Using wireless devices onboard may hinder safe operation of the aircraft.

### **FCC Caution**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment must not be co-located or operated in conjunction with any other antenna or equipment except Olympus wireless equipment whose RF exposure was evaluated for this equipment. For the latest information, please visit the Olympus website.

Website: <https://cs.olympus-imaging.jp/en/support/imshow/digicamera/download/notice/rfsimulldlist.cfm>

## FCC Notice

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Declaration of Conformity

Model Number : IM012

Trade Name : OLYMPUS

Responsible Party : **OLYMPUS AMERICA INC.**

Address : 3500 Corporate Parkway, P. O. Box 610, Center Valley,  
PA 18034-0610, USA

Telephone Number : 484-896-5000

Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

This device complies with part 15 of FCC Rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules as this equipment has very low levels of RF energy.

## **Simple Declaration of Conformity**

Hereby, OLYMPUS CORPORATION declares that the radio equipment type IM012 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<http://www.olympus-europa.com/>



This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the EU countries.

Please do not throw the equipment into the domestic refuse.

Please use the return and collection systems available in your country for the disposal of this product.

<b>Radio wireless communication function</b>	
Compatible standard	IEEE 802.15.4 2405 - 2480 MHz 3 mW or less
Firmware	Version 1.0 or later

Complies with IMDA Standards DB104634
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# Specifications

Product type	Wireless radiowave commander
Maximum communication distance* <sup>1</sup>	Approx. 30 m (98.4 ft.)
Frequency	2.4 GHz band
Number of channels	15 (in the commander mode; with automatic channel setting function)
Number of groups	3; maximum number of units: unlimited
Flash control modes	TTL / MANUAL / FP TTL / FP MANUAL / Off
Flash compensation	±5 EV (Increment: 1/3 EV or 1/2 EV)
Manual flash intensity adjustment	From 1/1 to 1/128 (Increment: 1/3 EV or 1/2 EV)
Operable duration* <sup>1</sup>	Approx. 6.4 hours (when using AAA alkaline dry-cell batteries)
Power supply	AAA alkaline dry-cell batteries x 2 / AAA NiMH batteries x 2
Splash-proof function (Type)	Class 1 (IPX1)
Operable temperature/humidity* <sup>2</sup>	From -10 to 40°C (14 to 104°F) / From 30 to 90%
Storage warranty temperature/humidity	From -20 to 60°C (-4 to 140°F) / From 10 to 90%
Dimensions	Approx. 59.5 (W) x 51.0 (H) x 67.4 (D) mm (2.3 x 2.0 x 2.7 in.) [excluding the projecting parts]
Weight	73 g (2.6 oz.) [excluding the batteries]

Specifications are subject to change without notice.

\*<sup>1</sup> Values are based on Olympus testing conditions and may vary according to the shooting conditions. The values assume the use of new batteries or fully charged rechargeable batteries.

\*<sup>2</sup> At low temperatures, warm the batteries before use. For example, place the batteries in your pocket.



**Technical Support (U.S.A. / Canada)**

24/7 online automated help: <http://www.olympusamerica.com/support>

Phone customer support: Tel. 1-800-260-1625 (Toll-free)

Our phone customer support is available from 9 am to 9 pm (Monday to Friday) ET

E-Mail: [distec@olympus.com](mailto:distec@olympus.com)

**European Technical Customer Support**

Please visit our homepage

<http://www.olympus-europa.com>

or call: Tel. 00800 - 67 10 83 00 (Toll-free)

+49 40 - 237 73 899 (Charged)

date of issue 2018.10.

# **OLYMPUS**

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The following importer description applies to products imported into the EU directly by OLYMPUS EUROPA SE & Co. KG only.  
OLYMPUS EUROPA SE & Co. KG  
Wendenstrasse 14-18, 20097 Hamburg, Germany  
Manufactured by OLYMPUS CORPORATION  
2951 Ishikawa-machi, Hachioji-shi, Tokyo 192-8507, Japan