

**FUJIFILM**

DIGITAL CAMERA

**X-S 20**

Owner's Manual

## Introduction

Thank you for your purchase of this product. Be sure that you have read this manual and understood its contents before using the camera. Keep the manual where it will be read by all who use the product.

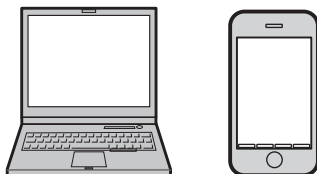
### For the Latest Information

For the latest information on this product, including the latest versions of the manuals and sample color photographs, visit:

*<http://fujifilm-dsc.com/manuals/>*



The site can be accessed not only from your computer but also from smartphones and tablets.



For information on firmware updates, visit:

*[http://www.fujifilm.com/support/digital\\_cameras/software/](http://www.fujifilm.com/support/digital_cameras/software/)*

## About This Manual

This manual contains instructions for your FUJIFILM X-S20 digital camera. Be sure you have read and understood its contents before proceeding.

### Symbols and Conventions

The following symbols are used in this manual:



Information that should be read to prevent damage to the product.



Additional information that may be helpful when using the product.



Pages on which related information may be found.

Menus and other text in the displays are shown in **bold**. Illustrations are for explanatory purposes only; drawings may be simplified, while photographs are not necessarily taken with the model of camera described in this manual.

### Terminology

The optional SD, SDHC, and SDXC memory cards the camera uses to store pictures are referred to as “memory cards”. The electronic viewfinder may be referred to as the “EVF” and the LCD monitor as the “LCD”.

### The Serial Number Plate

Do not remove the serial number plate, which provides the FCC ID, KC mark, CMIIT ID, serial number, and other important information.

## Charging the Battery

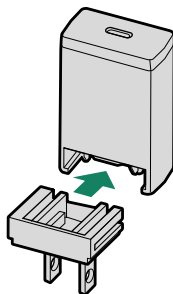
The battery is not charged at shipment. Turn the camera off and charge the battery before use. The camera charges the battery internally.

- ! An NP-W235 rechargeable battery is supplied with the camera.
- Charging takes about 180 minutes.

### 1 Attach the plug adapter to the AC power adapter.

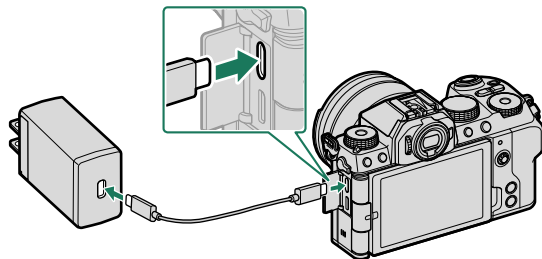
Attach the plug adapter as shown, making sure that it is fully inserted and clicks into place on the AC power adapter terminals.

- ! The supplied plug adapter is for use exclusively with the AC-5VJ AC power adapter. Do not use it with other devices.
- The shape of the plug adapter varies with the country of sale.



### 2 Charge the battery.

Connect the camera to the supplied AC power adapter using the supplied USB cable. Then plug the AC power adapter into an indoor power outlet.



- ! Connect the cable to the camera's USB connector (Type-C).
- Be sure the connectors are fully inserted.

### Charge Status

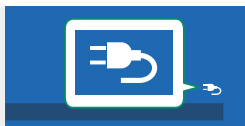
The indicator lamp shows battery charge status as follows:



Indicator lamp	Battery status
On	Battery charging
Off	Charging complete
Blinks	Battery fault

- ❗ Do not affix labels or other objects to the battery. Failure to observe this precaution could make it impossible to remove the battery from the camera.
- Do not short the battery terminals. The battery could overheat.
- Read the cautions in “The Battery and Power Supply”.
- Use only genuine Fujifilm rechargeable batteries designated for use in this camera. Failure to observe this precaution could result in product malfunction.
- Do not remove the labels from the battery or attempt to split or peel the outer casing.
- The battery gradually loses its charge when not in use. Charge the battery one or two days before use.
- If the battery fails to hold a charge, it has reached the end of its charging life and must be replaced.
- Remove dirt from the battery terminals with a clean, dry cloth. Failure to observe this precaution could prevent the battery from charging.
- Note that charging times increase at low or high temperatures.

- 🔌 If the camera is turned on during charging, charging will end and the USB connection will instead be used to power the camera. The battery level will begin to gradually decline.
- The camera will display an “external power source” icon when powered via USB.



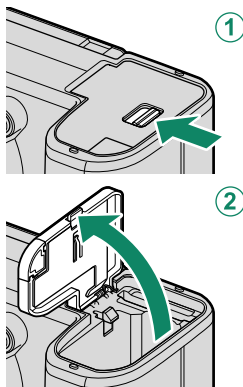
## Inserting the Battery and a Memory Card

Insert the battery and memory card as described below.

### 1 Open the battery-chamber cover.

Slide the battery-chamber latch as shown and open the battery-chamber cover.

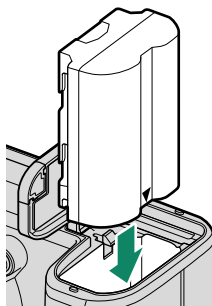
- ⓘ • Do not remove the battery when the camera is on. Failure to observe this precaution could damage image files or memory cards.
- Do not use excessive force when handling the battery-chamber cover.



### 2 Insert the battery.


Insert the battery as shown.

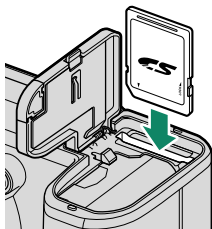
- ⓘ • Insert the battery in the orientation shown. ***Do not use force or attempt to insert the battery upside down or backwards.*** The battery will slide in easily in the correct orientation.
- Confirm that the battery is securely latched.



### 3 Insert the memory card.


Holding the card in the orientation shown, slide it in until it clicks into place at the back of the slot.

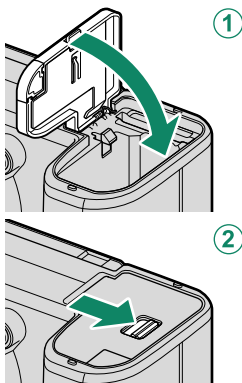
 Be sure card is in the correct orientation; do not insert at an angle or use force.




### 4 Close the battery-chamber cover.


Close and latch the cover.

 If the cover does not close, check that the battery is in the correct orientation. Do not attempt to force the cover shut.



### 5 Format the memory card.

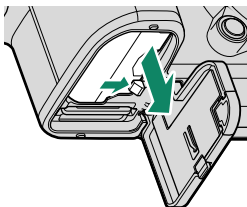
 Format memory cards before first use, and be sure to reformat all memory cards after using them in a computer or other device.


 Do not open the battery-chamber cover when the camera is on. Failure to observe this precaution could damage image files or memory cards.

## Removing the Battery and Memory Card

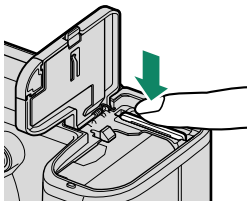
Before removing the battery, *turn the camera off* and open the battery-chamber cover.


To remove the battery, press the battery latch to the side, and slide the battery out of the camera as shown.



 The battery may become hot when used in high-temperature environments. Observe caution when removing the battery.

To remove the memory card, press it in and release it slowly. The card can then be removed by hand.



 • Press the center of the card when ejecting it.  
• When a memory card is removed, the card could be ejected too quickly. Use your finger to hold it and gently release the card.



## Compatible Memory Cards

- The camera can be used with SD, SDHC, and SDXC memory cards.
- The camera supports UHS-I memory cards.
- To record movies, use cards with a UHS speed class of 3 or better or a video speed class of V30 or better.
- A list of supported memory cards is available on the Fujifilm website. For details, visit: <https://fujifilm-x.com/support/compatibility/>.



• Do not turn the camera off or remove the memory card while the memory card is being formatted or data are being recorded to or deleted from the card. Failure to observe this precaution could damage the card.

- Memory cards can be locked, making it impossible to format the card or to record or delete images. Before inserting a memory card, slide the write-protect switch to the unlocked position.

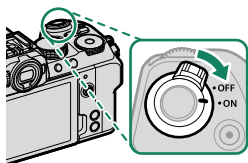



- Memory cards are small and can be swallowed; keep out of reach of children. If a child swallows a memory card, seek medical assistance immediately.
- miniSD or microSD adapters that are larger or smaller than memory cards may not eject normally; if the card does not eject, take the camera to an authorized service representative. Do not forcibly remove the card.
- Do not affix labels or other objects to memory cards. Peeling labels can cause camera malfunction.
- Movie recording may be interrupted with some types of memory card.
- Formatting a memory card in the camera creates a folder in which pictures are stored. Do not rename or delete this folder or use a computer or other device to edit, delete, or rename image files. Always use the camera to delete pictures; before editing or renaming files, copy them to a computer and edit or rename the copies, not the originals. Renaming the files on the camera can cause problems during playback.




## Turning the Camera On and Off

Use the **ON/OFF** switch to turn the camera on and off.

Slide the switch to **ON** to turn the camera on, or to **OFF** to turn the camera off.










 Fingerprints and other marks on the lens or viewfinder can affect pictures or the view through the viewfinder. Keep the lens and viewfinder clean.

-  Press the  button to start playback. Press the shutter button halfway to return to shooting mode.
- The camera will turn off automatically if no operations are performed for the length of time selected for  **POWER MANAGEMENT > AUTO POWER OFF**. To reactivate the camera after it has turned off automatically, press the shutter button halfway or turn the **ON/OFF** switch to **OFF** and then back to **ON**.

## Checking the Battery Level

After turning the camera on, check the battery level in the display.

Battery level is shown as follows:

Indicator	Description
	Battery partially discharged.
	Battery about 80% full.
	Battery about 60% full.
	Battery about 40% full.
	Battery about 20% full.
 (red)	Low battery. Charge as soon as possible.
 (blinks red)	Battery exhausted. Turn camera off and recharge battery.

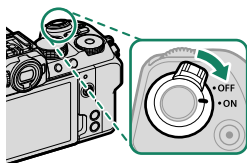


## Basic Setup

A language-selection dialog is displayed the first time the camera is turned on.

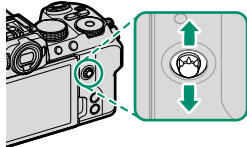
### 1 Turn the camera on.

A language-selection dialog will be displayed.




### 2 Choose a language.

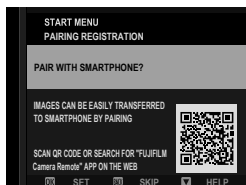
Highlight a language and press **MENU/OK**.



### 3 Pair the camera with the smartphone or tablet.

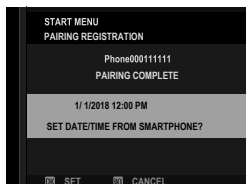
Press **MENU/OK** to pair the camera with a smartphone or tablet running the FUJIFILM Camera Remote app.

 To skip pairing, press **DISP/BACK**.



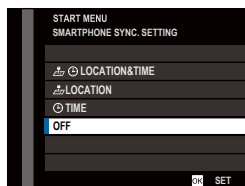
### 4 Check the time.

When pairing is complete, you will be prompted to set the camera clock to the time reported by the smartphone or tablet. Check that the time is correct.



 To set the clock manually, press **DISP/BACK**.

- 5 Synchronize the camera settings with the settings configured on your smartphone or tablet.**



The option selected can be changed at any time using

**CONNECTION SETTINGS > Bluetooth SETTINGS.**

- 6 Set the clock.**

Press **MENU/OK** to set the camera clock to the time reported by the smartphone or tablet and exit to shooting mode.




If the battery is removed for an extended period, the camera clock will be reset and the language-selection dialog will be displayed when the camera is turned on.

### **Skipping the Current Step**

Press **DISP/BACK** to skip the current step. A confirmation dialog will be displayed; select **NO** to avoid repeating any steps you skipped the next time the camera is turned on.


## Choosing a Different Language

To change the language:

- 1 **Display language options.**  
Select  **USER SETTING** > 言語/LANG..
- 2 **Choose a language.**  
Highlight the desired option and press **MENU/OK**.

## Changing the Time and Date

To set the camera clock:

- 1 **Display DATE/TIME options.**  
Select  **USER SETTING** > **DATE/TIME**.
- 2 **Set the clock.**  
Press the focus stick (focus lever) left or right to highlight the year, month, day, hour, or minute and press up or down to change. Press **MENU/OK** to set the clock.

## REGULATORY

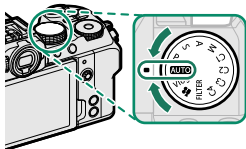
To view electronic copies of the product model number, CMIIT ID, and other certificates, select  **USER SETTING** > **REGULATORY** in the setup menu.

# Taking Photographs

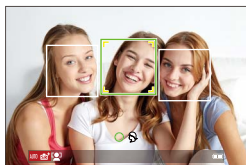
This section explains basic photography.


## 1 Select **AUTO** mode.

Rotate the mode dial to **AUTO**. The following information will be displayed in the LCD monitor.



The camera automatically selects a scene according to the type of subject detected.



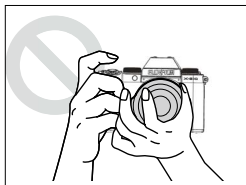
 In **AUTO** mode, the camera continuously adjusts focus and searches for eyes, increasing the drain on the battery; in addition, the sound of the camera focusing may be audible.

## 2 Ready the camera.

Hold the camera steady with both hands—shaking or unsteady hands can blur your shots.



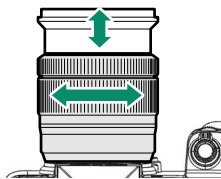
To prevent pictures that are out of focus or too dark (underexposed), keep your fingers and other objects away from the lens, flash, and AF-assist illuminator.



### 3 Frame the picture.

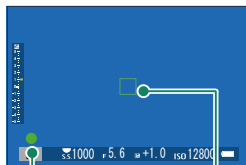
#### Lenses with Zoom Rings

Use the zoom ring to frame the picture in the display. Rotate the ring left to zoom out, right to zoom in.



### 4 Focus.

Press the shutter button halfway to focus.



Focus  
indicator

Focus frame

- **If the camera is able to focus**, it will beep twice, the focus frame will turn amber and green, and the focus indicator will turn green.
- **If the camera is unable to focus**, the focus frame will turn red, **!AF** will be displayed, and the focus indicator will blink white.



- If the subject is poorly lit, the AF-assist illuminator may light to assist the focus operation.
- Focus and exposure will lock when the shutter button is pressed halfway. Focus and exposure remain locked while the button is kept in this position (AF/AE lock).
- The camera will focus on subjects at any distance in the macro and standard focus ranges for the lens.

### 5 Shoot.

Smoothly press the shutter button the rest of the way down to take the picture.

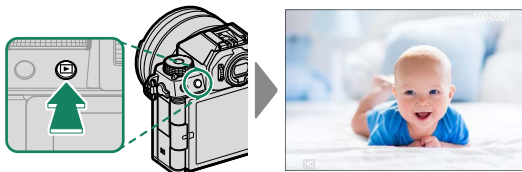




## Viewing Pictures

Pictures can be viewed in the viewfinder or LCD monitor.

To view pictures full frame, press




Additional pictures can be viewed by pressing the focus stick (focus lever) left or right or rotating the front command dial. Press the focus stick or rotate the dial right to view pictures in the order recorded, left to view pictures in reverse order. Keep the focus stick pressed to scroll rapidly to the desired frame.



Pictures taken using other cameras are marked with a ("gift image") icon to warn that they may not display correctly and that playback zoom may not be available.




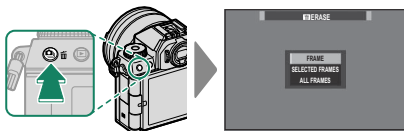
## Deleting Pictures

Use the  (delete) button to delete pictures.




Deleted pictures can not be recovered. Copy important pictures to a computer or other storage device before proceeding.

- 1 With a picture displayed full frame, press the  (delete) button and select **FRAME**.



- 2 Press the focus stick (focus lever) left or right to scroll through pictures and press **MENU/OK** to delete (a confirmation dialog is not displayed). Repeat to delete additional pictures.




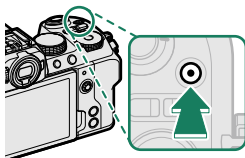
- Protected pictures can not be deleted. Remove protection from any pictures you wish to delete.
- Pictures can also be deleted from the menus using the  **PLAY BACK MENU > ERASE** option.




## Recording Movies


Record movies with sound.

- 1 Press  to start recording.



- A recording indicator () is displayed while recording is in progress.
- The time remaining is displayed while recording is in progress.



- 2 Press  again to end recording.

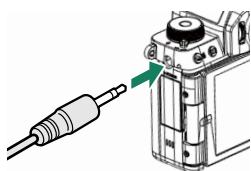
Recording ends automatically when the maximum length is reached or the memory card is full.



When the mode dial is rotated to  (MOVIE), the shutter button can be used for movie recording.

### Using an External Microphone

Sound can be recorded with external microphones that connect using jacks 3.5 mm in diameter; microphones that require plug-in power cannot be used. See the microphone manual for details.






- Use a memory card with a UHS speed class of 3 or better when recording movies.
- Touch digital zoom ends when recording begins.
- Sound is recorded via the built-in microphone or an optional external microphone. Do not cover the microphone during recording.
- Note that the microphone may pick up lens noise and other sounds made by the camera during recording.
- Vertical or horizontal streaks may appear in movies containing very bright subjects. This is normal and does not indicate a malfunction.



- The indicator lamp lights while recording is in progress.
- In the case of zoom lenses, zoom can be adjusted during recording using the zoom ring (if available).
- Exposure compensation can be adjusted during recording, but only by a maximum of  $\pm 2$  EV.
- Recording may be unavailable at some settings, while in other cases settings may not apply during recording.
- Headphones connected via USB can be used to monitor audio during movie recording. Use the supplied headphone adapter to convert the USB connector to a plug for a headphone jack.



## Viewing Movies

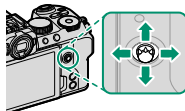
View movies on the camera.

In full-frame playback, movies are identified by a  icon.




The following operations can be performed while a movie is displayed:



Focus stick (focus lever)	Playback in progress (  )	Playback paused (  )
UP	End playback	
Down	Pause playback	Start/resume playback
Left/right	Adjust speed	Single frame rewind/advance





Progress is shown in the display during playback.

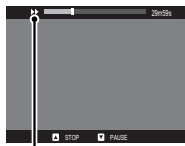
 Do not cover the speaker during playback.



 Press **MENU/OK** to pause playback and display volume controls. Press the focus stick (focus lever) up or down to adjust the volume; press **MENU/OK** again to resume playback. Volume can also be adjusted using  **SOUND SETTING > PLAYBACK VOLUME**.

### Playback Speed



Press the focus stick (focus lever) left or right to adjust playback speed during playback. Speed is shown by the number of arrows ( or ).

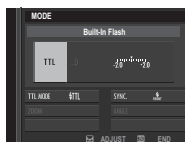
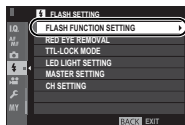


Arrows


## Flash Photography

Use the built-in flash for additional lighting when shooting at night or indoors under low light.

- 1 Slide the  lever as shown to raise the flash.
- 2 Select  **FLASH SETTING** in the shooting menu and, after confirming that **ON** is selected for **Built-In Flash**, select **FLASH FUNCTION SETTING** to display flash options.
- 3 Highlight items using the focus stick (focus lever) and rotate the rear command dial to change the highlighted setting.

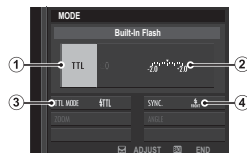


- 4 Press **DISP/BACK** to put the changes into effect.







- Depending on the distance to the subject, some lenses may cast shadows in photos taken with the flash.
- The flash will not fire at some settings, for example in panorama mode or when the electronic shutter is used.
- In TTL mode, the flash may fire several times with each shot. Do not move the camera until shooting is complete.
- The flash will not fire if **OFF** is selected for **SOUND & FLASH** in the  **USER SETTING** menu.

## Flash Settings

The following settings are available with the built-in flash.



Setting	Description
① Flash control mode	<p>Choose from the following options:</p> <ul style="list-style-type: none"> <li>• <b>TTL</b>: TTL mode. Adjust flash compensation (②) and choose a flash mode (③).</li> <li>• <b>M</b>: The flash fires at the selected output (②) regardless of subject brightness or camera settings. Output is expressed in fractions of full power, from 1/1 to 1/64. The desired results may not be achieved at low values if they exceed the limits of the flash control system; take a test shot and check the results.</li> <li>• <b>COMMANDER</b>: Choose if the flash is being used to control remote synced flash units, for example as part of a studio flash system.</li> <li>• <b>OFF (OFF)</b>: The flash does not fire.</li> </ul>
② Flash compensation/output	Adjust flash level. The options available vary with the flash control mode (①).

Setting	Description
<b>③</b> Flash mode (TTL)	<p>Choose a flash mode for TTL flash control. The options available vary with the shooting mode (<b>P</b>, <b>S</b>, <b>A</b>, or <b>M</b>) selected.</p> <ul style="list-style-type: none"> <li>•  <b>(FLASH AUTO)</b>: The flash fires only as required; flash level is adjusted according to subject brightness. A  icon displayed when the shutter button is pressed halfway indicates that the flash will fire when the photo is taken.</li> <li>•  <b>(STANDARD)</b>: The flash fires with every shot if possible; flash level is adjusted according to subject brightness. The flash will not fire if not fully charged when the shutter is released.</li> <li>•  <b>(SLOW SYNC.)</b>: Combine the flash with slow shutter speeds when photographing portrait subjects against a backdrop of night scenery. The flash will not fire if not fully charged when the shutter is released.</li> </ul>
<b>④</b> Sync	<p>Choose whether the flash is timed to fire immediately after the shutter opens ( <b>1ST CURTAIN</b>) or immediately before it closes ( <b>2ND CURTAIN</b>). <b>1ST CURTAIN</b> is recommended in most circumstances.</p>



# For Your Safety

## IMPORTANT SAFETY INSTRUCTIONS

- **Read Instructions:** All the safety and operating instructions should be read before the appliance is operated.
- **Retain Instructions:** The safety and operating instructions should be retained for future reference.
- **Heed Warnings:** All warnings on the appliance and in the operating instructions should be adhered to.
- **Follow Instructions:** All operating and use instructions should be followed.

### Installation

**Power Sources:** This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

**Grounding or Polarization:** This video product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

**Alternate Warnings:** This video product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

**Overloading:** Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

**Ventilation:** Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface.

This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. This video product should never be placed near or over a radiator or heat register.

**Attachments:** Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

**Water and Moisture:** Do not use this video product near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

**Power-Cord Protection:** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

**Accessories:** Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

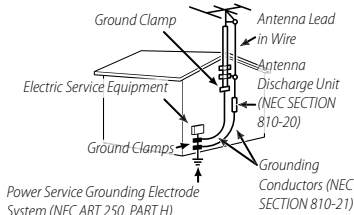
An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



### Antennas

**Outdoor Antenna Grounding:** If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE



**Power Lines:** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

## Use

**Cleaning:** Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

**Object and Liquid Entry:** Never push objects of any kind into this video product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.

**Lightning:** For added protection for this video product receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.

## Service

**Servicing:** Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**Damage Requiring Service:** Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged
- If liquid has been spilled, or objects have fallen into the video product.
- If the video product has been exposed to rain or water.
- If the video product has been dropped or the cabinet has been damaged.

If the video product does not operate normally follow the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.

When the video product exhibits a distinct change in performance — this indicates a need for service.

**Replacement Parts:** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

**Safety Check:** Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

## Be sure to read these notes before use

### Safety Notes

- Make sure that you use your camera correctly. Read these safety notes and your *Owner's Manual* carefully before use.
- After reading these safety notes, store them in a safe place.

### About the Icons

The icons shown below are used in this document to indicate the severity of the injury or damage that can result if the information indicated by the icon is ignored and the product is used incorrectly as a result.



#### WARNING

This icon indicates that death or serious injury can result if the information is ignored.



#### CAUTION

This icon indicates that personal injury or material damage can result if the information is ignored.

The icons shown below are used to indicate the nature of the instructions which are to be observed.



Triangular icons tell you that this information requires attention ("Important").



Circular icons with a diagonal bar tell you that the action indicated is prohibited ("Prohibited").



Filled circles with an exclamation mark indicate an action that must be performed ("Required").

The symbols on the product (including the accessories) represent the following:



AC



DC



Class II equipment (The construction of the product is double-insulated.)



#### WARNING

**If a problem arises, turn the camera off, remove the battery, and disconnect and unplug the AC power adapter.**



Unplug from power socket

Continued use of the camera when it is emitting smoke, is emitting any unusual odor, or is in any other abnormal state can cause a fire or electric shock. Contact your Fujifilm dealer.



**Do not allow water or foreign objects to enter the camera.**

If water or foreign objects get inside the camera, turn the camera off, remove the battery, and disconnect and unplug the AC power adapter. Continued use of the camera can cause a fire or electric shock. Contact your Fujifilm dealer.















Do not use in the bathroom or shower















**Do not use the camera in the bathroom or shower.** This can cause a fire or electric shock.












Do not disassemble

**Never attempt to change or take apart the camera (never open the case).** Failure to observe this precaution can cause fire or electric shock.

 <b>WARNING</b>	
	<b>Should the case break open as the result of a fall or other accident, do not touch the exposed parts.</b> Failure to observe this precaution could result in electric shock or in injury from touching the damaged parts. Remove the battery immediately, taking care to avoid injury or electric shock, and take the product to the point of purchase for consultation.
	<b>Do not change, heat or unduly twist or pull the connection cord and do not place heavy objects on the connection cord.</b> These actions could damage the cord and cause a fire or electric shock. If the cord is damaged, contact your Fujifilm dealer.
	<b>Do not place the camera on an unstable surface.</b> This can cause the camera to fall or tip over and cause injury.
	<b>Never attempt to take pictures while in motion.</b> Do not use the camera while walking or driving. This can result in you falling down or being involved in a traffic accident.
	<b>Do not touch any metal parts of the camera during a thunderstorm.</b> This can cause an electric shock due to induced current from the lightning discharge.
	<b>Do not use the battery except as specified.</b> Load the battery as shown by the indicator.
	<b>Do not disassemble, modify, or heat batteries. Do not drop, strike, or throw batteries or otherwise subject them to strong impacts. Do not use batteries that show signs of leaking, deformation, discoloration, or other abnormalities. Use only designated chargers to recharge rechargeable batteries and do not attempt to recharge non-rechargeable Li-ion or alkaline batteries. Do not short batteries or store them with metallic objects.</b> Failure to observe these precautions could result in the batteries overheating, igniting, rupturing, or leaking, causing fire, burns, or other injury.
	<b>Use only batteries or AC power adapters specified for use with this camera. Do not use voltages other than the power supply voltage shown.</b> The use of other power sources can cause a fire.
	<b>If the battery leaks and fluid gets in contact with your eyes, skin or clothing, flush the affected area with clean water and seek medical attention or call an emergency number right away.</b>
	<b>Do not use the charger to charge batteries other than those specified here.</b> The supplied charger is for use only with batteries of the type supplied with the camera. Using the charger to charge conventional batteries or other types of rechargeable batteries can cause the battery to leak, overheat or burst.
	<b>Using a flash too close to a person's eyes may cause visual impairment.</b> Take particular care when photographing infants and young children.


 <b>WARNING</b>	
	<b>Do not remain in prolonged contact with hot surfaces.</b> Failure to observe this precaution could result in low-temperature burns, particularly at high ambient temperatures or with users who suffer from poor circulation or reduced sensation, in which case use of a tripod or similar precautions are recommended.
	<b>Do not leave one part of the body in contact with the product for prolonged periods while the product is on.</b> Failure to observe this precaution could result in low-temperature burns, particularly during prolonged use, at high ambient temperatures, or with users who suffer from poor circulation or reduced sensation, in which case use of a tripod or similar precautions are recommended.
	<b>Do not use in the presence of flammable objects, explosive gases, or dust.</b>
	<b>When carrying the battery, install it in a digital camera or keep it in the hard case. When storing the battery, keep it in the hard case. When discarding, cover the battery terminals with insulation tape.</b> Contact with other metallic objects or batteries could cause the battery to ignite or burst.
	<b>Keep memory cards, hot shoes, and other small parts out of the reach of small children.</b> Children may swallow small parts; keep out of reach of children. Should a child swallow a small part, seek medical attention or call emergency.
	<b>Keep out of reach of small children.</b> Among the elements that could cause injury are the strap, which could become entangled about a child's neck, causing strangulation, and the flash, which could cause visual impairment.
	<b>Follow the directions of airline and hospital personnel.</b> This product generates radio-frequency emissions that could interfere with navigational or medical equipment.
 <b>CAUTION</b>	
	<b>Do not use this camera in locations affected by oil fumes, steam, humidity or dust.</b> This can cause a fire or electric shock.
	<b>Do not leave this camera in places subject to extremely high temperatures.</b> Do not leave the camera in locations such as a sealed vehicle or in direct sunlight. This can cause a fire.
	<b>Do not place heavy objects on the camera.</b> This can cause the heavy object to tip over or fall and cause injury.
	<b>Do not move the camera while the AC power adapter is still connected.</b> Do not pull on the connection cord to disconnect the AC power adapter. This can damage the power cord or cables and cause a fire or electric shock.
	<b>Do not cover or wrap the camera or the AC power adapter in a cloth or blanket.</b> This can cause heat to build up and distort the casing or cause a fire.

 <b>CAUTION</b>	
	<b>Do not use the plug if it is damaged or if it does not fit securely into the outlet.</b> Failure to observe this precaution could result in fire or electric shock.
	<b>When you are cleaning the camera or you do not plan to use the camera for an extended period, remove the battery and disconnect and unplug the AC power adapter.</b> Failure to do so can cause a fire or electric shock.
	<b>When charging ends, unplug the charger from the power socket.</b> Leaving the charger plugged into the power socket can cause a fire.

 <b>CAUTION</b>	
	<b>When a memory card is removed, the card could come out of the slot too quickly. Use your finger to hold it and gently release the card.</b> Injury could result to those struck by the ejected card.
	<b>Request regular internal testing and cleaning for your camera.</b> Build-up of dust in your camera can cause a fire or electric shock. Contact your Fujifilm dealer to request internal cleaning every two years. Please note that this service is not free of charge.
	<b>Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.</b>
	<b>Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.</b>

### The Battery and Power Supply

**Note:** Check the type of battery used in your camera and read the appropriate sections.

 **WARNING:** Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

The following describes the proper use of batteries and how to prolong their life. Incorrect use can shorten battery life or cause leakage, overheating, fire, or explosion.

#### Li-ion Batteries

Read this section if your camera uses a rechargeable Li-ion battery.

The battery is not charged at shipment. Charge the battery before use. Keep the battery in its case when not in use.

#### ■ Notes on the Battery

The battery gradually loses its charge when not in use. Charge the battery one or two days before use.

Battery life can be extended by turning the camera off when not in use.

Battery capacity decreases at low temperatures; a depleted battery may not function when cold. Keep a fully charged spare battery in a warm place and exchange as necessary, or keep the battery in your pocket or other warm place and insert it in the camera only when shooting. Do not place the battery in direct contact with hand warmers or other heating devices.

#### ■ Charging the Battery

The battery can be charged using the camera and supplied AC adapter or an optional BC-W235 dual battery charger. Charging times will increase at ambient temperatures below +10°C (+50°F) or above +35°C (+95°F). Do not attempt to charge the battery at temperatures above +40°C (+104°F); at temperatures below +5°C (+41°F), the battery will not charge.

Do not attempt to recharge a fully charged battery. The battery does not however need to be fully discharged before charging.

The battery may be warm to the touch immediately after charging or use. This is normal.

#### ■ Battery Life

A noticeable decrease in the length of time the battery will hold a charge indicates that it has reached the end of its service life and should be replaced.

If the battery is left for long periods without charging, you may find that its quality degrades or that it no longer holds a charge. Charge the battery regularly.

#### ■ Storage

If the camera will not be used for an extended period, store it at room temperature with the battery charged to approximately one half to 3/4 capacity.

If the camera will not be used for an extended period, remove the battery and store it in a dry place with an ambient temperature of from +15°C to +25°C (+59°F to +77°F). Do not store in locations exposed to extremes of temperature.

#### ■ Cautions: Handling the Battery

- Do not transport or store with metal objects such as necklaces or hairpins.
- Do not expose to flame or heat.
- Do not disassemble or modify.
- Do not expose to low atmospheric pressures.
- Use with designated chargers only.
- Dispose of used batteries promptly.
- Do not drop or subject to strong physical shocks.
- Do not expose to water.
- Keep the terminals clean.
- The battery and camera body may become warm to the touch after extended use. This is normal.

#### ■ Caution: Disposal

Dispose of used batteries in accord with local regulations. Attention should be drawn to the environmental aspects of battery disposal. Use the apparatus under moderate climate.

Do not mechanically crush or split batteries.

**AC Power Adapters**

- The AC power adapter is for indoor use only.
- Turn the camera off before disconnecting the adapter. Disconnect the adapter by the plug, not the cable.
- Do not use with other devices.
- Do not disassemble.
- Do not expose to high heat and humidity.
- Do not subject to strong physical shocks.
- The adapter may hum or become hot to the touch during use. This is normal.
- If the adapter causes radio interference, reorient or relocate the receiving antenna.

**Using the Camera**

- Do not aim the camera at extremely bright light sources, such as the sun in a cloudless sky. Failure to observe this precaution could damage the camera image sensor.
- Strong sunlight focused through the viewfinder may damage the panel of electronic viewfinder (EVF). Do not aim the electronic viewfinder at the sun.

**Take Test Shots**

Before taking photographs on important occasions (such as at weddings or before taking the camera on a trip), take a test shot and view the results to ensure that the camera is functioning normally. FUJIFILM Corporation cannot accept liability for damages or lost profits incurred as a result of product malfunction.

**Notes on Copyright**

Unless intended solely for personal use, images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner. Note that some restrictions apply to the photographing of stage performances, entertainments, and exhibits, even when intended purely for personal use. Users are also asked to note that the transfer of memory cards containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

**Handling**

To ensure that images are recorded correctly, do not subject the camera to impact or physical shocks while images are being recorded.

**Liquid Crystal**

In the event that the display is damaged, care should be taken to avoid contact with liquid crystal. Take the urgent action indicated should any of the following situations arise:

- **If liquid crystal comes in contact with your skin**, clean the area with a cloth and then wash thoroughly with soap and running water.
- **If liquid crystal enters your eyes**, flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- **If liquid crystal is swallowed**, rinse your mouth thoroughly with water. Drink large quantities of water and induce vomiting, then seek medical assistance.

Although the display is manufactured using extremely high-precision technology, it may contain pixels that are always lit or that do not light. This is not a malfunction, and images recorded with the product are unaffected.

**Trademark Information**

Digital Split Image is a trademark or registered trademark of FUJIFILM Corporation. Digital Micro Prism is a trademark or registered trademark of FUJIFILM Corporation. The typefaces included herein are solely developed by DynaComware Taiwan Inc. Android is a trademark or registered trademark of Google LLC. Adobe, the Adobe logo, Photoshop, and Lightroom are trademarks or registered trademarks of Adobe Systems Incorporated in the U.S.A. and other countries. Wi-Fi® and Wi-Fi Protected Setup® are registered trademarks of the Wi-Fi Alliance. The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc., and any use of such marks by Fujifilm is under license. The SDHC and SDXC logos are trademarks of SD-3C, LLC. The HDMI logo is a trademark or registered trademark of HDMI Licensing LLC. All other trade names mentioned in this manual are the trademarks or registered trademarks of their respective owners.

**Electrical Interference**

This camera may interfere with hospital or aviation equipment. Consult with hospital or airline staff before using the camera in a hospital or on an aircraft.

**Color Television Systems**

NTSC (National Television System Committee) is a color television telecasting specification adopted mainly in the U.S.A., Canada, and Japan. PAL (Phase Alternation by Line) is a color television system adopted mainly in European countries and China.

**Exif Print (Exif Version 2.32)**

Exif Print is a newly revised digital camera file format in which information stored with photographs is used for optimal color reproduction during printing.

**IMPORTANT NOTICE: Read Before Using the Software**

Direct or indirect export, in whole or in part, of licensed software without the permission of the applicable governing bodies is prohibited.

**Lenses and Other Accessories**

- Use a screw 4.5 mm or shorter when attaching a tripod.
- Fujifilm will not be held liable for performance issues or damage caused by the use of third-party accessories.

## NOTICES

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Please read the "Safety Notes" and make sure you understand them before using the camera.

Perchlorate Material—special handling may apply. See:

<http://www.dts.ca.gov/hazardouswaste/perchlorate>

**For Customers in the U.S.A.:**

**Tested To Comply With FCC Standards**

**FOR HOME OR OFFICE USE**



Contains IC: 10293A-WMBACBM25

Contains FCC ID: COF-WMBACBM25

**FCC Statement:** This device complies with Part 15 of the FCC Rules. 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.

**CAUTION:** 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.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**Radiation Exposure Statement:** This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless device employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands.

**Notes on the Grant:** To comply with Part 15 of the FCC Rules, this product must be used with a Fujifilm-specified ferrite-core A/V cable, USB cable, and DC supply cord.



A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.



California Code of Regulations, Title 20, Division 2, Chapter 4, Article 4, Appliance Efficiency Regulations, Sections 1601 through 1609

**For Customers in Canada**

**CAN ICES-003 (B)/NMB-003(B)**

**CAUTION:** This Class B digital apparatus complies with Canadian ICES-003.

**Industry Canada statement:** This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter, except tested built-in radios. The County Code Selection feature is disabled for products marketed in the US/ Canada.

**Radiation Exposure Statement:** The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. X-S20 has been tested and found to comply with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules.

Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

**Disposal of Electrical and Electronic Equipment in Private Households**

**In the European Union, Norway, Iceland and Liechtenstein:** This symbol on the product, or in the manual and in the warranty, and/or on its packaging indicates that this product shall not be treated as household waste. Instead it should be taken to an applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

This symbol on the batteries or accumulators indicates that those batteries shall not be treated as household waste.



If your equipment contains easy removable batteries or accumulators please dispose these separately according to your local requirements.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

**In Countries Outside the European Union, Norway, Iceland and Liechtenstein:** If you wish to discard this product, including the batteries or accumulators, please contact your local authorities and ask for the correct way of disposal.

**In Japan:** This symbol on the batteries indicates that they are to be disposed of separately.



<b>Caring for the Camera</b>
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To ensure continued enjoyment of the product, observe the following precautions.

**Storage and Use**

If the camera will not be used for an extended period, remove the battery and memory card. Do not store or use the camera in locations that are:

- exposed to rain, steam, or smoke
- very humid or extremely dusty
- exposed to direct sunlight or very high temperatures, such as in a closed vehicle on a sunny day
- extremely cold
- subject to strong vibration
- exposed to strong magnetic fields, such as near a broadcasting antenna, power line, radar emitter, motor, transformer, or magnet
- in contact with volatile chemicals such as pesticides
- next to rubber or vinyl products

## Wireless Network and Bluetooth Devices: Cautions

This product complies with the following EU Directives:

- RoHS Directive 2011/65/EU
- RE Directive 2014/53/EU

Hereby, FUJIFILM Corporation declares that the radio equipment type FF220002 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.fujifilm.com/products/digital\\_cameras/x-s20/pdf/index/fujifilm\\_x\\_s20\\_cod.pdf](http://www.fujifilm.com/products/digital_cameras/x-s20/pdf/index/fujifilm_x_s20_cod.pdf)

The full text of the UK declaration of conformity is available at the following internet address: [https://dl.fujifilm-x.com/en-gb/products/cameras/x-s20/pdf/x-s20\\_doc-nkt\\_uk.pdf](https://dl.fujifilm-x.com/en-gb/products/cameras/x-s20/pdf/x-s20_doc-nkt_uk.pdf)

This compliance is indicated by the following conformity marking placed on the product:



This marking is valid for non-Telecom products and EU harmonized Telecom products (e.g. Bluetooth®).

**IMPORTANT:** Read the following notices before using the camera's built-in wireless transmitter.

① This product, which contains encryption function developed in the United States, is controlled by the United States Export Administration Regulations and may not be exported or re-exported to any country to which the United States embargoes goods.

- **Use only a wireless network or Bluetooth device.** Fujifilm does not accept liability for damages resulting from unauthorized use. Do not use in applications requiring a high degree of reliability, for example in medical devices or other systems that may directly or indirectly impact human life. When using the device in computer and other systems that demand a greater degree of reliability than offered by wireless network or Bluetooth devices, be sure to take all necessary precautions to ensure safety and prevent malfunction.
- **Use only in the country in which the device was purchased.** This device conforms to regulations governing wireless network and Bluetooth devices in the country in which it was purchased. Observe all location regulations when using the device. Fujifilm does not accept liability for problems arising from use in other jurisdictions.
- **Do not use the device in locations subject to magnetic fields, static electricity, or radio interference.** Do not use the transmitter in the vicinity of microwave ovens or in other locations subject to magnetic fields, static electricity, or radio interference that may prevent reception of wireless signals. Mutual interference may occur when the transmitter is used in the vicinity of other wireless devices operating in the 2.4 GHz band.
- **The wireless transmitter operates in the 2.4 GHz and 5 GHz bands using DSSS, OFDM and GFSK modulation.**

- **Security:** Wireless network and Bluetooth devices transmit data via radio and consequently their use requires greater attention to security than applies in the case of wired networks.

- Do not connect to unknown networks or networks to which you do not have access rights, even if they are displayed on your device, as such access may be considered unauthorized. Connect only to networks to which you have access rights.
- Be aware that wireless transmissions may be vulnerable to interception by third parties.
- Do not connect this device directly to telecommunications networks (including public wireless LANs) operated by providers or mobile, landline, Internet, or other telecommunications services.

- **The following may be punishable by law:**

- Disassembly or modification of this device
- Removal of device certification labels

- **This device operates on the same frequency as commercial, educational, and medical devices and wireless transmitters.** It also operates on the same frequency as licensed transmitters and special unlicensed low-voltage transmitters used in RFID tracking systems for assembly lines and in other similar applications.

- **To prevent interference with the above devices, observe the following precautions.** Confirm that the RFID transmitter is not in operation before using this device. Should you observe that the device causes interference in licensed transmitters used for RFID tracking, immediately stop using the affected frequency or move the device to another location. If you notice that this device causes interference in low-voltage RFID tracing systems, contact a Fujifilm representative.

- **Do not use this device on board an aircraft.** Note that Bluetooth may remain on even when the camera is off. Bluetooth can be disabled by selecting **OFF** for **CONNECTION SETTING > Bluetooth SETTINGS > Bluetooth ON/OFF**.

- Requirements in AT/BE/BG/CZ/DK/EE/FR/DE/IS/IE/IT/EL/ES/CY/LV/LI/LT/LU/HU/MT/NL/NO/PL/PT/RO/SI/SK/TR/FI/SE/CH/UK/HR. 5150 MHz–5350 MHz is for indoor use only.

- **Maximum radio-frequency power (EIRP):**

- WLAN 2.4 GHz:
- WLAN 5 GHz:
- Bluetooth:

### Specific Absorption Rate (SAR) Information

SAR is measured with the device at 0 mm to the body, while transmitting at the highest certified output power level in all frequency bands of the device. The maximum SAR value is XXXX W/kg (head/body) averaged over 10 gram of tissue.





## Be sure to read these notes before using the lens

### Safety Notes




- Make sure that you use the lens correctly. Read these safety notes and the camera *Owner's Manual* carefully before use.
- After reading these safety notes, store them in a safe place.

### About the Icons

The icons shown below are used in this document to indicate the severity of the injury or damage that can result if the information indicated by the icon is ignored and the product is used incorrectly as a result.

	<b>WARNING</b> This icon indicates that death or serious injury can result if the information is ignored.
	<b>CAUTION</b> This icon indicates that personal injury or material damage can result if the information is ignored.


The icons shown below are used to indicate the nature of the instructions which are to be observed.

	Triangular icons tell you that this information requires attention ("Important").
	Circular icons with a diagonal bar tell you that the action indicated is prohibited ("Prohibited").
	Filled circles with an exclamation mark indicate an action that must be performed ("Required").

### ⚠ WARNING

	<b><u>Do not immerse in or expose to water.</u></b> Failure to observe this precaution can cause a fire or electric shock.
	<b><u>Do not disassemble (do not open the case).</u></b> Failure to observe this precaution can cause fire, electric shock, or injury due to product malfunction.
	<b><u>Should the case break open as the result of a fall or other accident, do not touch the exposed parts.</u></b> Failure to observe this precaution could result in electric shock or in injury from touching the damaged parts. Remove the battery immediately, taking care to avoid injury or electric shock, and take the product to the point of purchase for consultation.
	<b><u>Do not place on unstable surfaces.</u></b> The product may fall, causing injury.
	<b><u>Do not view the sun through the lens or camera viewfinders.</u></b> Failure to observe this precaution can cause permanent visual impairment.

### ⚠ CAUTION

	<b><u>Do not use or store in locations that are exposed to steam, or smoke or are very humid or extremely dusty.</u></b> Failure to observe this precaution can cause fire or electric shock.
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### ⚠ CAUTION

	<b><u>Do not leave in direct sunlight or in locations subject to very high temperatures, such as in a closed vehicle on a sunny day.</u></b> Failure to observe this precaution can cause fire.
	<b><u>Keep out of the reach of small children.</u></b> This product could cause injury in the hands of a child.
	<b><u>Do not handle with wet hands.</u></b> Failure to observe this precaution can cause electric shock.
	<b><u>Keep the sun out of the frame when shooting backlit subjects.</u></b> Sunlight focused into the camera when the sun is in or close to the frame can cause fire or burns.
	<b><u>When the product is not in use, replace the lens caps and store out of direct sunlight.</u></b> Sunlight focused by the lens can cause fire or burns.
	<b><u>Do not carry the camera or lens while they are attached to a tripod.</u></b> The product can fall or strike other objects, causing injury.

# Wireless transmitter

## Wireless transmitter

### Wireless LAN

**Standards** IEEE 802.11a/b/g/n/ac (standard wireless protocol)

**Operating frequency** • **Israel, Indonesia**

**(center frequency)** : 2,412 MHz–2,462 MHz (11 channels)

• **USA, Canada, Brazil, China, India, Korea, Malaysia**

: 2,412 MHz–2,462 MHz (11 channels)

: 5,180 MHz–5,320 MHz (W52, W53)

: 5,745 MHz–5,825 MHz (UNII-3)

• **European Union, Japan, United Kingdom, Australia, Norway, New Zealand, Turkey, Hong Kong, Philippines, Vietnam, Singapore, Thailand, UAE, Russia, Taiwan, Saudi Arabia, Qatar, Bahrain, Oman, Egypt, Iran, Kuwait, Lebanon, Uzbekistan**

: 2,412 MHz–2,462 MHz (11 channels)

: 5,180 MHz–5,320 MHz (W52, W53)

: 5,500 MHz–5,700 MHz (W56)

**Access protocols** Infrastructure

### Bluetooth®

**Standards** Bluetooth version 4.2 (Bluetooth Low Energy)

**Operating frequency** 2,402 MHz–2,480 MHz

**(center frequency)**

#### U.K. Importer:

FUJIFILM UK Limited

Fujifilm House, Whitbread Way, Bedford, Bedfordshire, MK42 0ZE, United Kingdom

#### EU Importer:

FUJIFILM Electronic Imaging Europe GmbH

Fujistrasse 1 47533 Kleve, Germany

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