

FUJIFILM

Surveillance Camera

FUJIFILM SX800

V2.1

Owner's Manual: Stand-Alone Mode

FUJIFILM Corporation

BL00005224-201

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Safety Precautions

For Your Safety

This section lists important precautions that must be followed to ensure safe and correct use of the product. Read them before using the product and observe them during use.

The  **WARNING** and  **CAUTION** indications in this document indicate the following:

 **WARNINGS** Failure to observe warnings could result in death or serious injury.

 **CAUTIONS** Failure to observe cautions could result in injury or property damage.

WARNINGS

- Take all steps necessary to prevent water entering the product. Failure to observe this precaution could result in fire or electric shock. Should water find its way in, disconnect the power source immediately.
- Be sure the product is installed securely. Serious accidents could result should the product fall from a height.
- When working in high places, work with a partner or partners, use a safety line, and take all other precautions necessary to ensure safety. Slipping, falling, or loss of balance could result in serious accidents.
- When installing the camera in high places, ensure that people below keep their distance. Falling objects could cause serious accidents.
- Ensure that the surface on which the camera is installed is level. Failure to observe this precaution could cause the camera to fall, potentially causing serious accidents.

CAUTIONS

- Keep the product out of direct sunlight.
- Do not turn the product on without first confirming that the power supply is connected correctly.
- The product could cause injury if dropped during transport. Take all precautions necessary to ensure that the product is not dropped.
- Ensure that the voltage of the power supply matches the product's rated voltage. Incorrect voltages could damage the product or result in fire or electric shock.
- When connecting or disconnecting the power cable, hold the plug and not the cable. Damage to the cable could result in fire or electric shock.
- Should you detect any abnormalities such as smoke, unusual noises or smells, or the presence of foreign matter inside the product, disconnect the power supply immediately and contact the original retailer.
- Do not disassemble or modify. Failure to observe this precaution could result in electric shock or product malfunction. Malfunctions or damage resulting from customers disassembling or modifying the product are not covered under warranty.
- Do not aim the camera at the sun. Direct sunlight focused through the lens could damage the product's internal parts.
- Install the camera base down. Installing the camera in other orientations could lead to warping that may impair product performance.

General Precautions

- Use the product only as described in this manual.
- The camera and its accessories are precision devices. Under no circumstances should they be subjected to excessive force.
- Install the camera in a housing or other location where it will not be exposed to rain, wind, dust, or direct sunlight.
- Bringing the camera abruptly from a cold location to a warm and humid environment could cause the lens to fog. Take measures to allow the camera to adapt to the new environment before subjecting it to changes in temperature and humidity.
- Replace the cap if the camera will not be used for an extended period.
- The camera lens has a special anti-reflective coating. As a result, the back of the lens may appear spotted, but this has no effect on performance.

NOTICES

Verification

Model Number: SX800

Trade Mark: Fujifilm

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 A digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Warning:

To assure continued compliance, follow the attached installation instructions. This includes using the provided power cord and shielded interface cables when connecting to computer or peripheral devices. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate this device.

For Customers In Canada

CAN ICES-3(A)/NMB-3(A)

WARNING: This equipment is compliant with Class A of CISPR32. In a residential environment this equipment may cause radio interference.

This product complies with the following EU Directives:

- RoHS Directive 2011/65/EU
- EMC Directive 2014/30/EU

Compliance with these directives implies conformity to applicable harmonized European standards (European Norms) which are listed on the EU Declaration of Conformity issued by FUJIFILM Corporation for this product or product family.




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).

About the Icons

The symbols on the product represent the following:

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

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.



Precautions for Use

Operating Environment

- The camera can be used at temperatures of from –10 to +50 °C (temperatures below freezing are only supported if the power supply is not interrupted) and at humidities of from 10 to 80% (no condensation).
- Prolonged use at high temperatures or humidities could degrade components, shortening product life.
- Do not install the product where it will be exposed to solvents or other chemicals.

Installation

- Do not install cables in close proximity to cables for fluorescent lights or other electrical devices. Failure to observe this precaution could impair sound or image quality. Move the cables if signal quality is affected.
- Using the product in close proximity to powerful electromagnetic fields, such as those produced by television transmitter antennas, electric motors, or transformers, could result in distorted or wavy pictures. Should this occur, use steel cable shielding.
- Plastic cable insulation may sometimes be damaged by crows or other birds. Protect cables using a cable conduit.
- Fix cables in place so that they are not subject to repeated vibration, friction, or tugging. Failure to observe this precaution could cause the cable to break.
- Install the product base down.

Use

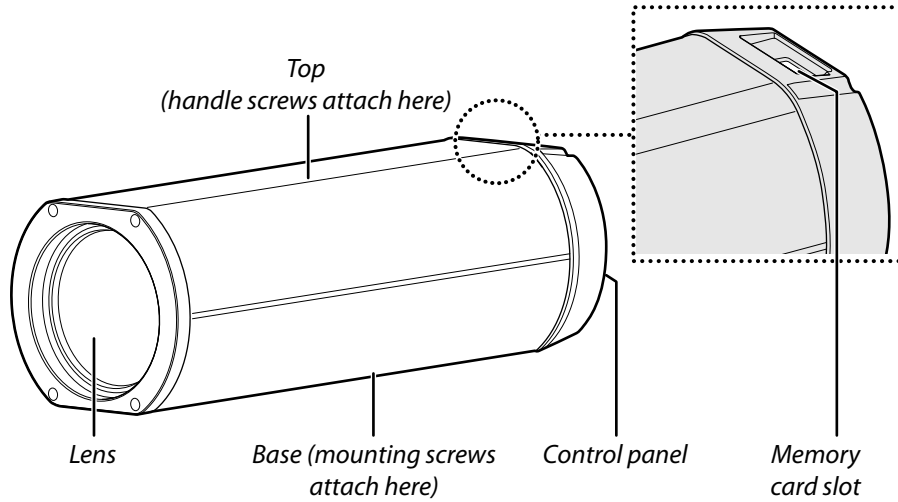
- Do not aim the lens directly at the sun or other bright light sources or reflections. Failure to observe this precaution could result in deterioration of the image sensor color filter, affecting picture color.
- Do not subject the product to strong physical shocks or vibration. Failure to observe this precaution could result in product malfunction.
- Clean the product with a soft, dry cloth. Never use chemically-treated cloths or solvents such as benzine (petroleum ether), thinner, or alcohol. Failure to observe this precaution could cause warping or discoloration.
- Do not apply force to the connectors when handling the product. Failure to observe this precaution could result in the product being disconnected or damaged.

Network Connections

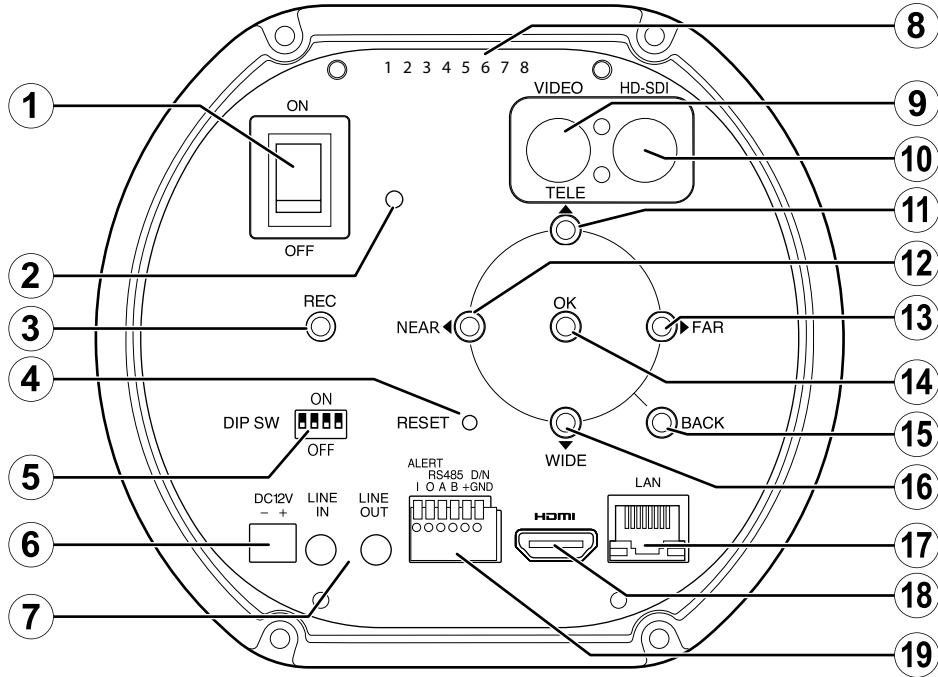
- You will need to supply an IP address, subnet mask, and gateway IP address.
- The frame rate may drop if multiple streams are transmitted via unicast.
- When connected to multiple devices, the product will transmit data to all devices at the rate supported by the device with the slowest receiving rate.
- Use the product on a secure network (for example, an in-house LAN).

Introduction

Parts of the Camera



The Control Panel



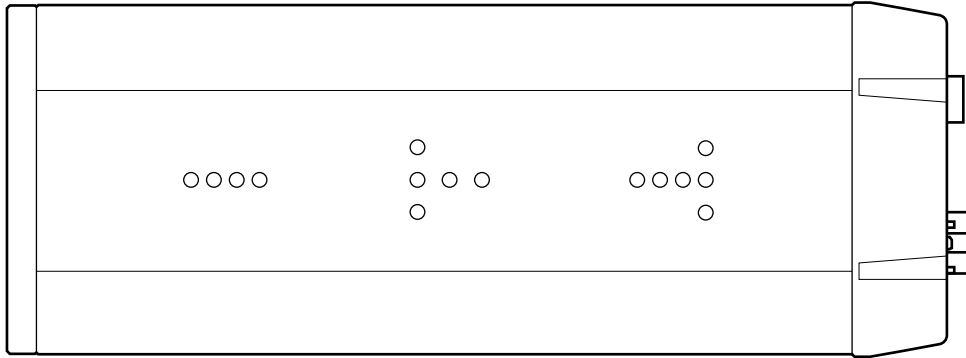
Item	Name
①	Power switch
②	Power lamp
③	REC (record) button
④	RESET button
⑤	DIP switches (4 bits)
⑥	Power connector
⑦	Audio input/output connectors
⑧	Serial number
⑨	Video output connector
⑩	HD-SDI output connector

Item	Name
⑪	TELE button
⑫	NEAR button
⑬	FAR button
⑭	OK/MENU button
⑮	BACK button
⑯	WIDE button
⑰	LAN connector
⑱	HDMI connector
⑲	Six-pin connector

Installation and Connection

Installation

Use the screw holes on the base to secure the camera to a mount or other surface.



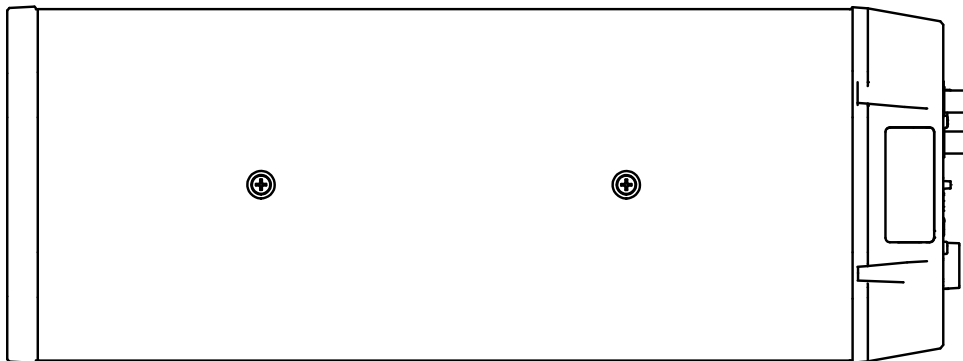
WARNING

Attach the product securely to a surface that can safely bear the combined weight of the camera and associated hardware. Do not mount the camera in unstable locations or locations subject to frequent vibration or attach it to weak materials such as drywall, ALC (autoclaved lightweight concrete), concrete blocks, or plywood. Injury could result should the product fall from its mounting.

CAUTIONS

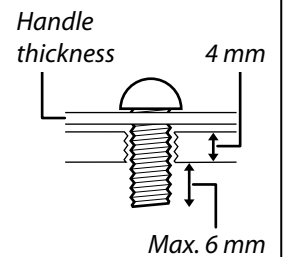
- Use ¼", UNC 20 thread screws with a thread engagement length of 6.5 to 10 mm.
- Install the camera base down.

A handle can be attached using the screws on top of the camera.



CAUTIONS

- Use M4 screws with a thread engagement length of at least 4 mm and a protrusion of no more than 6 mm.
- Do not use the screw holes on top of the camera for any other purpose.



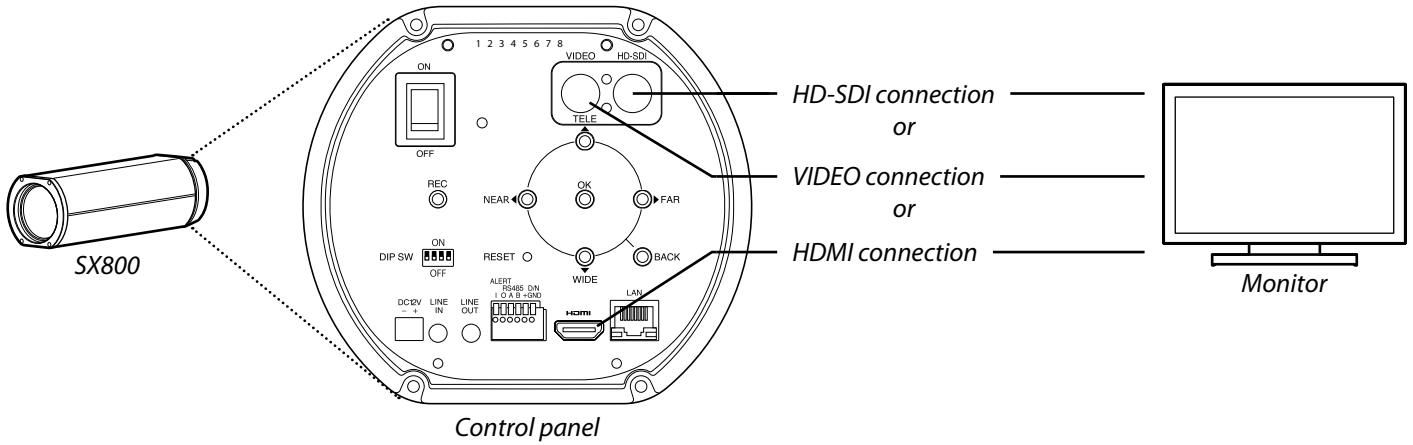
Screw Hole Specifications

The specifications for the screw holes on the top and base of the camera are as follows:

	Type	Quantity	Depth	Tightening torque
Top	M4	2	Pass through (threaded depth 4 mm)	80–100 N·cm
Base	¼", UNC 20 thread	15	10 mm	240–300 N·cm

Connection Schematic

The schematic below illustrates how the camera can be installed for stand-alone mode use.

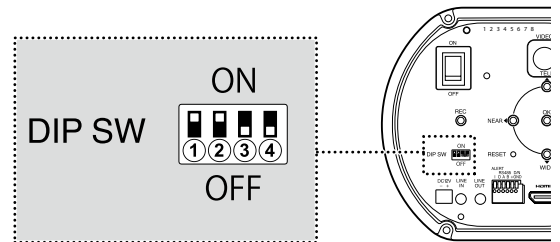


When the camera is connected to a monitor via an HD-SDI, VIDEO, or HDMI cable, you can view the live feed, control the camera, and adjust camera settings via the control panel on the back of the camera.

Operating Mode Selection: DIP Switches

Use the DIP switches to select the operating mode.

Operating mode	DIP switch			
	①	②	③	④
IP	OFF	ON	OFF	OFF
RS485	ON	OFF	OFF	OFF
Stand-alone	ON	ON	OFF	OFF

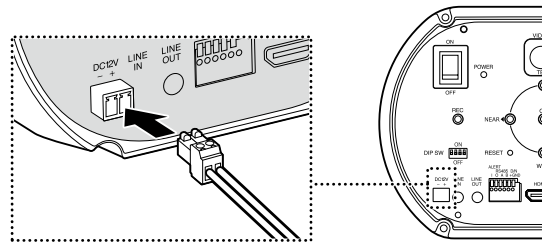


Connecting to a Monitor

- 1 Connect the supplied plug to the power cable and plug the cable into the camera power connector.

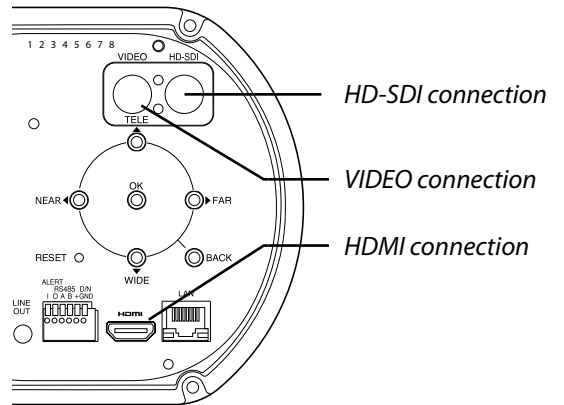
CAUTION Use only DC 12 V power.

TIP Customers must supply their own power cable.

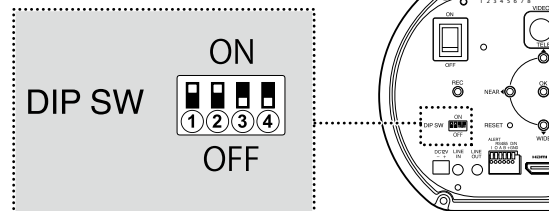


- 2 Connect the camera to the monitor using the appropriate cable.

CAUTION The camera cannot be connected via HD-SDI while connected via HDMI.

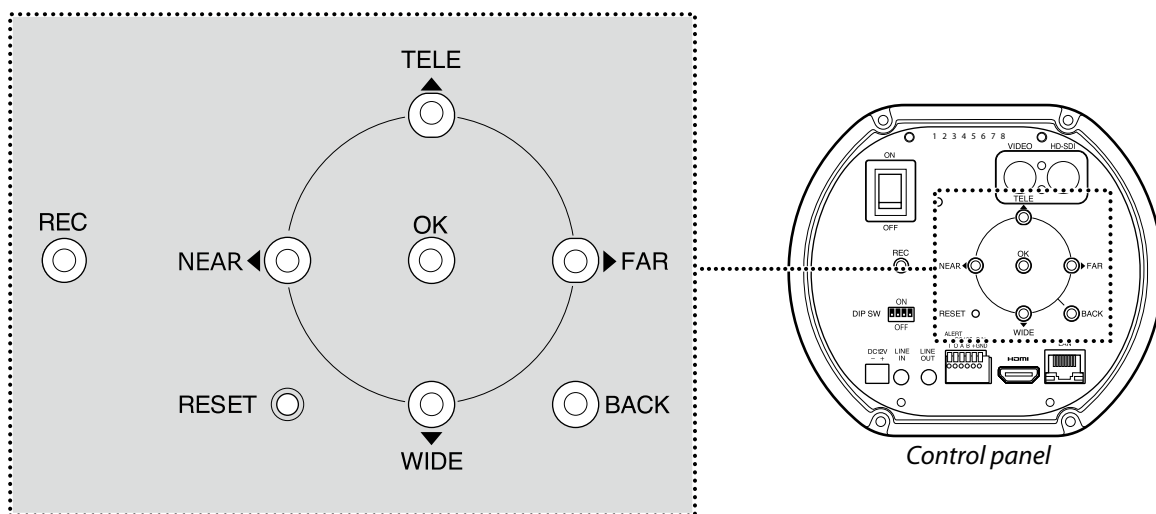


- 3 Select stand-alone mode by setting DIP switches ① and ② to "ON" and DIP switches ③ and ④ to "OFF".



Camera Controls

Use the control panel on the back of the camera for live feed or camera control or adjusting camera settings. To display the menus, press and hold the **OK/MENU** button for 3 seconds.



The following buttons are used to navigate the menus and control the camera:

Button	Function	
	Menu navigation	Camera control
NEAR button	Move the cursor left	Focus closer to the camera
FAR button	Move the cursor right	Focus further away from the camera
WIDE button	Move the cursor down	Zoom out
TELE button	Move the cursor up	Zoom in
OK/MENU button	Select the highlighted item/ press and hold for 3 seconds to display the menus	—
BACK button	Return to the previous display	View or hide the focus area and zoom frames
REC button	Record footage to the SD memory card	
RESET button	Restore factory default settings	
	Note: Pressing and holding the button for 3 seconds displays a confirmation dialog. Follow the on-screen instructions to restore factory default settings.	
FAR + NEAR buttons	—	Press the two buttons at the same time to focus using one-push AF

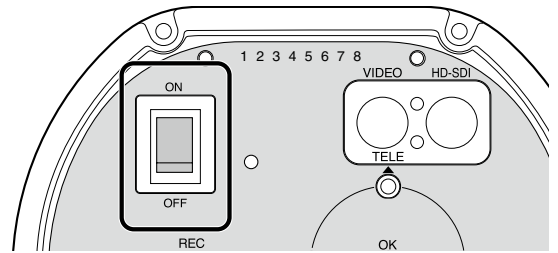
TIP Press and hold the **RESET** button for 3 seconds and then select **OK** to restore default settings when prompted. This restores all settings except the IP address to their default values.

Basic Setup

The first time you turn the camera on, you will be prompted to choose a language and set the camera clock.

Choosing a Language and Setting the Clock

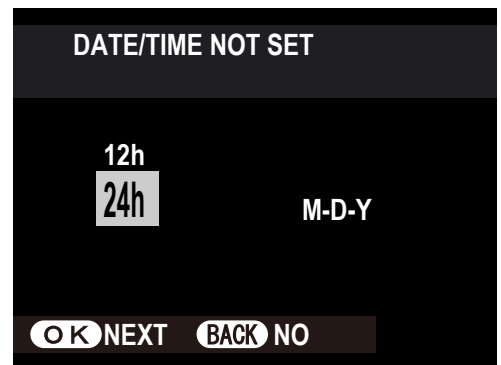
- 1 Turn the camera on. A splash screen will be displayed, followed by a language-selection dialog.



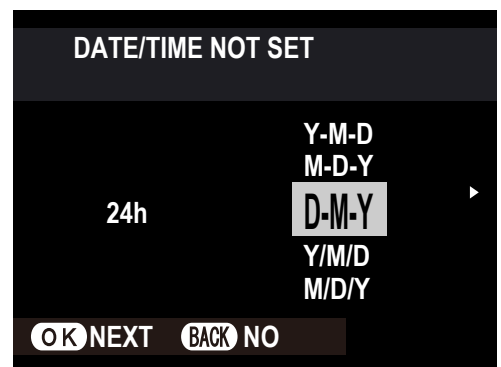
- 2 Using the control panel TELE (▲) and WIDE (▼) buttons to move the cursor up and down, highlight the desired language and then press OK.



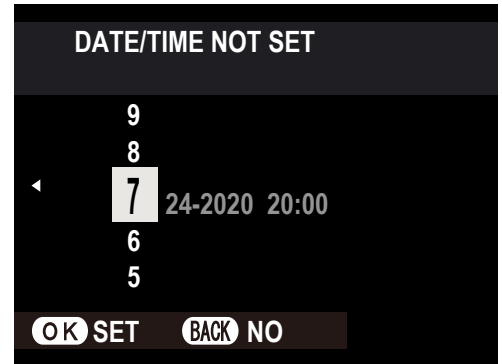
- 3 You will next be prompted to choose from 24- and 12-hour clocks. Press TELE (▲) and WIDE (▼) to choose an option and press FAR (▶) to proceed.



- 4 Press TELE (▲) and WIDE (▼) to choose a date format and press FAR (▶) to proceed.



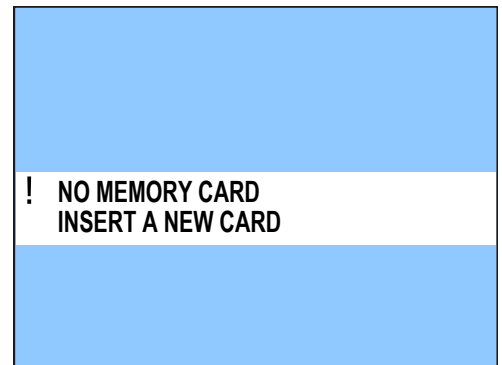
- 5 Set the clock, using **NEAR** (◀) and **FAR** (▶) to highlight options and **TELE** (▲) and **WIDE** (▼) to edit the highlighted option. Press **OK** when the process is complete.

**TIPS**

- You can skip the current step by pressing the **BACK** button in the control panel. You will be prompted to complete any steps you skipped the next time you turn the camera on.
- You can also choose a language and set the clock from the setup menu.

Memory Card Warning

If no memory card is inserted or if a memory card is inserted with the write-protect switch in the “lock” position, a warning will be displayed. Check that a memory card is correctly inserted in the memory card slot.



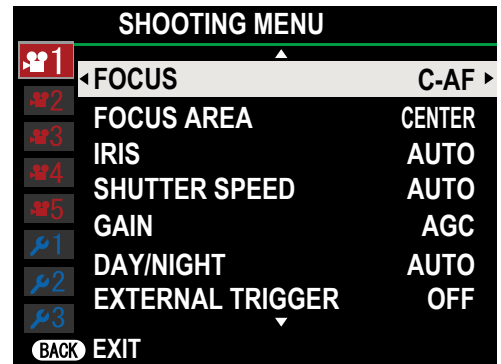
Warning displayed when no memory card is inserted.

Camera Menus

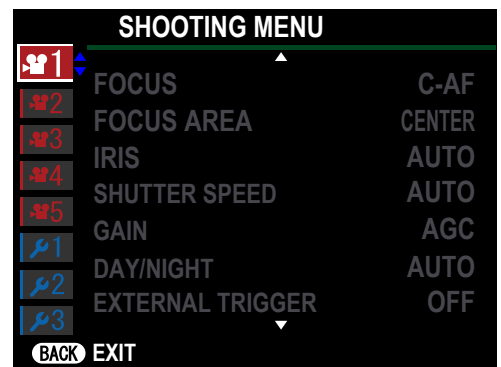
Using the Menus

Use the menus to adjust camera settings. Press and hold the control panel **OK** button to display the menus and use the **TELE** (▲), **WIDE** (▼), **NEAR** (◀), and **FAR** (▶) buttons to move the cursor up, down, left, and right, the **OK** button to select highlighted items, and the **BACK** button to exit to the previous menu.

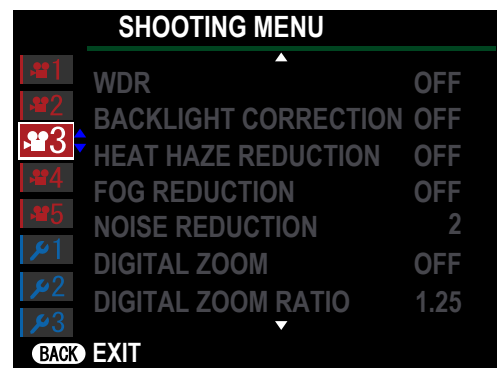
1 Hold the **OK** button for 3 seconds to display the menus.



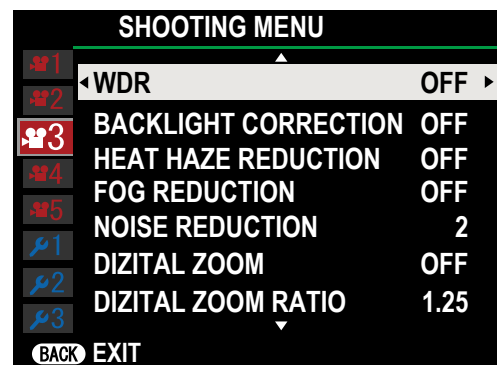
2 Press **NEAR** (◀) to highlight the tab for the current menu.



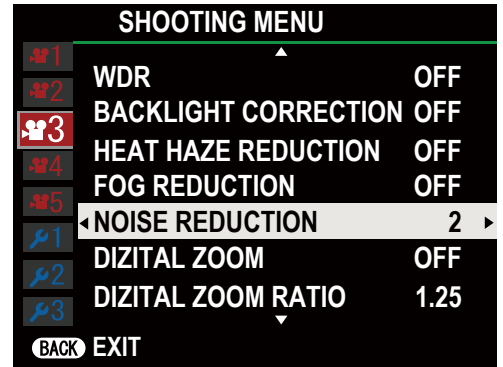
3 Press **TELE** (▲) and **WIDE** (▼) to highlight the tab for the desired menu.



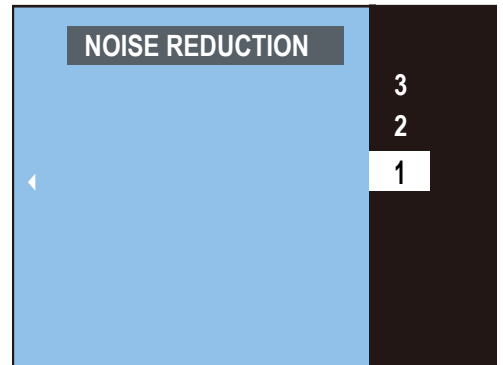
4 Press **FAR** (▶) to place the cursor in the selected menu.



5 Press TELE (▲) and WIDE (▼) to highlight the desired item.

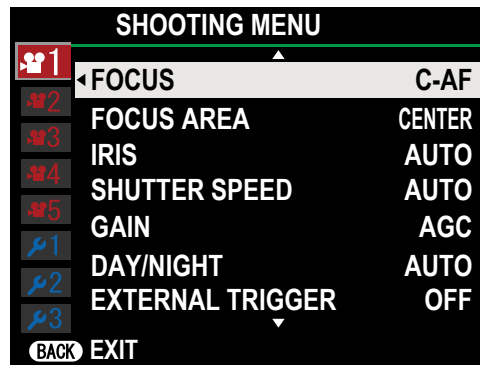


6 Press FAR (▶) to view options for the highlighted item.



7 Choose the desired option and press OK.

SHOOTING MENU 1



FOCUS

Choose how the camera focuses.

Option	Description
CONTINUOUS AF	The camera adjusts focus continuously in response to changes in the distance to the subject. Choose from the following focus-area selection and subject-tracking options. AF SENSITIVITY: Choose how long the focus system will continue to track the current subject after a new subject enters the focus area at a different distance from the camera. The higher the value, the longer the camera will wait before switching subjects.
QUICK AF	The camera momentarily focuses on the subject at the center of the frame after zoom is adjusted. Focus can be adjusted manually when zoom is not in use.
MF	Focus manually.

FOCUS AREA

Choose how the camera selects the focus area.

Option	Description
CENTER	The camera focuses on the subject at the center of the frame.
AREA	The frame is divided into a three-by-three grid for focus-area selection.

IRIS

Choose the aperture value (iris). See "Specifications" (page 26) for supported values.

SHUTTER SPEED

Choose the shutter speed.

Option	Description
AUTO	The camera adjusts shutter speed automatically. You can choose the minimum shutter speed.
MANUAL	Choose the shutter speed manually.

GAIN


Adjust image brightness.

Option	Description
MANUAL	Choose a value for gain.
AGC	The camera adjusts gain automatically to brighten the image when lighting is poor.
HYPER-AGC	Choose for automatic gain control adapted to low light conditions.

DAY/NIGHT

In day/night mode, the camera records in color when the subject is brightly lit and in black-and-white when the subject is poorly lit. This option is available when **OFF** is selected for **EXTERNAL TRIGGER**.


Option	Description
AUTO	The camera selects day or night mode automatically according to lighting conditions. You can choose the lighting conditions that trigger the switch when AUTO is selected: <ul style="list-style-type: none"> • DAY to NIGHT THRESHOLD: Choose the brightness threshold that triggers the switch from day to night (0–255). • NIGHT to DAY THRESHOLD: Choose the brightness threshold that triggers the switch from night to day (0–255). • SWITCHING SENSITIVITY: Choose how long (0–60 S) the camera waits to switch modes once the brightness threshold is crossed.
SCHEDULED	The camera switches to day or night mode at a selected time. <ul style="list-style-type: none"> • DAY START TIME: Choose a time from 00:00 to 23:59. • NIGHT START TIME: Choose a time from 00:00 to 23:59.
AUTO & SCHEDULED	Choose a light trigger and time for switching between day and night modes. <ul style="list-style-type: none"> • DAY to NIGHT THRESHOLD: Choose the brightness threshold that triggers the switch from day to night (0–255). • NIGHT to DAY THRESHOLD: Choose the brightness threshold that triggers the switch from night to day (0–255). • SWITCHING SENSITIVITY: Choose how long (0–60 S) the camera waits to switch modes once the brightness threshold is crossed. • DAY START TIME: Choose a time from 00:00 to 23:59. • NIGHT START TIME: Choose a time from 00:00 to 23:59.
DAY	The camera operates in day mode at all times.
NIGHT	The camera operates in night mode at all times.

 **TIP** The **SHOOTING MENU > DAY/NIGHT, EXTERNAL TRIGGER, IR WAVELENGTH, OPTICAL FILTER(DAY)** and **OPTICAL FILTER(NIGHT)** preferences are linked. For more information, see “Lighting Triggers” (page 16).

EXTERNAL TRIGGER

Choose whether day/night selection is performed in response to an external trigger.

Option	Description
ON(VLC)	Applies a VLC (Visible Light Cut) filter to the external trigger. The optical filters selected for day/night are disabled.
ON(CLEAR)	Replaces the filter with clear glass. The optical filters selected for day/night are disabled.
OFF	The camera does not respond to the external trigger.

 **TIP** The SHOOTING MENU > DAY/NIGHT, EXTERNAL TRIGGER, IR WAVELENGTH, OPTICAL FILTER(DAY) and OPTICAL FILTER(NIGHT) preferences are linked. For more information, see “Lighting Triggers” (page 16).

Lighting Triggers

Day/night selection can be configured in any of the following three ways:

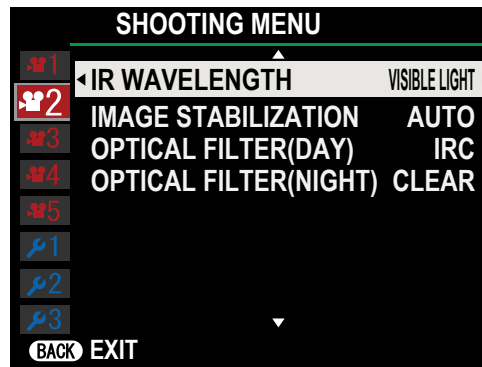
Configuration	Description	Configured using	
		Menu item	Option
① Auto	Day/night selection is performed automatically according to a schedule and/or lighting conditions.	SHOOTING MENU > DAY/NIGHT	AUTO, SCHEDULED, or AUTO & SCHEDULED
② Manual	Day/night selection is performed manually.		DAY or NIGHT
③ External trigger	Day/night selection is performed in response to input from an external trigger.	SHOOTING MENU > EXTERNAL TRIGGER	ON(VLC)*, ON(CLEAR)*, or OFF

* The optical filters chosen for day/night do not apply if a signal is received from the external trigger when ON(VLC) or ON(CLEAR) is selected for EXTERNAL TRIGGER. If no signal is received or if OFF is selected, the optical filter will function as shown in the following table.

The following table shows relation between the filter selected for day/night, image color, and wavelength:

Option	Filter	Image color	SHOOTING MENU > IR WAVELENGTH	
			Status	Supported wavelengths
DAY	IRC	Color	Disabled	Visible light only
	VLC			808 nm only
NIGHT	CLEAR	Black and white	Enabled	950 nm, 940 nm, 850 nm, 808 nm, visible light
	VLC			

SHOOTING MENU 2



IR WAVELENGTH

Match the IR wavelength to the infrared light source used. See “Specifications” (page 26) for supported values.

TIP The SHOOTING MENU > DAY/NIGHT, EXTERNAL TRIGGER, IR WAVELENGTH, OPTICAL FILTER(DAY) and OPTICAL FILTER(NIGHT) preferences are linked. For more information, see “Lighting Triggers” (page 16).

IMAGE STABILIZATION

Choose an image stabilization option adapted to the scene.

Option	Description
AUTO	The camera chooses the type of image stabilization best suited to the scene.
OIS	Reduce the effects of camera shake using optical image stabilization.
EIS	Reduce the effects of camera shake using electronic image stabilization.
OFF	Image stabilization disabled.

OPTICAL FILTER(DAY)

Choose an optical filter for day mode.

Option	Description
IRC	Enable the IRC filter, blocking infrared light and recording only visible-light footage.
VLC	Enable the VLC filter, blocking visible light and recording only infrared footage.

TIP The SHOOTING MENU > DAY/NIGHT, EXTERNAL TRIGGER, IR WAVELENGTH, OPTICAL FILTER(DAY) and OPTICAL FILTER(NIGHT) preferences are linked. For more information, see “Lighting Triggers” (page 16).

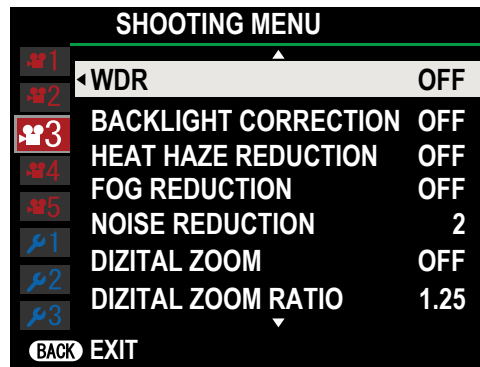
OPTICAL FILTER(NIGHT)

Choose an optical filter for night mode.

Option	Description
CLEAR	Record footage in both infrared and visible light.
VLC	Enable the VLC filter, blocking visible light and recording only infrared footage.

TIP The SHOOTING MENU > DAY/NIGHT, EXTERNAL TRIGGER, IR WAVELENGTH, OPTICAL FILTER(DAY) and OPTICAL FILTER(NIGHT) preferences are linked. For more information, see “Lighting Triggers” (page 16).

SHOOTING MENU 3



WDR

Use with high-contrast subjects to reveal details “washed out” in the highlights and lost in the shadows. Choose higher values for high-contrast subjects.

BACKLIGHT CORRECTION

Reduce loss of detail in the shadowed areas of backlit subjects. The higher the value, the greater the effect.

HEAT HAZE REDUCTION

Reduce the wavering effect of heat haze, making the image clearer overall. The higher the value, the greater the effect.

FOG REDUCTION

Make images where the subject is obscured by fog more vivid and easier to see. The higher the value, the greater the effect.

NOISE REDUCTION

Reduce the effects of noise for a smoother picture. The higher the value, the greater the effect.

DIGITAL ZOOM

Choose the digital zoom type.

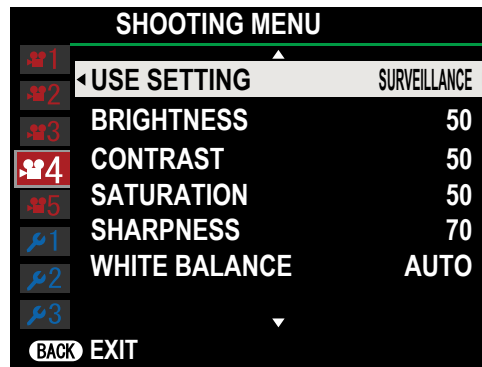
Option	Description
CONTINUOUS	The camera zooms smoothly from maximum optical zoom to the zoom ratio selected for DIGITAL ZOOM RATIO .
EXTENDED	The camera zooms instantaneously from the current zoom position (whatever it may be) to the zoom ratio selected for DIGITAL ZOOM RATIO .
OFF	Digital zoom disabled.

DIGITAL ZOOM RATIO

Choose the zoom factor for digital zoom.

Options			
2.00	1.75	1.50	1.25

SHOOTING MENU 4



USE SETTING

Choose a shooting preset.

Option	Description
SURVEILLANCE	Emphasize outlines.
MOVIE PRODUCTION	Choose for accurate color reproduction when shooting non-surveillance footage at social gatherings or other events.

BRIGHTNESS

Adjust brightness. The higher the value, the greater the effect.

CONTRAST

Adjust contrast. The higher the value, the greater the effect.

SATURATION

Adjust color saturation. The higher the value, the greater the effect.


SHARPNESS

Make outlines more or less sharply defined. The higher the value, the greater the effect.

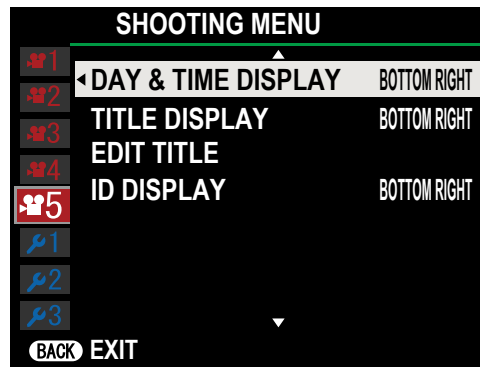
WHITE BALANCE

Match white balance to the light source (for example, sunlight or artificial lighting).

Option	Description
AUTO	The camera adjusts white balance automatically.
AUTO WHITE PRIORITY	The camera sets white balance to a high level.
CUSTOM 1/CUSTOM 2	Measure a value for white balance using a piece of paper or other white reference object.
FINE	For subjects lit by direct sunlight.
SHADE	For subjects in the shade or under overcast skies.
COLOR TEMPERATURE	Choose a color temperature (3000K, 5000K, or 9000K).

 **TIP** After choosing an option for white balance, you can adjust white balance shift.

SHOOTING MENU 5



DAY & TIME DISPLAY

Position the date and time display.

TITLE DISPLAY

Position the video title.

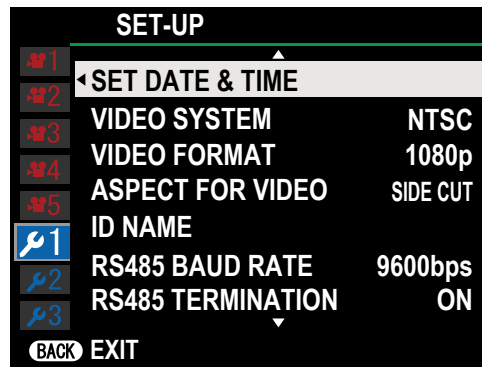
EDIT TITLE

Edit the video title.

ID DISPLAY

Position the camera ID display.

SET-UP 1



SET DATE & TIME

Set the camera clock.

VIDEO SYSTEM

Choose the standard used for video output from the camera.

VIDEO FORMAT

Choose the frame size at which video is output from the camera.

ASPECT FOR VIDEO

Choose how video is displayed on monitors with an aspect ratio that does not match the selected format.

Option	Description
SIDE CUT	The image is cropped to fit the display.
LETTERBOX	The image is displayed at its original aspect ratio with black bars above and below.
SQUEEZE	Video with an aspect ratio of 16:9 is reformatted to fit displays with a 4:3 aspect ratio.

ID NAME

Choose the ID (CAMERA NAME) and RS485 ID.

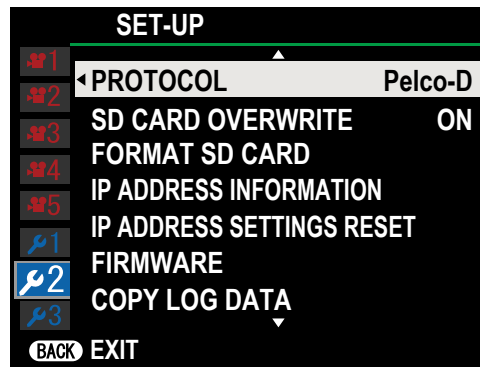
RS485 BAUD RATE

Choose the baud rate for data transmitted via RS485.

RS485 TERMINATION

Select ON to enable the RS485 termination resistor.

SET-UP 2



PROTOCOL

Choose a communications protocol for RS485 connections.

SD CARD OVERWRITE

Choose whether the camera overwrites existing data when the memory card is full.

Option	Description
ON	When the memory card is full, the camera overwrites existing files to make room for new data.
OFF	The camera stops recording data when the memory card is full. You have the option of displaying the amount space available on the card.

FORMAT SD CARD

Select OK to format the memory card. Any existing data on the card will be deleted.

IP ADDRESS INFORMATION

View camera IP address settings.

IP ADDRESS SETTINGS RESET

Reset camera IP address settings.

FIRMWARE


Update the camera firmware. If the memory card inserted in the camera contains a new version of the camera firmware, selecting this option will display a confirmation dialog. Select **FIRMWARE UPDATE** to perform the update.

COPY LOG DATA

Copy log data to the memory card. Selecting this option displays a confirmation dialog. Select **OK** to perform the update.

SET-UP 3**RESET**

Selecting this option displays a confirmation dialog; select **OK** to reset camera settings to their default values.

 **TIP** Settings can also be reset by pressing and holding the control panel **RESET** button for 3 seconds.

言語/LANG.

Choose a language.

Troubleshooting

Should the product fail to function as expected, consult the table below. If you are unable to find a solution here, contact your local Fujifilm distributor.

Problem	Solution
No video, or the image in the video is dark.	<ul style="list-style-type: none"> • The camera is off: Check that the cables are correctly connected, the power lamp is lit, and the correct voltage is being supplied to the lens. • The cables are not correctly connected: Check that the cables are correctly connected. • The lens cap is on: Remove the lens cap. • The iris is stopped down to the minimum aperture: Select maximum aperture. • Shutter speed requires adjustment: Select an appropriate value for shutter speed.
The image in the video is “washed out”.	<ul style="list-style-type: none"> • Camera white balance, gain, shutter speed, or other settings require adjustment: Confirm that settings are adjusted appropriately. • Aperture requires adjustment: Adjust aperture appropriately.
The image in the video is out of focus. Spots appear in the video.	<p>The lens is dirty: Clean the lens.</p>
Menus are not displayed.	<p>Press and hold the OK button for 3 seconds to display the menus (page 9).</p>
Camera settings cannot be reset.	<p>Press and hold the RESET button for 3 seconds to restore default settings (page 9).</p>
The camera does not function as expected.	<p>The DIP switches are not in the correct positions: Use the DIP switches to select stand-alone mode (page 7).</p>
The monitor is blank.	<p>The camera is connected to a PAL display: The VIDEO SYSTEM option in the camera setup menu defaults NTSC. No video will be displayed on PAL devices at default settings. Use an NTSC display or adjust output settings for each of the three connection types (HDMI, SD-SDI, or VIDEO).</p>

Defaults

The RESET option in the setup menu restores settings to the following default values:

SHOOTING MENU

Option	Default
FOCUS	QUICK AF
FOCUS AREA	CENTER
IRIS	AUTO
SHUTTER SPEED	AUTO (1/30)
GAIN	AGC
DAY/NIGHT	AUTO • DAY to NIGHT THRESHOLD: 70 • NIGHT to DAY THRESHOLD: 130 • SWITCHING SENSITIVITY: 7 S
EXTERNAL TRIGGER	OFF
IR WAVELENGTH	VISIBLE LIGHT
IMAGE STABILIZATION	AUTO
OPTICAL FILTER(DAY)	IRC
OPTICAL FILTER(NIGHT)	CLEAR
WDR	OFF
BACKLIGHT CORRECTION	OFF
HEAT HAZE REDUCTION	OFF
FOG REDUCTION	OFF
NOISE REDUCTION	2
DIGITAL ZOOM	OFF
DIGITAL ZOOM RATIO	1.25
USE SETTING	SURVEILLANCE
BRIGHTNESS	50
CONTRAST	50
SATURATION	50
SHARPNESS	80
WHITE BALANCE	AUTO
DAY & TIME DISPLAY	BOTTOM RIGHT
TITLE DISPLAY	BOTTOM RIGHT
EDIT TITLE	—
ID DISPLAY	BOTTOM RIGHT

SET-UP

Option	Default
SET DATE & TIME	• TIME DISPLAY: 24h • DATE DISPLAY FORMAT: M-D-Y
VIDEO SYSTEM	NTSC
VIDEO FORMAT	1080p
ASPECT FOR VIDEO	SIDE CUT
ID NAME	RS485 ID = 7
RS485 BAUD RATE	9600bps
RS485 TERMINATION	ON
PROTOCOL	Pelco-D
SD CARD OVERWRITE	ON
FORMAT SD CARD	—
IP ADDRESS INFORMATION	—
IP ADDRESS SETTINGS RESET	—
FIRMWARE	—
COPY LOG DATA	—
RESET	—
言語/LANG.	ENGLISH

Specifications

Model	FUJIFILM SX800
Focal length	20–800 mm
Optical zoom	40×
Digital zoom	1.25×, 1.5×, 1.75×, 2×
Iris range	f/4–f/16
Minimum object distance (M.O.D.)*	10 m “at focal lengths of 20–400 mm” 20 m “at focal lengths of 401–800 mm”
Image sensor	CMOS sensor
Video	<ul style="list-style-type: none"> • File format: MOV • Video compression: H.264 compliant
Frame size	1920 × 1080, 1280 × 720, 640 × 480 (NTSC), 768 × 576 (PAL)
Metering	Average
Focus modes	Continuous AF, quick AF, MF
Aperture selection	Auto, f/4–f/16
Shutter speed	Auto (with minimum speed selection of 1/8 – 1/125 s), manual (1 – 1/32000 s)
Gain adjustment	Manual (ISO 400 – ISO 819200), AGC, HYPER AGC
Day/night selection	AUTO, SCHEDULED, AUTO & SCHEDULED, DAY, NIGHT
Wavelengths	VISIBLE LIGHT, 950 nm, 940 nm, 850 nm, 808 nm
Image stabilization	Available (AUTO, OIS, EIS, OFF)
Wide dynamic range	Selectable (2 levels)
Back light compensation	Selectable (2 levels)
Heat haze reduction	Selectable (3 levels)
Fog reduction	Selectable (3 levels)
Noise reduction	Selectable (3 levels)
Shooting Mode Preset	SURVEILLANCE, MOVIE PRODUCTION
Brightness	Selectable (100 levels)
Contrast	Selectable (100 levels)
Saturation	Selectable (100 levels)
Sharpness	Selectable (100 levels)
White balance	AUTO, AUTO WHITE PRIORITY, CUSTOM 1, CUSTOM 2, FINE, SHADE, COLOR TEMPERATURE (choose a color temperature in degrees Kelvin from 3000K, 5000K, and 9000K)
Image output connectors	HDMI, HD-SDI, composite (BNC)
Audio input/output	<ul style="list-style-type: none"> • Input impedance: 40K Ω • Output impedance: 200 Ω
Video output	<ul style="list-style-type: none"> • NTSC: 1080p, 720p, 480p • PAL: 1080p, 720p, 576p
External interface	100BASE-T, RS-485, external trigger (DAY/NIGHT)
Baud rate	152000 bps, 38400 bps, 19200 bps, 9600 bps, 4800 bps, 2400 bps
Internet protocol	ONVIF (port number 8080) HTTP, RTSP
RS-485 protocol	Pelco D, P (includes custom commands)
Power source	DC 12 V
Power consumption	9.5 W
Dimensions (W × H × D)	156 mm × 139 mm × 410 mm/6.14 in. × 5.47 in. × 16.14 in.
Weight	Approx. 6.4 kg/14.11 lb
Operating environment	<ul style="list-style-type: none"> • Temperature: –10 °C – +50 °C/+14 °F – +122 °F • Humidity: 10% – 80% (no condensation)
Tilt limit	±45° from level (base down)

* From the foremost part of the forward lens.

FUJIFILM

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