FUJIFILM

Surveillance Camera

FUJIFILM SX1600

Firmware Update Guide

FUJIFILM Corporation

BL00005308-201

Introduction

The firmware update procedure for the SX1600 varies with whether it is performed via:

- Stand-Alone connection,
- RS485 connection, or
- IP connection

Stand-Alone Connections

Getting Ready

1 **Ready a formatted SD memory card.**

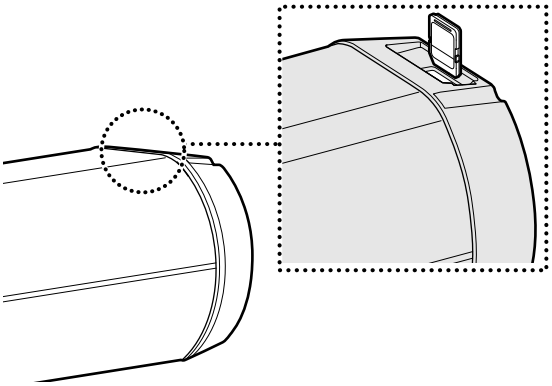
2 **Connect a monitor to the SX1600.**

3 **Download the firmware update file to your computer.**

> **TIPS**
> - Download the zip archive containing the latest firmware.
> - Extract the zip archive and confirm that the firmware update files are named "NWUP0001.DAT", "FWUP0032.DAT", and "XFUP8009.DAT".

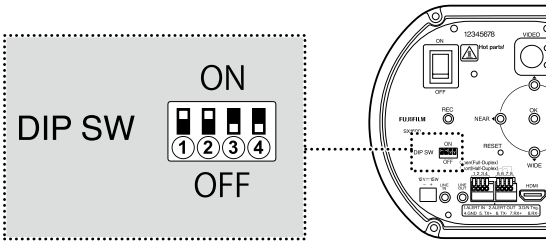
4 **Copy all three files downloaded and extracted in Step 3 to the memory card chosen in Step 1.**

5 **Insert the memory card from Step 4 into the card slot on the SX1600.**



6 **Select stand-alone mode.**
Select stand-alone mode using the DIP switches on the back of the camera. Set switches ① and ② to "ON".

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

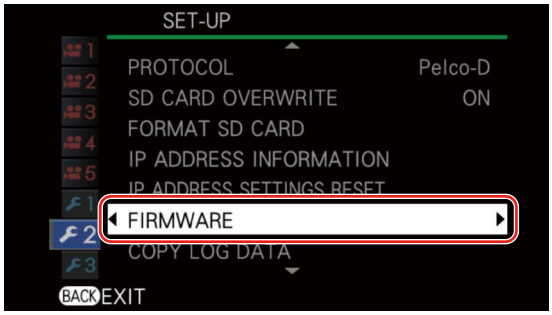


Updating the Firmware

> **TIP** The camera is operated via the control panel. For more information, see the *Detailed Operating Instructions (Stand-Alone Mode)*.

1 **Turn the camera on.**

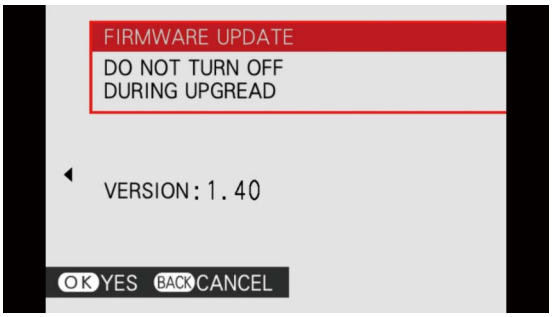
2 **Select FIRMWARE in the second page of the setup menu.**



3 **Select the firmware you want to update.**
To keep all firmware up-to-date, update the camera, system, and lens firmware using the "NWUP0001.DAT", "FWUP0032.DAT", and "XFUP8009.DAT" files extracted from the zip archive.



4 **A confirmation dialog will be displayed.**
Press the **OK** button to proceed.



> **⚠ CAUTION** Do not turn the camera off until the update is complete.

The update will complete in about three to eight minutes, after which the camera will restart automatically.

The firmware update is now complete.

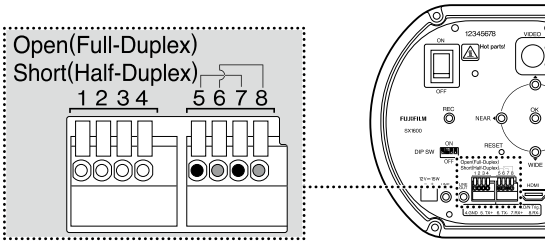
RS485 Connections

Getting Ready

1 Select RS485 mode.

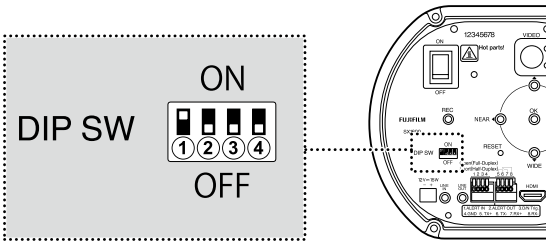
Select RS485 mode using the terminal block and DIP switches on the back of the camera.

Use pins ⑤, ⑥, ⑦, and ⑧ for full-duplex communication. For half-duplex communication, short pin ⑤ to pin ⑦ and pin ⑥ to pin ⑧.



Pin number	Function
①	ALERT IN
②	ALERT OUT
③	Day/night trigger (Open: Day, GND: Night)
④	GND
⑤	RS485 TX+
⑥	RS485 TX-
⑦	RS485 RX+
⑧	RS485 RX-

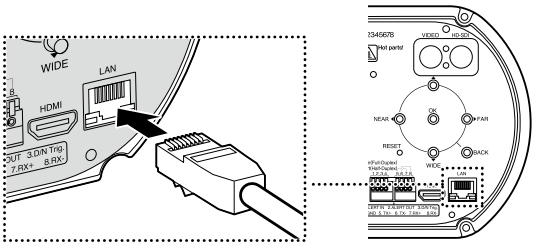
Select RS485 mode by setting DIP switch ① to "ON" and DIP switches ② and ③ to "OFF". Set DIP switch ④ to "ON" for full-duplex communication or to "OFF" for half-duplex communication.



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

RS485 communication	DIP switch			
	①	②	③	④
Full-duplex	—	—	—	ON
Half-duplex	—	—	—	OFF

2 Use an Ethernet cable to connect the camera to a computer.



3 Download the firmware update file to your computer.

TIPS

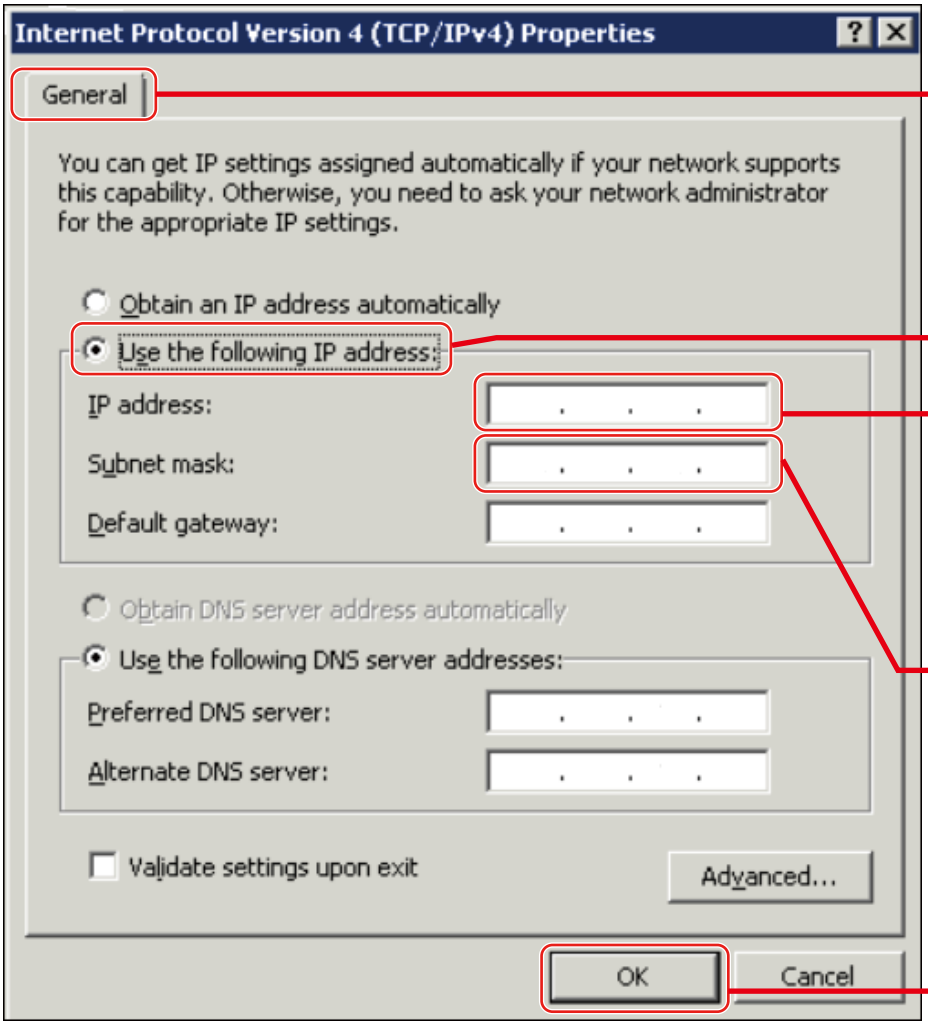
- Download the zip archive containing the latest firmware.
- Extract the zip archive and confirm that the firmware update files are named "NWUP0001.DAT", "FWUP0032.DAT", and "XFUP8009.DAT".

4 **Select an IPv4 address for the computer.**

- Windows 10:

① Select **Control panel** > **Network and Internet** > **Network and Sharing Center** > **Access type** > **Properties** and double-click **Internet Protocol Version 4 (TCP/IPv4)**.

② The "Internet Protocol Version 4 (TCP/IPv4) Properties" dialog will be displayed; enter an IP address and subnet mask and click **OK**.



General *tab*

Use the following IP address

IP address*: Enter an IP address starting with "192.168.1." and ending with a number not currently used by the camera (the camera's default IP address is "192.168.1.10").*

Subnet mask*: 255.255.255.0*

Click **OK** *without altering any other fields or selecting any other options.*

Updating the Firmware

1 **Turn the camera on.**

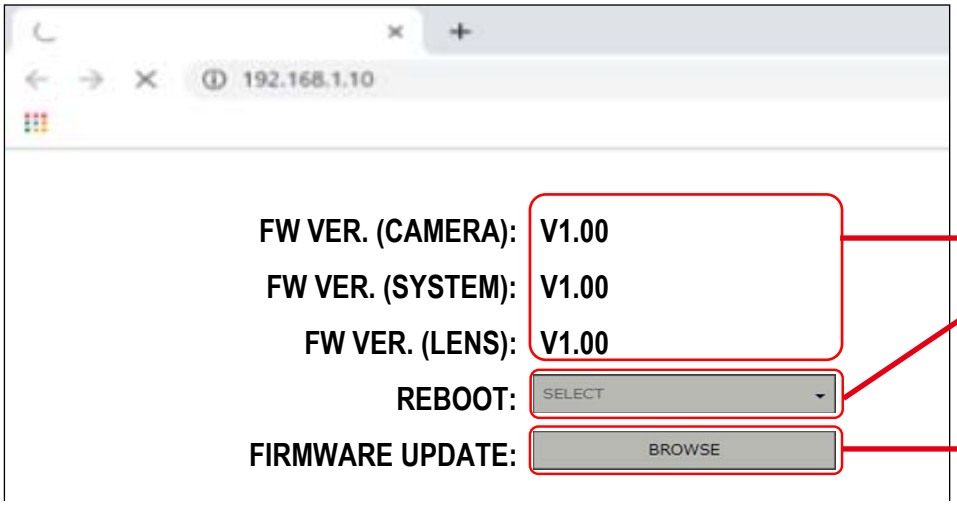
2 **Send a firmware update command from the Pelco command list.**
For more information, see the SX1600 firmware update item in the Pelco-Protocol specification.
https://global.fujifilm.com/en/business-optical-devices/cctv/sx

If the command was sent successfully, the camera will temporarily enter IP mode.

3 **Open a web browser on the computer and enter the camera's IP address.**
The camera's IP address is "192.168.1.*xx*", where "*xx*" defaults to "10"; the subnet mask is "255.255.255.0". For more information, see page 6.



4 **When the computer establishes a connection to the camera, a firmware update dialog will be displayed; adjust settings as shown below.**



The current firmware version

Select **ON** *to restart in RS485 mode.*

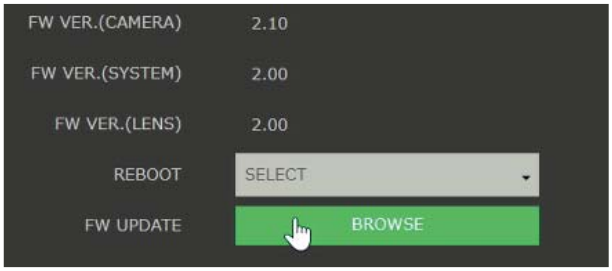
Click **BROWSE** *and select the firmware update file ("NWUP0001.DAT / FWUP0032.DAT / XFUP8009.DAT") as described in Step 5.*

> **TIP** If no operations are performed for three minutes while the firmware update dialog is displayed, the camera will automatically restart in RS485 mode.

5 **Click BROWSE in the firmware update dialog, select the "NWUP0001.DAT / FWUP0032.DAT / XFUP8009.DAT" file, and click OPEN to start the update.**
- The update takes about three to eight minutes; when it completes, the camera will automatically restart in RS485 mode.
- To keep all firmware up-to-date, update the camera, system, and lens firmware using the "NWUP0001.DAT", "FWUP0032.DAT", and "XFUP8009.DAT" files extracted from the zip archive.

The firmware update is now complete.

Caution:



After pressing the Browse button and selecting the update file, the display will show the firmware transfer in progress as shown below (Figure below).



If the display does not show that the firmware is being transferred after selecting the update file (see below), press the Browse button again to select the update file.

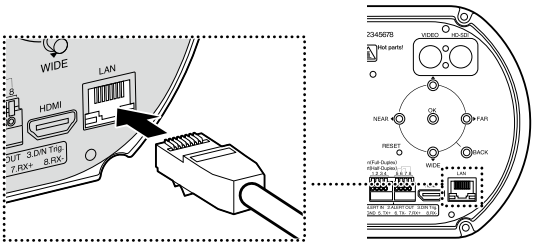


The firmware update is now complete.

IP Connections

Getting Ready

1 Use an Ethernet cable to connect the camera to a computer.



2 Download the firmware update file to your computer.

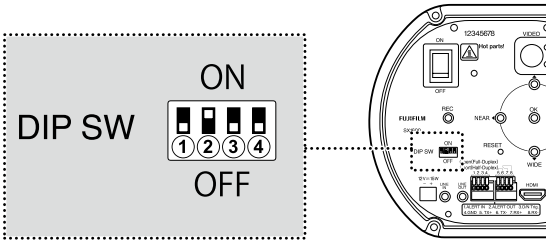
> **TIPS**
> - Download the zip archive containing the latest firmware.
> - Extract the zip archive and confirm that the firmware update files are named "NWUP0001.DAT", "FWUP0032.DAT", and "XFUP8009.DAT".

3 Open a web browser on the computer and enter the camera's IP address.
The camera's IP address is "192.168.1.*xx*", where "*xx*" defaults to "10"; the subnet mask is "255.255.255.0". For more information, see page 6.



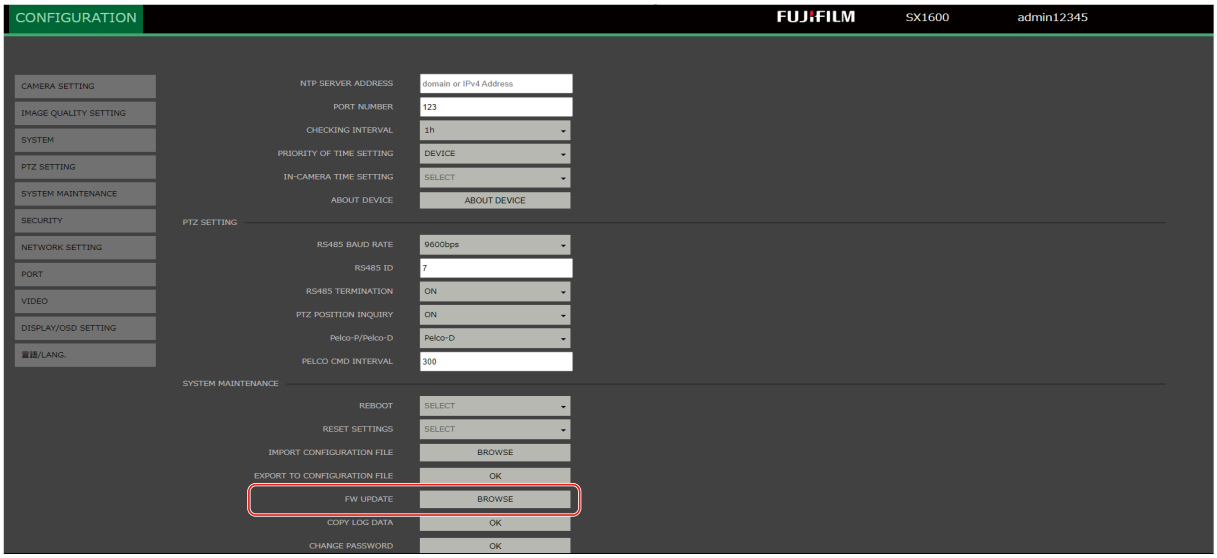
4 Select IP mode.
Select IP mode using the DIP switches on the back of the camera. Set switch ② to "ON" and switches ①, ③, and ④ to "OFF".

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



Updating the Firmware

1. **Turn the camera on.**
2. **Connect the camera and computer using an Ethernet cable.**
3. **In the camera menus, select CONFIGURATION > SYSTEM MAINTENANCE > FW UPDATE, click BROWSE , and finally click OPEN to begin the firmware update.**
   - The update takes about three to eight minutes; when it completes, the camera will restart automatically.
   - To keep all firmware up-to-date, update the camera, system, and lens firmware using the "NWUP0001.DAT", "FWUP0032.DAT", and "XFUP8009.DAT" files extracted from the zip archive.



MEMO

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