

STUDIO EDGE

QUICK-START GUIDE



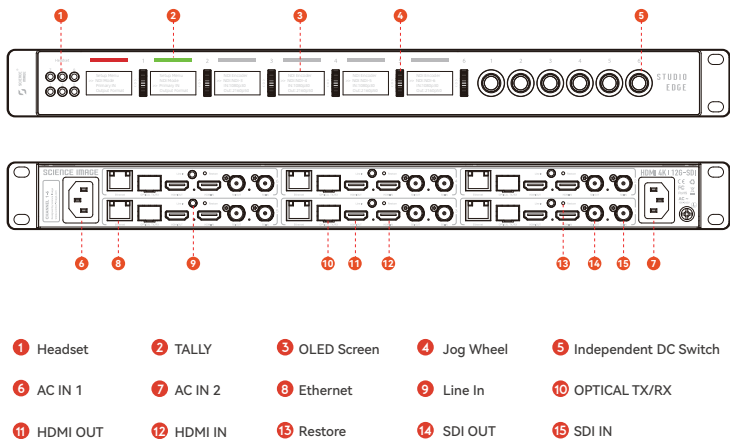
For more information and download please visit
<https://www.science-image.com>
Support@science-image.com



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01 Interface and Indicator

(Take 6 channels for example)



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- Line 1:** Displays the current channel's operating mode: NDI® Encoder, NDI® Decoder, Optical Transmitter, or Optical Receiver. (During encoding, the optical transceiver can be set to either transmit or receive mode, while during decoding, it is fixed in transmit mode.)
- Line 2:** In Encoder mode: Shows the NDI source name and the priority setting for SDI/HDMI input signals. While in Decoder mode: Displays the name of the decoded NDI source.
- Line 3:** In Encoder mode: Shows the input resolution format and indicates whether SDI and HDMI inputs are detected: -Y = signal present; -N = no signal. When operating as an Optical Receiver: Displays Optical-Y (optical signal received) or Optical-N (no optical signal). In Decoder mode: Shows the resolution format of the decoded NDI source.
- Line 4:** In Encoder mode: Displays the output resolution format and the device's current IP address. In Decoder mode: Displays only the device's current IP address.

Jog Wheel

The jog wheel is primarily used to configure the following settings:

- ①Operating modes for encoding/decoding
- ②Priority of SDI/HDMI input signals
- ③Output resolution format
- ④Optical transmission mode (Transmit/Receive)

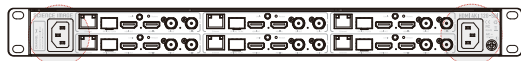
Operation Instructions:

- ①Enter the Settings Menu: Press and hold the jog wheel to access the settings menu.
- ②Adjust Parameters: Rotate the jog wheel upward or downward to select options; press briefly (short press) to confirm your selection.

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02 Power Supply and Startup

The Studio Edge is equipped with two AC power input interfaces, each supporting a wide voltage range of 100V to 240V. Users may power the device using either one of the two power interfaces or connect both simultaneously—when both are connected, one acts as the primary power source while the other serves as a backup



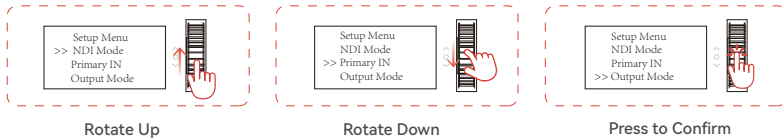
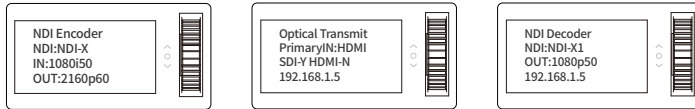
After the main power is properly connected, you can use the dedicated power switch to turn any channel on or off. For example, when you press the power switch for Channel 1, the power button will light up red, and the OLED screen will first display "Science Image Tech," followed by the device's IP address—indicating that it has entered normal operating mode.



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03 OLED Display and Jog Wheel

OLED Display

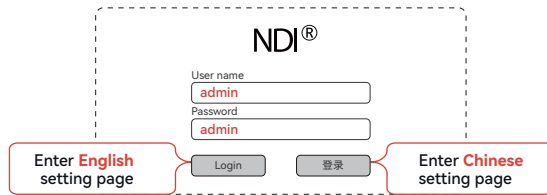


04 Log in to the Web UI

Studio Edge allows device parameters to be configured via the Web UI. You can access the Web UI login page for any channel using one of the following three methods. The default username and password are both admin.

Method 1: Enter the IP Address in a Web Browser

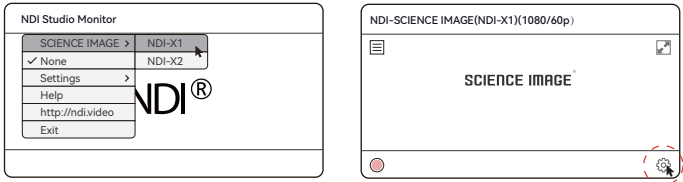
- ①After starting the desired channel, check the fourth line of the OLED screen to find its IP address.
- ②Open a web browser and enter this IP address to access the Web UI login page.
- ③Log in using the default credentials.



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Method 2: Using the Studio Monitor Application

- ①Download and install the free NDI Tools from the official website: <https://ndi.video/>.
- ②After installation, launch the NDI Studio Monitor application. It will automatically discover all NDI-compatible devices on the same local network.
- ③Click the menu button in the top-left corner, then navigate to Device Name > NDI Source Name to select your desired channel. Studio Monitor will display the video stream generated by the selected device.
- ④In Studio Monitor, click the gear icon in the bottom-right corner. This will automatically open the Web UI login page in your default web browser.

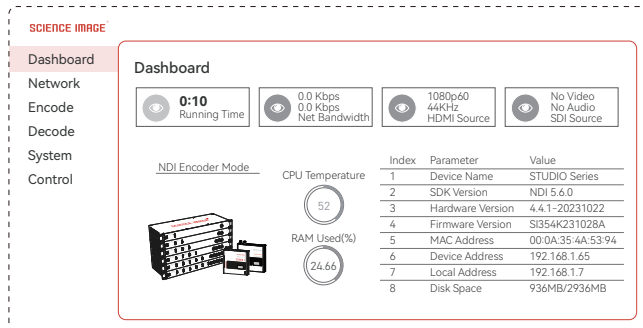


Method 3: Use the DynaHub Software

- ①Download and install the official Science Image software DynaHub.
- ②Launch DynaHub after installation. The software will automatically discover all compatible devices on the same local network.
- ③In the left-hand device list, locate your device. Studio Edge belongs to the Studio product series, so its channels appear under the "STUDIO" group in DynaHub. Click the IP address of the desired channel to open its Web UI directly.

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05 Device Information

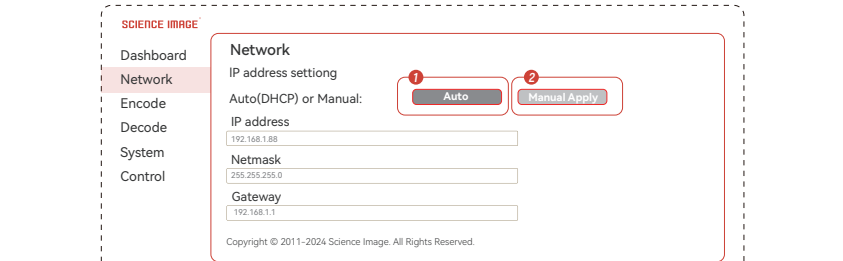


The [Dashboard] page primarily displays various device parameters, such as running time, video and audio information from HDMI/SDI inputs, current operating mode (encoding/decoding), as well as device version, MAC address, and IP address.

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06 Network Settings

Go to the [Network] page to configure channel parameters such as the IP address.



1 DHCP Mode:

Click the Auto button. The channel will automatically restart.
If a router is present in the network, it will assign an IP address to the channel.
If no router is detected, the channel will generate a link-local IP address in the range 169.254.x.x.

2 Manual Mode:

In manual mode, you must enter a valid IP address, subnet mask, and gateway.
Note: The channel's IP settings must be in the same subnet as your local PC or mobile device.
After entering the correct information, click the Manual button to apply the settings. The channel will restart automatically and operate with the fixed (static) IP address you specified.

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4KDCIp60	4KDCIp59.94	4KDCIp50	4KDCIp30	4KDCIp29.97	4KDCIp25	4KDCIp24	4KDCIp23.98
2160p60	2160p59.94	2160p50	2160p30	2160p29.97	2160p25	2160p24	2160p23.98
2KDCIp60	2KDCIp59.94	2KDCIp50	2KDCIp30	2KDCIp29.97	2KDCIp25	2KDCIp24	2KDCIp23.98
1080p60	1080p59.94	1080p50	1080p30	1080p29.97	1080p25	1080p24	1080p23.98
1080i60	1080i59.94	1080i50	720p60	720p59.94	720p50	720p30	720p29.97
720p25	Auto						

2 Input Source Priority

When both SDI and HDMI inputs are connected simultaneously, HDMI is prioritized by default.
To prioritize SDI, please click the SDI option. If only one input source is present, the system automatically detects and uses it—this setting has no effect in that case.

3 Optical Transceiver Settings

Studio Edge supports optical signal transmission and can be flexibly configured to operate in either Transmitter or Receiver mode via:The Web UI, The Jog Wheel(rotary wheel), The DynaHub software.

Optical transceiver setting

Optical switch: Disable Enable

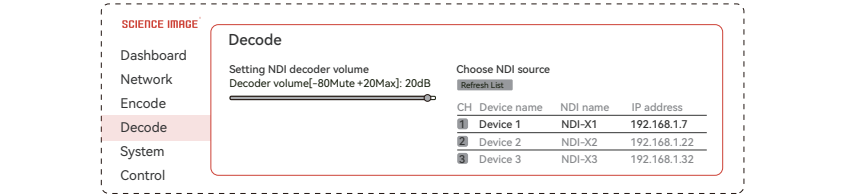
Optical mode: Transmitting Receiving

Each Studio Edge channel supports SMPTE-compliant optical signal transmission. You can configure the channel to operate in Transmit or Receive mode via the Web UI or the jog wheel. And SDI/HDMI up/down conversion and optical transmission can operate simultaneously.
We recommend using SciencelImage T1 single-mode, single-fiber optical modules at both the transmitter and receiver ends.

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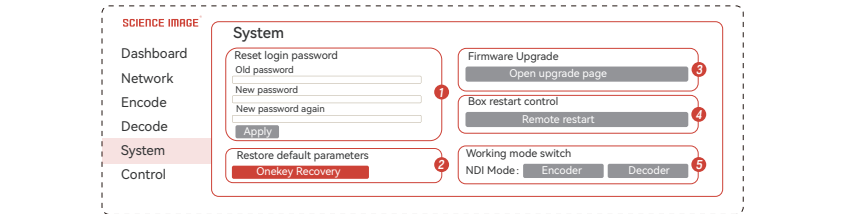
08 Decoding

In decoding mode, users can adjust the decoded audio volume and select the decoding source. For instructions on switching between encoding and decoding modes, please refer to Section 9.5.



09 System Settings

The [System] page allows you to: change the login password, restore default settings, upgrade firmware , restart the device and switch encoding/decoding mode.



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4 Device Restart

Click the Remote Restart button on the System page to reboot the device.

5 Switching Between Encoding and Decoding Modes

On the [System] page, locate the Working Mode switch. Click Encoder or Decoder to select the desired mode. After a brief transition period, the device will be ready for normal operation.

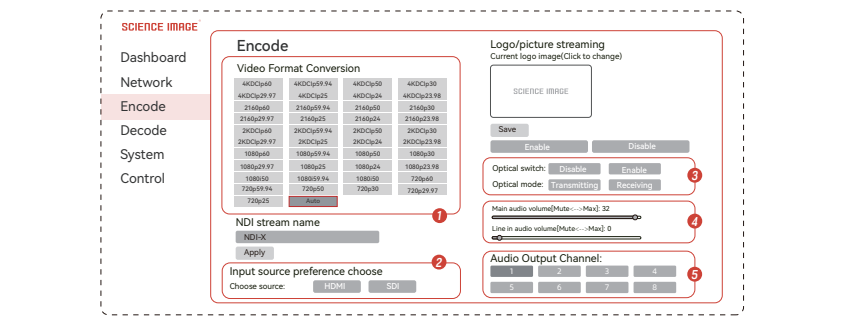
10 Hardware Factory Reset

If you forget the password and cannot access the Web UI of a Studio Edge channel, or if the channel becomes unresponsive, you can perform a hardware factory reset using the Reset (or Restore) pinhole button on that channel. Follow these steps:
① With the device powered off, use a SIM ejector tool or paperclip to press and hold the Reset (or Restore) button for the target channel.
② While holding the button, apply power to the channel (via DC or PoE—either is acceptable).
③ Watch the OLED screen. After approximately 3 seconds, the message “System Recover” will appear—release the Reset button at this point.
④ Wait about 20 minutes. When the OLED displays “Burning: 100”, manually power cycle the device (turn off, then reapply power).
⑤Log in to the device’s Web UI and upgrade the channel to your previously used firmware version (see Section 9.3 of this Quick Start Guide for upgrade instructions).
Note: Do not interrupt power during the recovery process. Doing so may corrupt system files and prevent the device from booting properly.

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07 Encoding

The Encoding page allows you to configure the following features:
Output resolution formats for SDI, HDMI, and NDI, NDI source name, NDI aspect ratio, Frame rate
Bitrate, NDI Tally, Optical transceiver transmit/receive mode, NDI encoder audio volume, Audio embedding.



1 Encoding Format Conversion

Users can select any format from the list of supported options, and Studio Edge will output the video in the chosen resolution format. If "Auto" is selected, the output format will match the input format.
Additionally, Studio Edge supports input signals in 4K DCI and 2K DCI formats, with SDI and HDMI outputs available for these resolutions. (Note: NDI output currently does not support 4K/2K DCI formats.)

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Note: The T1 modules must be used in matched pairs with different-colored pull tabs (e.g., one with a silver tab, the other with a purple tab) to ensure proper bidirectional communication. Connect the modules using an LC-to-LC fiber optic cable.

Each Studio Edge channel is fully compatible with all Science Image products that support optical transmission. For compatibility with third-party optical modules, please contact Technical Support.

4 External Audio Embedding

To add external audio to the output video, use the Line In embedding feature.Connect your external audio source to the device’s Line In port.Adjust the volume of the original audio using the Main Audio Volume control.Adjust the volume of the external audio using the Line In Audio Volume control.

External audio embedding setting

Main audio volume [Mute <--> Max]: 32

Line In audio volume [Mute <--> Max]: 24

5 Audio Channel Output Settings

Studio Edge’s SDI interface supports 8-channel audio (16 audio tracks) for both input and output.
When an 8-channel audio signal is received via SDI, you can select which audio channel to output via HDMI or the Headset jack in the Audio Output Channel menu.

Audio Output Channel

1 2 3 4
5 6 7 8

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1 Reset Login Password

To change the login password, enter a new password and click Apply. The new password will take effect on your next login.

2 Restore Default Settings

You can restore all Web UI parameters to their factory defaults with a single click using the Onekey Recovery option.

3 Firmware Upgrade

Go to <https://www.science-image.com/support/download> to download the latest firmware. After downloading, you can access the upgrade page in either of the following ways:
(1)On the [System] page, click Open Upgrade Page.
(2)Click the user icon in the top-right corner of the Web UI, then select Upgrade.
After entering the upgrade page, click the [Choose File] button and select the firmware file to be upgraded (e.g., siup-flow354k-250816a.si).
A few seconds later, the system will verify the file and display a message indicating whether the firmware is valid.If the file is correct, the [Start Upgrade] button will turn green — click it to begin the upgrade.If the file is invalid, please verify that you have selected the correct firmware for your device.

SciencelImage Firmware Upgrade Page

The upgrade file submitted: siup-ndi-20211129a.si[文件大小: 11090.02k]

Local upgrade file: 浏览... 未选择文件 Remote upgrade file: Auto Upgrade

Start Upgrade

The upgrade process takes approximately 3 minutes. A progress bar will be displayed during the update.
NOTE: Note that the progress may pause around 10% for a short period—please be patient; the system will automatically continue.Once the upgrade is complete, the device will restart automatically.

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11 FAQ

Q1: Why can't the device decode the NDI source from an NDI camera?
A: Studio Edge supports Full NDI encoding and decoding, but does not support decoding NDI|HX (including NDI|HX2 or NDI|HX3). Please verify that the NDI source generated by your camera is Full NDI, not NDI|HX.
Q2: Why can't software on a PC or a decoding device discover the NDI stream encoded by Studio Edge?
A: A. Check if there are other NDI streams with the same source name in the network. If so, rename the Studio Edge NDI stream to a unique name.
B. Ensure the receiving PC is not using a proxy server. If a proxy is enabled, please disable it.
C. If the receiving PC is connected via both Ethernet and Wi-Fi simultaneously, try disabling Wi-Fi to avoid network interface conflicts.
Q3: Does upscaling with Studio Edge improve video quality?
A: No. Studio Edge’s upscaling function only changes the resolution; it does not enhance image quality.

12 Support

Email: support@science-image.com
Phone: 12318600029127,18601310661

13 Warranty

The product is covered by a 36-month limited warranty from the date of purchase. If a non-user-induced performance failure occurs during this period, Science Image will provide free repair service upon official verification.
The following conditions are not covered under warranty: Water damage/Physical damage (e.g., drops or impact)/ Unauthorized disassembly or modification/ Force majeure events (e.g., fire, flood, lightning)/ Use of non-original or third-party accessories/components.

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