IdeaShare
2.1.3

User Guide

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Contents

1 Download and Installation

This chapter describes how to download and install the IdeaShare client and the recommended OSs.

Mobile Client

Method 1: Scan the QR code shown in **Figure 1-1** and follow the instructions to download and install the IdeaShare mobile client.

Figure 1-1 IdeaShare QR code

Method 2: On a Huawei or iOS mobile phone, search for **IdeaShare** in the mobile app store, and download and install the IdeaShare mobile client.

📖 **NOTE**

The following OS versions are recommended:
- Android 8.0 or later
- HarmonyOS 2.0 or later
- iOS 13.0 or later

Computer Client

Open **https://www.huaweicloud.com/intl/en-us/product/ideashare.html** using a browser on the computer, and download and install the IdeaShare computer client.

📖 **NOTE**

The following OS versions are recommended:

- 32-bit or 64-bit Windows 7, 8, 8.1, 10, or 11
- macOS 10.13.6 or later

Applicable Endpoints

Table 1-1 Endpoint models and versions applicable to the IdeaShare client

Model	Version
IdeaHub S, IdeaHub Pro, IdeaHub Enterprise, Collaboration Device, Collaboration Device Pro, Collaboration Device Lite	21.0.100 or later
IdeaHub Board Pro	21.0.RC1 or later
IdeaHub Board Edu	21.0.300 or later
IdeaHub B2, IdeaHub Board 2	2.1.0.15 or later
IdeaHub S2, IdeaHub S2 Pro, IdeaHub ES2, IdeaHub ES2 Pro	2.1.0 or later
CloudLink Box 310, CloudLink Box 610	22.1.0 or later
CloudLink Bar 310	22.2.1 or later

2 Configuration Operations

- To project the image and sound of the computer or mobile phone to an endpoint, ensure that the network of the computer or mobile phone can communicate with that of the endpoint.

- If you cannot determine whether the network connection between the computer or mobile phone and the endpoint is normal, start the command-line interface (CLI) on the computer and ping the network IP address of the endpoint. If the IP address can be pinged, the network connection is normal.

- You can configure the projection network of the endpoint. The projection networks corresponding to the projection code policies are as follows:
  - **Auto**: automatic
  - **Eth0**: wired network
  - **STA**: Wi-Fi and mobile phone hotspot
  - **AP**: endpoint hotspot

📖 NOTE

- Only the following endpoint models are configured on the large screen:

  IdeaHub S2, IdeaHub S2 Pro, IdeaHub ES2, IdeaHub ES2 Pro

- Configurations of Wi-Fi and trustlist are available only to models that support the Wi-Fi function.
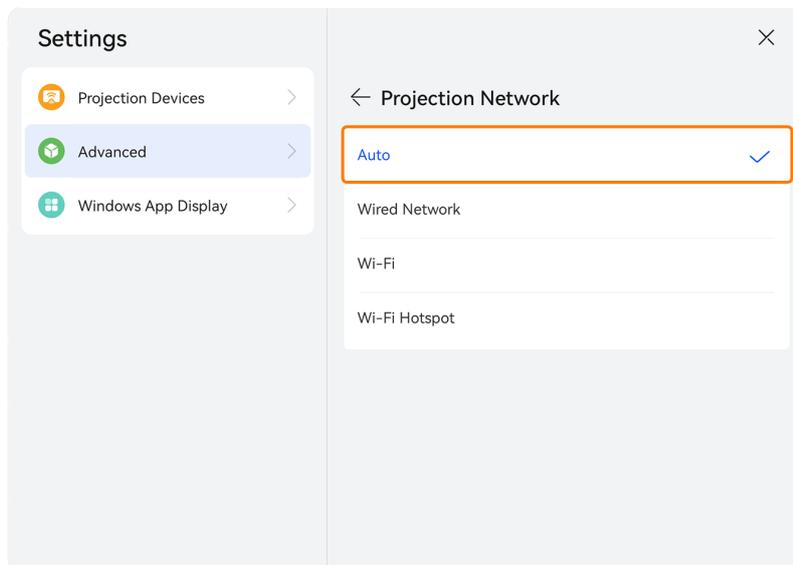
2.1 Automatic Network Selection

After you set the projection network to **Auto** or use the projection code policy of **Auto**, the endpoint automatically generates a projection code based on the IP address of the network where the endpoint is located.

By default, the projection network or projection code policy of the endpoint is **Auto**. When the endpoint is connected to multiple networks, the proper network is selected by priority: Wi-Fi > wired network > wireless hotspot.

Configuring the Projection Network on the Large Screen

Step 1 On the home screen, tap **Projection** to access the projection guide screen, choose ⚙ > **Advanced** > **Projection Network**, and set it to **Auto**, as shown in **Figure 2-1**.

Figure 2-1 Projection network on the large screen

Step 2 Connect the computer or mobile phone to the network connected by the endpoint based on the network information in the upper left corner of the projection guide page, and check whether the network connection is normal.

----End

Configuring the Projection Network on the Web Interface

Step 1 Open the browser of the endpoint or computer, log in to the web interface (refer to *Quick Configuration* or *Configuration Guide* for the login process), and choose **Application** > **Wireless Projection** > **Parameter Configuration**. Set **Projection network** or **Project code policy** to **Auto**, as shown in **Figure 2-2** and **Figure 2-3**.

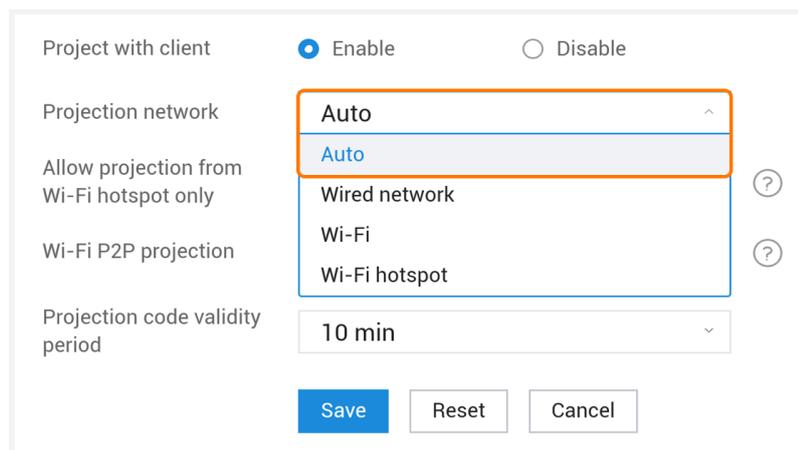**Figure 2-2** Projection network on the web interface

Figure 2-3 Projection code policy on the web interface

Step 2 Connect the computer or mobile phone to the network connected by the endpoint, and check whether the network connection is normal.

----End

2.2 Manual Network Switchover

If the projection network or projection code policy is set to **Auto** but the projection still fails, you can manually switch to the specified projection network or projection code policy.

Configuring the Projection Network on the Large Screen

Step 1 On the home screen of the large screen, tap **Projection** to access the projection guide screen, choose ⚙ > **Advanced** > **Projection Network**, and manually switch to a proper projection network.

Step 2 Connect the computer or mobile phone to the network connected by the endpoint.

----End

Configuring the Projection Network on the Web Interface

Step 1 Open the browser of the endpoint or computer, log in to the web interface (refer to *Quick Configuration* or *Configuration Guide* for the login process), choose **Application** > **Wireless Projection** > **Parameter Configuration**, and manually switch to a proper projection network or projection code policy.

Step 2 Connect the computer or mobile phone to the network connected by the endpoint.

----End

2.3 Configuring the Trustlist

The endpoint supports the trustlist function. After this function is enabled, only IdeaShare clients whose IP addresses are in the trustlist and that are connected to the hotspot can connect to the endpoint.

To enable the trustlist, perform the following steps:

Step 1 Enable **Allow projection from hotspot only** or **Wi-Fi connection only**.

Open the browser of the endpoint or computer, log in to the web interface (refer to *Quick Configuration* or *Configuration Guide* for the login process), choose **Application** > **Wireless Projection** > **Parameter Configuration**, and enable **Allow projection from hotspot only** or **Wi-Fi connection only**.

Step 2 Click **Enable** for the **Trustlist** function. Then you can add or delete a trustlist record.

----End

3 Projection Function

Enabling Client-based Projection on the Endpoint

Before using the IdeaShare client for projection, ensure that the client-based projection function is enabled on the endpoint as follows:
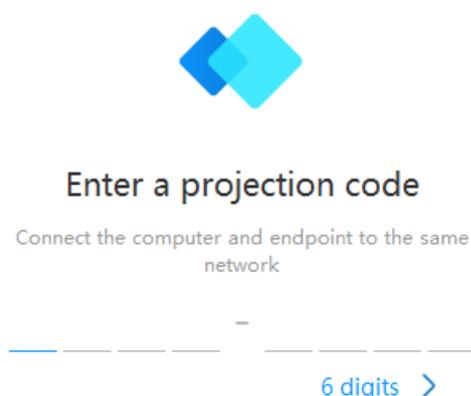
Open the browser of the endpoint or computer and log in to the web interface (refer to *Quick Configuration* for the login process). Choose **Application** > **Wireless Projection** > **Project with client**, and set **Project with client** to **Enable**. If this function is disabled, projection using the IdeaShare client will not be supported.

Local Projection

To use local projection, perform the following steps:

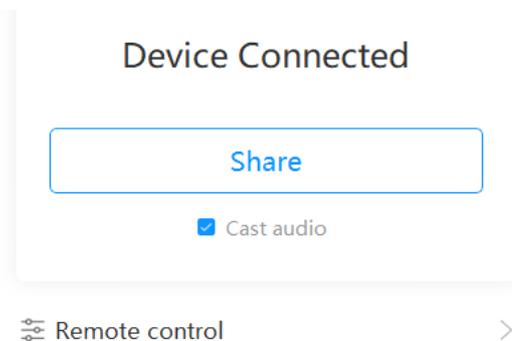**Step 1** Start the IdeaShare client on your computer or mobile phone.

Step 2 Enter the projection code displayed in the upper right corner of the endpoint, as shown in **Figure 3-1**.
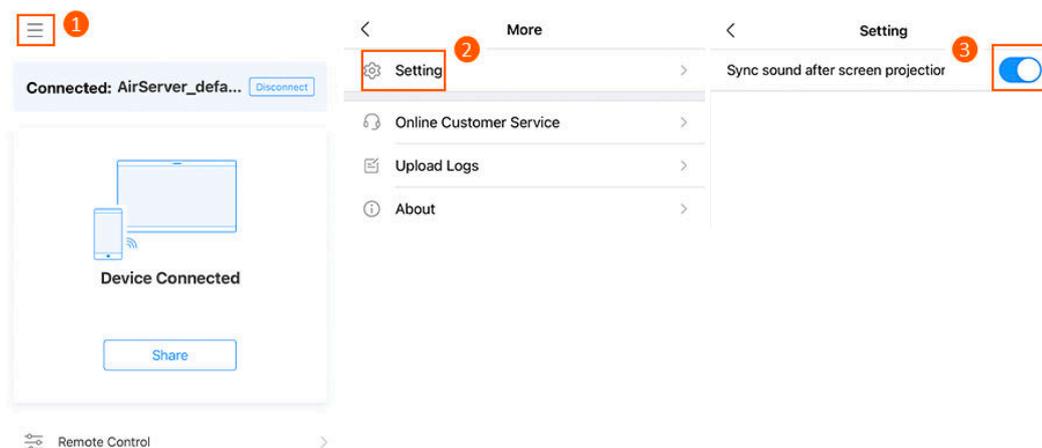
Figure 3-1 Entering the projection code

Step 3 Click **Share**. Then, the computer or mobile phone screen can be displayed on the endpoint.

- Operations on the computer, as shown in **Figure 3-2**

     a.   Select **Cast audio** to cast the audio from your computer to the endpoint.

     b.   Click **Remote control** to control the microphone, speaker, and camera of the endpoint.

Figure 3-2 Remote control

- Operations on the mobile phone

     a.   Enable **Sync sound after screen projection** by following instructions in **Figure 3-3** to synchronize the sound from your phone to the endpoint.

Figure 3-3 Sync sound after screen projection

     b.   Tap **Remote Control** to control the microphone, speaker, and camera of the endpoint.
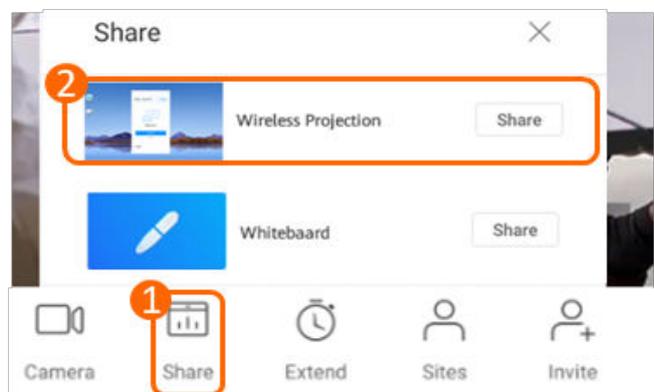
     ----End

Meeting Projection

To use meeting projection, perform the following steps:

Step 1 Start the IdeaShare client on your computer or mobile phone.

Step 2 Enter the projection code displayed in the upper right corner of the endpoint.

Step 3 Click **Share**. Then, the computer or mobile phone screen can be displayed on the endpoint.

Step 4   Tap **Share** on the meeting page as shown in **Figure 3-4**, and then share wireless projection.

Figure 3-4 Sharing in a meeting

----End

Wi-Fi P2P Projection

Introduction

Wi-Fi P2P is also called Wi-Fi Direct. Through this protocol, two devices supporting Wi-Fi can establish a direct, peer-to-peer connection without passing through the LAN.

The IdeaShare client supports projection using Wi-Fi P2P. You can enter the projection code to start projection as long as Wi-Fi is enabled on both the endpoint and your computer (or mobile phone).

📖 **NOTE**

- This function applies only to IdeaHub S2, IdeaHub S2 Pro, IdeaHub ES2, and IdeaHub ES2 Pro that support the Wi-Fi function.
- Wi-Fi P2P projection must meet the following operating system requirements:
  - Computer: 32-bit and 64-bit Windows 10 or 11
  - Mobile phone: Android 8.0 or later; HarmonyOS 2.0 or later
  - IdeaShare client: V6.19.0.32 or later

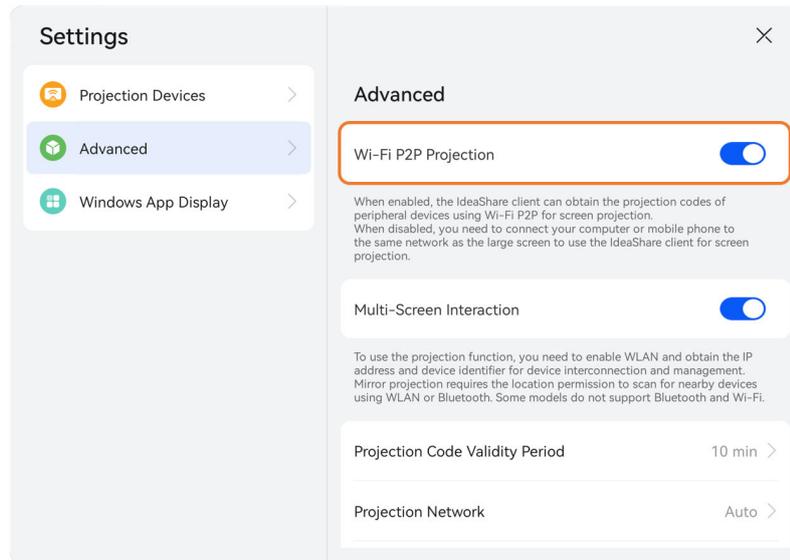**Wi-Fi P2P Projection Procedure**

Step 1   Ensure that Wi-Fi is enabled on the endpoint and computer (or phone).

Step 2   On the endpoint's home screen, tap **Projection**. On the displayed screen, choose ⚙ > **Advanced** > **Wi-Fi P2P Projection** in the upper right corner to enable **Wi-Fi P2P Projection**, as shown in **Figure 3-5**.

📖 **NOTE**

The Wi-Fi P2P configuration item in the advanced projection settings applies only to IdeaHub S2, IdeaHub S2 Pro, IdeaHub ES2, and IdeaHub ES2 Pro of version 2.1.0 and later.
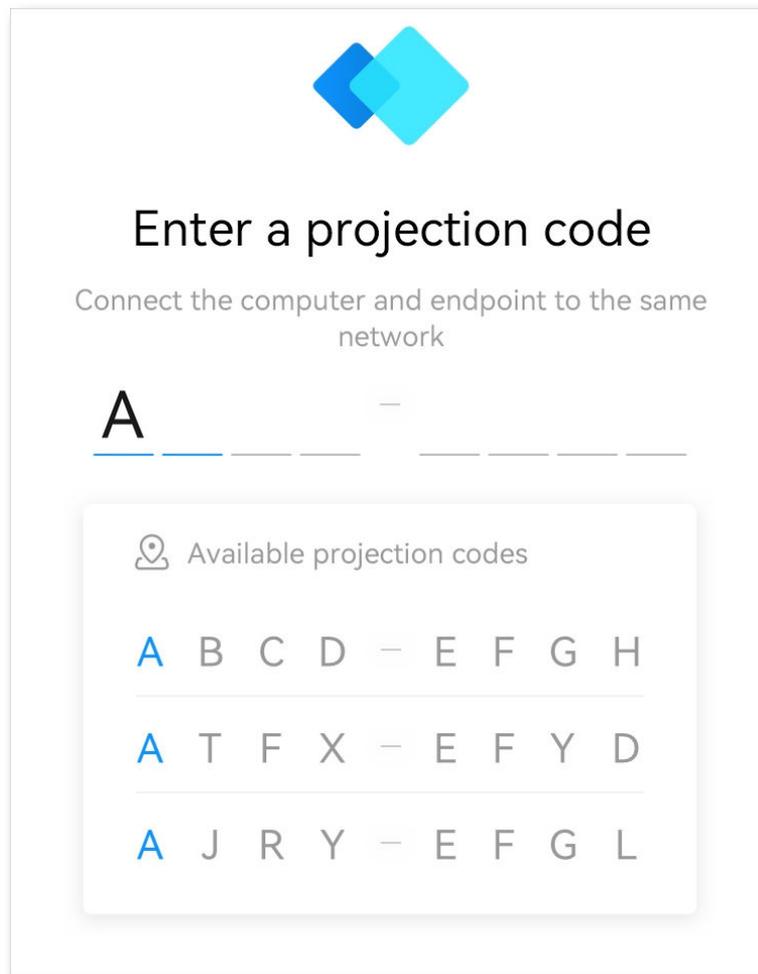
Figure 3-5 Advanced projection settings

Step 3 On the computer client or phone client, enter the projection code in the upper right corner of the endpoint, as shown in **Figure 3-6**. When projection code suggestions are displayed under the text box, tap one suggested projection code to connect to the large screen.

📖 **NOTE**

- For the first connection, you need to confirm the connection on the endpoint.
- If no projection code suggestion is displayed on the computer client, your device does not support this function. In this case, connect your computer to the same network as the endpoint and then start projection. For details, see **2 Configuration Operations**.

Figure 3-6 Entering the projection code

Step 4 After the connection is set up, you can start projection.

----End

4 BYOM

With Bring Your Own Meeting (BYOM), the microphone, speaker, and camera of the large screen can be used as virtual peripherals for third-party meeting software installed on computers or mobile phones.

When using third-party meeting software on a computer, you can use the IdeaShare client on Windows to implement the BYOM function.

📖 **NOTE**

- BYOM applies only to the IdeaHub S2, IdeaHub S2 Pro, IdeaHub ES2, and IdeaHub ES2 Pro.
- To use BYOM, ensure that the following conditions are met:
  - The BYOM function applies only to 64-bit Windows 10 and 11 computers of version 2004 or later (running IdeaShare clients of V6.19.0.33 or later).
  - **Install BYOM driver** is selected in IdeaShare client installation performed by the administrator account.
  - **Multi-Device Collaboration** is enabled under **Settings** > **Smart Functions** in the lower right corner of the endpoint's home screen.

To use BYOM, perform the following steps:

Step 1 Configure the networks of the endpoint and computer by referring to **2 Configuration Operations**.

Step 2 Open the IdeaShare client using an administrator account on your computer.

Step 3 Enter the projection code in the upper right corner of the endpoint to connect the IdeaShare client to the endpoint.

Step 4 On the computer, use third-party meeting software to initiate or join a meeting.

Step 5 Configure the meeting software to use the microphone, speaker, and camera.

The methods for setting the microphone, speaker, and camera vary with the meeting software. **Figure 4-1** and **Figure 4-2** are examples.

📖 **NOTE**

For the first setting, you need to obtain the trust authorization from the large screen to use the large screen's camera and microphone.

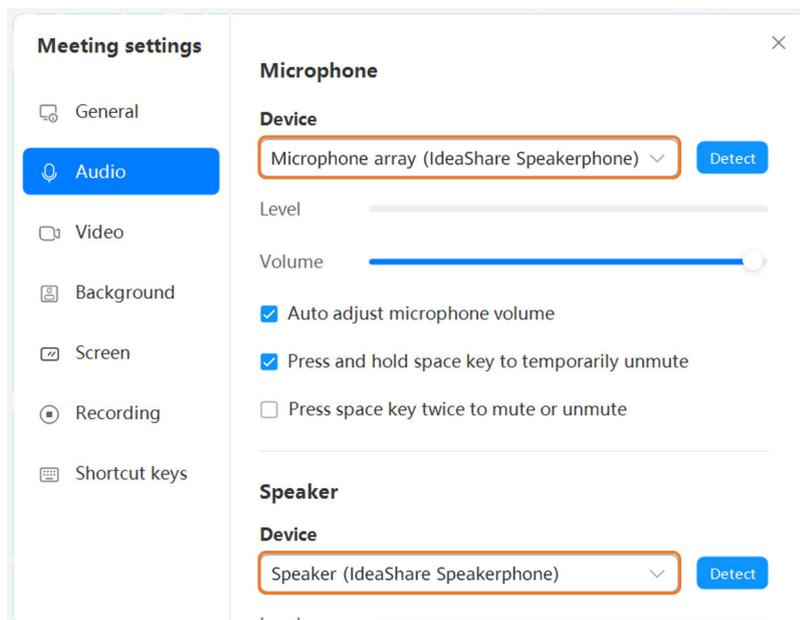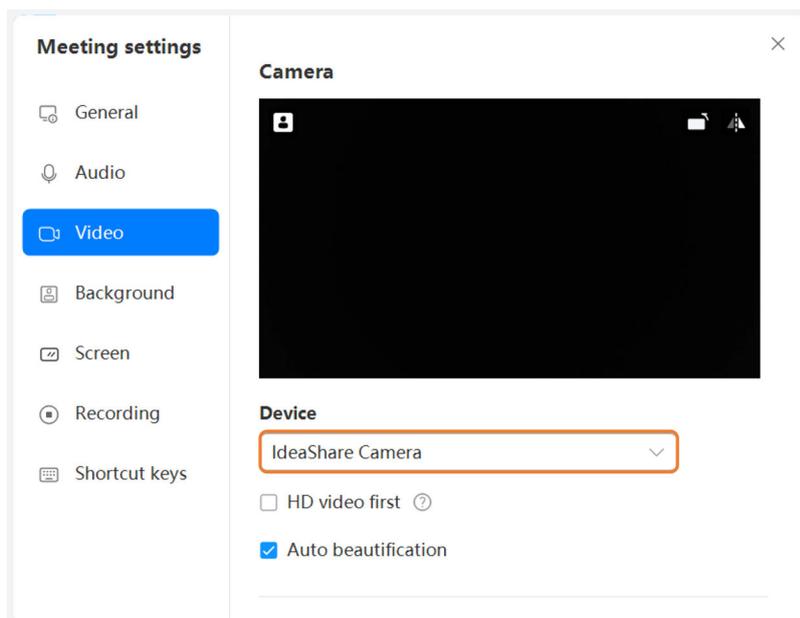**Figure 4-1** Setting the microphone and speaker of the meeting software

Figure 4-2 Setting the camera of the meeting software
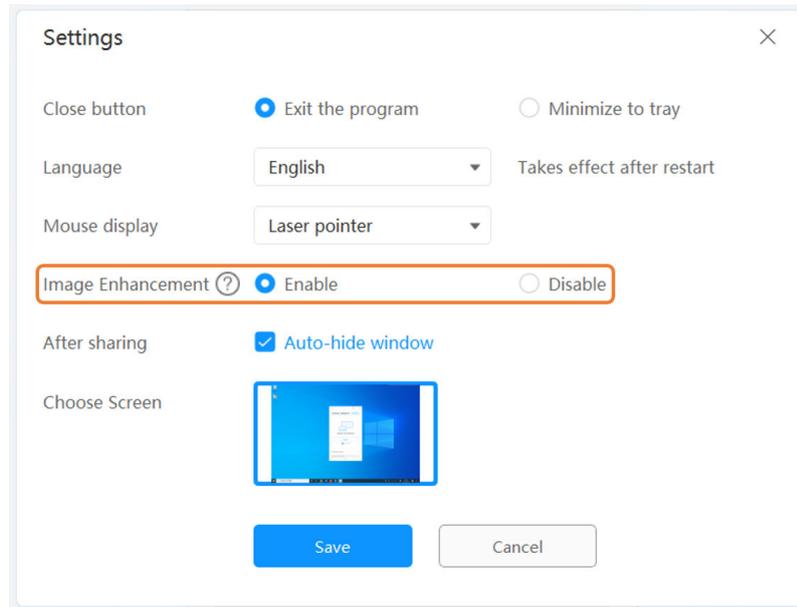

----End

5 More Functions

Image Enhancement

As shown in **Figure 5-1**, the IdeaShare client supports the image enhancement function.

- After this function is enabled, the projection resolution and frame rate will be improved for a better projection experience.
- If this function is disabled, the projection resolution and frame rate will decrease.

To enable the image enhancement function, click [icon] in the upper left corner of the IdeaShare client and choose **Settings** > **Image Enhancement** > **Enable**.

☐ NOTE

- The image enhancement function applies only to 32-bit and 64-bit Windows 7, 8, 8.1, 10, and 11, and the IdeaShare client version V7.02.1.02 or later.
- If the computer does not support hardcoding, the **Image Enhancement** configuration item will not be displayed.

Figure 5-1 Image enhancement

Intelligent Diagnosis

The IdeaShare client provides the intelligent diagnosis function for users and supports the following diagnosis contents:

- **Basic Diagnosis**: diagnoses the current operating system version, software version, network adapter, and graphics card.

- **Network Diagnosis**: diagnoses the connection between the client and endpoint and whether Wi-Fi P2P projection is supported, by entering a projection code.

- **Enhanced Diagnosis**: diagnoses the availability of enhanced functions, such as the BYOM.

To use the intelligent diagnosis function, click ▤ in the upper left corner of the IdeaShare client, click **Diagnosis**, and select the diagnosis content as required.
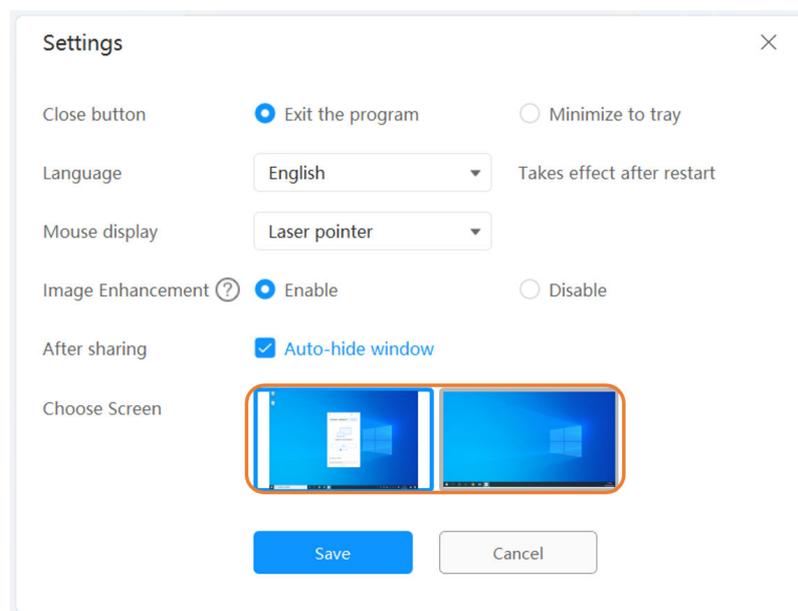
📖 **NOTE**

The intelligent diagnosis function applies only to 32-bit and 64-bit Windows 7, 8, 8.1, 10, and 11.

Choose Screen

When a multi-screen device is used for content sharing, you can choose any screen as the projection source on the IdeaShare client, as shown in **Figure 5-2**.
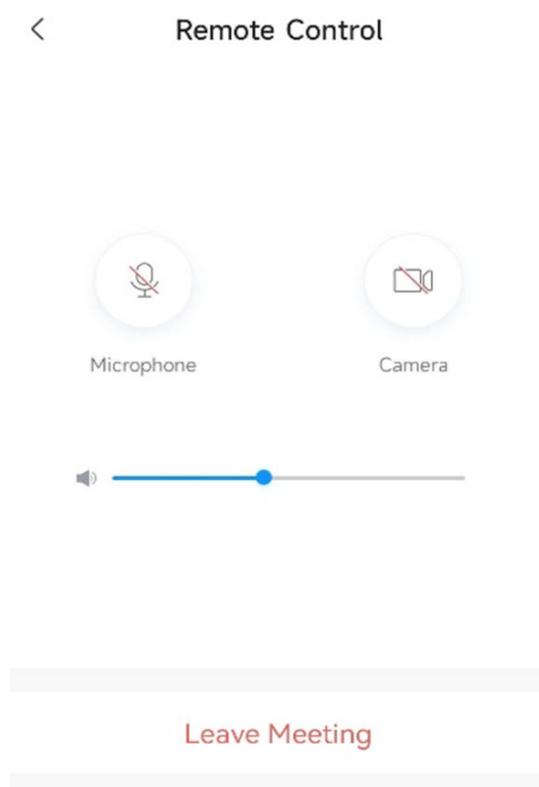
To choose a screen, click ▤ in the upper left corner of the IdeaShare client, click **Settings**, and choose a projection source next to **Choose Screen**.

Figure 5-2 Choose Screen

Remote Control

The IdeaShare client provides the remote control function, which is used to control endpoint functions during screen projection, as shown in **Figure 5-3**.

- After the projection starts, the remote control function screen of the IdeaShare client is displayed and you can drag the slider to adjust the volume, or tap the corresponding button to turn on/off the camera or mute/unmute the microphone.

- During projection in a meeting, participants can use the remote control of the IdeaShare client to leave the meeting, and the host can leave and end the meeting.

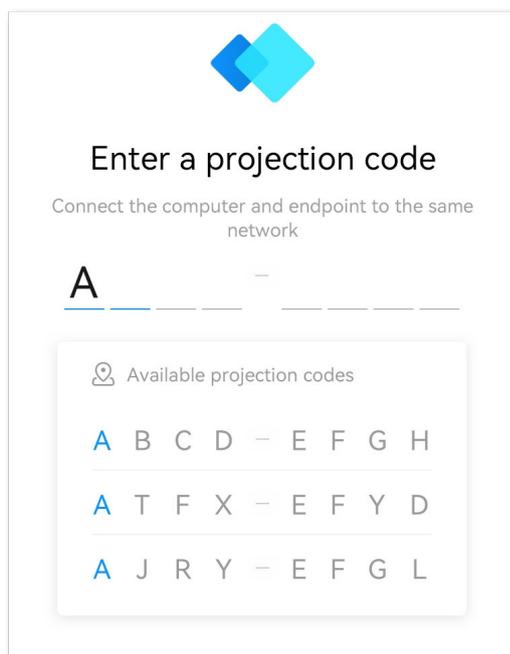**Figure 5-3** Remote Control

Projection Code Suggestions

Enter the projection code of an endpoint, as shown in **Figure 5-4**. IdeaShare will automatically suggest available projection codes nearby.

For the first connection using a suggested projection code, you need to confirm the connection on the endpoint.

☐ NOTE

- The projection code suggestion function applies only to the IdeaHub S2, IdeaHub S2 Pro, IdeaHub ES2, and IdeaHub ES2 Pro.
- To use the projection code suggestion function, ensure that the following version requirements are met:
  - Computer: 32-bit and 64-bit Windows 10 or 11
  - Mobile phone: Android 8.0 or later; HarmonyOS 2.0 or later
  - IdeaShare: V6.19.0.32 or later

Figure 5-4 Projection code suggestion

Switching the Mouse Style

The IdeaShare client allows you to switch the mouse style to a laser pointer or cursor during projection, as shown in **Figure 5-5**.
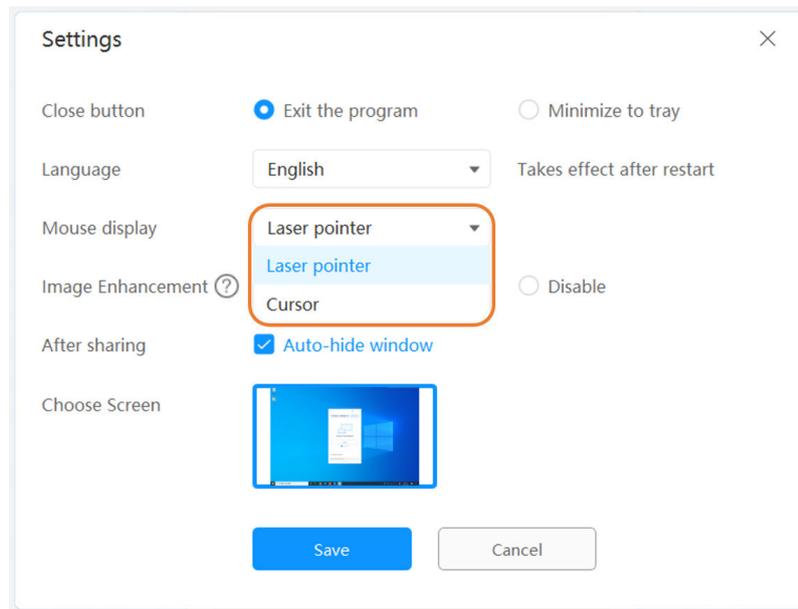
To switch the mouse style, tap ☰ in the upper left corner of the IdeaShare client and choose **Settings** > **Mouse display**.

📖 **NOTE**

The mouse style switching function is applicable to:

- 32-bit or 64-bit Windows 7, 8, 8.1, 10, or 11
- macOS 10.13.6 or later

Figure 5-5 Switching the mouse style

6 **FAQs**

The IdeaShare Client Is Displayed as a Question Mark Icon in the Mac App Dock. What Can I Do?

To solve the problem, perform the following operations:

- Restart the Mac.
- Drag the icon out of the app dock until **Remove** is displayed.