AVHub Divisible Conference Room

> ⓘ **NOTE**
> 1. Implemented 3rd party audio must have its own divisible room merging capability, as devices connected through USB/6.3mm/RCA ports of the sub-room's Yealink AVHub will not pass through to the main room after merging.
> 2. Display connected through HDMI to the sub-room Yealink mini-PC is not passed through after merge. You will require a 3rd party HDMI divisible/splitter solution to merge the sub-room display to the main room.
> 3. After merging the room, the sub-room's Yealink AVHub will reboot with 0 peripherals shown, and the peripherals will be merged and show up in the main room only.
> 4. You may implement a 3rd party room control system to call API requests over HTTPS with the MVC system to merge/divide automatically. For more information, please refer to Camera Control API.

Introduction

Divisible Room Mode is a solution designed for professional-grade meeting rooms. Professional-grade meeting rooms can be flexibly divided and combined. A professional meeting room can be divided into 2-4 separate spaces in typical scenarios. Yealink innovatively utilizes Yealink AVHub with a switch to enable the ability to control space partitioning/merging in real-time from the meeting control panel. In a divided state, each Yealink AVHub in individual meeting rooms plays a role in managing audio and video devices within that specific meeting room. In a merged state, one of the meeting rooms becomes the control room, overseeing all the audio and video devices within the combined meeting rooms. The Yealink AVHub devices in the merged rooms act as bridges for audio and video signal transmission. At this point, the interface for the divided meeting room will be locked, and the control room will gain control over all the peripherals in the merged rooms.

> ⓘ **NOTE**
> Yealink Divisible Room solution enables the combination/merging of peripherals (Yealink UVC Camera and Yealink Audio solution connected through RJ45 network port of the Yealink AVHub in multiple rooms (up to 4 rooms) to a single main room.

For the operation video, please refer to Divisible Room.

Supported Devices

For details on supported devices and version requirements, please see Teams Room Supported Features List.

Before You Begin

In a fully divisible space, the MVC system supports the maximum total number of audio and video devices specified in the table below:

Name of Audio and Video Devices	Maximum Supported Number of Devices
UVC84/UVC86	9
VCM34	8
VCM35	8
VCM38	8
MSpeaker II	4
CS10	4
CM20	4

Connect multiple MVC systems' Yealink AVHubs using Ethernet cables, as shown in the deployment diagram below:
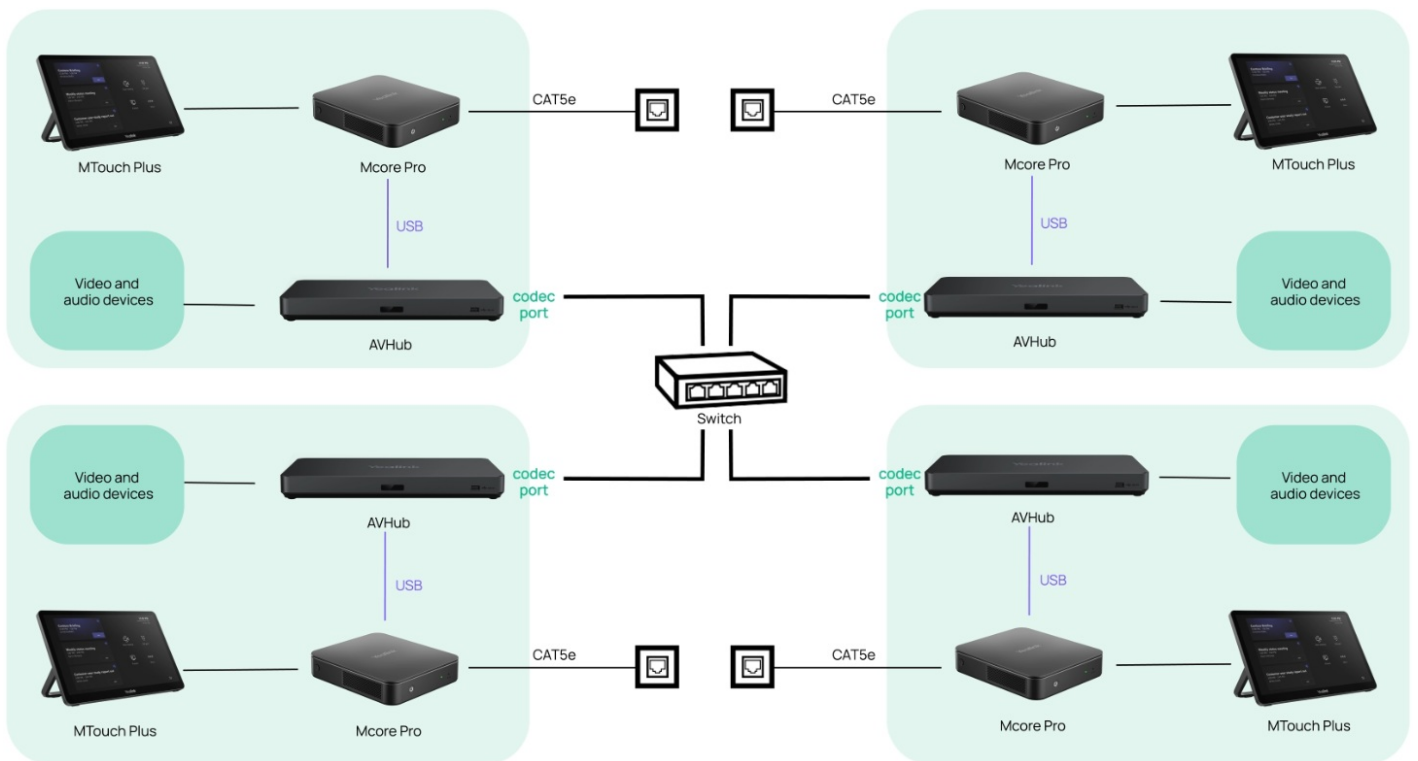
> ⓘ **NOTE**
>
> 1. If you need to merge more than two conference rooms, you should connect all the Yealink AVHubs' Codec interfaces from the rooms using Ethernet cables to the same switch (the switch should not be connected to the external network), and the switch should be a Gigabit switch.
>
> 2. Yealink mini-PC needs to be on the same local area network (LAN).
>
> 3. Conference room peripherals like cameras and microphones should be connected to Yealink AVHub via Ethernet cables and should not be connected to Yealink mini-PC via USB. Merging conference rooms means merging the devices under Yealink AVHub, and peripherals connected to Yealink mini-PC cannot be merged. For more information on the connection between Yealink AVHub and peripherals, refer to Connection.
>
> 4. All conference rooms participating in the merger must enable the divisible conference room feature, or they cannot be interconnected.
>
> 5. Before connecting to Yealink AVHub, you must enable the divisible conference room feature on Yealink AVHub.
>
> 6. When Yealink AVHub is already interconnected, and the Divisible Room function is enabled, if you need to split or merge rooms, please perform the split or merge operation on the specific rooms via YRC. Do not directly disable the Divisible Room function. If you disable the Divisible Room function, disconnect the cables connected to the Yealink AVHub CodeC port.

How to Use

You can operate the system directly using the Yealink MTouch Touch Panel provided with the MVC series or access the device management platform for remote operation. For remote management instructions, please refer to Remote Control.

In the divisible mode, the status of the devices connected to the MVC is as shown in the picture below:

> ⓘ **NOTE**
>
> Here is an example of using two sets of MVC devices; the logic and operations remain the same for more than two sets.

Yealink AVHub-1(before enabling Divisible Room)

Yealink AVHub-2 (before enabling Divisible Room)

Method 1: Configure via Yealink RoomConnect

Take Yealink AVHub-1 as the "main control room" as an example. Open Yealink AVHub in the Yealink RoomConnect.

1. Click **Divisible Room**.

2. Click enabled.
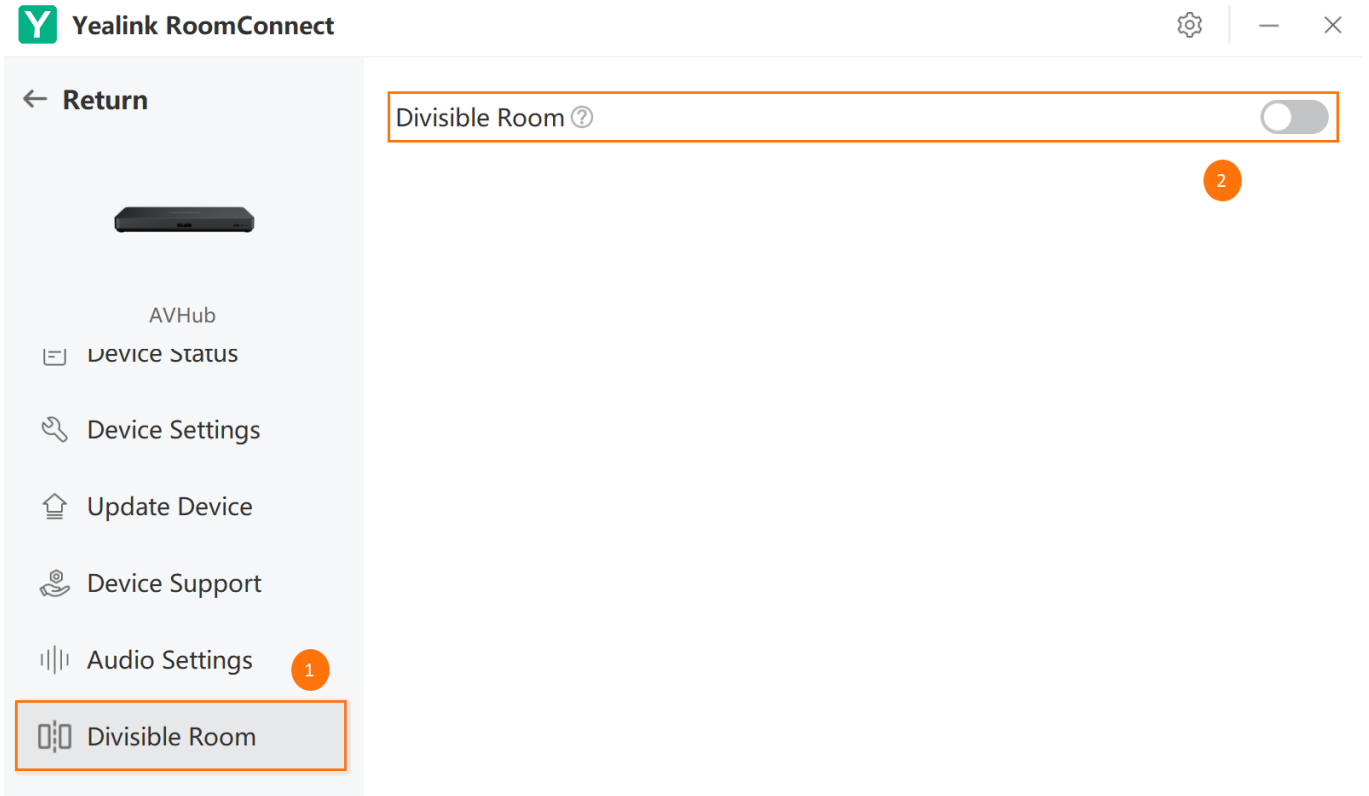
3. Click the **Add/Remove** button to add conference rooms. You can also manually add conference rooms by entering the IP address of Yealink mini-PC.

- You can also manually add conference rooms by entering the IP address of Yealink mini-PC.

4. After merging the conference rooms, the Control Room will gain control over all peripherals connected to the Yealink AVHubs in the merged rooms, and they will be centrally managed on Yealink AVHub-1.

Yealink AVHub-1(after becoming the control room)

Yealink RoomConnect

AVHub

Bind camera: 9

Firmware Version: 153.431.0.5

Hardware Version: 153.0.33.0.2.0.32

Serial Number: 806011E080000077

VCM35

Quantity: 4

Firmware Version: 98.431.0.5

Hardware Version: 154.16.0.0.0.0.0

MTouchII

Firmware Version: 126.424.0.15

Hardware Version: 126.2.0.0.0.2.0.17

Serial Number: 803061E070001623

MSpeakerII

Quantity: 4

Firmware Version: 98.431.0.15

Hardware Version: 98.3.0.0.1.0.0

- Yealink AVHub-1(the interface of control room)

- Yealink AVHub-2(after merging)
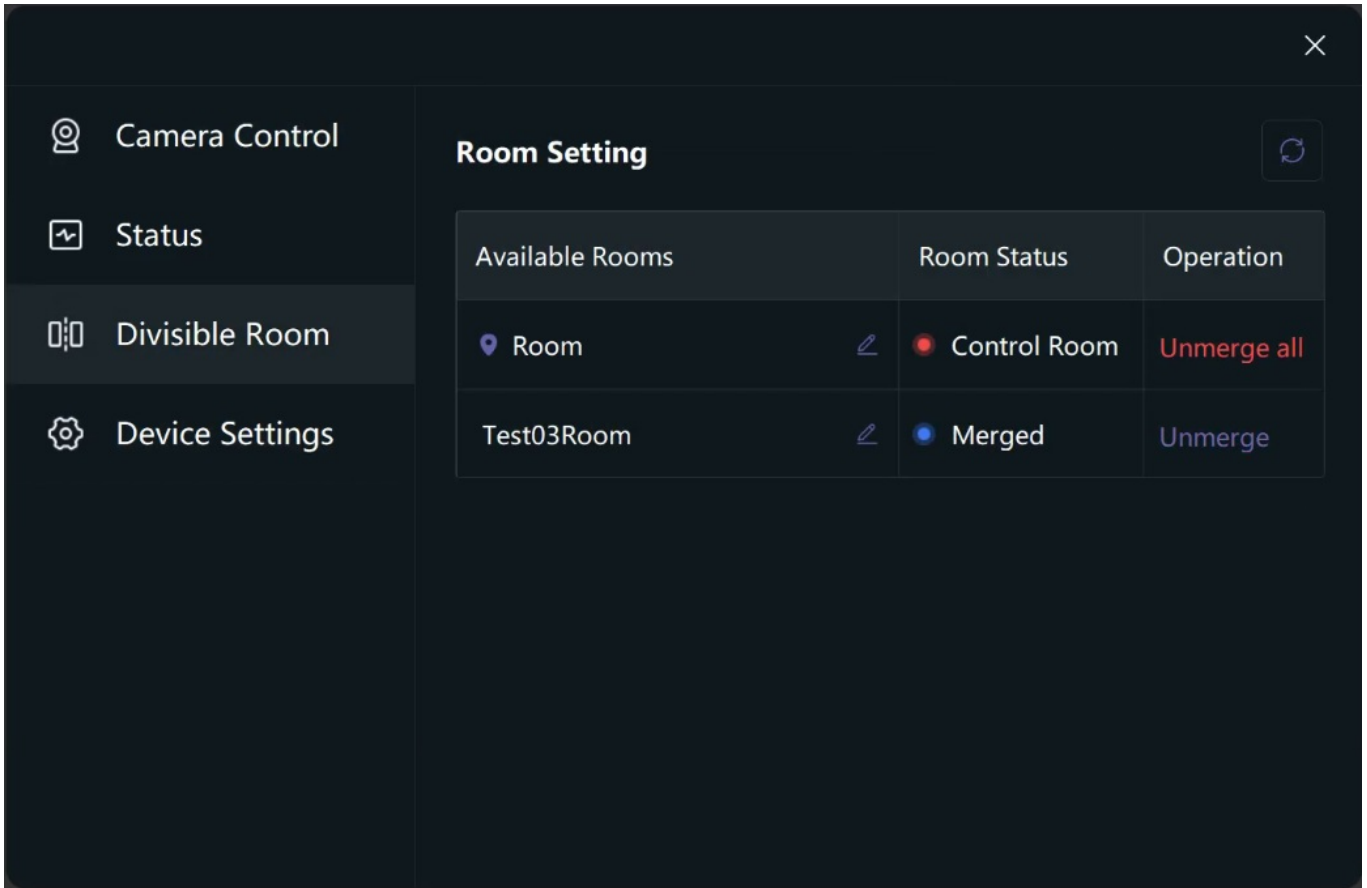
Method 2: Configure Under Skype Mode

1. On the Yealink MTouch Touch Panel of the control room, switch to Skype account mode, go to **Room Control** > **Divide Meeting Rooms**, and enter the admin password (default: admin). When meeting rooms are not merged, the MVC system operates independently. Click **Merge**, and the peripherals under the Yealink AVHub of the corresponding meeting room will disconnect and restart.
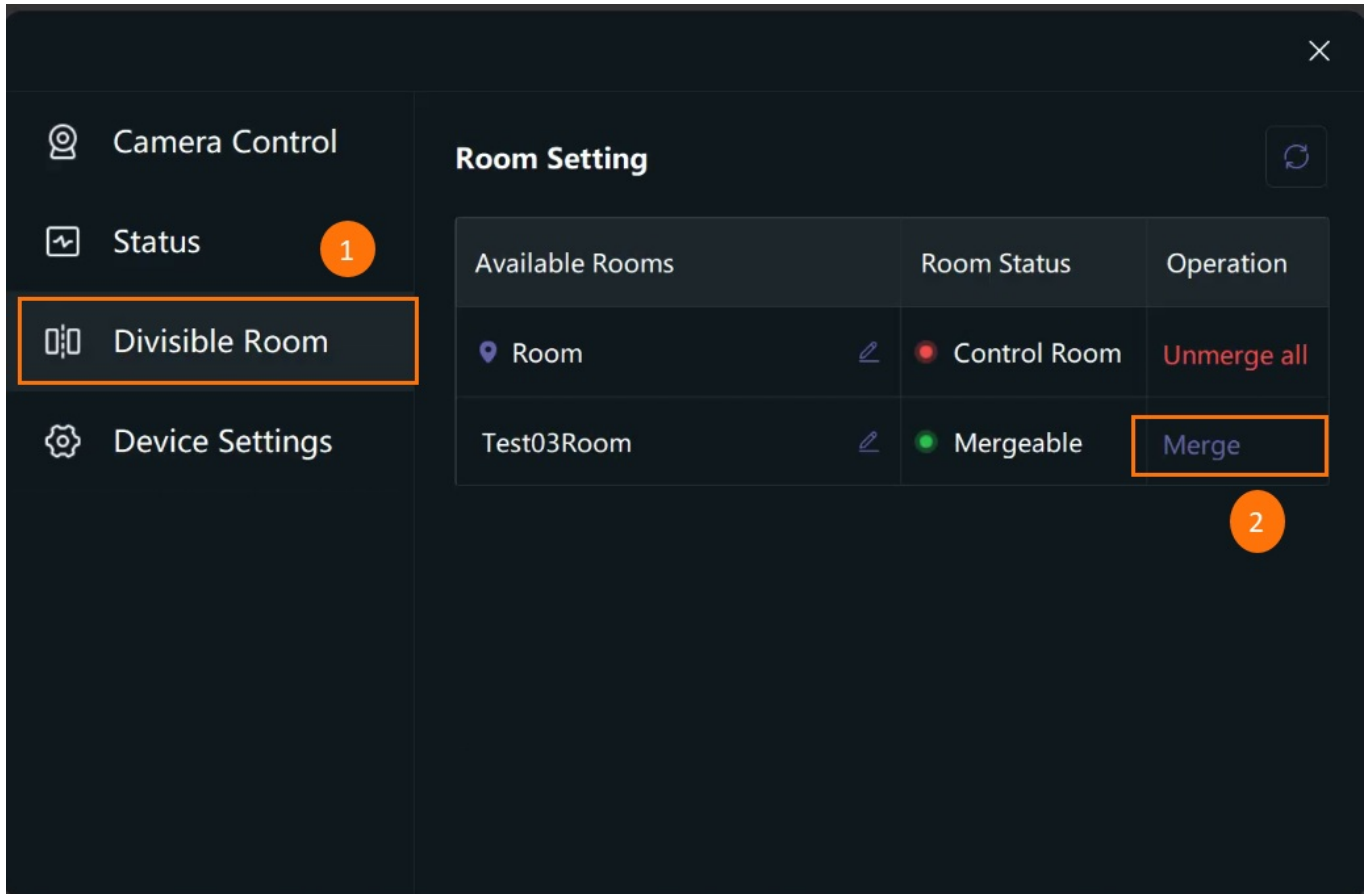
> ⓘ **NOTE**
> 1. Before proceeding with the meeting room merge operation, ensure that all meeting rooms participating in the merge have enabled the Divisible Meeting Room feature.
> 2. The merged meeting rooms must be added to the room settings list in Yealink RoomConnect. For specific setup methods, please refer to setting up via YRC

2. After the peripherals in the merged rooms have successfully restarted, the Yealink AVHub of the merged room will automatically reconnect. If you switch to Yealink RoomConnect at this point, you can see that the Yealink AVHub in the merged room is being used as a switch with a bound audio-video device count of 0. The Yealink AVHub in the control room binds all audio-video devices, and the YRC display is the same as when set up through YRC. In Skype mode, the divisible room interface will also refresh to the merged state, and you can directly view each room's roles and current status.
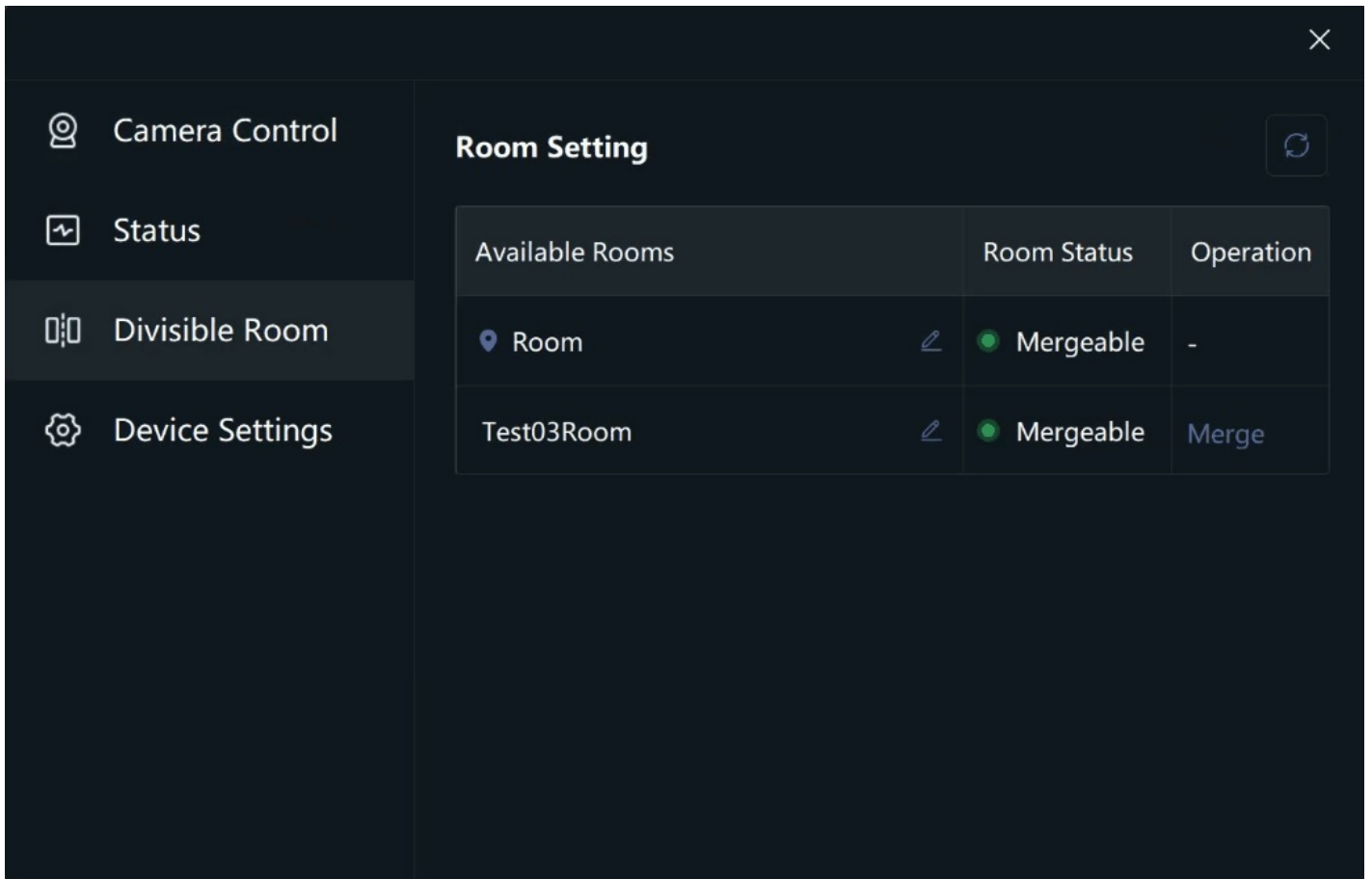

The interface of a divisible room of the merged rooms is locked and cannot be operated.

Rename Room Name

You can customize the name of the meeting room for better management. Click the edit icon to rename it. Once modified, the displayed name in the interface of the merged rooms will automatically update. Here are the steps:

Exit the Divisible Room Mode

Method 1: exit via Yealink RoomConnect.

1. Click **Divisible Room** of the Yealink AVHub in the control room.

2. Click **Unmerge**.

3. Confirm the action by clicking Confirm.

Method 2: exit via Skype.

1. On the Yealink MTouch Touch Panel of the control room, switch to Skype account mode.

2. Go to **Room Control** > **Divide Meeting Rooms**, and enter the admin password (default: admin). When meeting rooms are not merged, the MVC system operates independently.

3. Click **Unmerge**, and a confirmation dialog will appear.

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4. Confirm the action by clicking **Confirm**. The peripherals under the Yealink AVHub of the corresponding meeting room will disconnect and restart.
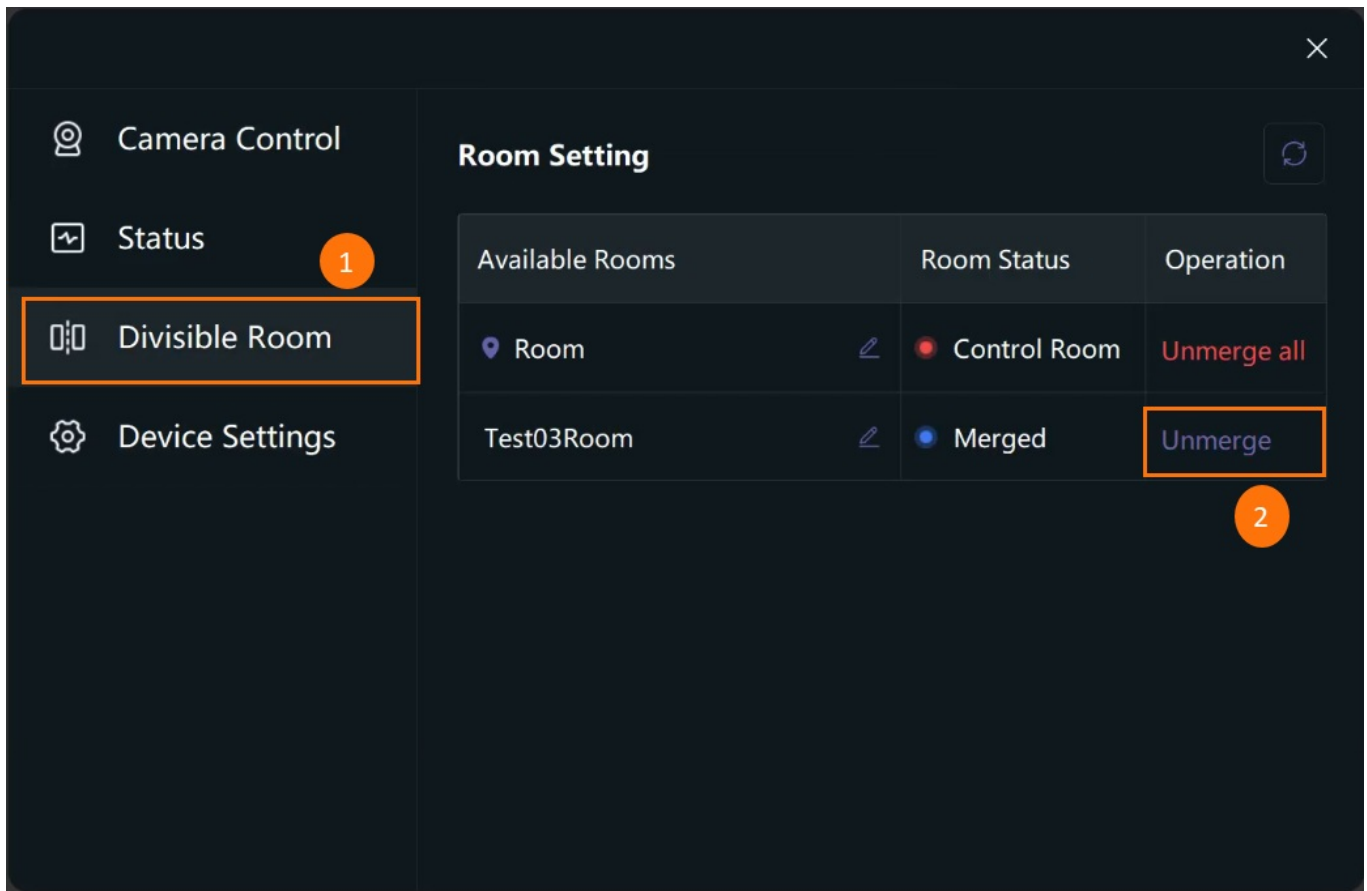
Modify Password

To modify the manager password in Skype mode while using the divisible feature, follow these steps:

1. Click the settings icon ⚙ on Yealink RoomConnect (YRC), .

2. Select **Advanced Settings** > **Set Manager Password** > **Modify Password**.

Attention

1. When Yealink AVHubs is connected to the same switch and has already selected a room as the control room, other rooms can only choose to be merged or split. In other words, only one control room can be under the same switch.
2. Room statuses include mergeable, control room, merged, and offline. Offline rooms cannot undergo room merging or splitting operations.
3. If the control room's host is restored to factory settings or the split room function is disabled, the merge will be dissolved directly. If the host of the merged room is restored to factory settings or the split room function is disabled, it will detach itself from the merge.
4. Restarting the host, power outages, or network fluctuations in the control room will not affect the statuses of other rooms.