

V520D-AMX100 linkage solution

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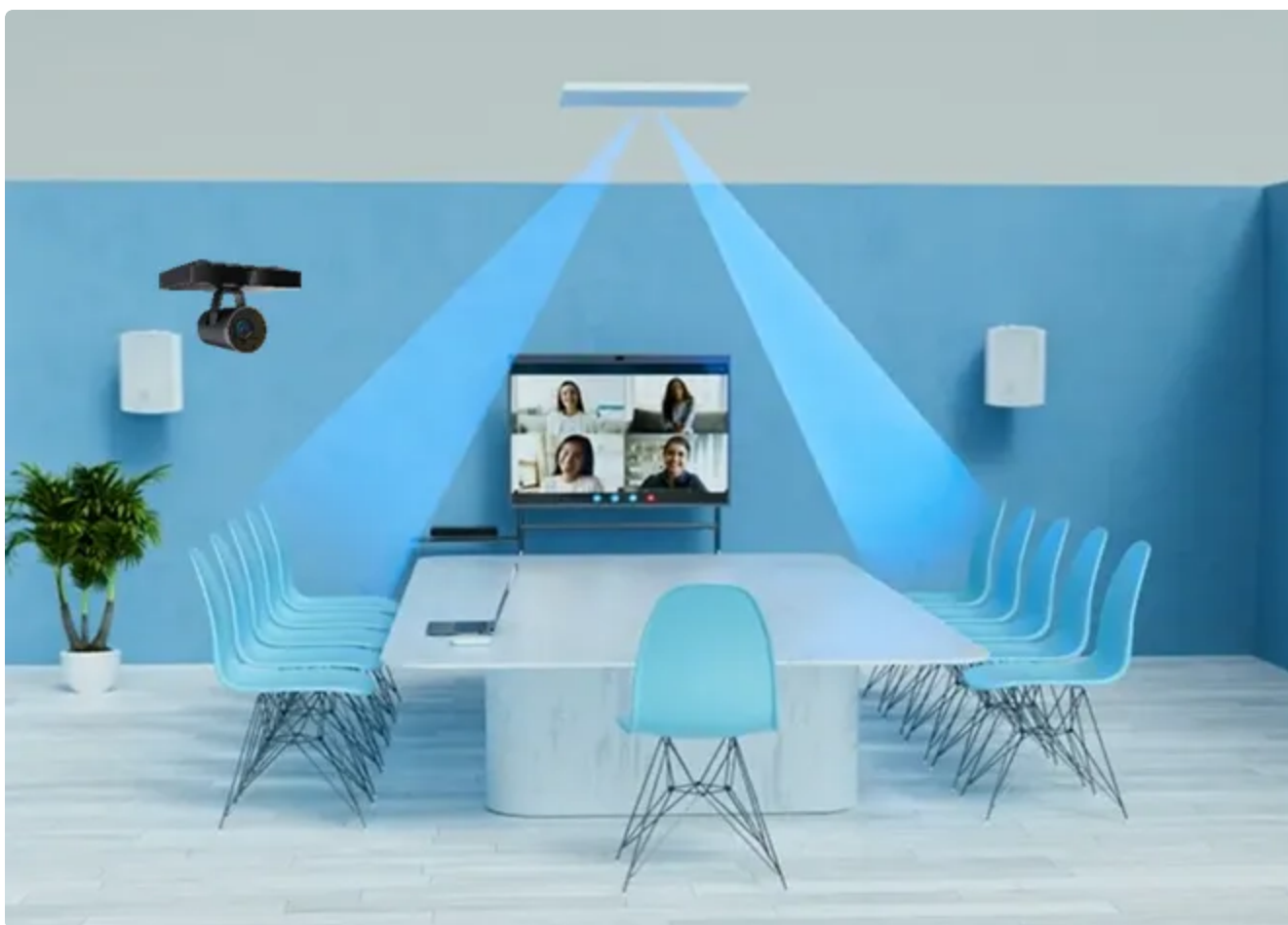
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Introduction

Beams Position Alignment with V520D

There typically include a single intelligent camera placed in the meeting room that tracks everyone at the table at once. The limitation of the camera hardware and the larger distance from each person to the camera often makes it hard to tell who is speaking or to catch facial expressions.

Now the microphone-based camera tracking system can solve this problem. These systems receive data from the audio system that indicates where the talker is in the room, which allows the camera system to show a group of people or even an individual.

Modes: Supports 1 to n; n to n; n to 1

Deployment with ceilingmic A50

Firmware

Make sure that the firmware of V520D, AMX100, A50 should be correct version.

Update in Nearsync online or use the firmware in this link:

https://drive.google.com/drive/folders/1_qaVN9qNMEK78VzVKso9xetTvneAgfhU?usp=drive_link

AMX100 / Device Info



Device Name: **AMX100**

Device Type: **Mixer**

Firmware Version: **1.1.4.230809.1.1**

Serial Number: **AW36YCAB899A000776**



Device Name: **A50**

Device Type: **Array Microphone**

Firmware Version: **1.1.0.230825.1.1.V1.0.0.2.R.230825.02.05.**

Serial Number: **AW31YCAB899A000491**

V520D / Device Info



Device Name: **V520D**

Device Type: **Camera**

Firmware Version: **V1.100.1.1.R.230922**

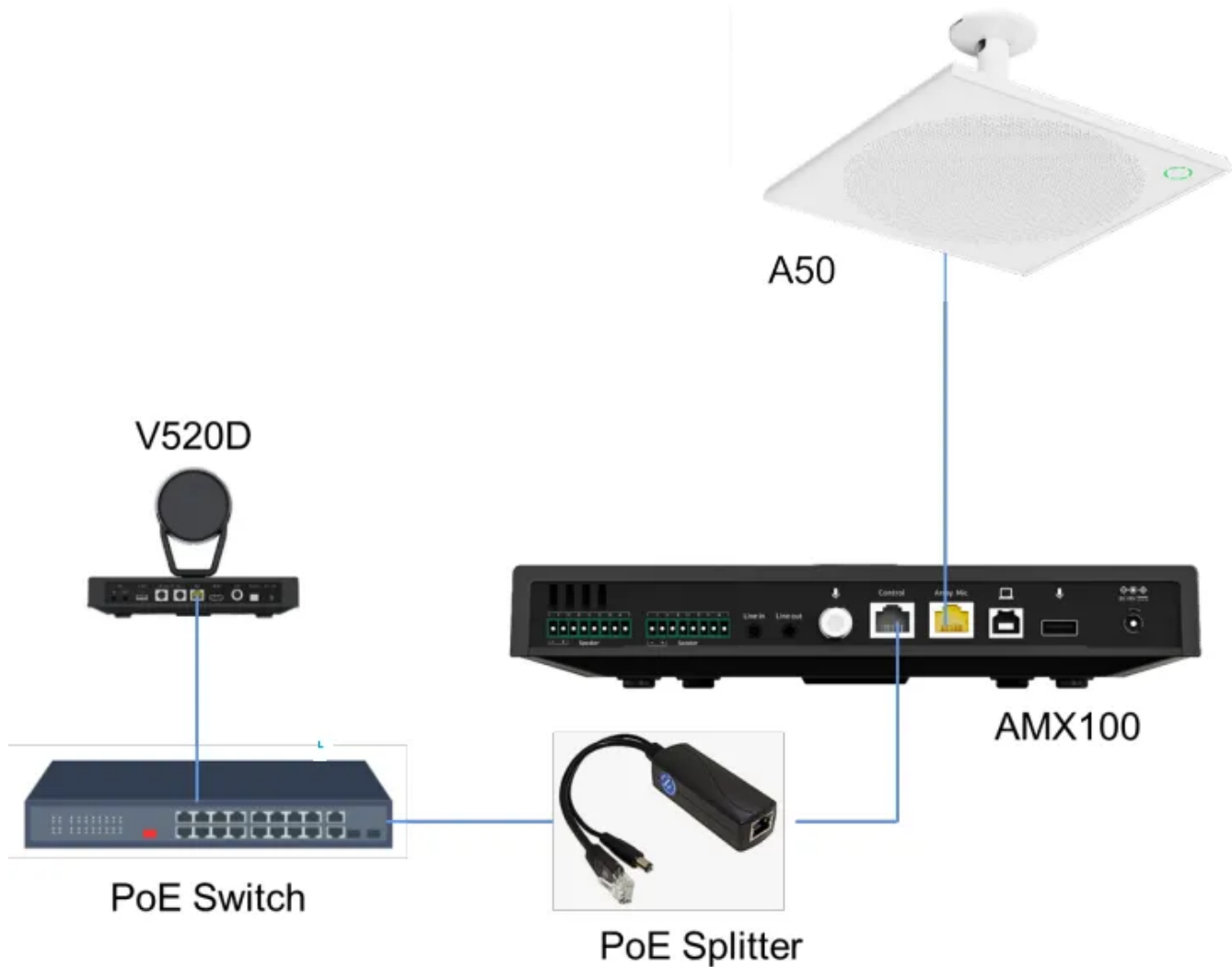
Serial Number: **AW27MRAB88B9F000477**

Connection

a, Single V520D connect to AMX100.



b, Multiple V520D connect to AMX100 via switch or router.



c, Use Nearsync to set the IP of V520D and AMX100 (in the same segment).

The default IP: V520D-192.168.0.203; AMX100-192.168.0.201

d, When use the Nearsync to do the configuration. Both V520D and the AMX100 should connect the PC via USB cable simultaneous.

Note: The control network port of the AMX100 **cannot be directly connected to a switch**, and it is necessary to purchase a PoE splitter(or separator) to ensure that the equipment is not damaged.

You can purchase a PoE splitter similar to this one:

https://www.amazon.com/Splitter-Cable-1000-802-3af-meters/dp/B077982XCS/ref=d_m_crc_dp_lf_d_t1_sccl_2_4/140-6544463-2040945?pd_rd_w=W2uq4&content-id=amzn1.sym.76a0b561-a7b4-41dc-9467-a85a2fa27c1c&pf_rd_p=76a0b561-a7b4-41dc-9467-a85a2fa27c1c&pf_rd_r=SPH8BB92DNEG9PBJCT4V&pd_rd_wg=heB2Q&pd_rd_r=7c0bc55d-f402-44a2-8370-f3ff1cec8c51&pd_rd_i=B097JGFPJF&th=1



How to use the POE Splitter:

The network cable end connect to the switch

The RJ45 port connect to AMX100 control port



Set V520D

a, Set V520D to Manual Mode. Use remote control to set presets of the camera.

Preset-Number*-OK

(*Number-1,2,3,4...9;if set 10 or more, use two or three digits, like 1 and 0; max support setting 255 presets.)

When setting the preset position, try not to set the zoom too large, and the screen ratio is best to include the upper body of the person

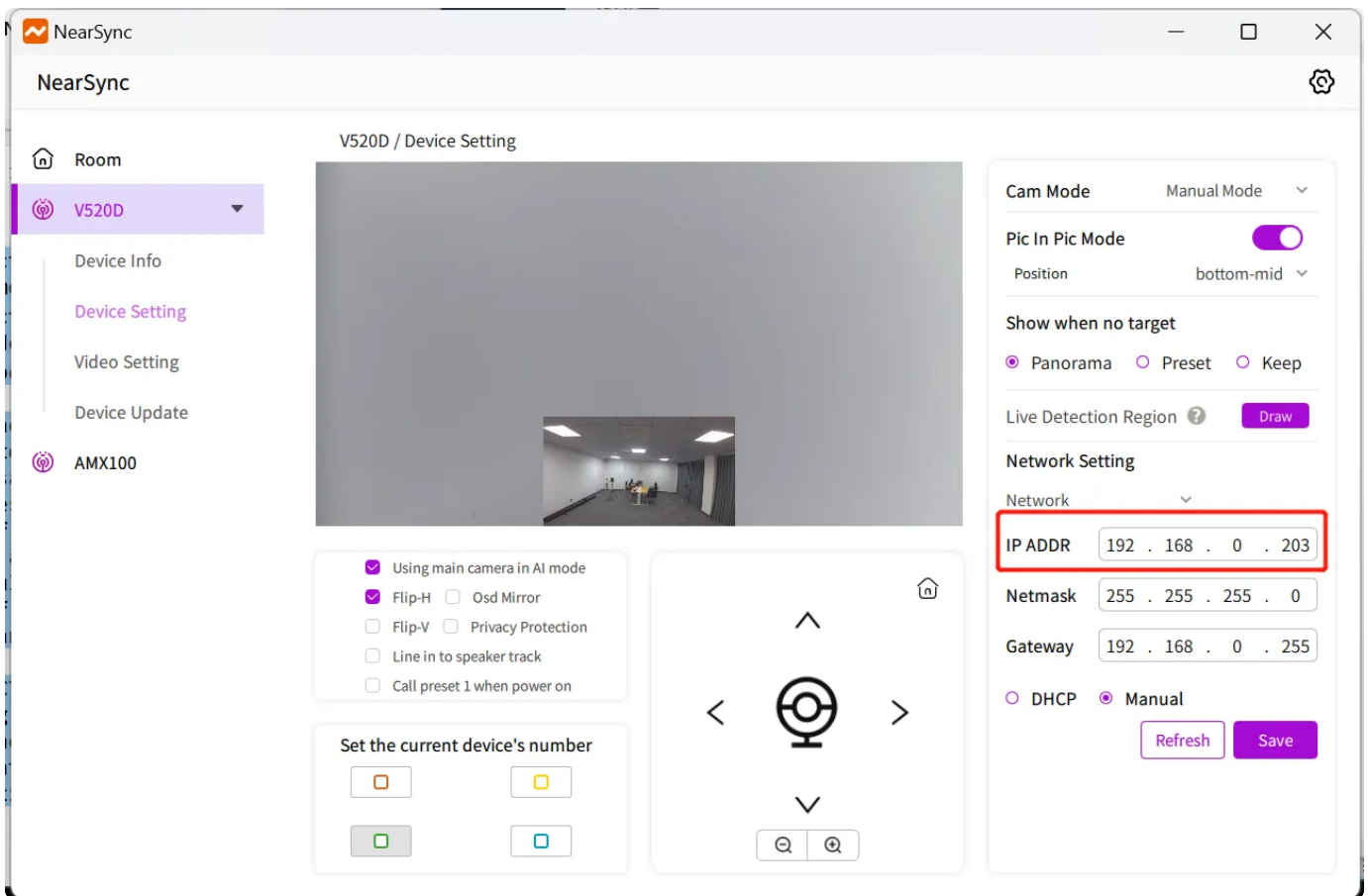
b, Switch V520D to Speaker Tracking Mode

c, Set V520D IP address(same segment with AMX100)

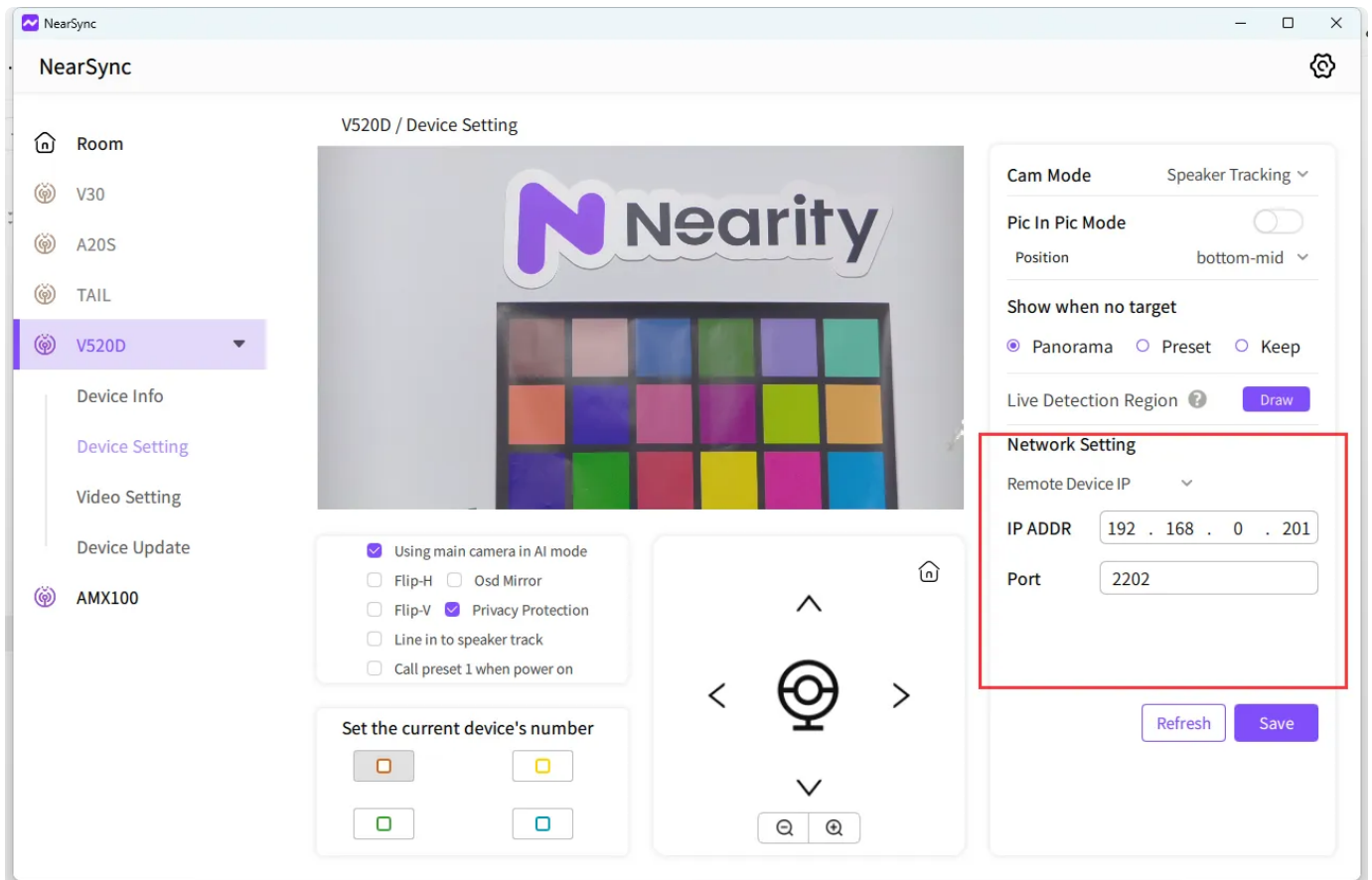
Nearsync Operation

a, Select "Device Setting" to enter the setting page and set the IP of V520D and AMX100 (in the same segment).

The default IP: V520D-192.168.0.203; AMX100-192.168.0.201



Set AMX100 IP under the remote device IP



NearSync

NearSync

Room

V520D

AMX100

Device Info


Device Setting

Audio Setting

Device Update


AMX100 / Device Setting

AMX100 A50-1



Preset Link Matrix [Go To](#)

Speaker Group Config 4ohm 8ohm



group1 volume 0

group2 volume 0

group3 volume 0

group4 volume 10

Network Setting

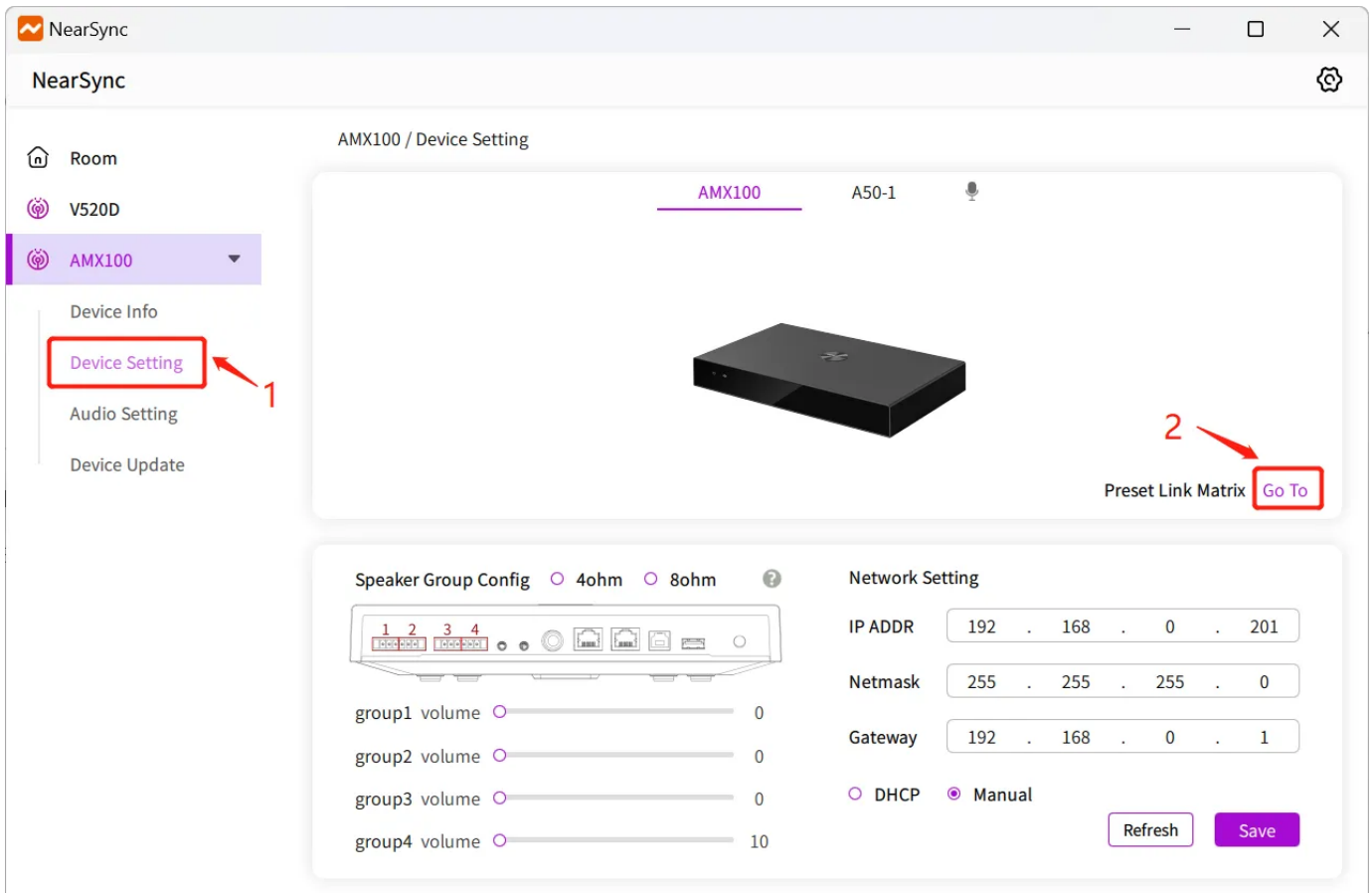
IP ADDR

Netmask

Gateway

DHCP Manual

b, Find the "Preset Link Matrix Go To" on the right side and click on "Go To"



c, Enter preset number in the "V520D" column

DOA: This is to use the DOA function of the V520D, namely the A50 system will provide the area to guide which V520D should track. When deploy several units of V520D, we enable the DOA function. When use single V520D, disable this function.

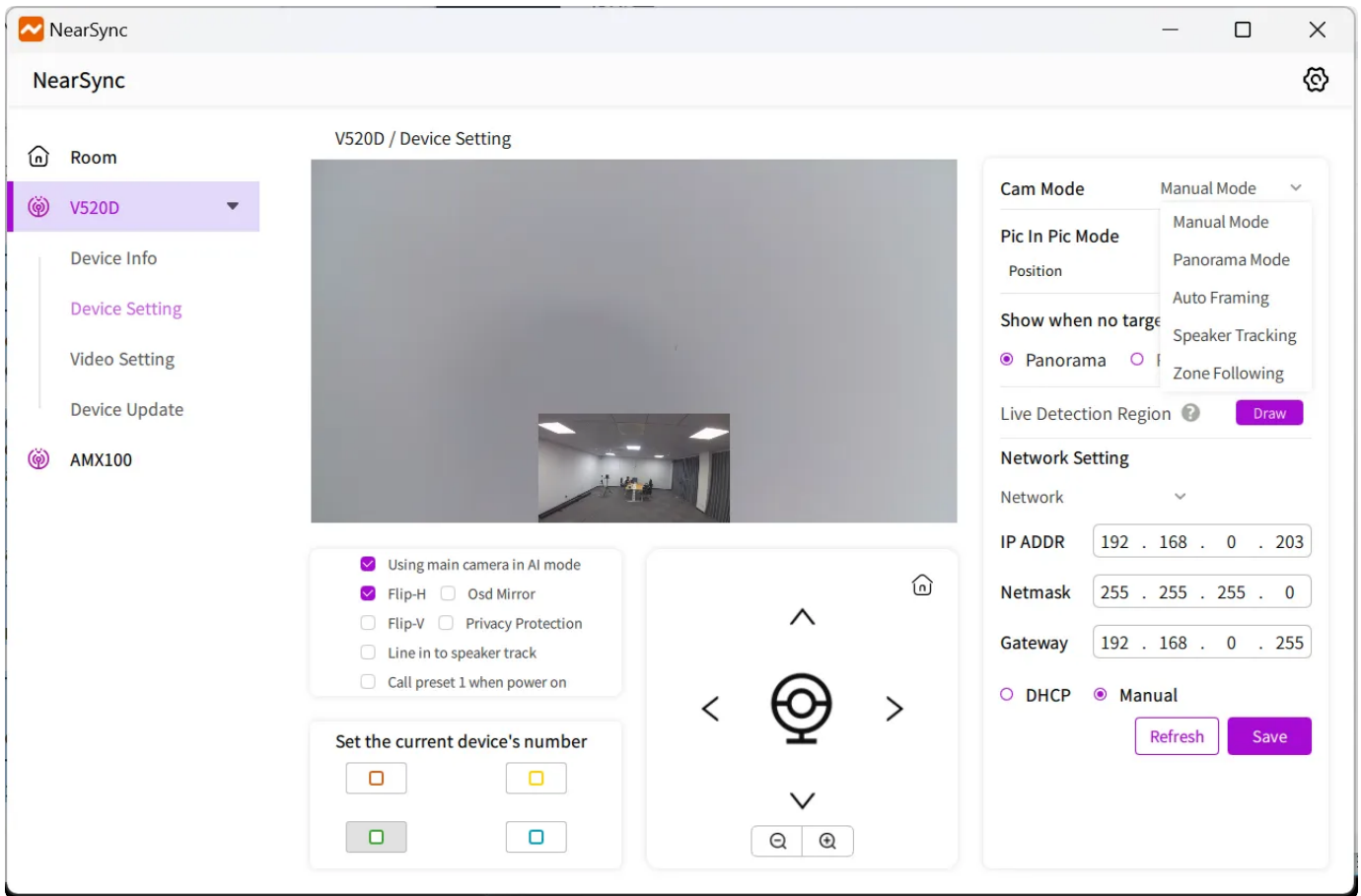
When we use the Presets link with A50/A40, disable the DOA.

Preset Link Matrix

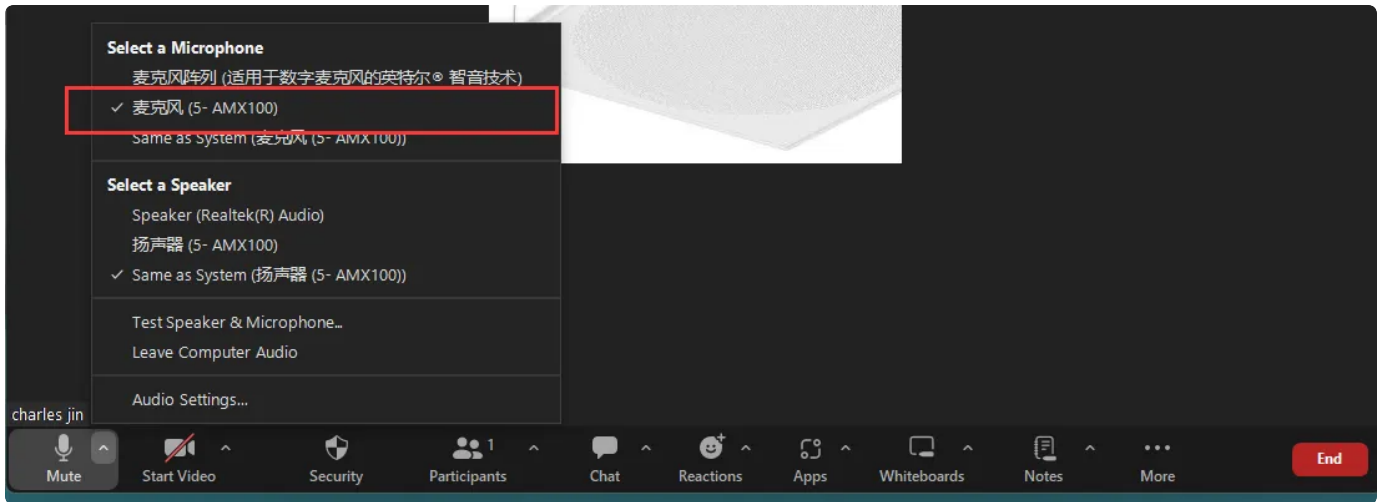
Audio Device/Video Device		V520D AW27MRAB8B9F000344 DOA <input checked="" type="checkbox"/>
A50-1 AW31YCA8899A000455	Beam-1	Enter A Preset
	Beam-2	
	Beam-3	
	Beam-4	
	Beam-5	
	Beam-6	
	Beam-7	
	Beam-8	
	Beam-9	
	Beam-10	
	Beam-11	
	Beam-12	
A50-2 AW31YCA989A0M0401	Beam-1	1
	Beam-2	1
	Beam-3	1
	Beam-4	1
	Beam-5	1
	Beam-6	1
	Beam-7	
	Beam-8	

Undo Save

d, Switch V520D to Speaker Tracking Mode



e, Start a meeting by AMX100 audio.



Precautions

1. The beam direction of the A40/50 must be consistent with the set V520D preset lens direction, (as shown in Figure 1): Beam 1 corresponds to preset 1, and so on. Try to set more than 11 positions of the V520D, so that when we are trying to find the beams direction, we can select the best position

of the corresponding beam (The beam of the A50 device is not regularly distributed as in the figure, and it is necessary to find the best beam angle according to the site situation)

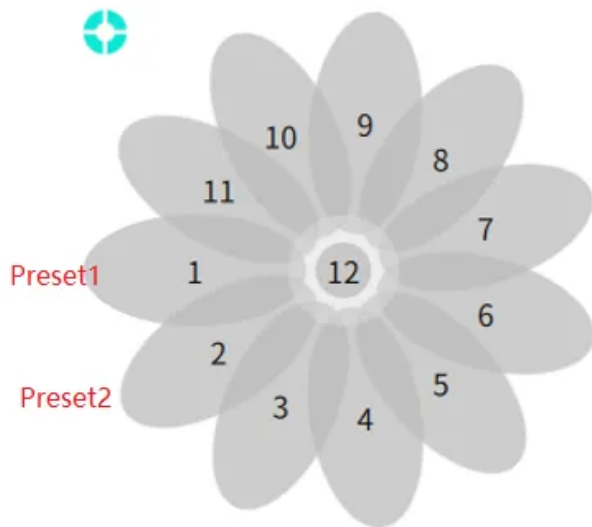


Figure 1

2. The best usage scenario is that A40/50 and V520D are in the same vertical position. The top is A40/50, and the bottom is V520D (as shown in Figure 2). If they are not in the same vertical position, but in different directions, you must pay attention to the corresponding position of the

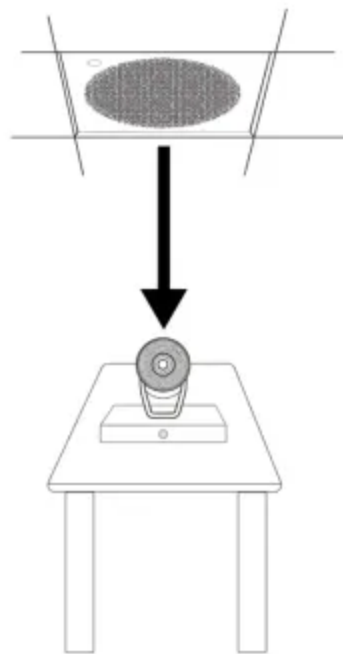


Figure 2

preset lens direction and beam

3. If a few people use this function, you can turn off unnecessary beams in NearSync, such as

a, multiple people in different positions can be set (Figure 3)

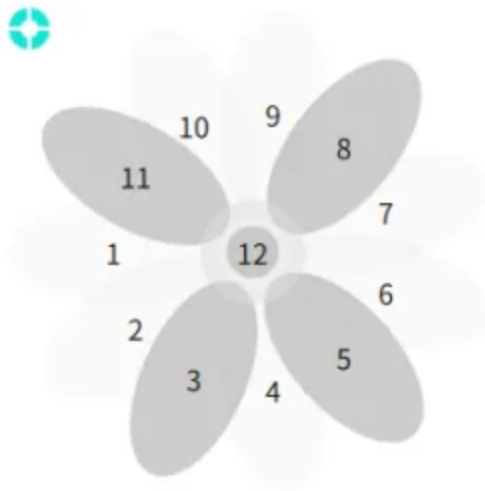


Figure 3

b. If multiple people are in one direction, it can be set in the following way (Figure 4), and the preset position can be set to one of 1, 2, and 11.

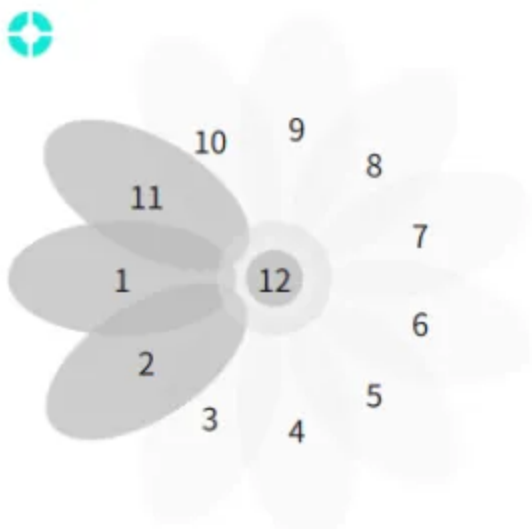


Figure 4

4. ACT10 cannot connect the POE switch, namely the ACT10 will be useless while we are using V520D tracking linkage.
5. When use AM10P and A50 simultaneously, should switch the USB-B output mode to Priority mode. and the version of the firmware:
https://drive.google.com/drive/folders/1_qaVN9qNMEK78VzVKso9xetTvneAgfhU?usp=drive_link
6. The linkage between V520D and AM10P, A50/A40 supports n-to-n. When deploying, pay attention to the correspondence between the preset positions of each camera and the position of the microphones (beams)

7. When use multiple V520Ds to do the linkage, should use the Nearhub Rooms. Connection like this.

