

Qnex NMP Divisible Classroom User Manual

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NMP Divisible Classroom



Divisible Classroom -User Manual-

Website: www.qnextech.com

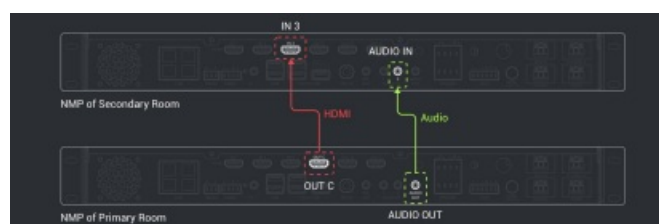
Email: info@qnextech.com

1. NMP Connection for Divisible Classroom

1.1. One Primary Classroom &One Secondary Classroom

Install one set of NMP and Touch Panel respectively in the primary classroom and secondary room, make sure Touch Panel is powered on and connected to the network. .

Connect Displays and speakers to each NMP, and make sure that “HDMI OUT C” and “Audio OUT” on Primary NMP, and “HDMI IN 3” and “Audio IN 2” on Secondary NMP are SPARE for Divisible Classroom connection, as Pic 1.1-1 shown.



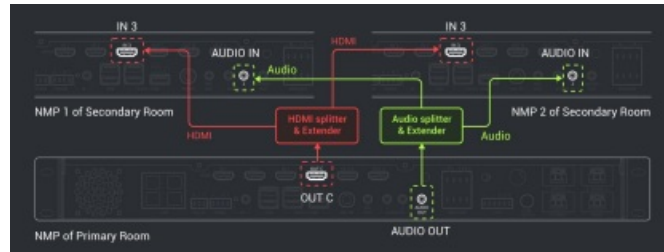
Pic 1.1-1

1.2. One Primary Classroom &Multiple Secondary Classroom

Install NMPs and Touch Panels as indicated on 1.1.

Connect Displays and speakers to each NMP, and make sure that “HDMI OUT C” and “Audio OUT” on primary NMP, and “HDMI IN 3” and “Audio IN 2” on secondary NMPs are SPARE for Divisible Classroom connection.

For multiple secondary rooms, please prepare HDMI splitter & Extender and Audiosplitter & Extender for AV distribution, as shown in Pic 1.2-1.

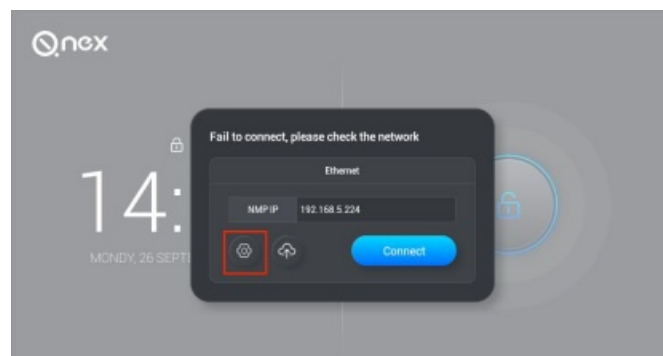


Pic 1.2-1

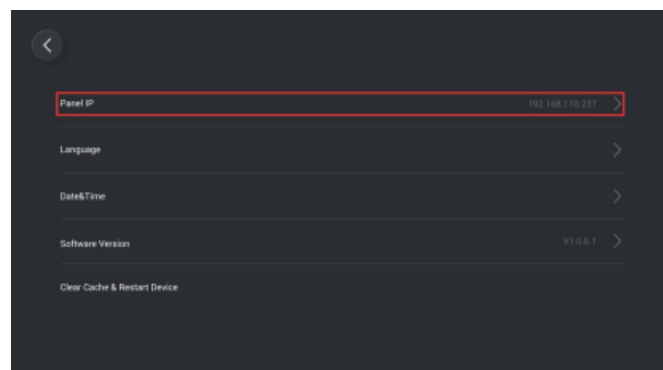
2. The Static IP Setting of Touch Panel

2.1. Set Up the Static IP of Touch Panel

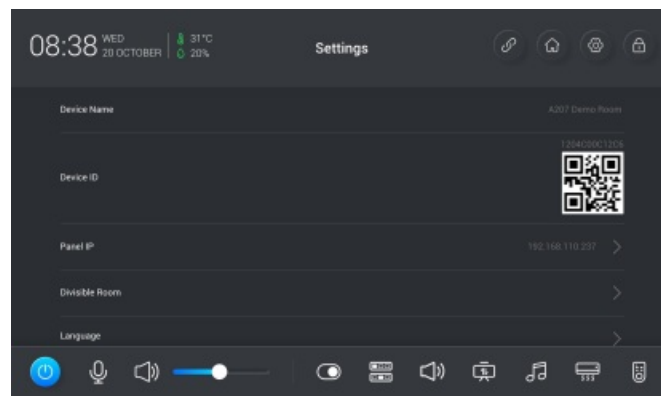
Power on Touch Panel, enter the setting from login page (as shown in Pic 2.1-1, 2.1-2) or directly enter the “Setting” page (as shown in Pic 2.1-3) and select the Ethernet IP mode as “static” (as shown in Pic 2.1-4, 2.1-5).



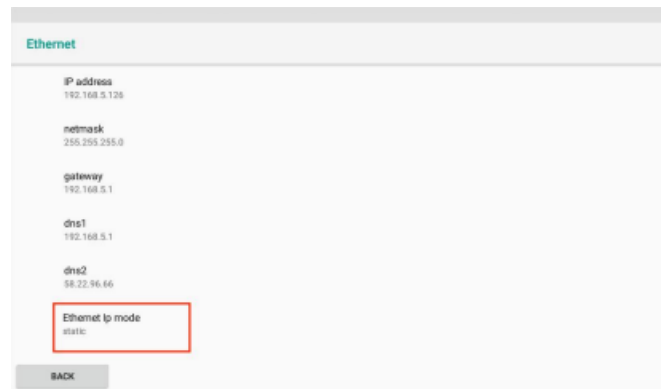
Pic 2.1-1



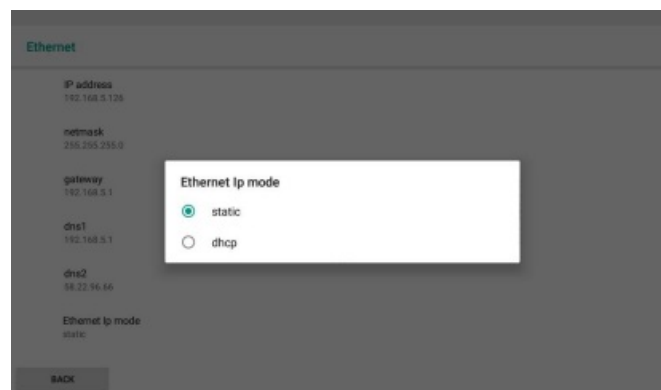
Pic 2.1-1



Pic 2.1-3




Pic 2.1-4

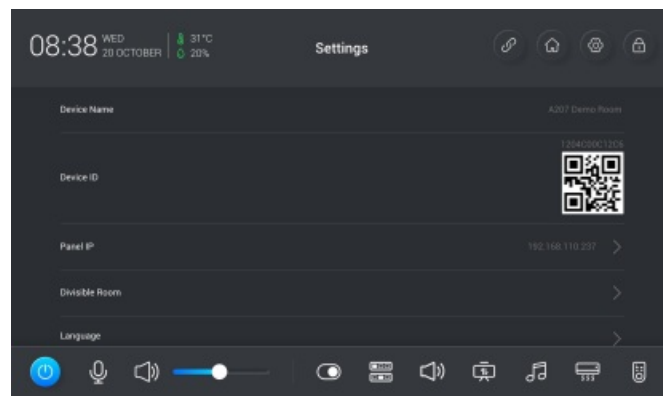


Pic 2.1-5

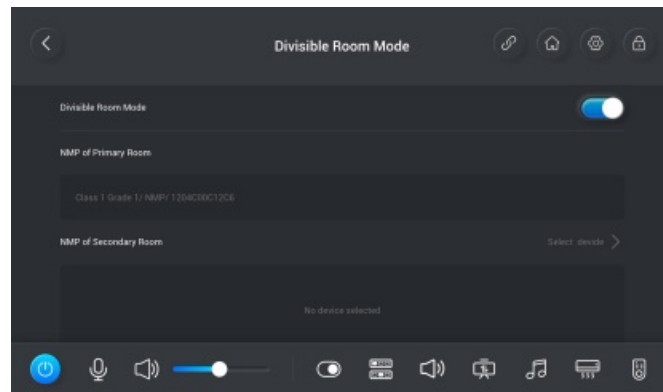
3. The Instruction on Divisible Classroom Mode

3.1. Entering Divisible Classroom Mode

Click  to enter the setting page (as shown in Pic 3.1-1). And click Divisible Classroom to enter Divisible Classroom setting (as shown in Pic 3.1-2).




Pic 3.1-1

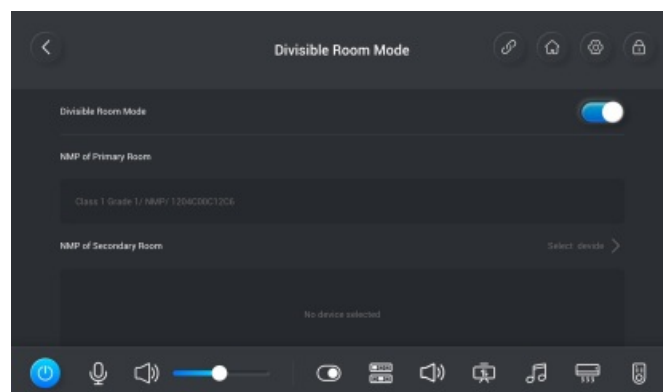


Pic 3.1-2

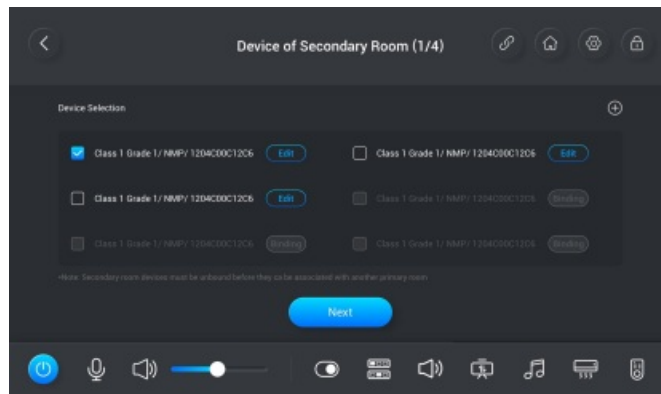
3.2. Select Devices of Secondary Classroom

3.2-1 Touch Panel is connected to the Internet (as  the icon shown).

Tick to select the devices of secondary room that you need to bind, and click “Next” (as shown in Pic 3.2-1, 3.2-2).



Pic 3.2-1



Pic 3.2-2

3.2-2 Touch Panel is not connected to the Internet (as the icon shown).

Add the devices of the secondary room manually: Click the icon in upper right corner on the page of device selection, and input the device information to add newdevice(as shown in Pic 3.2-3, 3.2-4).

Pic 3.2-3

Pic 3.2-4

3.3. Edit Device Information of Secondary Classroom

If you want to modify the device information, click “Edit” icon to modify it (as shown in Pic 3.3-1).

Pic 3.3-1

3.4. The NMP Connection Instruction Between Primary Classroom and Secondary Classroom

After selecting secondary room devices, click the “Next” button to enter the “ConnectionInstruction” page. Confirm the installation method and connect the NMPs in the primary classroom and secondary room according to the diagram.

- The installation of one primary classroom binding single secondary room is shown in Pic 3.4-1.
- The installation of one primary classroom binding multiple secondary rooms is shown in Pic 3.4-2.

Pic 3.4-1

Pic 3.4-2

3.5. Testing of Divisible Classroom Mode

Please ensure that the installation is correct and the input source is connected during the testing. Enter the testing, check if the network connection between the primary classroom and secondary room is successful, and if the NMP of the primary classroom is successfully switched to the HDMI OUT C (as shown in Pic 3.5-1). After the detection is successful, entering the next page (as shown in Pic 3.5-2), and following the tips to confirm whether the audio and video content of the primary classroom is synchronized to the AV equipment in the secondary room.

Pic 3.5-1

Pic 3.5-2

If the testing fails, please go back to the previous step to check if the connection between HDMI and Audio interface is correct, or click FAQ in the upper right corner to view common problems. If it is still not resolved, please contact the local agent or manufacturer at the email of info@qxnetech.com (as shown in Pic 3.5-3, 3.5-4).

Pic 3.5-3

Pic 3.5-4

3.6. Divisible Classroom Testing Complete

After the testing is successful, click “Complete” button and the page will pop up the tips “Are you sure to enable Divisible Classroom now?” (As shown in Pic 3.6-1).

Pic 3.6-1

Click “Execute Now” to enable Divisible Classroom right now. Click “Later”, the system will auto-save the setting. You don’t have to select the devices of secondary room and test again next time, and it can be one-click to enable automatically. As shown in Pic 3.6-2:

Pic 3.6-2

3.7. Quit Divisible Classroom Mode

If you want to quit the Divisible Classroom Mode, you can click “Divisible Classroom” status bar at the top of Touch Panel to quit, or turn off the switch on Divisible Classroom setting page.

As shown in Pic 3.7-1, Pic 3.7-2, Pic 3.7-3.

(Note: Only the Touch Panel of the primary classroom can quit Divisible Classroom Mode.) Pic 3.7-1

Pic 3.7-2

Pic 3.7-3

3.8. Enable Divisible Classroom

If you want to enable Divisible Classroom, turn on Divisible Classroom on Setting page. As shown in Pic 3.8-1:

Pic 3.8-1

4. (Optional) Partition Sensor Installation

4.1. Partition Sensor Introduction

The partition sensor (optional) is a limit switch (as shown in Pic 4.1-1). It is designed with an adjustable arm. Install the sensor in a proper place and adjust the triggering method of the arm according to the situation on site.

Pic 4.1-1

4.2 Connection diagram between Primary NMP and Secondary NMP

Primary NMP

Secondary NMP

Connection Tips:

Primary NMP's HDMI OUT C —> to Secondary NMP's HDMI IN 3 Primary NMP's AUDIO OUT —> to Secondary NMP's AUDIO IN 2 Door sensor —>to Secondary NMP's "LOCK" port

4.3 Door Sensor connection:

4.3-1 Connect "NO" pins to Secondary NMP

Connect the pair of "NO" (Normal Open) pins in the door sensor respectively to '-' pin and 'D' pin on the NMP's "LOCK" port. No need to differentiate the polarity.

1. Triggered status, "-" and "D" in short circuit, go into Divisible Classroom Mode
2. Not triggered status, "-" and "D" in open circuit, quit Divisible Classroom Mode

4.3-2 Connect "NC" pins to Secondary NMP

Connect the pair of "NC" (Normal Close) pins in the door sensor respectively to '-' pin and 'D' pin on the NMP's "LOCK" port. No need to differentiate the polarity.

1. Triggered status, "-" and "D" in open circuit,

quit Divisible Classroom Mode

2. Not triggered status, "-" and "D" in short circuit, go into Divisible Classroom Mode

When the 2 pins "-" and "D" is short-circuited on secondary NMP, it will GO INTO Divisible Classroom Mode.

When the 2 pins "-" and "D" is open-circuited on secondary NMP, it will QUIT Divisible Classroom Mode.

Sensor Connection	Sensor Status	Status of “-”and “D” pins on	Into Divisible Classroom Mode NMP
NO (normal open) pins to NMP	unfolded	In open	circuit No
NO (normal open) pins to NMP	folded	In short circuit	Yes
NC (normal close) to NMP	pins unfolded	In short circuit	Yes
NC (normal close)to NMP	pins folded	In open	circuit No

Note:


When the solution quits Divisible Classroom Mode , both Primary NMP and Secondary NMP areas independent system at each classroom.

When the solution goes into Divisible Classroom Mode, Primary NMP will take over the control of Secondary NMP, and touch panel of Secondary NMP will be locked, you can not control Secondary NMP through its touch panel. The display and sound in the Secondary NMP will be automatically the same as in the Primary classroom.

Important:

Door sensor should be connected to Secondary NMP and have the sensor at triggered status before the NMP is powered on, by this way, the NMP can be detected as a Secondary one.

Documents / Resources

 Divisible Classroom -User Manual- View manual	Qnex NMP Divisible Classroom [pdf] User Manual NMP, Touch Panel, NMP Divisible Classroom, NMP, Divisible Classroom, Classroom
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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