



# Q-nex NMP211-G-CU Networked Media Processor User Guide

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## Q-nex NMP211-G-CU Networked Media Processor



## Product introduction

- The Q-NEX Networked Media Processor integrates the Ethernet connection into the device control system, allowing users to control the device remotely.
- It is mainly designed to assist the school's IT admin in managing various electronic facilities in a school and freeing teachers from the complicated operation of a multimedia classroom.

## Components of NMP



Networked Media Processor\*1



Wireless Mic\*1



Control Panel\*1



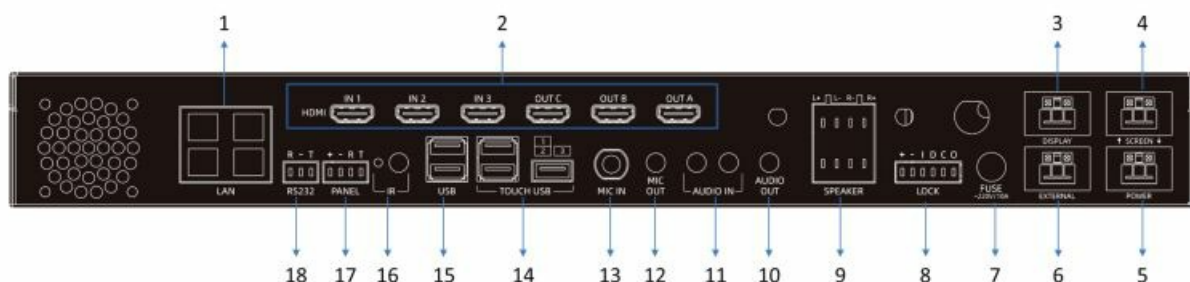
Touch Panel\*1 (Optional)

### NMP front view



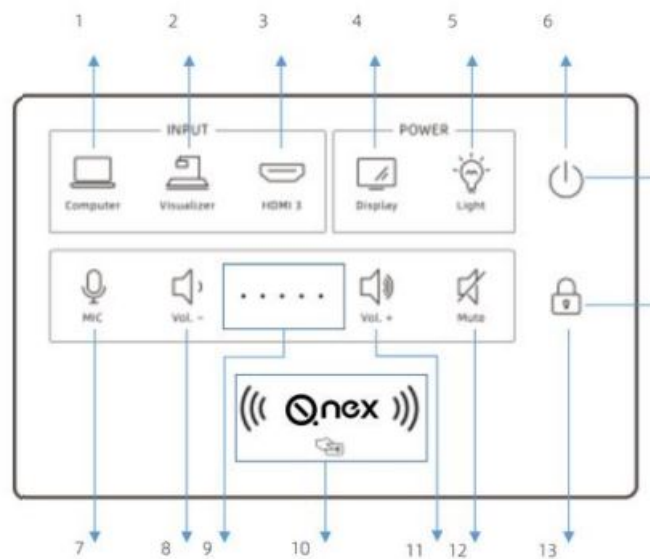
1. Wireless microphone channel
2. **RF**: wireless microphone radio frequency indicator
3. **DOWN**: switch channel down
4. **UP**: switch channel up
5. **AF**: wireless microphone audio frequency indicator
6. **POWER-VOL**: wireless microphone volume knob

### NMP rear view interfaces



1. RJ45
2. 3\* 3HDMI matrix
3. Display power supply
4. Electronic projection screen power supply
5. NMP power supply
6. External device Single pole double throw power relay
7. Power fuse
8. Electric lock control
9. External speaker output
10. Audio output
11. Audio input
12. Mic output
13. Mic input
14. Smart touch USB ports (1&2 for USB Host, 3 for USB Device)
15. USB2.0 ports
16. IR learner port
17. Control Panel connection
18. RS232

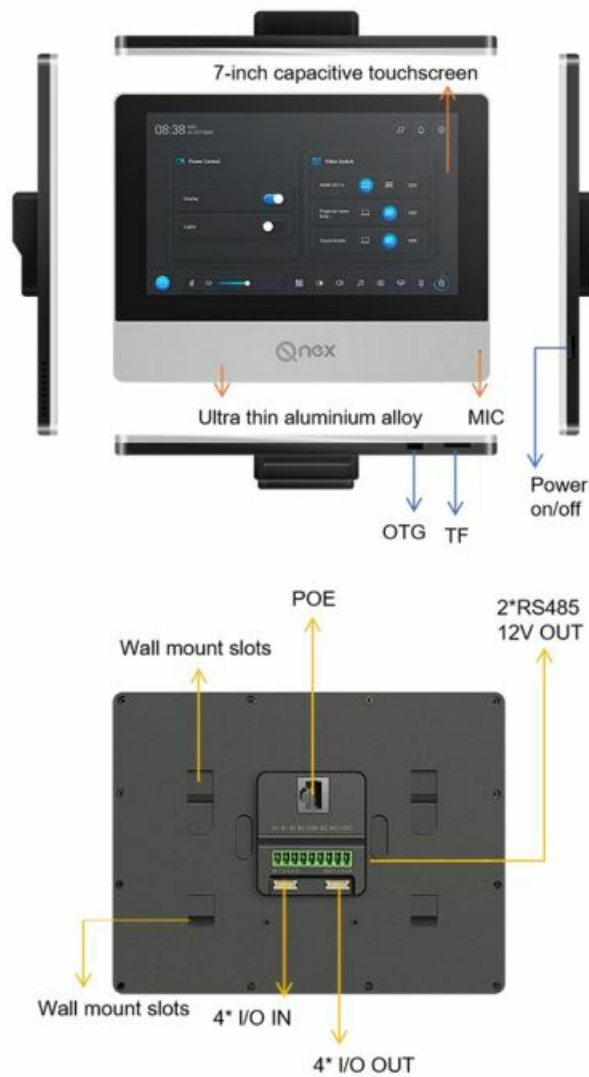
### Control panel features



1. **Computer:** indicator on means HDMI out AswitchedtoHDMI in 1, recommend PC as input.
2. **Visualizer:** indicator on means HDMI out AswitchedtoHDMI in 2, recommend visualizer as input
3. **HDMI 3:** indicator on means HDMI out AswitchedtoHDMI in 3
4. **Display:** indicator on means power on the connected Display
5. **Light:** indicator on means power on the connected, recommend light
6. **Main power:** The indicator in blue/red means power
7. **on/off MIC:** to control the volume of the mic when the indicator is, to control the volume of the speaker when the indicator is off
8. **VOL.-:** the indicator is on when the volume is downtotheleast

9. **VOL indicator light:** more indicators on as volume increases
10. **IC Card Area** tap the IC card to unlock the panel Power on NMP when it's off
11. **VOL.+:** The indicator is on when the volume is up to the max.
12. **Mute:** The indicator on means the speaker is mute
13. **Lock:** indicator on means the panel is locked.

### Touch panel features



### Handheld mic features



1. LCD screen

2. Power

- **a.** Press once to power on, long press to power off.
- **b.** When the handheld microphone is on, press the power button to switch to the next channel.
- **c.** When the handheld microphone is on, continuously click the power button three times to enter the pairing mode.

## Lapel mic features



1. Lapel mic port
2. Power button
3. Antenna
4. LCD screen
5. Volume Adjust
6. **Channel Pairing**: press three times to enter the pairing mode, the LCD screen displays IR—; press to switch channels

## Pairing Touch Panel with Wireless Mic

### 1. Pairing steps:

1. Power on microphone and enter pairing mode. For Handheld microphone: Press the power button 3 times to enter pairing mode



- For the Lapel microphone – press the round button 3 times to enter pairing mode



2. Then click on the touch Panel or swipe an IC card to turn on NMP, and the microphones will automatically pair with the receiver built in the NMP.



- When it is successfully paired, the indicator in front of NMP will turn green as below:



### • Note:

- Don't turn on Q-NEX NMP before setting the wireless microphones in pairing mode, otherwise, the pairing process will fail!
- Both handheld and lapel microphones are paired with NMP accordingly already before

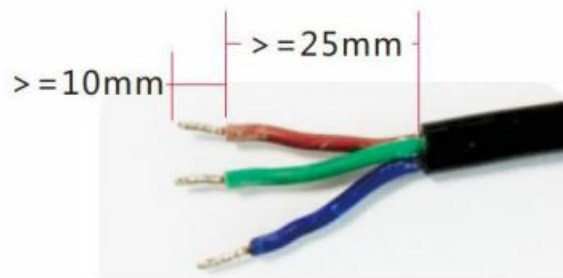
leaving the factory, so you DON'T have to pair them when it is FIRST TIME to unbox Q-NEX NMP

## Get ready before installation

1. Require an Admin account of Q-NEX Console from the Q-NEX team. Log in <https://mg.qnextech.com/>. and bind in NMP devices to a created virtual organization in the system for identification.

### 2. Prepare the power cable for power out of the Display:

1. Uncovered copper wire length  $\geq 10\text{mm}$
2. Wire cable with insulation paste  $\geq 25\text{mm}$
3. Tighten the single copper wire



3. Pry open the shrapnel inside the hole with a screwdriver, in the meantime, insert the thread. Release the screwdriver, the thread will be fastened inside the WAGO. At last, pull the wire to check if it is fixed tightly.

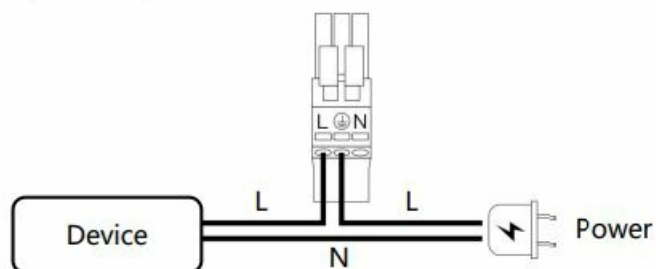
L—Fire Wire    ⊕—Groud Wire    N—Zero Wire



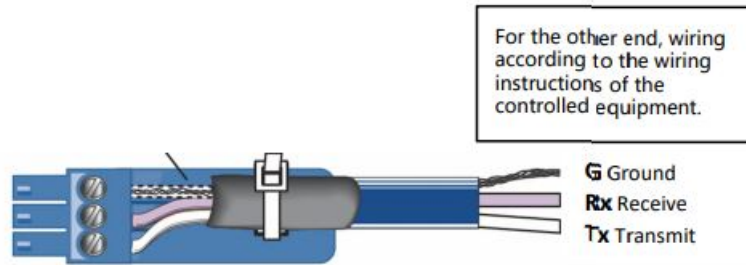
4. After placing the wires, use the Wire Protection Clip to fasten. Then put on the Shell Base and Shell Cover.



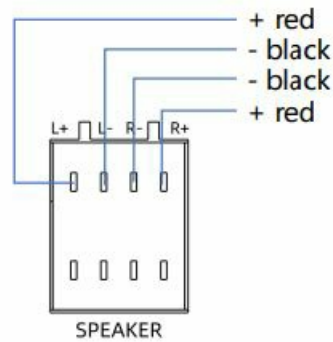
5. Prepare the power cable for SPDT switch of External:



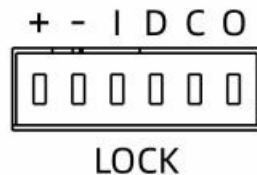
6. RS232 connection for projector:



## 7. 5 Speaker connection



## 8. Electric lock connection: Please connect the required interface according to your electronic lock type.

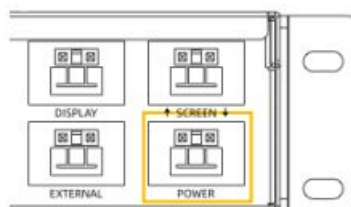


- **+**: Power output 12V800mA
- **-**: Power ground (negative level)
- **I**: Door switch interface
- **D**: Door lock status interface
- **C**: Relay common end, load capacity
- **DC3A/30VO**: Relay normally open, load capacity DC3A/30V

## Wiring and setup

Please follow the instructions below to connect the cables

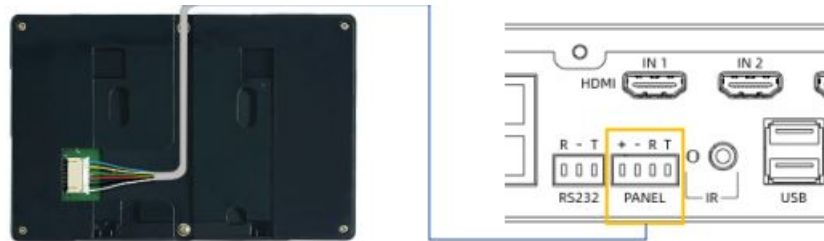
**Note:** Installation and repair should only be performed by authorized personnel. Connect the NMP power cable to "POWER IN".



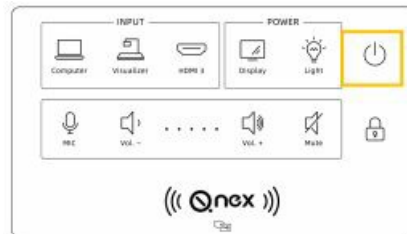
## For Control Panel

Connect the control panel to the NMP "PANEL" port:





If the power indicator on control panel is red, that shows the connection is well done. Now touch the main power button, the power indicator light turns in blue, which means it is booted successfully.



## For Touch Panel

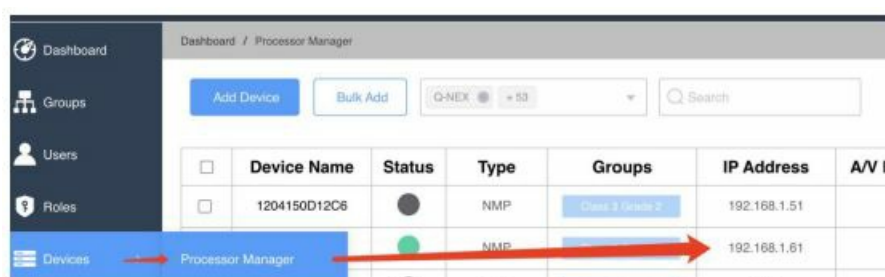
- Connect the Touch Panel to NMP by network cable, and power through a 12V adapter.
- Connect the Touch Panel and NMP to the same switch, and power the Touch Panel through a 12V adapter.
- Connect both Touch Panel and NMP to one PoE switch, then no power supply is required for Touch Panel.

## Note:

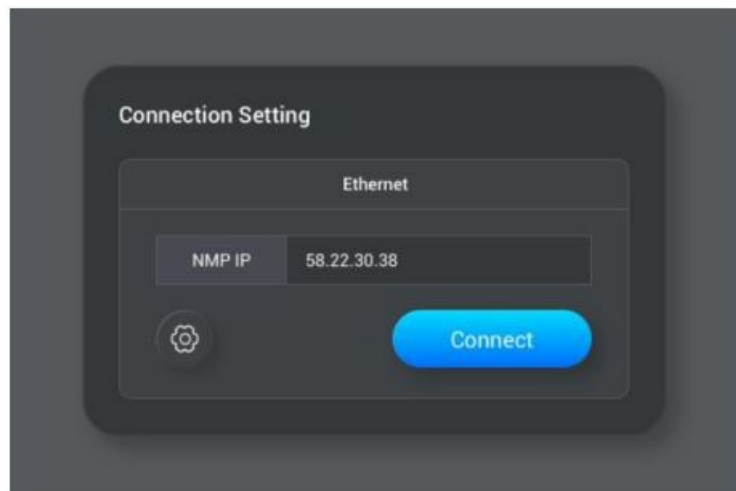
- The LAN ports NMP 211-G don't support POE. • Touch Panel must be on the same LAN as NMP.

## (Connect to NMP with CAT Cable)

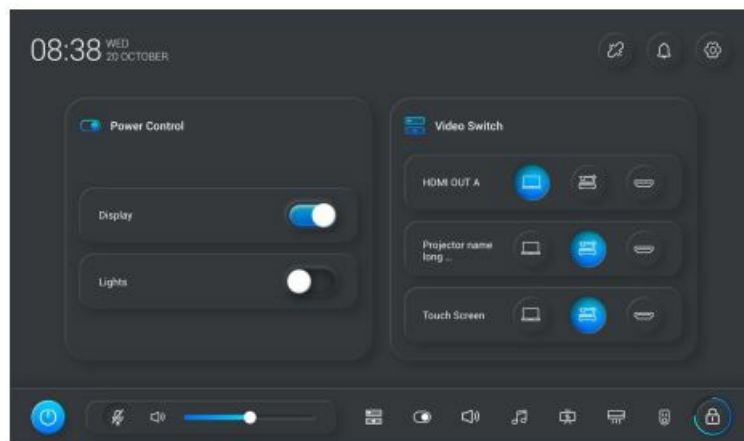
1. Screw the wall mount bracket to the desktop stand.
2. Connect the Touch Panel to the network and power up. There are three ways to connect:
  - **Warning**
    - Do not power the Touch Panel through the adapter and POE at the same time, it will cause the Touch Panel to be short-circuited and burned.
    - This kind of damage is not covered by the warranty.
3. Fasten the wall-mounted bracket into the slots of the Touch Panel and make sure it is fixed.
4. Initial settings Make sure that NMP is connected to the network (refer to NMP Quick Guide). Log in to the Q-NEX Dashboard -Devices-Processor Manager and check the IP address of this NMP.



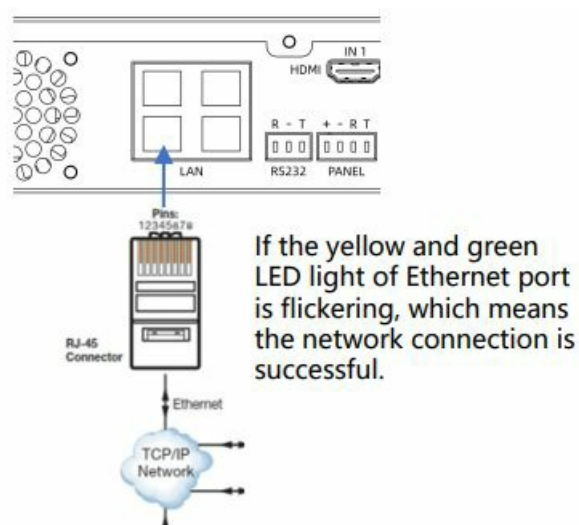
- Input the IP address on the Touch Panel and click Connect.



- It will enter the homepage of Touch Panel after connecting successfully.

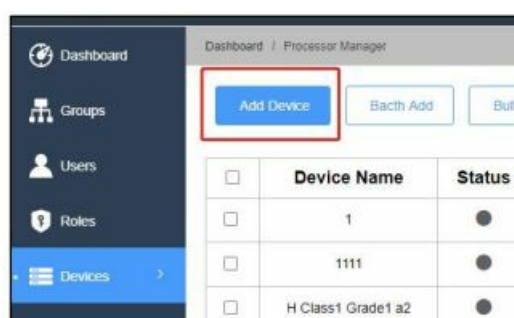


- **Connect NMP to the Ethernet :**



- **Add NMP to Console By Web**

- Log in to the Q-NEX dashboard (check your email for the initial administrator account/password), enter the Device/Processor Manager page, and click on “Add Device” to add a new NMP into the system:

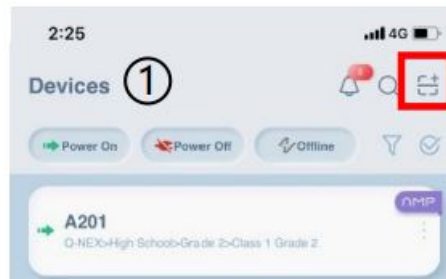


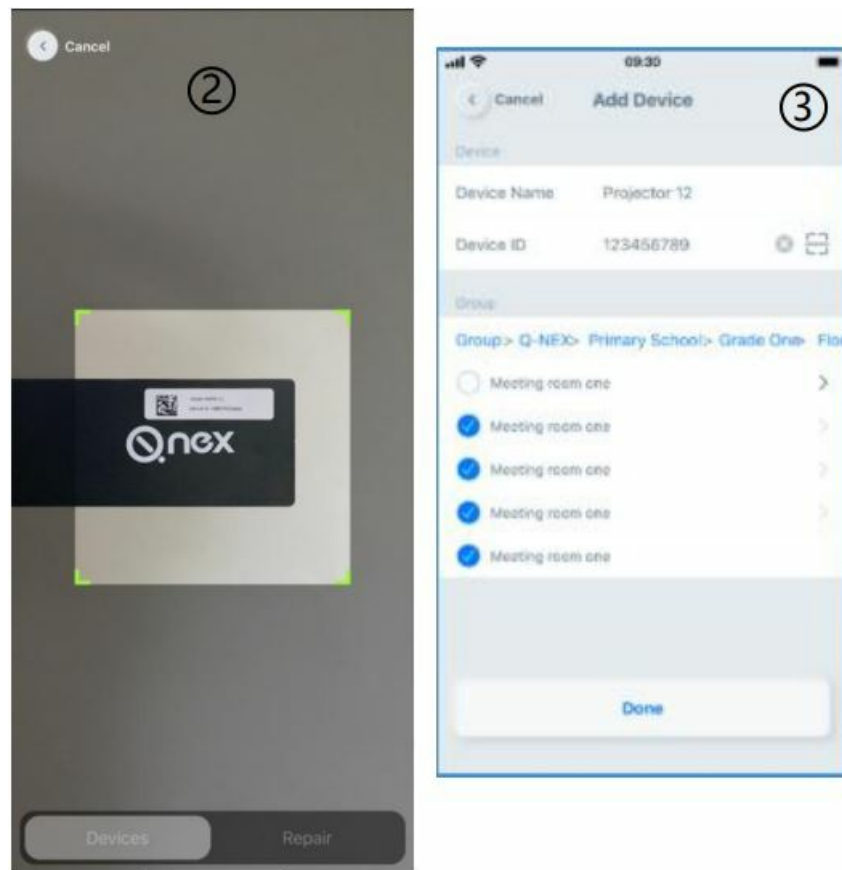
- Put in a device name (can be “Classroom One”, for example) and device ID indicated on NMP (product S/N). Select a group where the NMP is classified (for example, “Grade One” in a school). Set the startup linkage parameters as required, and click Save:

- When the NMP device info is successfully submitted, and verified by the Q-NEX system online, the “Status” will turn green.

<input type="checkbox"/>	Device Name	Status	Groups
<input type="checkbox"/>	A201 office	<span style="border: 2px solid red; border-radius: 50%; padding: 2px;">●</span>	Grade 1
<input type="checkbox"/>	A202	●	Class 2 Grade 1
<input type="checkbox"/>	A203	●	Grade 2

- Add NMP to Console By APP** Scan the QR code on the NMP through the scan button on the device page and follow the steps to add the new NMP.

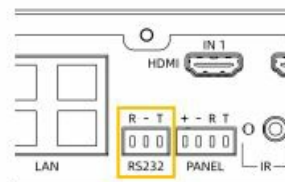
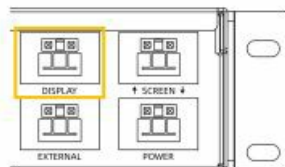




## Power control

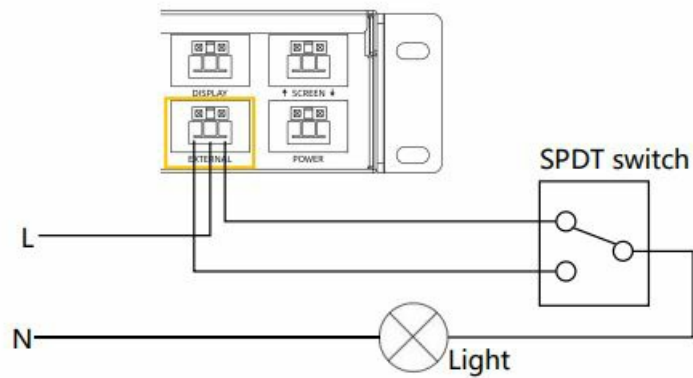
### • DISPLAY:

- Replace the plug of the display devices (projector and projection screen, TV, IFP, etc.) with the WAGO connector, Connect the WAGO connector to the DISPLAY port of NMP.
- To realize power control of devices with RS232 connection (e.g., projector), please connect the device through the RS232 of NMP as well.



### EXTERNAL:

- For other devices that need to control power, such as lights, please connect the device to the EXTERNAL power switch control port according to the installation of a single-pole double-throw switch:



- **Warning:** Do not input power to “External”, otherwise it will cause NMP irreparable fatal failure.

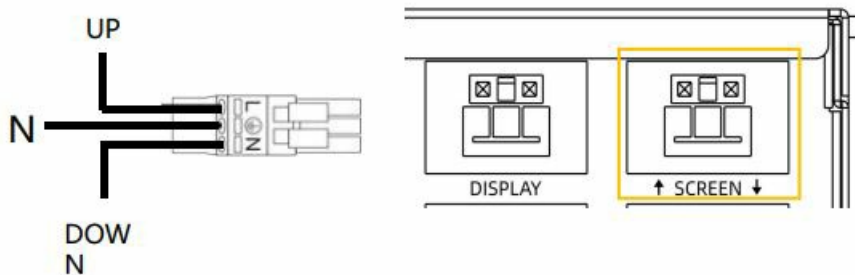
**Note:**

1. Keep the gross output power of both the “Display” and “Screen” ports under 1,200 W.
2. The current-carrying capacity of the “External” switch should not exceed 1200W

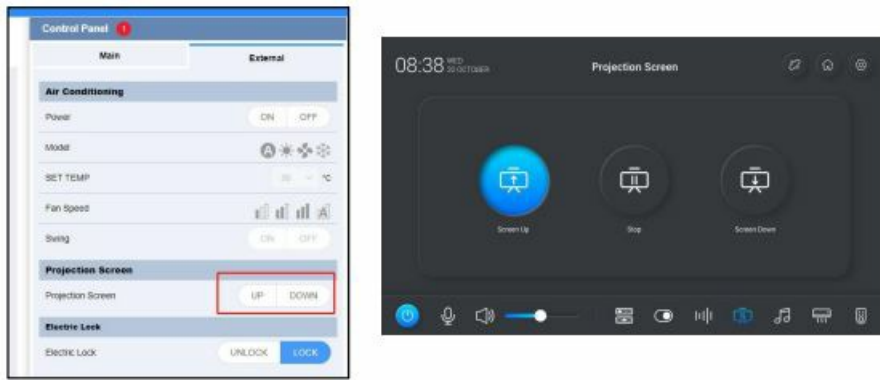
**Power control of control panel or touch panel:**



**SCREEN:** Replace the plug of the projection screen with the WAGO connector, and connect to the SCREEN port.  
(Note: Projection screen only)

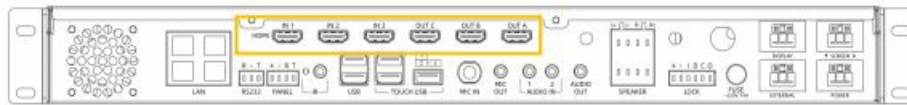


The projection screen up and down can be controlled via Q-NEX Console, mobile APP, or Touch Panel after a successful connection.

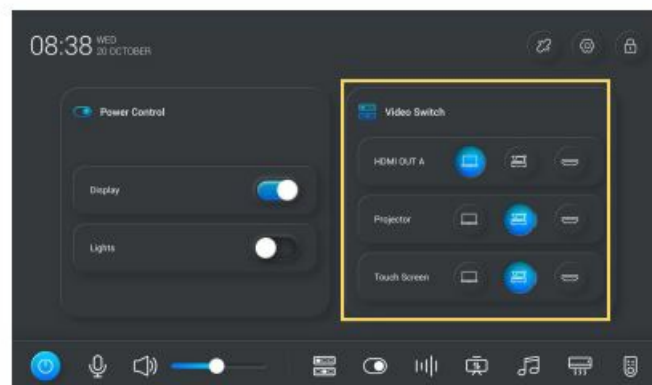
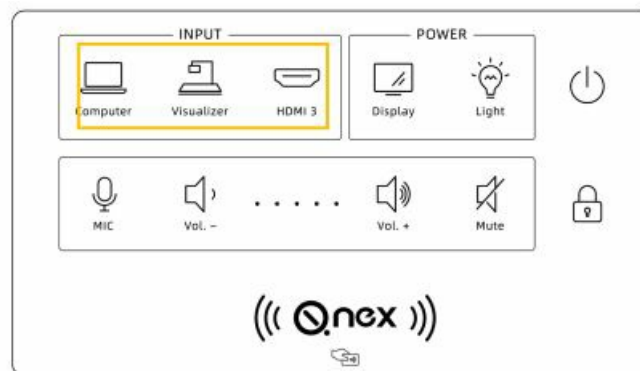


## Video matrix switch

NMP supports HDMI output to three displays. Connect display devices, like TVs, projectors, and IFP, to HDMI OUT, and connect HDMI devices, such as PCs, document cameras, IQShare, etc., to HDMI IN.



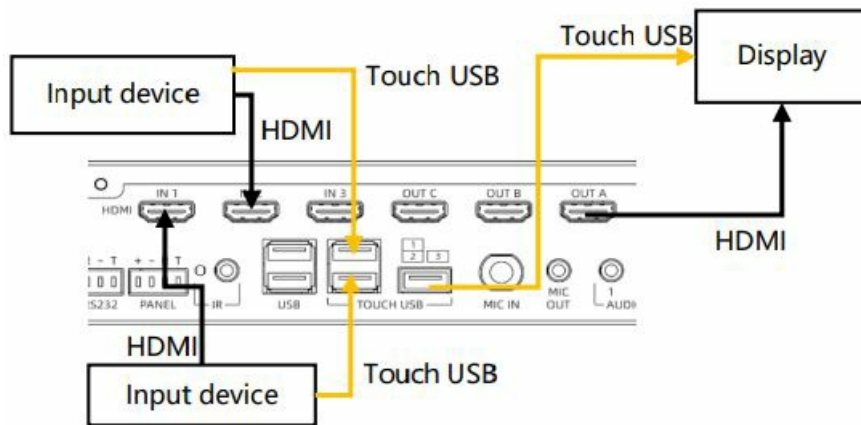
Both the control panel and touch panel only control the input source switching of HDMI out A, press the button to switch directly to the corresponding channel, and the signal light is on.



Please operate on the Q-NEX APP or Q-NEX Console to switch the input source of HDMI out B and HDMI out C.

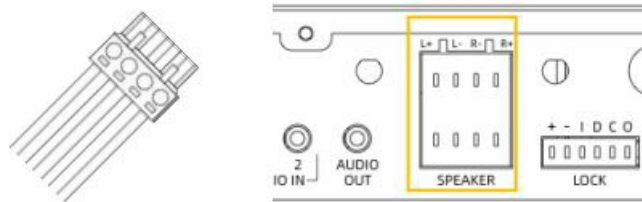
**Touch USB:** Route touch signals from different HDMI touch displays (should be HDMI A). For example, if an interactive flat panel (as HDMI A) can work with a PC for 10 touches, but only one touch with a document camera, then when switching the signal from PC to document camera, the interactive flat panel will accordingly enable 10 touches.

**Note:** The Touch USB feature works only when the touch display is compatible with the input devices for touch.

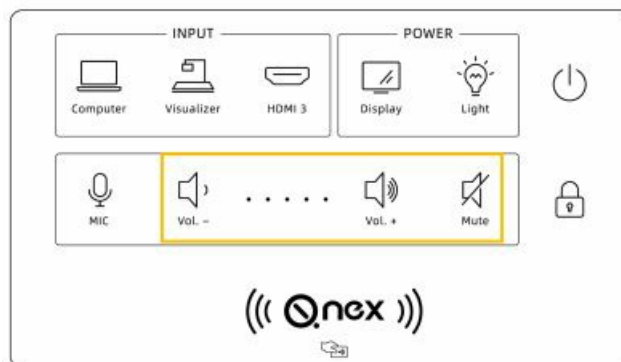


### Audio control

NMP has a built-in power amplifier, 2\*(40w+40w), that can be connected to passive speakers. Replace the speaker cable with a Phoenix audio connector and plug it into the speaker interface. Up to two pairs of passive speakers can be connected.



Volume adjustment or mute can be operated via the control panel or touch panel. Sound muted when MUTE lights up.

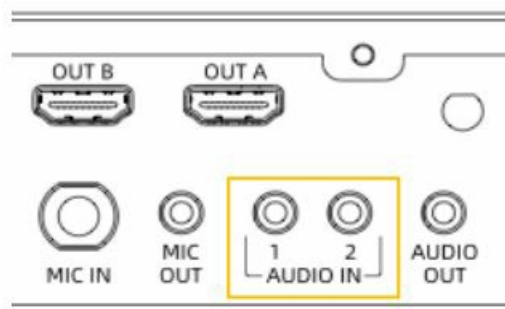


Volume adjustment or mute can be operated via the control panel or touch panel. Sound muted when MUTE lights up.





Through a 3.5mm line in, NMP can support devices with audio output such as mobile phones, the operation can be done via a control panel-AUDIO.



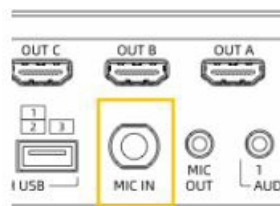
## Microphone control

### 1. Wireless microphone connection:

- Put the wireless microphone close to the NMP and turn it on. After frequency pairing is successful, there will be a beep and the corresponding MIC indicator on the front of the NMP will light up.

### 2. Wired microphone connection:

- The wired microphone can be connected to the NMP through a 6.5mm mic cable. The sound of wired and wireless microphones get mixed and output.

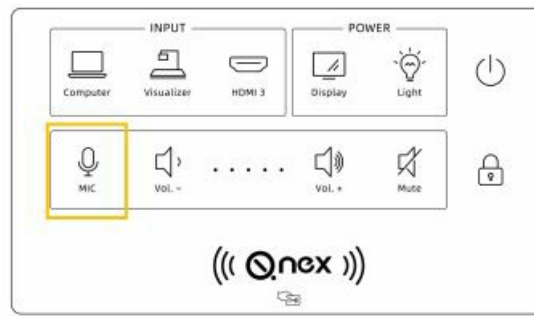


## Microphone volume adjustment:

### • For Control Panel

- The microphone is under control when it lights up. At this time, the operations of increasing the volume, decreasing the volume and muting are only for the microphone.





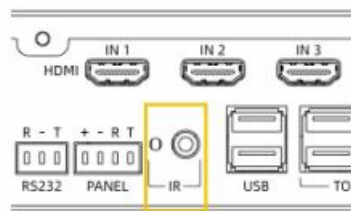
- **For Touch Panel**

- The touch panel can adjust microphone volume, treble, and bass



- **Air-conditioner control**

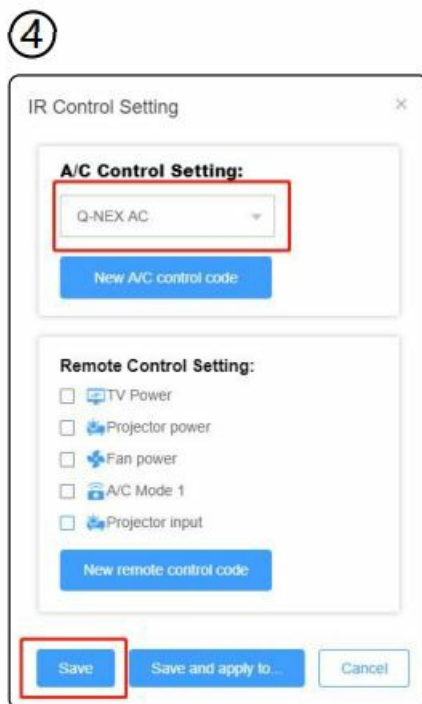
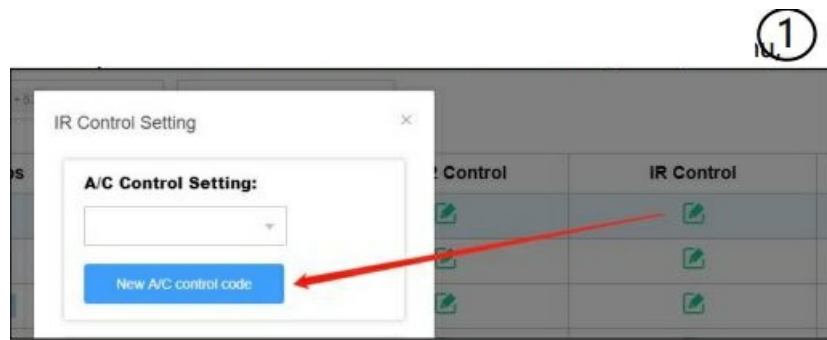
- Connect the infrared transmitter to the “IR” port of NMP, and the transmitter at the air conditioner, and ensure there should be blocks in between the transmitter and the air conditioner.



- Login Q-NEX console -> Dashboard -> Devices ->Processormanager.

**Select the infrared control edit module of a certain NMP to identify the new A/C control code, follow the instructions as below**

1. Click the “New A/C control code” then the “Start” button
2. While analyzing, aim the A/C remote control at the infrared learning hole on NMP, and press the power button
3. After identified successfully, fill in the A/C brands, and models, and save
4. Select the air-conditioner control code from the pull-up menu



## ⑤ Q-NEX Console



## ⑤ Touch Panel



IR remote control module is available for unrecognized air conditioners or other devices using infrared remote control. Connect the infrared transmitter to the “IR” port of NMP, aim the transmitter at the device, and ensure there will be no blocks in between the transmitter and the device. Login Q-NEX console -> Dashboard -> Devices -> Processor manager. Select the infrared control edit module of a certain NMP to learn the new remote control code, follow the instructions below:

1. click the “New remote control code”
2. Choose the type of IR control device
3. Click “Start to learn”
4. While analyzing, aim the remote control at the infrared learning hole on NMP, and then press the function button
5. After identifying success, add information about the control code and save.
6. Select the target remote control code, save, and done.
7. Remote control on Q-NEX Console or touch panel



②

New remote control code

1 2 3

Select device type Learn code Add information

☐ A/C

☒ Other devices

Projector

Next

③

New remote control code

1 2 3

Select device type Learn code Add information

Start to learn

Success

Previous Next

⑥

IR Control Setting

**A/C Control Setting:**

Q-NEX AC

New A/C control code

**Remote Control Setting:**

☐ TV Power

☐ Projector power

☐ Fan power

☐ A/C Mode 1

☒ Projector input

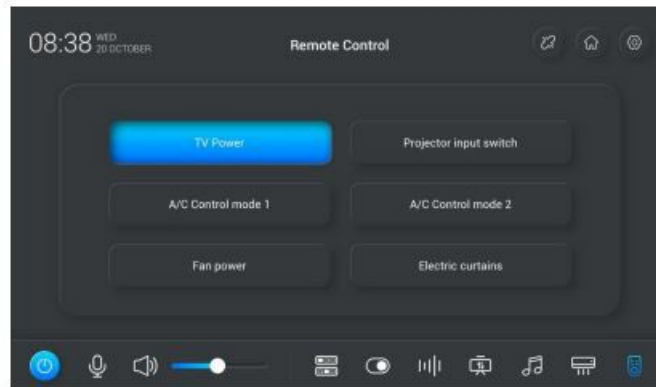
New remote control code

Save Save and apply to... Cancel

## ⑦ Q-NEX Console



## ⑦ Touch Panel



## Common problems and solutions

- **Problem:** The microphone button will flash when you long press it. It means entering the pairing state of the WX-U32 microphone.
- **Solution:** It is a non-fault problem. No need to operate it, just wait a few seconds and use it as normal.
- **If you encounter any problems during installation and use, please contact us:** [info@qnextech.com](mailto:info@qnextech.com).

As of the date of manufacture, the product has been tested and found to comply with specifications for CE marking.

- [www.Qnextech.com](http://www.Qnextech.com).
- [info@Qnextech.com](mailto:info@Qnextech.com).
- 6th Bldg. High-Tech Base. Fuzhou Fujian Prov. China
- Returnstar Interactive Technology Group Co., Ltd.

## Documents / Resources



[Q-nex NMP211-G-CU Networked Media Processor](#) [pdf] User Guide  
NMP211-G-CU Networked Media Processor, NMP211-G-CU, Networked Media Processor, Media Processor, Processor

## References

- [User Manual](#)