Edis

Networked Media Processor -NMP

——Quick Guide——

1.Product introduction

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

2.Components of NMP

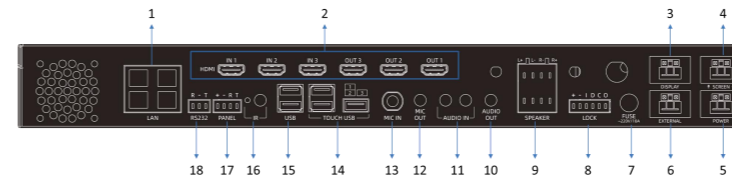Networked Media Processor*1
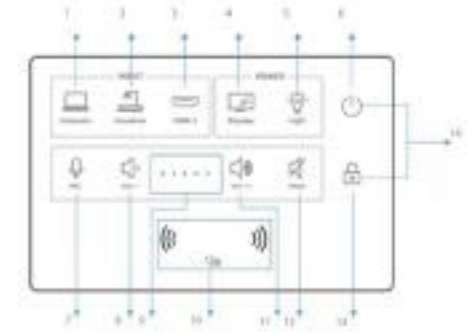
Control Panel*1   Wireless Mic*1

2.1 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

2.2 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

2.3 Control panel features
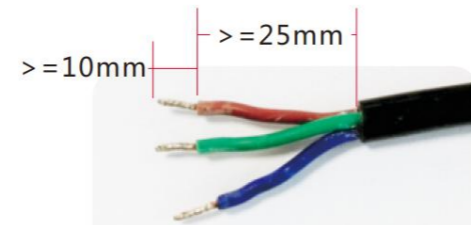
① **Computer**: indicator on means HDMI out A switched to HDMI in 1, recommend PC as input.
② **Visualizer**: indicator on means HDMI out A switched to HDMI in 2, recommend visualizer as input
③ **HDMI 3**: indicator on means HDMI out A switched to HDMI in 3
④ **Display**: indicator on means power on the device connected to Display
⑤ **Light**: indicator on means power on the device connected to External, recommend light
⑥ **Main power**: indicator in blue/red means power on/off
⑦ **MIC**: to control volume of mic when the indicator is on, to control volume of speaker when the indicator is off
⑧ **VOL.-**: the indicator is on when volume is down to the least
⑨ **VOL indicator light**:more indicators on as volume increases
⑩ **IC Card Area**: tap the IC card to unlock tha panel, can power on NMP when it's off
⑪ **VOL.+**:the indicator is on when volume is up to the max.
⑫ **Mute**: indicator on means the speaker is mute
⑬ **Lock**: indicator on means the panel is locked

2.4 Wireless mic features

① Windshield
② LED screen
③ Upward selection
④ Downward selection
⑤ Settings / Laser light on/off: Cooperate with "VOL +" and "VOL-" to set; long press to turn on the laser light
⑥ Volume up
⑦ Volume down
⑧ External microphone connector
⑨ Power / Mute button
⑩ USB interface for charging
⑪ laser pointer for presentation

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3. Get ready before installation

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

3.2 Prepare the power cable for power out of Display:
Uncovered copper wire length >=10mm
• Wire cable with insulation paste>=25mm
• Tighten the single copper wire
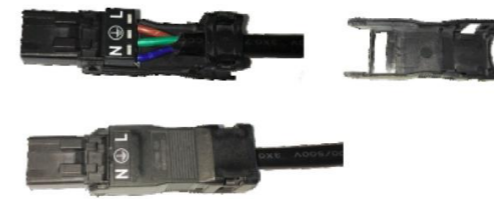
>=25mm
>=10mm

3.2.1 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.
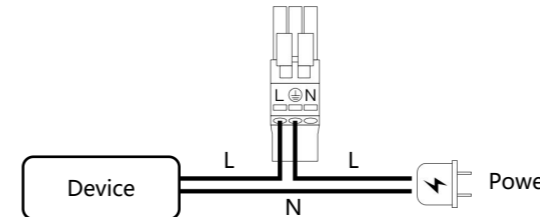
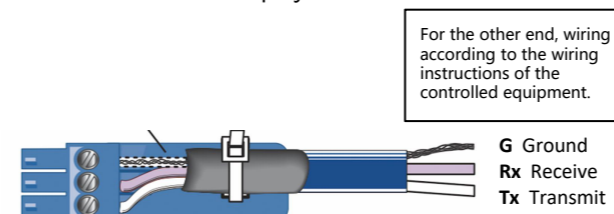L–Fire Wire   ⏚–Groud Wire   N–Zero Wire

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3.2.2 After placing the wires, use the Wire Protection Clip to fasten. Then put on the Shell Base and Shell Cover.
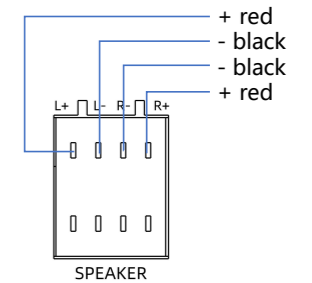
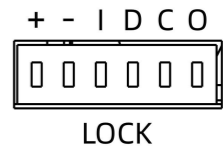3.3 Prepare the power cable for SPDT switch of External:

3.4 RS232 connection for projector:

For the other end, wiring according to the wiring instructions of the controlled equipment.

G Ground
Rx Receive
Tx Transmit

Device — Power
L   L
N

3.5 Speaker connection

+ red
- black
- black
+ red

L+ L- R- R+

SPEAKER

3.6 Electric lock connection
Please connect the required interface according to your electronic lock type.

+ - I D C O

LOCK

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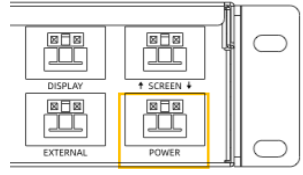O: Relay normally open, load capacity DC3A/30V

4. Wiring and setup

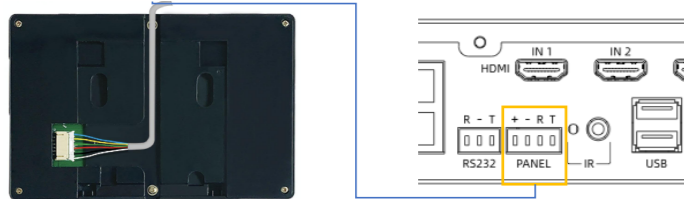Please follow the instructions below to connect the cables

Note: Installation and repair should only be performed by authorized personnel.
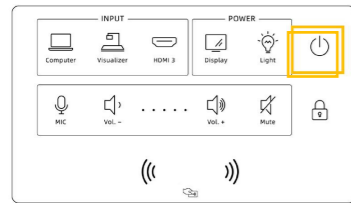
4.1 Basic installation

Connect the NMP power cable to "POWER IN".

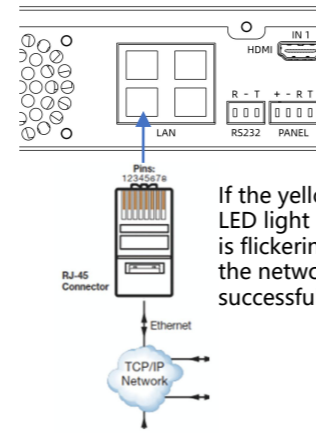Connect the touch panel to the NMP "PANEL" port:

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.
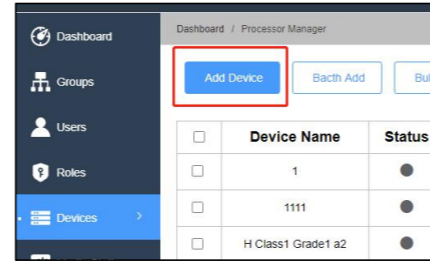

Connect NMP to the Ethernet :

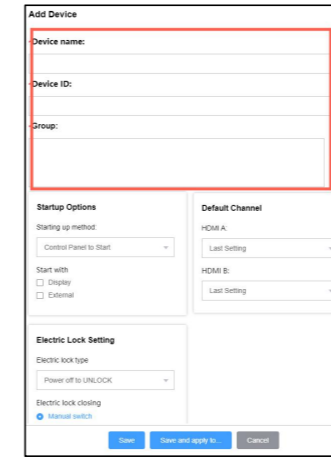If the yellow and green LED light of Ethernet port is flickering, which means the network connection is successful.

Add NMP to Console By web:

Log in to dashboard (check your email for the initial administrator account / password), enter the Device/ Processor Manager page, and click on the "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:
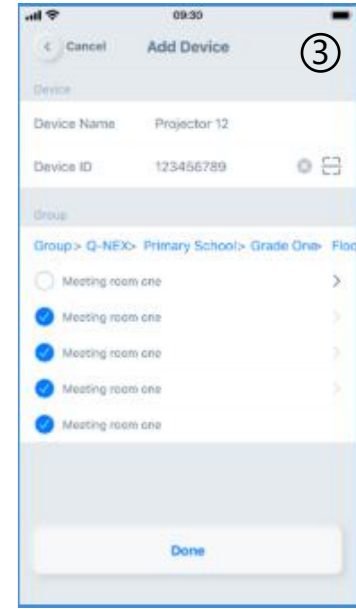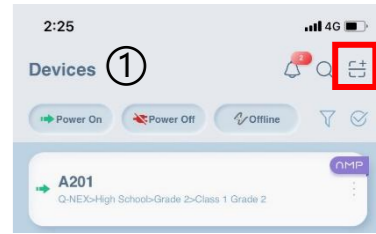
When the NMP device info is successfully submitted, and verified by system online, the "Status" will turn green.

	Device Name	Status	Groups
	A201 office	●	Grade 1
	A202	●	Class 2 Grade 1
	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.
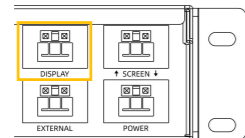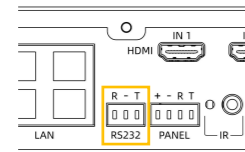

4.2 Power control

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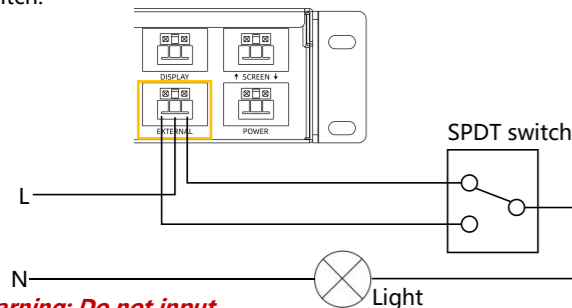
To realize power control of devices with RS232 connection (e.g., projector), please connect the device through the RS232 of NMP as well.

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:
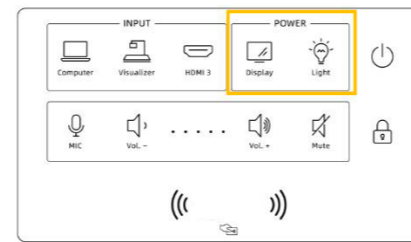
SPDT switch

L

N

Light

Warning: Do not input power to "External", otherwise it will cause NMP irreparable fatal failure.
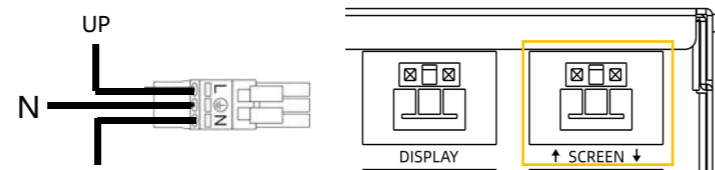

Note:
① Keep the gross output power of both "Display"and "Screen" port under 1,200 W.
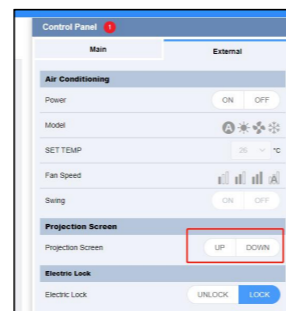② The current-carrying capacity of the "External" switch should not exceed 1200W

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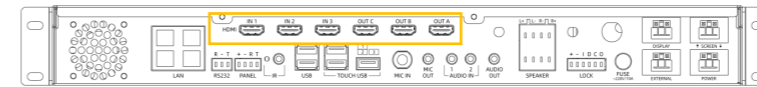
UP

N

DOWN

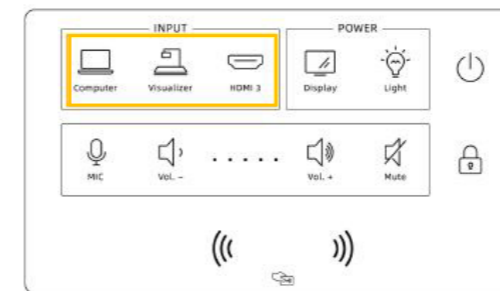Projection screen up and down can be controlled via console and APP after successful connection.

4.3 Video matrix switch

NMP supports HDMI output to three displays. Connect display devices, like TV, projector, and IFP, to HDMI OUT, and connect HDMI devices, such as PC, document camera, IQShare etc., to HDMI IN.

The control panel only controls the input source switching of HDMI out A, press the button to switch directly to the corresponding channel, and the signal light is on.
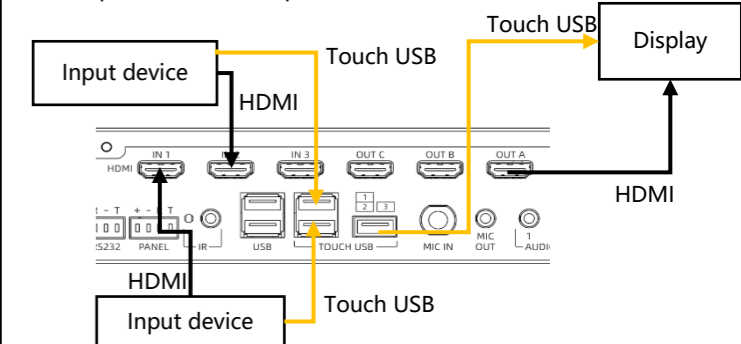
Please operate on APP or Console to switch the input source of HDMI out B and HDMI out C.

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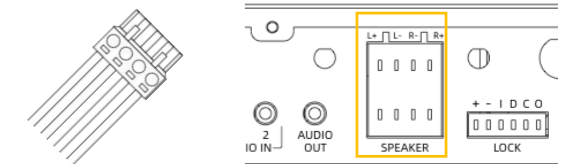For example, if an interactive flat panel (as HDMI A) can work with a PC for 10 touches, but only one touch with a document camera, then when switching signal from PC to document camera, the interactive flat panel will accordingly enable 10 touches to one touch.

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

Input device — HDMI

Touch USB

Touch USB — Display

HDMI
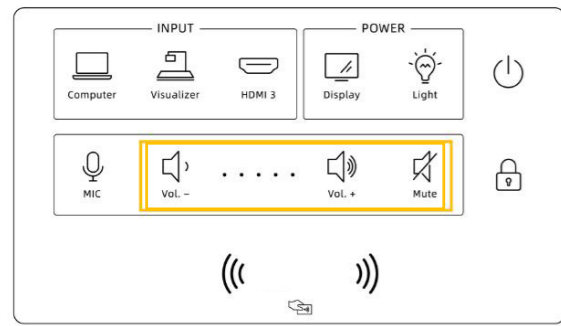
Input device

Touch USB

4.4 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 into the speaker interface. Up to two pairs of passive speakers can be connected.
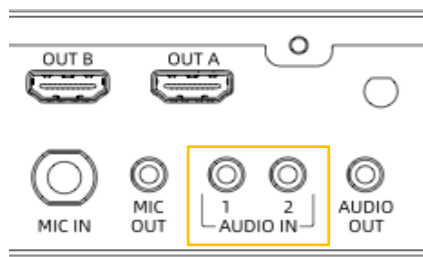
Volume adjustment or mute can be operated via control panel. Sound muted when MUTE lights up.

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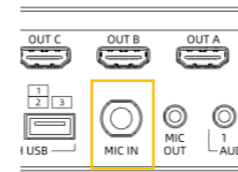
4.5 Microphone control

4.5.1 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.
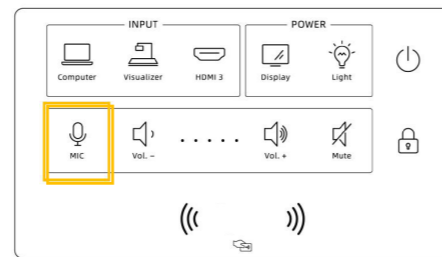
4.5.2 Wired microphone connection: The wired microphone can be connected to the NMP through a 6.5mm mic cable. Sound of wired and wirless microphone get mixed and output.
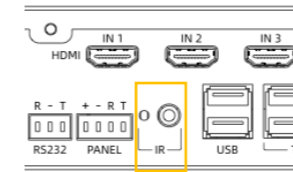

4.5.3 Microphone volume adjustment: The microphone is under control when it lights up. At this time,the operations of increasing the volume, decreasing the volume and muting are only for the microphone.
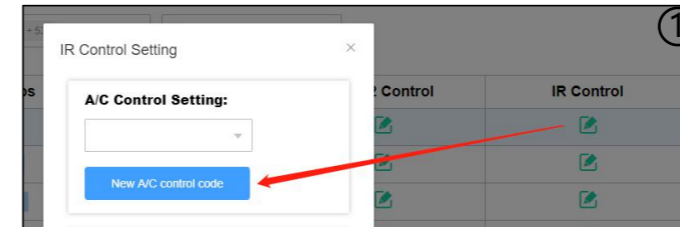
4.6 Air-conditioner control

Connect infrared transmitter to "IR" port of NMP, and aim the transmitter at the air conditioner, and ensure there should be no blocks in between the transmitter and the air conditioner.
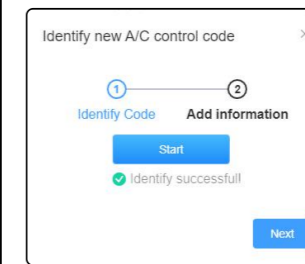

Login console -> Dashboard -> Devices -> Processor manager.

Select infrared control edit module of a certain NMP to identify the new A/C control code, follow the instruction 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, models, and save
④ Select the air-conditioner control code from pull-up menu, and save.
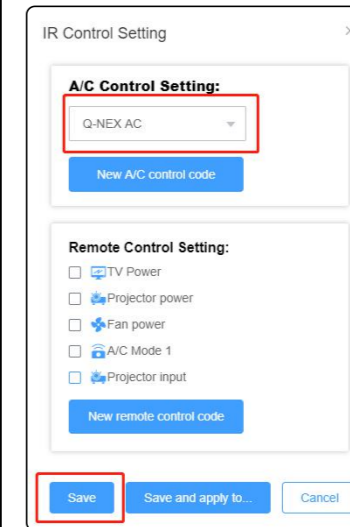⑤ Now the Air Conditioner control module of control panel is available.

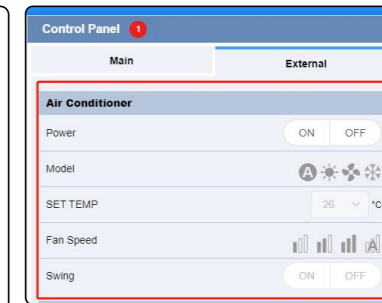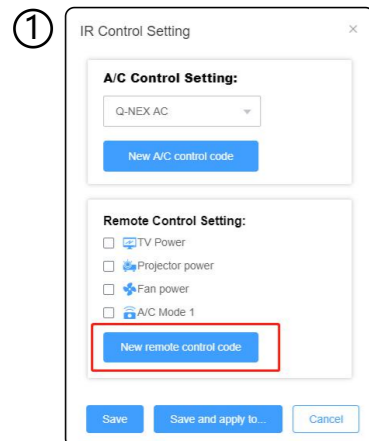## 4.7 IR remote control settings

IR remote control module is available for unrecognized air conditioners or other devices using infrared remote control. Connect infrared transmitter to "IR" port of NMP, and aim the transmitter at the device, and ensure there will be no blocks in between the transmitter and the device.
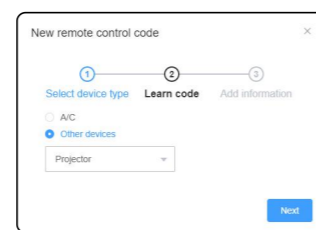
Login console -> Dashboard -> Devices -> Processor manager.

Select infrared control edit module of a certain NMP to learn the new remote control code, follow the instruction as below:
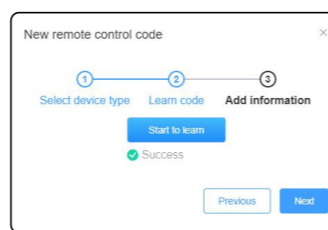
① click the "New remote control code"
② Choose the type of IR control device
③ Click "start to learn"
④ While analyzing, aim the remote control at the infrared learning hole on NMP, and then press the function button
⑤ After identified success, add information of control code and save.
⑥ Select the target remote control code, save and done.
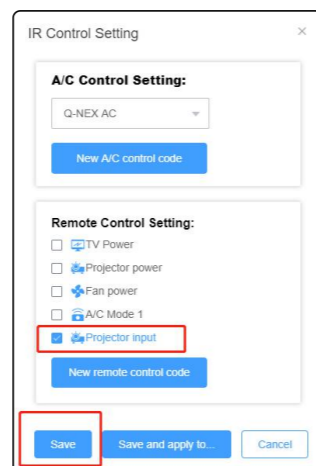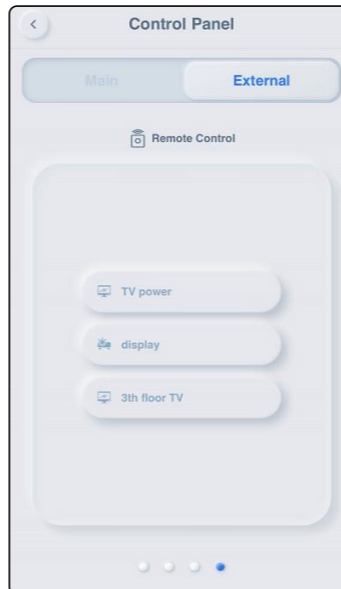⑦ The Remote Control module of control panel is ready to use.

5. 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 non-fault problem. No need to operate, 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

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