

Networked Media Processor -NMP Datasheet



Features	Product	Model	Components
Device Control Only	Networked Media Processor (Reduced)	NMP 220-R-K-CP	NMP220 *1
			Control Panel CPK30*1
			Wireless Microphone WX-P11*1
Device control + AV broadcast + cloud storage	Networked Media Processor (General)	NMP 210-G-K-CP	NMP210*1
			Control Panel CPK30*1
			Wireless Microphone WX-P11*1
	Media Server (Optional)	-	16GB/4TB SATA*4/ DVDRW Streaming Service System



Features

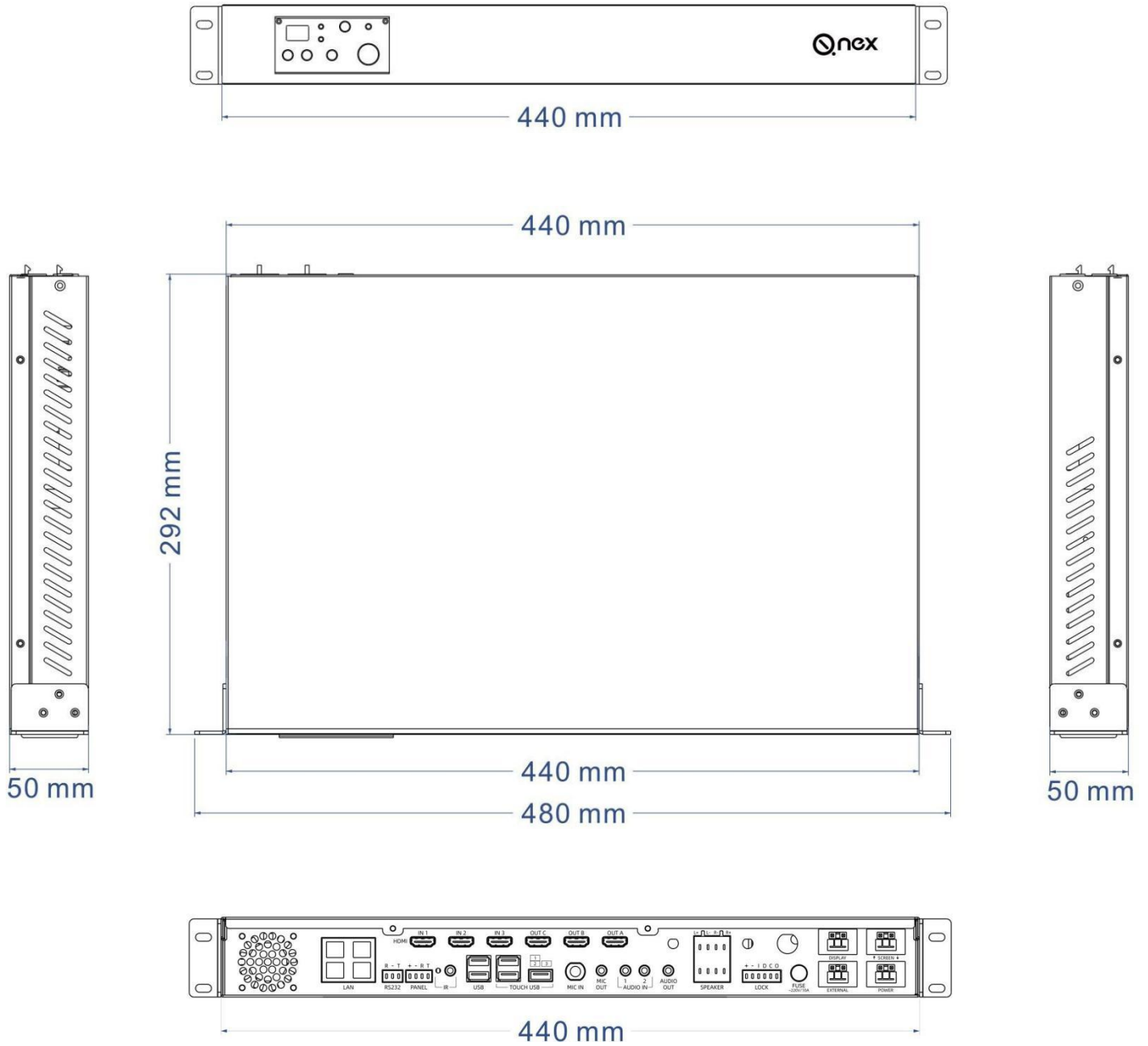
- Device Control
 - To control devices through a desktop control panel
 - To control through web-based platform Console from anywhere with an Internet access.
- Access Control
 - With a built-in electronic lock control module for door security, it allows authorized access by tapping an ICard.
 - IC card could also be used for activating the control panel, so that students without permission can't mess up with the facilities.
- AV Matrix Switch
 - To route audio and video signals from multiple input sources, to one or more display devices, like projector, TV, interactive flat panel.
- Networked AV Distribution
 - NMP can work as a LAN switch.
 - Or by connecting NMP to a **Media Server**, it can achieve AV distribution. School IT admin can select streaming contents and push to different classrooms by schedule.

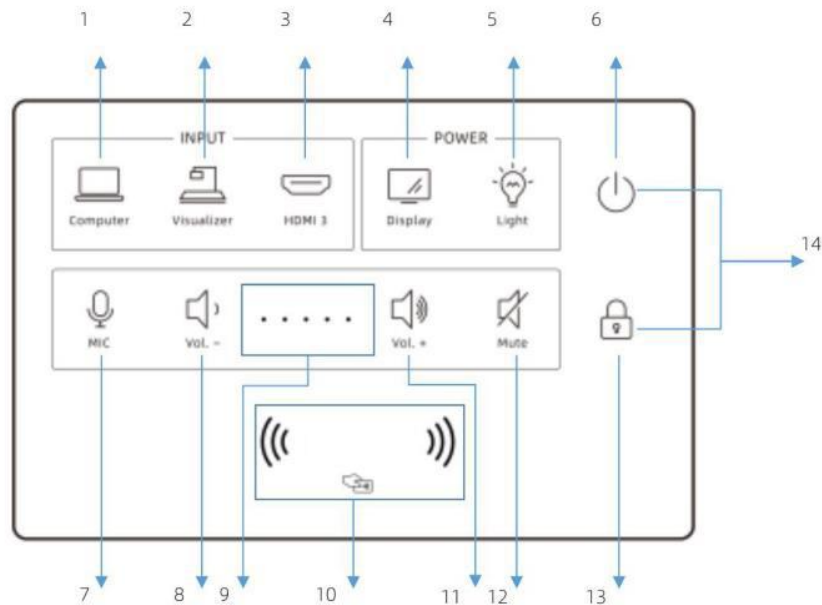
Specifications

		Specification	NMP210	NMP220
1	Size(mm)L*W*H	440*292*50mm	√	√
2	Weight	3.9Kg	√	√
3	Standard 1U rack-mount design	Suitable for installation in various types of cabinets	√	√
4	Industrial-grade embedded motherboard	High-speed 32-bit CPU; Embedded operating system:	√	√
5	LAN switch	4 * 10M / 100M RJ45 network switch ports	√	√
6	Audio matrix module	2*3.5mm line in; 1*3.5mm line out;	√	√
7	Microphone	1*6.35mm wired MIC in; 1* 2.4G+UHF wireless MIC in; 1*3.5mm MIC mixed out;	√	√
8	HDMI matrix module (Input * Output)	3*3 HDMI 2.0 Matrix Module, support 4K@60Hz, support HDCP 2.2 and HDCP 1.x	√	√
9	Audio format	MP3, WAV, FLAC, Ogg, Opus and other mainstream audio formats	√	×
10	Video format	MP4, MKV, RMVB, RM, MP3, MOV, AVI, FLV, WMV and other mainstream formats	√	×
11	Communication Interface	1*RS232; 2*USB *2 1*USB-HOST out 2*USB-DEVICE in(2 choose 1 to USB-HOST) 1*Phoenix 4-Pin for control panel 1 * infrared remote control 1 * IR learner port (for learning IR remote control code not in the code base)	√	√
12	Power amplifier	2*(40W+40W)	√	√
13	Access control	1 * electronic lock power connector (12V) 1 * electronic lock control driver output 1 * electronic lock status input 1 * electronic lock indoor switch input	√	√
14	Power control	1* power out 1* single pole double throw (SPDT) switch 1* power out for projection screen 1* power in 1* Power fuse (~220V/10A)	√	√
15	Remote control & centralized management	Centralized control and management of classroom devices such as PCs, projectors, A/C, power supplies of external devices through the Internet	√	√
		Remote statistics on the usage and status of classroom devices, such as: equipment usage logs, energy consumption, etc.	√	√

Specification			NMP210	NMP220
Wireless MIC Receiver	Frequency Range	650~675MHz	√	√
	Maximum number of channel	64	√	√
	Frequency bandwidth	25MHz	√	√
	Receiver Sensitivity	< -94dBm Value of activating	√	√
	frequency response	30~15KHz(±3db)	√	√
	SNR	>=80dB (A)	√	√
	Harmonic Distortion	< 0.1% to 1KHZ	√	√
	Dynamic range	>85dB	√	√
	External audio socket	NC	√	√
	Audio output level	>+5dBV max	√	√
AV Distribution	Digital audio broadcasting	With high-efficiency audio decoding function, combined with the streaming service system, it can directly realize the decoding output of IP digital broadcasting in classrooms, like to schedule ringing and remote audio broadcasting such as school bells.	√	×
	Streaming media broadcasting	Supports mainstream streaming media protocols such as HLS, RTSP, RTMP, RTP, and can receive high-definition streaming content or online TV programs from the server	√	×
	TXT message announcement	Can send text broadcasts, support mandatory broadcasts, can enter title and text, and set broadcast duration	√	×

Dimensions





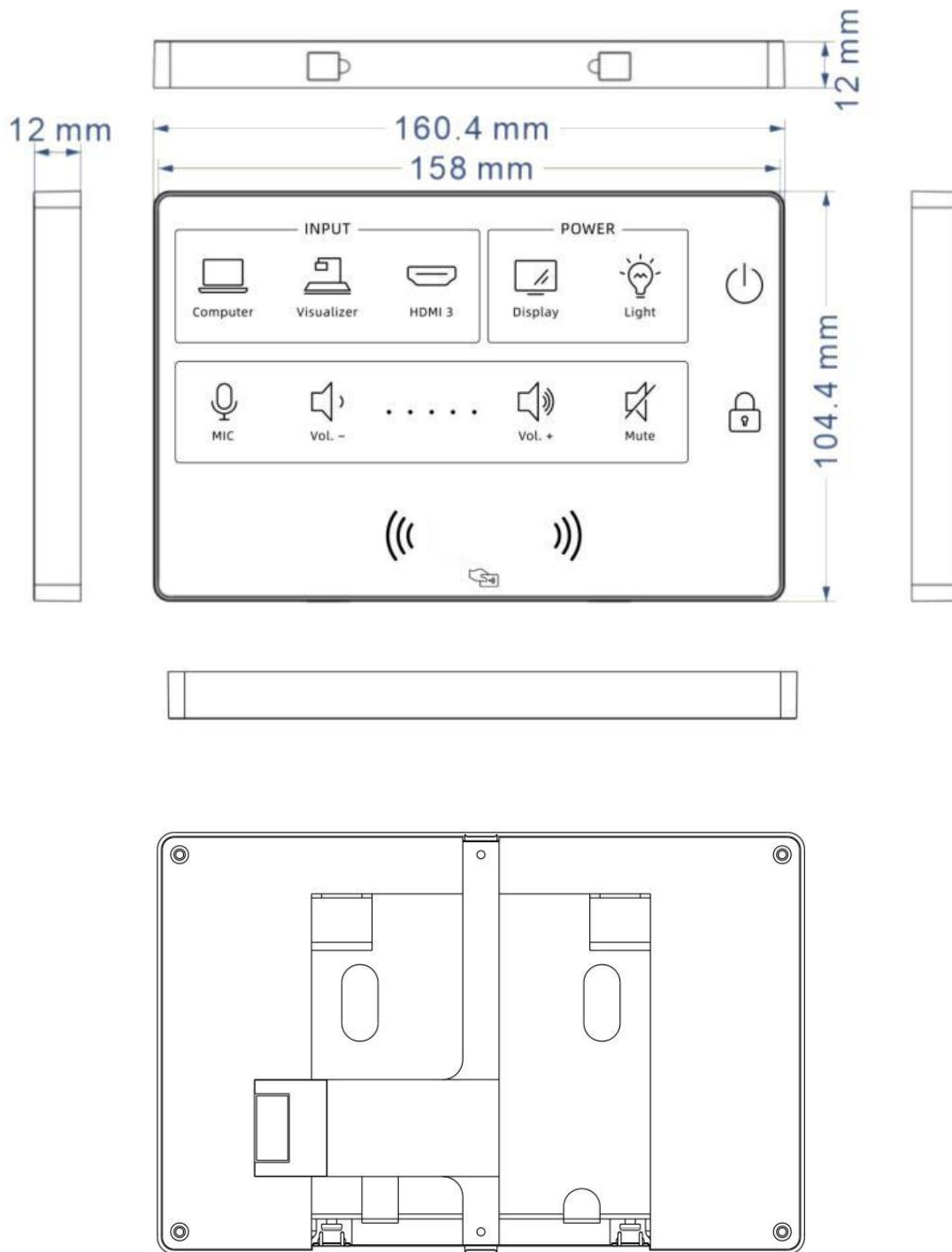
Features (CPK30)

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	Volume indicator light: more indicators on as volume increases
10	IC Card Area: tap the IC card to unlock the 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
14	In Broadcast: only the Main Power and Lock indicators are on; touch Lock to stop broadcasting when it is not mandatory (only for NMP -G)

Specifications

Specification	
1	Structure: Ultra-thin waterproof design, tempered glass touch keyboard
2	Dimensions: 160.4mm × 104.4mm × 12mm
3	Installation: desktop stand or wall mount
4	Access control: Embedded with IC card reader, tap the card to activate control panel
5	Local control: Connect to NMP for local device control
6	Power control: to power on / off NMP, a display device or an external equipment, e.g. lights
7	Video switch: HDMI out A input source switch
8	Audio switch: Speaker volume control; microphone volume control

Dimensions





Features

- Built-in laser pointer
- With volume adjustment button
- OLED displays working status;
- Automatic frequency matching NMP

Specifications

Specification	WX-P11
Matching models	NMP
Frequency Range	650~675MHz
Maximum number of channels	64
Output Power	$\geq 3\text{dBm}$
Bandwidth	25 MHz
Power supply	3.7V / 800mA lithium battery
Battery life	>6 hours
Size	31mm*144mm*31mm
Weight	65g

***Media Server is a recommended option that works with NMP 210-G for AV Distribution and Cloud Storage.**



Based on a scalable network framework, Campus solution allows the Media Server to be deployed over private network OR public network for AV distribution.

Recommended Minimum Specifications

Storage type	ECC
Maximum extended memory	64G
RAM	16G
HDD Storage	4T*4 SATA
Drive bays	Up to 4 x 3.5" hot-swap in hybrid drive carrier
Network card	Dual-port Gigabit network card
CPU	6-core 12-thread CPU
System	Windows Server OS