PN SEREIS

PN-106/112/224/236/248/260

inter**M**

PN Series _ *PN-106/112*
PN-224/236/248/260

PN-260

⬡ OVERVIEW

The PN Series is a network device with a built-in mixing amplifier that allows network audio reception and remote control. It can be used in various places such as educational facilities, franchise stores, and installation environments such as CCTV cameras that require audio transmission through the network. Unlike conventional mixing amplifiers, it can be controlled through the software MS-N300 of the network connecting system, allowing remote monitoring and control of functions such as 'audio volume setting', 'sound file management' and 'priority setting' through the network.

⬡ FEATURE

Reception of Network Audio
In conjunction with our integrated software (MS-N300), it can receive digital network audio in LAN / WAN environment in real time.

Remote Control and System Management through Network
After accessing the web page through the network, it can control the volume and master volume of each channel of the equipment or control the system even from a distance.

High Efficiency Class-D Amplifier
Designed as a Class-D amplifier for high efficiency and low power

Analogue Audio Input Terminal Support
XLR and RCA analogue audio inputs are provided.

1.3inch OLED
Check the device status through 1.3inch OLED

Priority Setting Function for Broadcasting
Free setting the priority as user wants.

Setting for Output Impedance 70V/100V/Low-Z
Setting the output impedance to 70V/100V/Low-Z by operating the impedance setting switch on the rear of the product.

Standby Mode
Enter the standby mode through the web page and the power consumption is minimized when entering the standby mode.

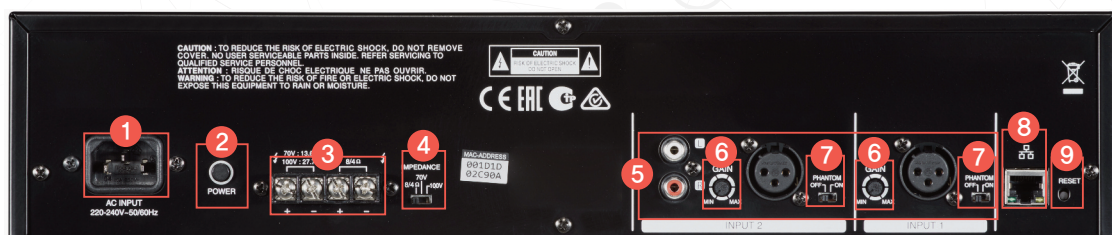# FRONT/REAR PANEL

<PN-106/112>

<PN-224/236/248/260>

1 NETWORK STATUS LED	**4** DISPLAY CONTROL SWITCH
2 FAULT LED	**5** POWER LED
3 OLED DISPLAY	

<PN-106/112>

<PN-224/236/248/260>

|	
1 AC POWER INPUT TERMINAL	**6** INPUT GAIN ADJUSTMENT VOLUME
2 AC POWER SWITCH	**7** MIC PHANTOM POWER SWITCH
3 SPEAKER OUTPUT TERMINAL	**8** NETWORK CONNECTION TERMINAL
4 IMPEDANCE SELECTION SWITCH	(1G/100M)
5 AUDIO INPUT TERMINAL	**9** FACTORY RESET SWITCH

Inter-M Network Connecting System

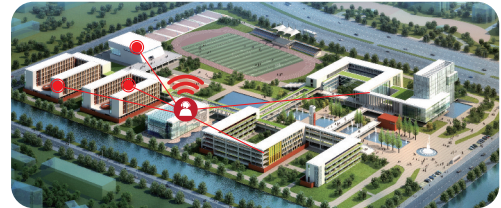## Network Connecting System&PN Digital Network Amplifier

The network connecting system can be built as a digital control system by integrating the existing broadcasting equipment, and can be combined with the newly released PN network receiver to easily create a network integrated broadcasting system in one or several regions.

The digital sound source of the network connecting system and the PN receivers installed in each region can transmit high quality audio and control the PN device through network connection, enabling the system construction with unlimited distance.

All-In-One Remote Integrated Control
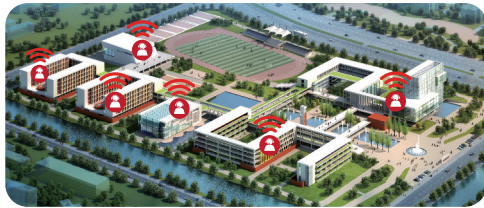
Configuration with

Remote integrated

If the past broadcasting system was broadcasted in an independent building (2-dimensional broadcasting), the network connecting system can make one united broadcasting (3-dimensional broadcasting) on the network without distinction of multiple buildings or places.

Using PN network amplifiers in each local broadcast area allows not only broadcasting over the network, but also status monitoring of the PN network amplifiers in each area.
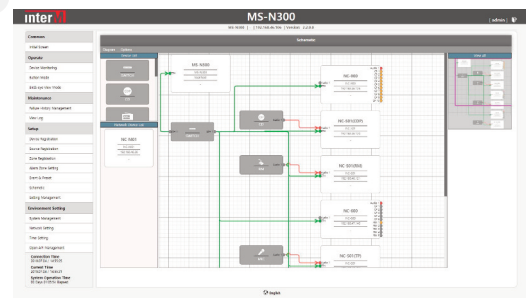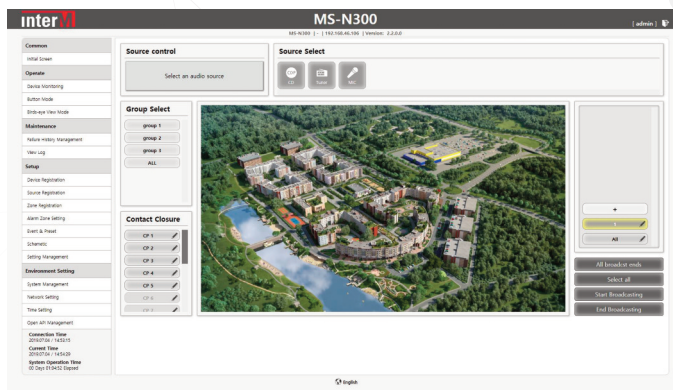
Convenient operation of the entire system with bird's-eye view mode

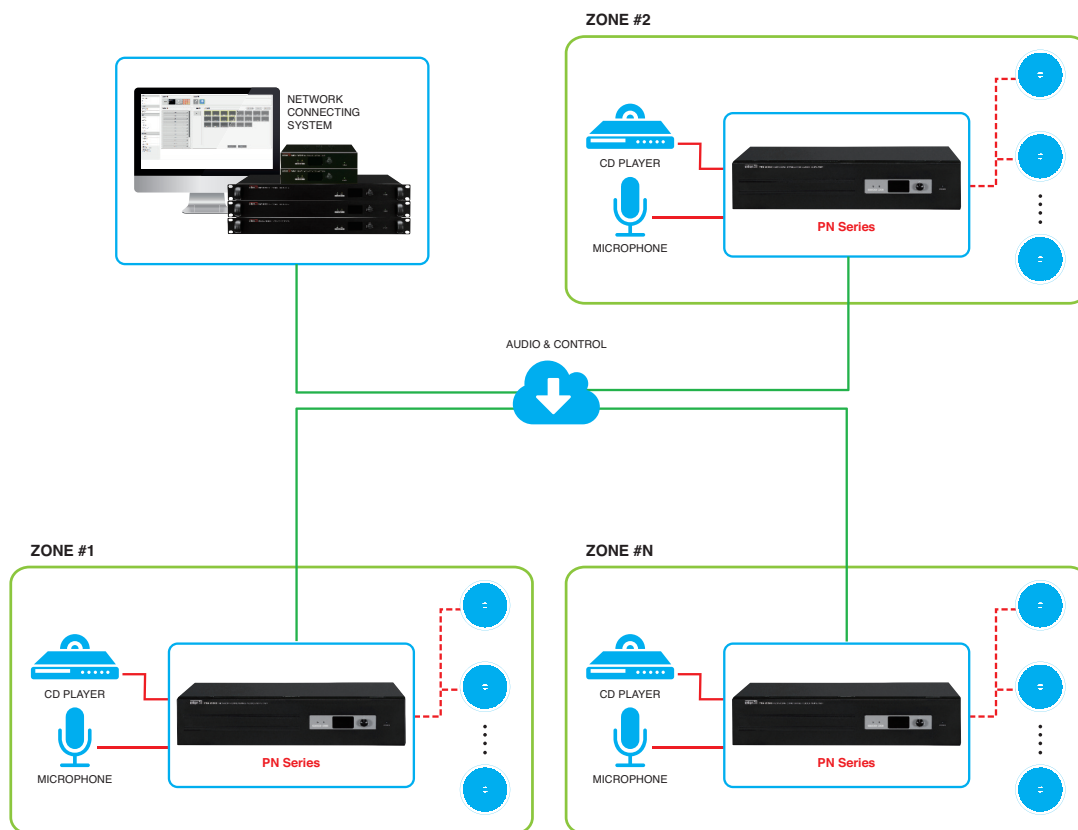# Convenient Broadcasting System Through Network

**Analogue line method**

Digital network method

In the past, the analogue broadcasting system was complicated and costly because of the centralized direct piping and wiring. The network connecting system is a TCP / IP based system operation, and the LAN cable is used to simplify the wiring and reduce the cost.

APPLICATIONS

ZONE #2

CD PLAYER

MICROPHONE

PN Series

NETWORK CONNECTING SYSTEM

AUDIO & CONTROL

ZONE #1

CD PLAYER

MICROPHONE

PN Series

ZONE #N

CD PLAYER

MICROPHONE

PN Series

It is possible for each local zone broadcasting by connecting with Network Connecting System which is main broadcasting system through network. PN network amplifiers support both LAN and WAN environments, allowing broadcast reception between remote area as well as the same area.

Network priority broadcasting or setting for local audio broadcasting priority are available by its own audio input and priority setting for network audio input.

APPLICATION CASES

PN NETWORK AMPLIFIER

PN NETWORK AMPLIFIER

CCTV SYSYEM

NETWORK CONNECTING SYSTEM
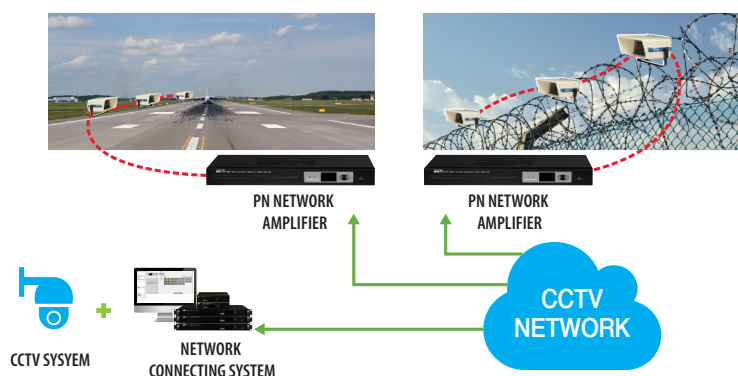
CCTV NETWORK

In connection with CCTV network, warning and announcement broadcasting in a wide area is possible. When an intruder occurs, it is possible to broadcast an alarm to the local area by automatic sound generation from the NCS main system after it receives a warning signal from local area. This system can be used for airports (runways), military units, security facilities, power generation facilities, and oil storage facilities.

⊙ APPLICATION CASES

Seoul Headquarters
Broadcasting Center
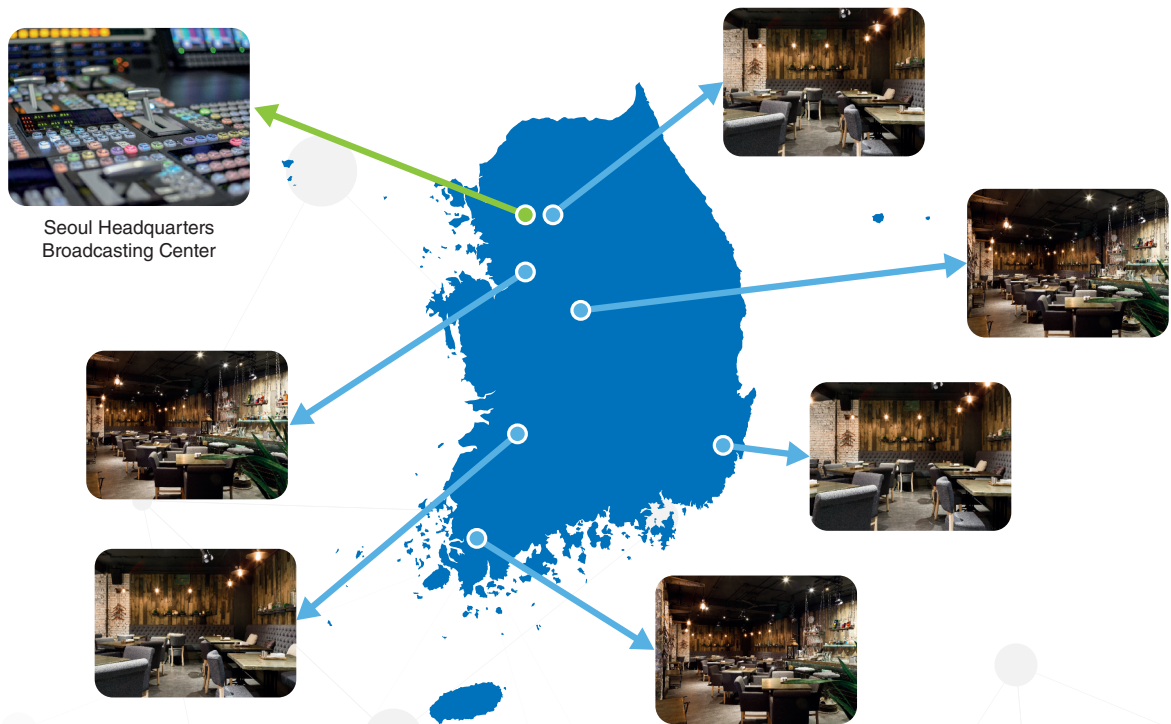
Headquarters can broadcast BGM broadcasts to stores across the country through the network. Announcement, music broadcasts are available depending on the time, and It is possible to check the status of amplifiers by store through the network.

⊙ APPLICATION CASES

When broadcasting in a wide area such as a theme park, broadcasting control by individual region is possible through the network, and broadcasting is possible by each network amplifier itself if necessary.
It provides convenience of broadcasting operation by setting priority for its own broadcasting or main broadcasting.

Theme Parks / Large Parks/ Resorts

SPECIFICATIONS_PN-106/112

		PN-106	PN-112
Output Power (1kHz,THD. 1%,AES17)	Low-Z/70V/100V	60W	120W
Frequency Response (1W, 0±3dB, 20kHz LPF)	LINE / Audio Client	80Hz~15kHz	
	MIC	100Hz~15kHz	
THD (Rated Power, 1kHz, AES17)		Less than 1%	
S/N (S/N, A-WTD) @1kHz	LINE / Audio Client	More than 70dB	
	MIC	More than 55dB	
Input Sensitivity / Impedance			
Input 1 / Input Impedance	MIC	-60dBV / 2kΩ (Balanced)	
Input 2 / Input Impedance	LINE	0dBV / 24kΩ (Unbalanced)	
	MIC	-60dBV / 2kΩ (Balanced)	
Input 3 (Network)	Audio Client	0dBV	
Speaker Output Level / Impedance		100V / 166Ω	100V / 84Ω
		70V/ 82Ω	70V / 41Ω
		22V / 8Ω	22V / 4Ω
Network Communication		100/1000 base-T (RJ-45)	
Operating Temperature		-10℃ ~ +40℃	
Operating Power		AC 120-240V, 50/60Hz	
Power consumption (Rated/8 W output)		55W	
Weight (Set)		4.49kg	
Dimensions (Set)		420(W) x 44(H) x 320(D)mm	

SPECIFICATIONS_PN-224/236/248/260

		PN-224	PN-236	PN-248	PN-260
Output Power (1kHz,THD. 1%,AES17)	Low-Z/70V/100V	240W	360W	480W	600W
Frequency Response (1W, 0±3dB, 20kHz LPF)	LINE / Audio Client	80Hz~15kHz			
	MIC	100Hz~15kHz			
THD (Rated Power, 1kHz, AES17)		Less than 1%			
S/N (S/N, A-WTD) @1kHz	LINE / Audio Client	More than 70dB			
	MIC	More than 55dB			
Input Sensitivity / Impedance					
Input 1 / Input Impedance	MIC	-60dBV / 2kΩ (Balanced)			
Input 2 / Input Impedance	LINE	0dBV / 24kΩ (Unalanced)			
	MIC	-60dBV / 2kΩ (Balanced)			
Input 3 (Network)	Audio Client	0dBV			
Speaker Output Level / Impedance		100V /42Ω	100V /27.7Ω	100V /20.8Ω	100V /16.6Ω
		70V / 21Ω	70V/ 13.6Ω	70V / 10.2Ω	70V / 8.1Ω
		31V / 4Ω	38V / 4Ω	44V / 4Ω	49V / 4Ω
Network Communication		100/1000 base-T (RJ-45)			
Operating Temperature		-10℃ ~ +40℃			
Operating Power		AC 220-240V, 50/60Hz		AC 120V-240V, 50/60Hz	
Power consumption (Rated/8 W output)		110W		150W	
Weight (Set)		5.02kg		5.23kg	
Dimensions (Set)		420(W) x 88(H) x 320(D)mm			

DRAWING

<PN-106/112>

319.6

420

44

<PN-224/236/248/260>

320

420

88

※ Design and specification are subject to be changed for the improvement of product quality without pre notice.   **2019. 8. V1**