



# IP-3000 Series Network PA System

Conveniently accessible  
anytime, anywhere  
on any devices

Monitoring and setting can be done easily  
by logging-in to control GUI via browser



### Description

IP-3000 Series is a browser controllable, large capacity IP-based network voice alarm system. It is an all- purpose Network Voice Alarm system with TOA's advanced packet audio technology assuring higher levels of security, versatility and sound quality.

This system is equipped with web browser viewer system, composed of server, audio interface, analog microphone and web viewer. Using a PC or a portable device without installing any specific software, you can monitor broadcast / failure status, control broadcast or sound volume and setting system by the control GUI with browser in everywhere. The Web Viewer can also use as a microphone console, that serves as hardware buttons or LED indicators of IP microphone. Equipment connection check function can also be done easily and conveniently. When an equipment is disconnected from network, the server will send e-mail to report the error.

High quality audio with 48kHz, 16bits sampling size and wide frequency response with 20Hz - 20kHz of IP-3000 series make it suitable for market that required good BGM quality. 3 priorities of emergency, General, BGM are also available for broadcasting.

### System Features

- > 48 kHz, 16 bits sampling size
- > Frequency response: 20Hz - 20kHz
- > Audio Interface is equipped with DSP functions: TRIM, Volume Control, HPE, EQ, LPF, COMP and Delay.
- > Remote microphone with recording function
- > Packet Audio™ streaming technology can ensure real time and stable audio and control signal transmission over IP network
- > IP network connection allows system expansion without limitation of distance and location
- > Star Connection Topology
- > Web viewer is able to manage full functions: status monitoring, control and setting

Maximum System Capacity	
Contact Inputs	Max. 4096
Contact Outputs	Max. 4096
Audio Channel	Max. 1024
Priority Levels	Max. 300



### Packet Audio

TOA's original Packet Audio™ Streaming Technology

**Real Time Transmission:** Audio can be sent / received with low delay.

**High-quality Transmission:** Enables high-quality sending and receiving of audio through an audio compression system that faithfully reproduces the waveforms of the original sound.

**Low Cost:** Allows conversation / broadcasting via networks, whether existing onsite LAN, company intranets or other local networks, reducing deployment and operational costs for wiring work or call charges.

**Onboard Packet Loss Compensation Function:** If packets are missing due to the condition of the network in use, Packet Audio selects from following three systems for compensating for the loss packets.



### IP-3000CD

- > Can manage and control the whole voice alarm system with maximum 1024 X 1024 input/output.
- > Dynamic backup function is available if 2 units of network system manager are linked.

### Specifications

No. of Audio Input	1024
No. of Audio Output	1024
No. of Buses	1024
Priority Control	300 Step
Max no. of control input/ control output	4096 x 4096
Event Log	Max. 1,000,000 logs
Emergency Log	Max. 1,000,000 logs
Sampling Frequency	48KHz
Frequency Response	20~20KHz
Network Protocol	TCP/IP



**IP-3010AF**

- Can implement the IP streaming media transmission of the Analog audio input 4CH, Analog audio output 4CH
- Can implement the signal control of the 16 control input / 16 control output.
- Max. 256 pcs (4096 No. of Input numbers / Output)

**Specifications**

Power Source	24V DC
Current Consumption	1A or less, 2P terminal block
Control Input	16 channels, no-voltage make contact input, open voltage: 24V DC, short-circuit current, 5mA or less, removable terminal block (20P)
Control Output	16 channels, relay output, contact withstand voltage: 24V DC, maximum current: 500mA, removable terminal block (32P)
Network I/F	Network I/F:100BASE-T Network Protocol: TCP, UDP, ARP, RTP, CMP, TTP, IGMP, FTP Connector: RJ45 Sampling Frequency: 48kHz, 16 bit
Audio Input	4 channels, electronically-balanced (optional, transformer-isolated), MIC -60dB*1/LINE 0dB*1 (changeable), 2.2kΩ, removable terminal block 3P x4, phantom power supply (17V, can be set with the switch)
Audio Output	4 channel electronically-balanced (optional, transformer-isolated), 0dB*1, 10kΩ, removable terminal block (3Px4).
Frequency Response	MIC 100Hz~16kHz ±3dB, LINE 20Hz~20kHz ±3dB
Switch	Front: Reset switch; Back: DIP Switch (MIC/LINE gain switch, phantom power supply switch)
Indicator	Network LINK/ACT: green, STATUS: green, SIGNAL: green x4, PEAK: red x4, OUTPUT: green x4, Power indicator: green
Volume Control	4 channels input volume (rear)
Finish	Steel plate, black, 30% gloss, paint
Dimensions ( W x H x D )	420 x 44.3 x 360 mm
Weight	4.3kg
Accessory	AC Adapter x1, Plastic foot x4, Screw for fitting plastic foot x4, Removable terminal plug 2P x1, Removable terminal plug 3P x8, Rack Mounting bracket MB-15B x2, Removable terminal plug 10P x2, AC Power Cord x1, Removable terminal plug 16P x2, Screw for rack mounting x8, (Optional) Wall Mounting bracket: MB-2015ST Q



**IP-300RM**

- The microphone and control interface can choose the broadcasting zone
- Can implement the IP streaming media transmission of Analog audio input 1CH, Analog audio output 1CH.
- Can select any audio channel for monitor output
- IP Microphone: Direct connect to IP network
- Max. 255 pcs in one system

**Specifications**

Power Source	24V DC
Control Input	No-voltage control contact input, no-screw wiring terminal Open-circuit voltage: 24V DC, short-circuit current: 5mA or less
Audio Input	-20dB <sup>*1</sup> , 10kΩ, unbalanced, φ3.5mm Stereo Mini Jack
Audio Output	0dB <sup>*1</sup> , 600Ω, unbalanced, φ3.5mm Monophonic Mini Jack (optional transformer balanced output)
Frequency Response	20Hz - 20kHz (MIC 100Hz-16kHz)
Network connection	100BASE-T network connection, ethernet RJ45 plug
Microphone	Unidirectional electret condenser microphone
Keys	number keys x13, emergency key x1, talk key x1
Indicator	Power indicator : green, failure indicator : orange, emergency Indicator : red, selection indicator : green/orange x13
Volume Control	Audio input volume control, microphone volume control, monitor speaker volume control
Finish	Panel: ABS resin, black ; Case: Surface-treated steel plate
Dimensions ( D x W x H )	190 x 113 x 216.5 mm (excluding gooseneck microphone)
Weight	1.5kg
Accessory	AC Adapter x1, power cord x1

<sup>\*1</sup> 0dB = 1Vrms

## IP-3000 series Control GUI

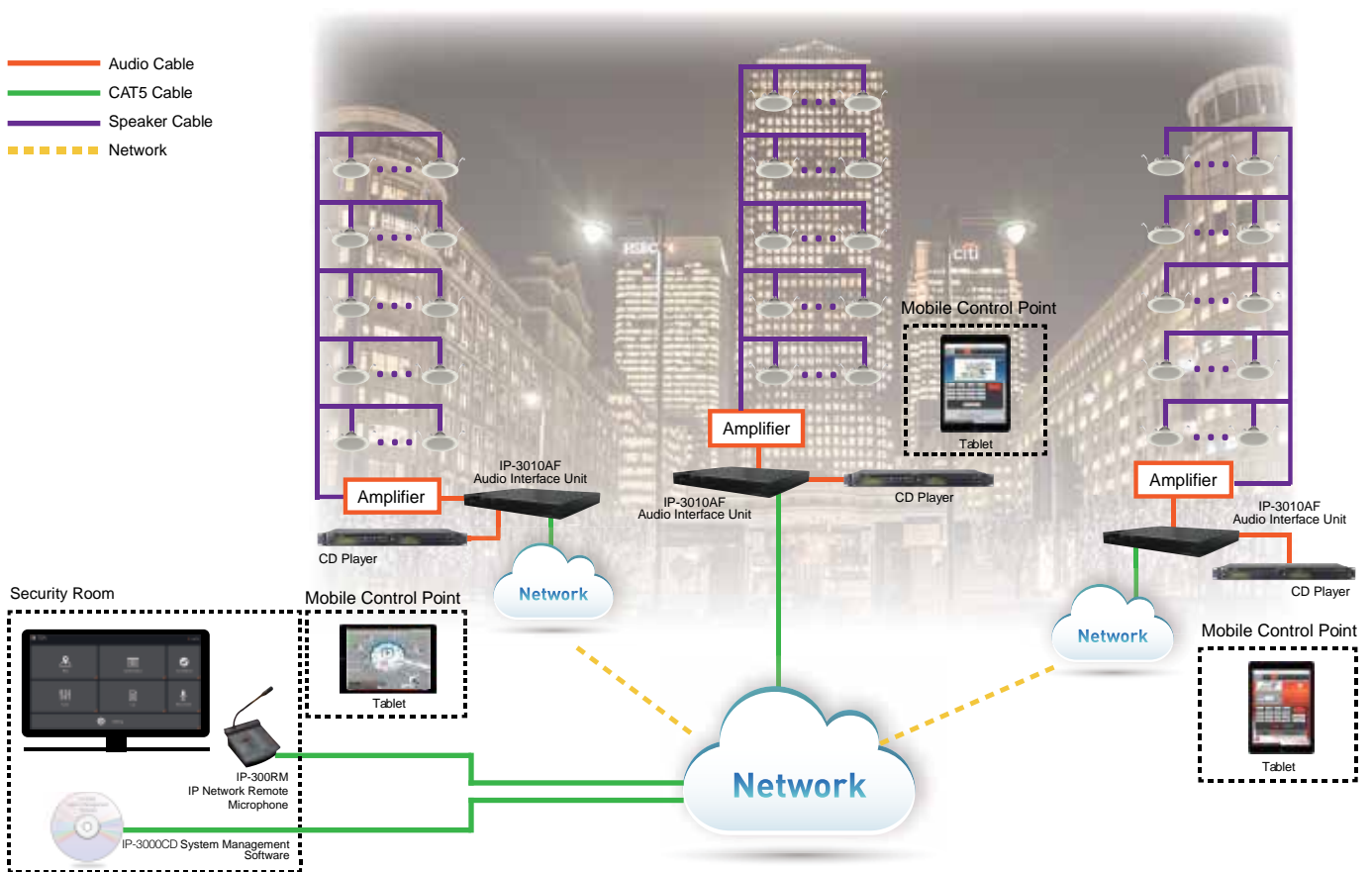
- Web browsers that can connect to the control GUI



- Control GUI function include: Monitor broadcast/ failure status, control broadcast or sound volume and setting system
- Can operate a portable device as a microphone console



## IP-3000 series Typical Solution: Grade A Commercial Office



## Advantages

With its extensive capacity and network ability, IP-3000 is particularly suitable for commercial complex and A-graded commercial building with extensive area.

IP-3000 vast capacity of 1024 audio input and output matrix can cope with the most complicated zoning and audio routing operation precisely. The use of TOA originated "Packet Audio" prevents any loss in message occurs during network transmission. Recovery mechanism of "Packet Audio" ensures both completeness and quality of the message.

The control GUI of IP-3000 requiring no software to be installed in any device but by logging-in to the system network. Control points can easily be added by any mobile device like tablet or notebook computer with Wi-Fi function.



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Specifications are subject to change without notice.

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