

4CH Digital Power Amplifier

DPA-150Q





DPA-150Q

4CH Digital Power Amplifier

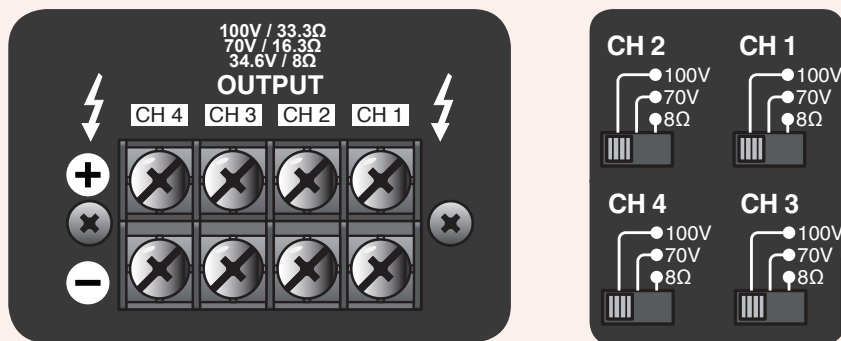
Development Background

DPA-150Q is a maximum of 150 W×4CH(100 V, 70 V, 8 Ω) multi-channel PA/SR amplifier that is developed with best patent awarded technology of Inter-M. The amplifier will build much more cost effective, low heat, light weight system compare to the previous analog amplifier. DPA-150Q will particularly maximize its potential in large-sized places such as shopping malls and education centers in which separate control is necessary. Now, experience smaller but more powerful broadcasting system of DPA-150Q!

FEATURES

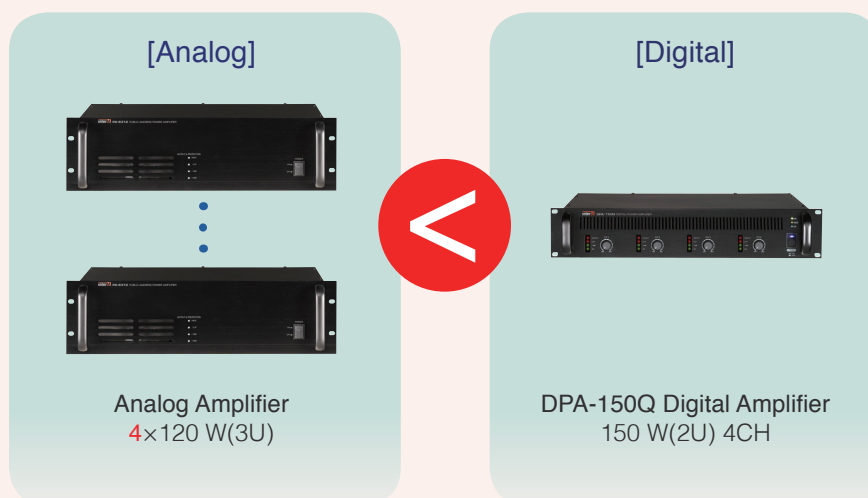
●● OPTLESS Output Design for Both PA and SR Use

DPA-150Q is the very first 150 W OPTLESS designed High-Z(100 V, 70 V) output amplifier. Due to OPTLESS design, the amplifier is low-electricity, low-heat, and lightweight. With the select switch of the each channel, choose output of 100 V/70 V/8 Ω and utilize the device in various applications in need of High-Z/Low-Z dispersion system.



●● 150 W \times 4CH(100 V, 70 V, 8 Ω) Class-D Multi-channel Amplifier

All new DPA-150Q is a 4CH digital amplifier made with the 30-year techniques of Inter-M. It is 2U-sized 150 W \times 4CH, so it saves space and cost compare to analog amplifiers. For instance, 12U-sized space (4 amplifiers) was needed to transfer different sound sources to 4 zones with the previous analog amplifier. However, with the new DPA-150Q, only 2U-sized space is needed to control 4 zones. It definitely is space and cost-effective.



FEATURES

●● Secure Operation through AC/DC Dual Power

DPA-150Q is AC/DC dual powered and is DC 24 V provided with the battery when urgent situation such as blackout occurs. DC power is emergency power that operates regardless of ON/OFF of the power switch. It is automatically switched to AC power even when DC power is operating if AC power is working in order.



●● High-quality Sound of High S/N and Low THD

DPA-150Q is a high quality commercial amplifier with specifications like S/N over 100 dB and THD below 0.2 %. So, the amplifier is adequate for large-sized places like shopping mall, department store and bank the venues which are in need of supreme quality BGM play.

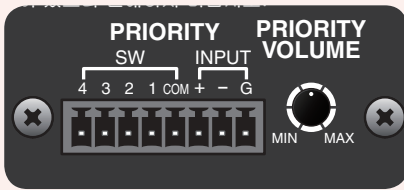
- ✳ S/N : This is Signal to Noise value. Higher the value, clearer the sound.
- ✳ THD : This is an acronym of Total Harmonics Distortion. Lower the value, better the sound.



●● LED Indicators

The backlit LED enables to monitor AC/DC power, STBY status, -30 dB/-10 dB output level of each channel, Clip and Protect status. Also, with the volumes of each channel on the front panel, separate volume control is possible.

FEATURES

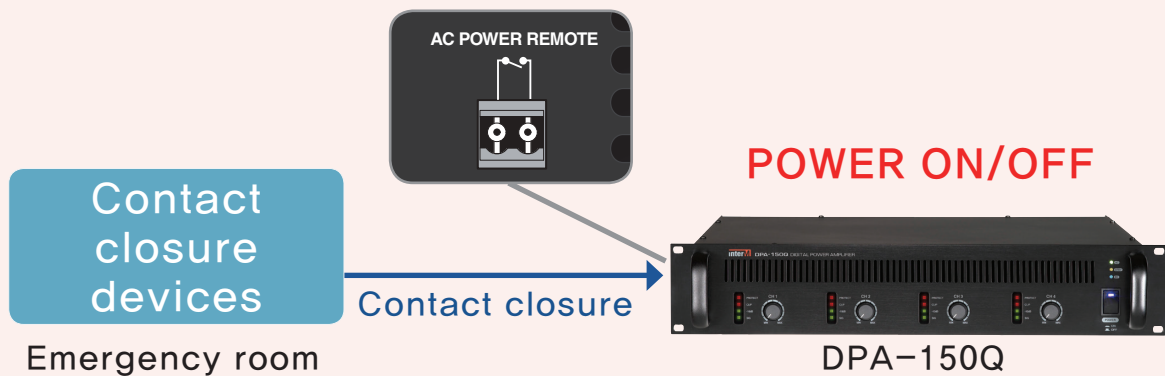


●● Priority Function

Automatic emergency broadcasting is available using priority function of DPA-150Q in emergency situations. When contact closure is inserted to PRIORITY terminal on the rear panel, signals input to the PRIORITY terminal are output before the ones entered to PGM INPUT terminal.

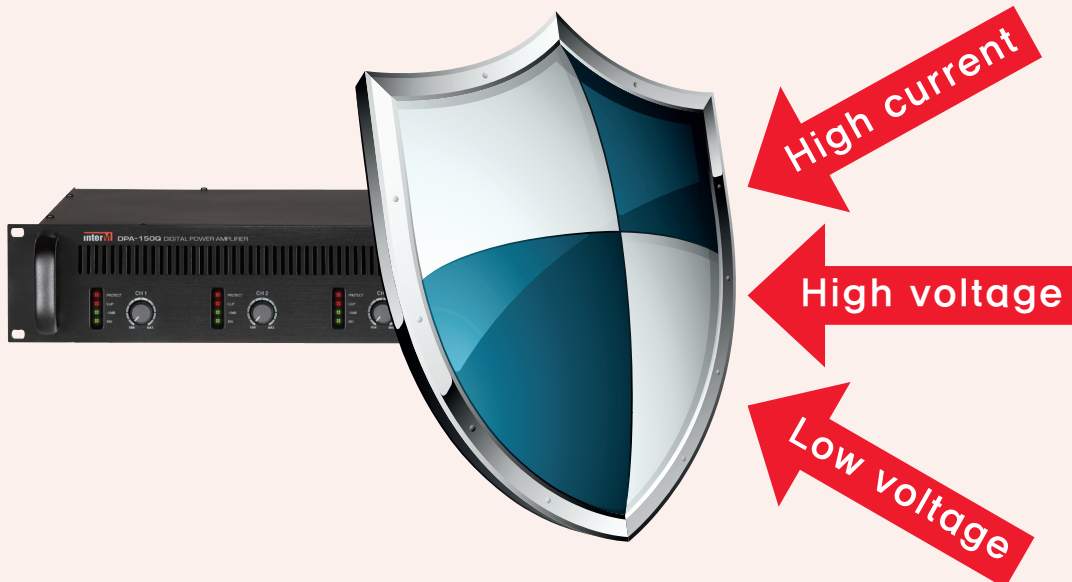
●● Remote AC Power Control Function to On/Off

With the AC POWER REMOTE terminal on the rear panel, DPA-150Q power can be controlled from remotely. If contact closure is input to the AC POWER REMOTE terminal when DPA-150Q is OFF, the device turns on and if contact closure is inserted when ON, the device turns OFF.



●● Stability guaranteed with perfect protection circuit

Stability of the device is guaranteed with OVP(Over-Voltage Protection) function which perceives and blocks when in/output voltage is higher or lower than the settled voltage range, UVP(Under-Voltage Protection) and overcurrent protection function.



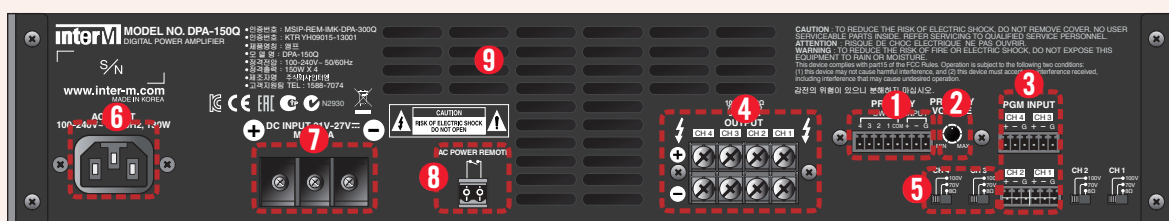
FRONT/REAR PANEL

FRONT PANEL



- 1 AC/DC/STBY LED Display
- 2 Signal Output LEVEL Display
- 3 Volume Control
- 4 Ventilation Hole
- 5 Power Switch

REAR PANEL

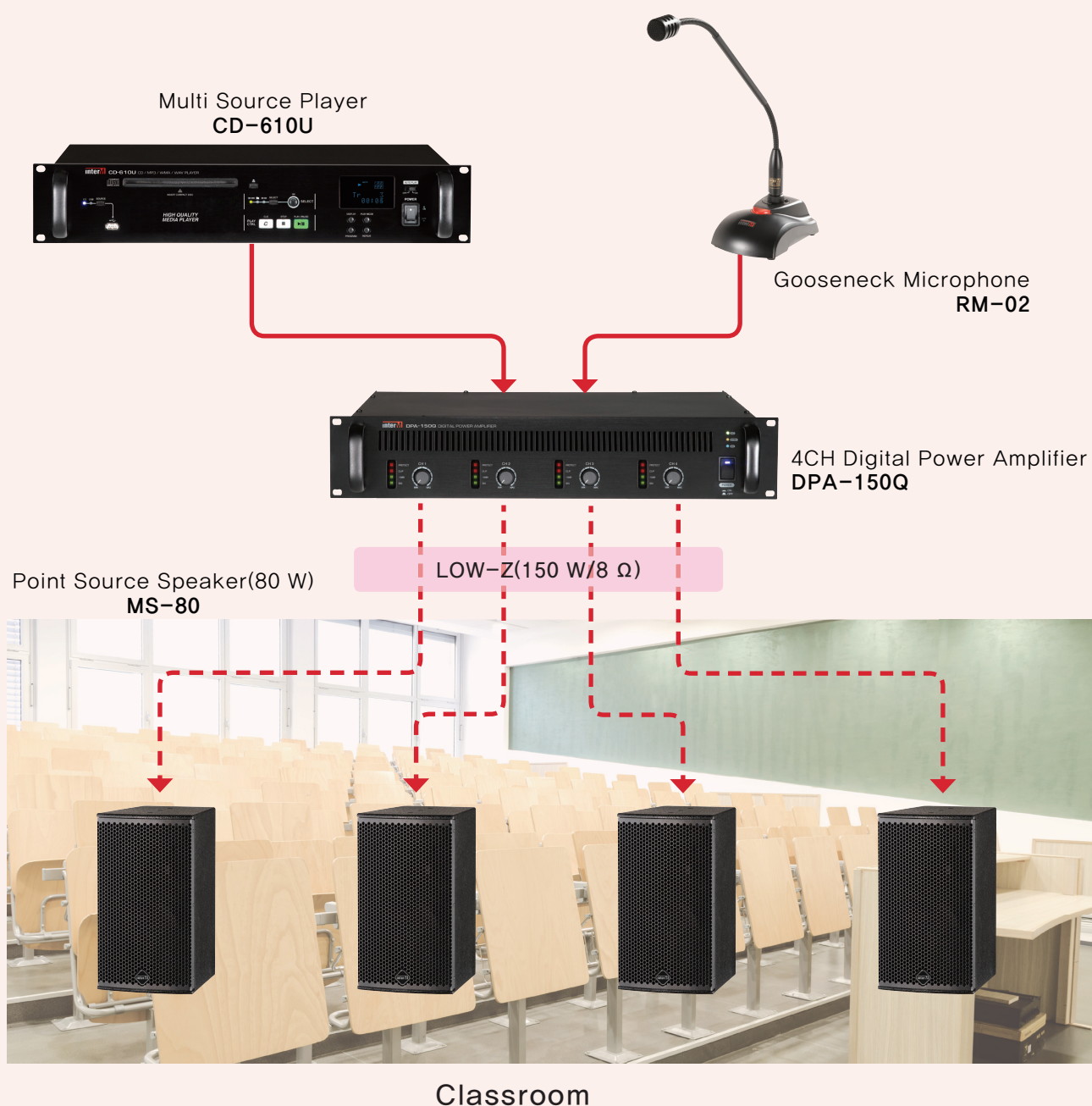


- 1 PRIORITY INPUT and Contact Closure Terminal
- 2 PRIORITY VOLUME Control
- 3 PGM INPUT
- 4 Output Terminal
- 5 OUTPUT VOLTAGE Select Switch(8 Ω , 100 V, 70 V)
- 6 AC Power Terminal
- 7 DC Power Terminal
- 8 AC POWER REMOTE
- 9 Ventilation Hole

APPLICATION 1

• When Used in Small to Medium-sized Places like a Conference Room

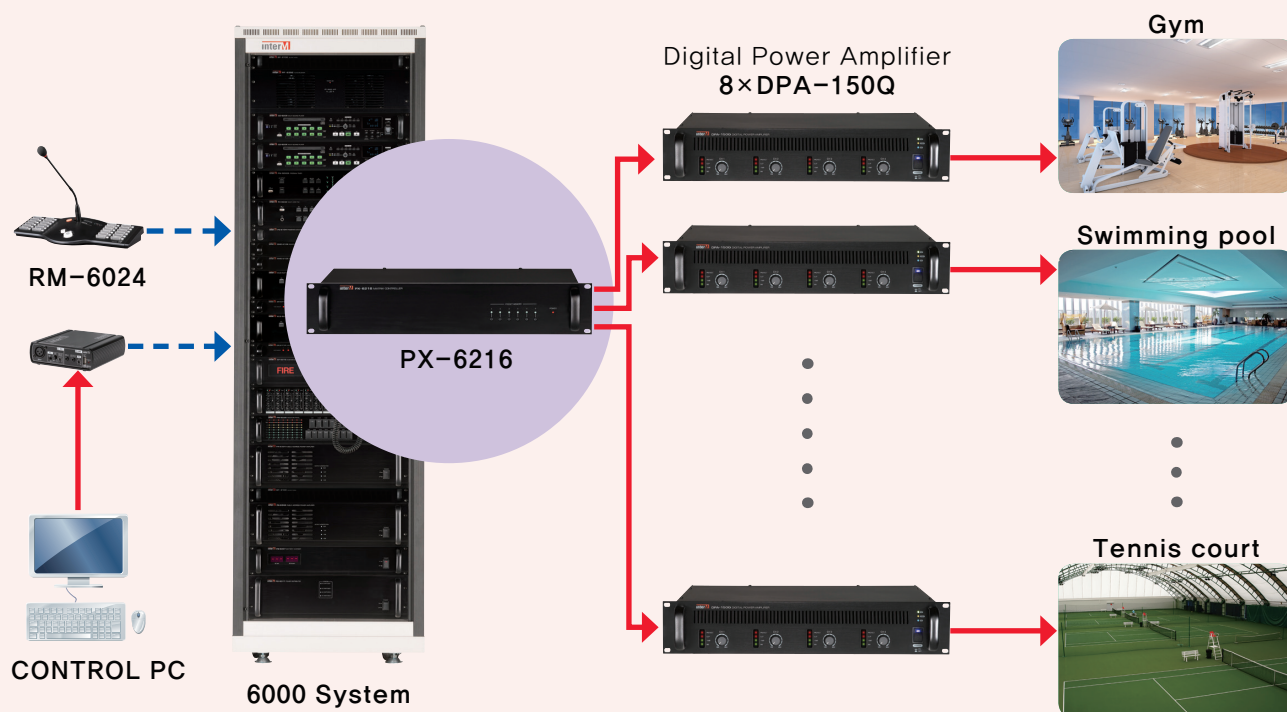
Connect multi source player and wireless microphone that can be played by CD/USB/MP3 to DPA-150Q to build high quality sound system in small to medium-sized venues such as classroom. The system provides clear and dedicate sound with S/N over 100 dB and THD below 0.2 %.



APPLICATION 2

●● When Used in Large-sized Places such as Conference Hall and Department Store

DPA-150Q can be applied to large-sized venues that require separate zone control by interlocking with 6000 system. 6000 system installed in emergency room can separately control sound, background music and emergency broadcasting over the building. With PX-6216 of 16×8, it can selectively deliver sound sources to each zone.



GS Series speaker



GS-50N(20 W)

CI Series speaker



CI-40T(20 W)

CI-60T(30 W)

MS Series speaker



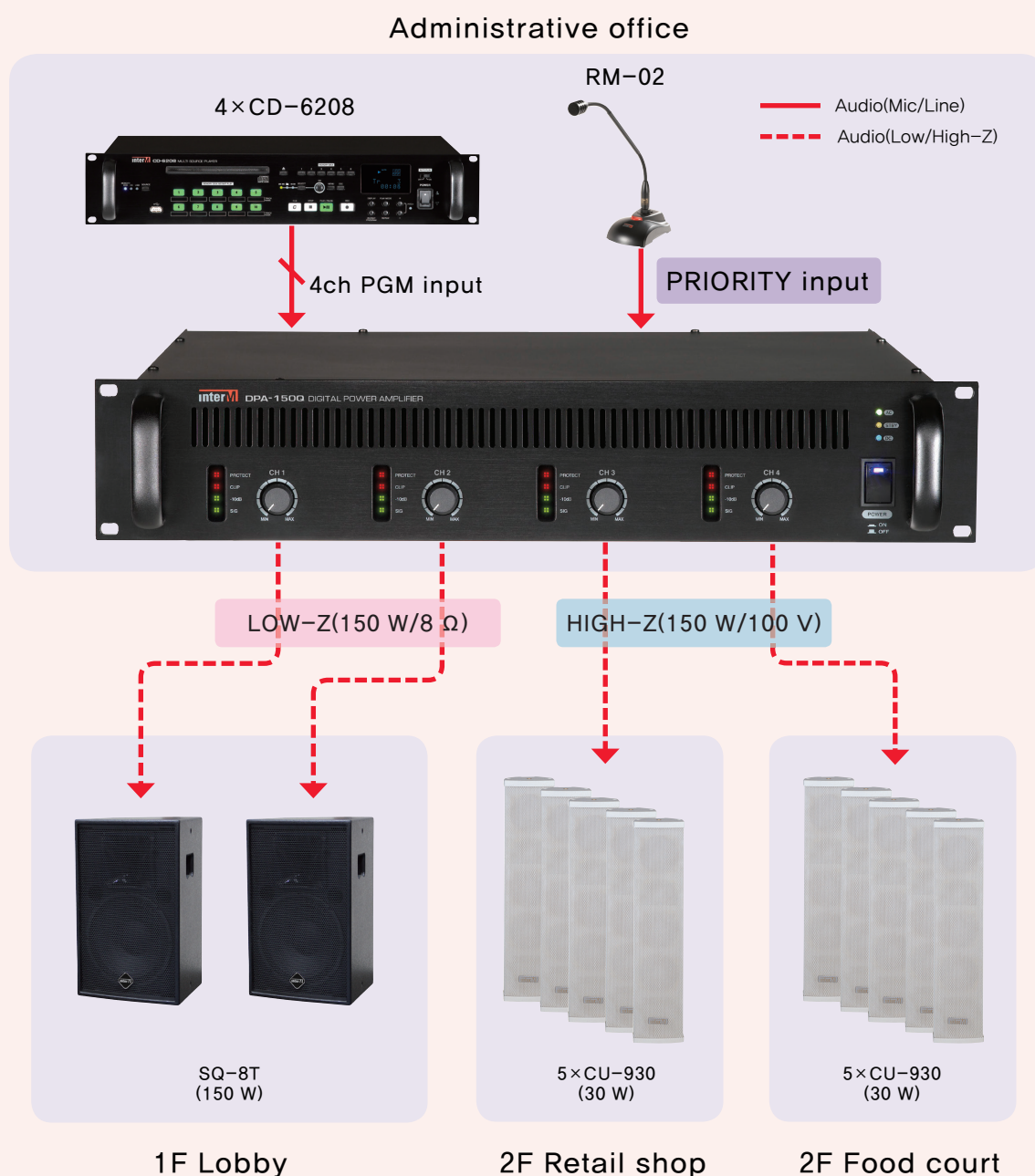
MS-80(80 W)

MS-100(100 W)

APPLICATION 3

● When Used in Small-sized Places such as Stores and Cafeteria

Build the sound system by connecting source devices to the audio input terminal of DPA-150Q in order to broadcast in maximum of 4 zones in small-sized places like stores. Connect the CU-930 to HI-Z terminal which is particularly for distant transmission and the SQ-8K to LO-Z terminal which is for high-quality short-distance transmission. Moreover, with the priority function, emergency broadcasting using the remote microphone, RM-02 is possible.



SPECIFICATIONS

		DPA-150Q
Rated power		150 W×4
Peak Power		180 W/CH
Inpu voltage/Impedance		100 V/66.7 Ω
		70 V/32.7 Ω
		34.6 V/8 Ω
Sensitivity		1 V/10 kΩ
THD	AES17, 1/3 power	Less than 0.2 %
S/N	20 kHz LPF	More than 100 dB
Frequency response	1 W, ±3 dB	50 Hz~20 kHz
Operating temperature		-10 ℃~40 ℃
Power source		AC 100-240 V, 50/60 Hz or DC 24 V
Power consumption		140 W
Weight		6.8 kg/2.2 lbs
Dimensions(W×H×D)		482×88×367 mm/19×3.5×14.4 in

Inter-M Corp. (IMK)



719, Dobong-ro, Dobong-gu, Seoul, Korea
Overseas Sales Team

Tel_ +82-2-2289-8141~7 Fax_ +82-2-2289-8149 E-mail_ overseas@inter-m.com

www.inter-m.com

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

2016. 1. V2