

Product Introduction

PANDA Series Digital Audio Processor

The digital audio processor is a freely designable audio processing and control system product. The front panel comes with a high-definition color screen, which can display the current working status of the device. It adopts advanced DSP processing technology and has new algorithms for automatic mixing and feedback elimination, which are targeted to solve various practical problems in application scenarios. Optional Dante module provides a high-bandwidth, low-latency, high-compatibility and low-cost solution for network audio transmission. The new UI software interface with integrated Dante control software makes debugging more convenient.



Main Features

1. Comprehensive matrix mixing capabilities, 24bit/48KHz sampling frequency, high-performance A/D D/A converter and 32-bit floating-point DSP processor.

2. DSP audio processing, built-in automatic mixing console, while having feedback elimination, echo elimination, noise elimination; settable echo path length, can support the maximum echo off-tail up to 512ms, suitable for use in a variety of large, medium and small conference rooms; embedded noise suppression algorithm can eliminate additional noise in the noise environment; can quickly track feedback path changes, so that the ability to suppress whistling is greatly Enhanced; microphone sound transmission gain improvement of not less than 6 dB; noise suppression to -30 dB, voice completely distortion-free; processing of non-smooth noise, can quickly track noise changes.

- 3. Input Per Channel: Preamplifier, signal generator, expander, compressor, 5-band parametric equalization.
- 4. Output Per Channel: 31-band graphic equalization, delay, crossover, limiter.
- 5. Support Ducker dodger, SPL automatic environmental noise compensation.
- 6. 1.3-inch OLED display, showing the name of the device and IP address.
- 7. Chinese name can be set independently for each channel.
- 8. Test signal generator, sine wave, pink noise, white noise, frequency and level selectable.
- 9. Input phase switch, mute switch, phantom power switch.
- 10. Output mute switch, phase switch for each channel.
- 11. Flexible switching between Chinese, Traditional Chinese and English languages.

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12. One key to display all functional modules.

13. Random storage of Chinese help files and software.

14. Random generation of the central control code; power failure automatic protection memory function; one key reset function.

15. Channel copy, paste, joint control function.

16. The same host allows 10 users to manage, and the user name can be set to Chinese.

17. Equipment name can be modified, Chinese name is allowed.

18. Editable preset mode, new, delete, modify, one key initialization, preset mode can be stored to computer and one key recovery.

19. Input and output channels can be independently set color, one key to restore the switch.

20. Built-in camera tracking function, compatible with VISCA, PELCO-D, PELCO-P three control protocols, support custom commands.

21. Fast operation on the Windows platform.

22. Enternet multi-purpose data transmission and control port, which can support real-time management of single and multiple devices.

23. Intuitive image, simple and easy to understand graphical software control interface, bringing customers a fast, real-time operating experience.

24. The device does not need CD-ROM, it comes with installation software, one device for one software version, solving the troubles caused by the loss of installation CD-ROM and confusion of multiple software versions.

25. Comes with a B/S architecture server, accessible through a web browser, which can realize channel control and scene selection functions, and directly provides a download link to the PC client and platform components.

26. The USB interface can realize the equipment upgrade function.

27. Configuration of bidirectional RS232 interface, RS485 interface, standard Ethernet control interface, 8-channel programmable GPIO control interface (customizable input and output).

28. Support open udp, http control protocols. Open related protocol documentation.

29. Support for 8~100 groups of scene preset functions.

30. Intuitive, graphical software control interface, can work in XP/Windows7, 8, 10 and other system environments.

31. Can provide network audio expansion through the Dante protocol, the number of 32 (16 * 16) channels. Provide primary and backup Dante network audio connection for redundant network installation.

Technical Parameters

Series	PANDA									
Model	44S	88S	16165	44N	88N	1616N	D88S	D1616S	D88N	D1616N
Main configuration function										
DSP Chip	Ti 456MHz FLOPS Dual Core									
USB2.0 Recording/Playback	Support									

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Central Control Command Set Generator	Support									
Input Processing	Preamp, Signal Generator, Expander, Compressor, 5-Band Parametric EQ									
Output Processing	31-Band Graphic Equalizer, Delay, Crossover, Limiter									
Matrix Mixing	Matrix Mixing of Input and Output Signals, Mixing Component Control									
Automatic Camera Tracking					6					
Function	Support									
Scene Presets	100 Groups of Custom Settings									
			Port (Configura	tion					
Analog Input Channel	4	8	16	4	8	16	8	16	8	16
Analog Output Channel	4	8	16	4	8	16	8	16	8	16
Dante Input Channel	/	/	/	/	/	/	8	16	8	16
Dante Output Channel	/	/	/	/	/	/	8	16	8	16
Ethernet Control Port	1	1	1	1	1	1	1	1	1	1
Dante Interface (Primary)	/	/	/	/	/	/	1	1	1	1
Dante Interface (Standby)	/	/	/	/	/	/	1	1	1	1
RS232	1	1	1	1	1	1	1	1	1	1
RS485	1	1	1	1	1	1	1	1	1	1
GPIO	8	8	8	8	8	8	8	8	8	8
WIFI Online	٧	v	v	v	٧	V	v	v	٧	V
Input Gain Amplification	-24~18dB, 3dB, 7 levels in total,									
Balanced/Unbalanced,Input										
/Output Support	Support									
MIC\LINE,Input/Output										
Support					Sup	port				
Independent 48V Phantom										
Power Switch for Each					Sup	port				
Channel										
·		Su	ipport pro	ocessing	algorithm	า				
AFC	٧	V	V	v	٧	٧	V	v	٧	٧
AEC	/	/	/	V	٧	V	/	/	v	v
ANC	/	/	/	v	٧	v	/	/	v	v
AM	٧	v	v	v	٧	v	v	v	v	v
AGC	٧	v	v	v	v	v	v	v	v	v
			Sp	ecificatio	n	,				
Sampling Rate			-		48k@	24bit				
Phantom Power						8V				
Frequency Response	20Hz ~ 20K Hz, ±0.3dB									
THD+N	≤0.005% @1k, 4dBu									
Operating Power Supply	AC110V-220V,50Hz/60Hz									
Operating Temperature	0-40°C									
Chassis Size(WxDxH)	482*258*45(mm)									



