

16 in 16 Out Digital Audio Processor with Screen

S-TRACK® is top 3 audio processor factory in China. The majority of our member has been focusing on the AV field for more than 20 years. 16 In 16 Out Digital Audio Processor with Screen (PANDA 1616N) can also be called as DSP or audio matrix, which has a 1.3-inch OLED display, showing the IP address of the device name and the current working status. It adopts advanced DSP processing technology, supporting Ducker dodger.



S-TRACK® 16 In 16 Out Digital Audio Processor with Screen (PANDA 1616N) Product Introduction:

16 In 16 Out Digital Audio Processor with Screen (PANDA 1616N) has DSP audio processing, built-in automatic mixing console, as well as AFC+AEC+ANC algorithms, support for Ducker dodger, SPL automatic environmental noise compensation. 16 In 16 Out Digital Audio Processor with Screen (PANDA 1616N) supports open udp, http control protocols and open related protocol documentation.

S-TRACK® 16 In 16 Out Digital Audio Processor with Screen (PANDA 1616N) Product Parameters:

Number of Analog Channels	16-CH Balanced/Line Inputs + 16-CH Balanced/Line Outputs
Sampling Rate	48k@24bit

Preamplification	51dB (3dB per file, 17 files in total)
Phantom Power	48V
Frequency Response	20Hz ~ 20K Hz, ± 0.3 dB
THD + N	$\leq 0.005\%$ @1k, 4dBu
Digital-Analog Dynamic Range(A-weighting)	114dB
Analog-Digital Dynamic Range(A-weighting)	120dB
Input Impedance(Balanced)	20k Ω
Output Impedance (Balanced)	100 Ω
EIN(A-weighting)	≤ -125 dBu
Channel Isolation	100dB @1k Hz, 4dBu
Common Mode Rejection	70dB @80 Hz
Maximum Input Level	18dBu
Maximum Output Level	18dBu
Background Noise	-90dBu
System Delay	≤ 9 ms
Working Power	AC110V-220V, 50Hz/60Hz
Working Temperature	0-40 $^{\circ}$ C
Chassis Size (WxDxH)	482*258*45(mm)

S-TRACK® 16 In 16 Out Digital Audio Processor with Screen (PANDA 1616N) Product 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 cancellation, echo cancellation, noise cancellation; 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, divider, 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.
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; automatic power failure 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 set independently of the 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. Convenient and fast web control: built-in web controller, in Windows, Android, iOS and other platforms can be quickly operated.
22. Ethernet 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, to bring 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. Expandable USB interface, not only can realize the device upgrade function, USB music playback and recording 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.

S-TRACK® 16 In 16 Out Digital Audio Processor with Screen (PANDA 1616N) Applications:

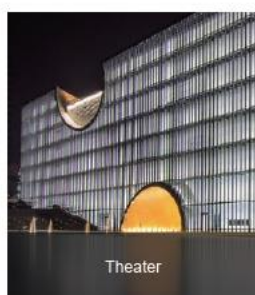
S-TRACK® 16 In 16 Out Digital Audio Processor with Screen (PANDA 1616N) is suitable for large-scale multi-system interconnection projects such as hotels, supermarkets, gymnasiums, transportation hubs, theme parks, corporate headquarters, administrative centers, learning, and so on.



Conference room



Multi-function hal



Theater



Stage