



Audiovisual and lighting controller

Audiovisual and lighting integrated management

platform software V3.154

YK-PT00



Description

This product is a stage audiovisual and lighting comprehensive control center designed and developed for banquet halls, celebration halls, theater theaters, multi-function halls, exhibition halls and various stage performance venues. Adopting deep AI algorithm, it intelligently perceives the music data structure, generates control instructions, automatically dispatches lighting, video, machinery and special effects and other equipment, and coordinates with the live music.

Feature

- * Built-in intelligent music structure analysis technology "PRS", real-time generation of music paragraphs, beats, speed, strength and other data information.
- * Subvert the traditional "drum trigger" control, use the music data output by "PRS" to generate control instructions in real time.
- * Built-in high-quality sound card, with music player function, no need to add additional music playback equipment.
- * Support MP3, ZG and other audio formats for playback, up to 24bit/48KHz decoding, backward compatible.
- * Support audio setting function, users can import the layout parameter table of the speaker. The software will automatically adapt the internal parameters according to the speaker layout and analyze the audio point position to achieve the best use effect.
- * Support turning on or off the external input compensation function to adjust the sound field direction. When the external input compensation function is turned off, the input signal is mainly positioned in the front, right and rear, filling the sound diffraction and space reverberation. When the external input compensation function is turned on, the input signal sound field has no specific direction, and the loudness in each direction is consistent, so as to obtain a uniform sound sense throughout the field.
- * Built-in online music library, providing online music and sound effects for users to choose; using "PRS" intelligent music structure analysis technology to analyze the audio prelude, upswing, downswing, chorus, singing chorus, continuous segment, outro, burst point and other sections, automatically dispatch lighting, video, machinery and other equipment according to the section, and coordinate with the live music.
- * Adopt three-dimensional sound space sound field synthesis algorithm to achieve more accurate, more natural and higher quality three-dimensional space sound effect restoration. Stereoscopic spatial speaker layout, more accurate sound positioning, clearer imaging, smoother sound effect movement. The speaker space layout is free and flexible, adapting to various types of venues and scenes, and each scene can achieve realistic three-dimensional sound space effects and immersive experience. Integrated music cloud and three-dimensional space music player, immersive music is presented in real time.
- * Support music arrangement function, can classify different music, and provide three different tags: sharing, local, and sound effects; users can create playlists and add their favorite songs to the playlists.
- * Supports setting linkage control function, can preset input scene mode in advance, users can set volume increase and decrease, play, pause, next song, mode setting and other functions, and provides OSC protocol, 485/232 protocol and BPM output central control instructions.
- * Supports setting linkage control mode output function, can preset output scene mode in advance, trigger preset mode through control panel; can be linked with lights and videos according to song BPM value, so that lights, videos and song rhythm are triggered synchronously; provides OSC protocol, 485/232 protocol/BPM output central control instructions.
- * Supports central control graphical programming mode, users can customize interface pictures, texts, numbers, buttons, switches, drop-down boxes, group names, border colors and other interface modules, which is convenient and fast.
- * Supports creating scene modes, can edit mode names, preset songs or playlists corresponding to scene modes in advance, audio linkage mode selection, video linkage mode selection; preset input channel volume, delay compensation, 8-band EQ balance adjustment function; preset output channel subwoofer, stereo, 3D surround, stereo sub-channel volume.
- * Supports dante network transmission function, with 10 input and 16 output audio transmission channels.
- * With 1 WAN network interface and 12 LAN network interfaces, internal communication can be realized through the network interface.
- * With 4 XLR inputs and 4 XLR outputs, supports 8-band EQ adjustment, and supports input and output delay settings.
- * With 1 RS485 and 1 RS232, which can be expanded to 32 channels at most, and can control third-party devices.
- * With 2 USB2.0, support music import and data backup.
- * With 1 HDMI output interface, display host client interface.
- * With central control platform function, support OSC, UDP, 485, 232 protocols, two-way communication, and real-time feedback of control status.
- * Support sending and receiving multiple data types such as UTF-8, Hex, Int, Float, Double, etc. to meet the needs of different devices and applications.
- * Equipped with tablet control software (Android), users can customize to a high degree, supporting customization of UI interface, space scene, and operation functions.

- * Support cloud backup and remote service, and remotely access and control the device through the Internet.
- * Support SMPTE time code function (LTC) to accurately synchronize audio and video signals, ensuring seamless connection between audio and video during playback, thereby providing a professional-level high-quality audio-visual experience.
- * Support docking with image processors, transmit audio and video signals through network interfaces, and automatically play pre-set videos.
- * Support docking with lighting processors, transmit audio signals through network interfaces, receive lighting control instructions, and realize automatic linkage of lighting.

Specification

Model	YK-PT00
Processor	Intel i3 10th generation processor
Storage	8GB RAM, 128GB SSD
Control protocol	OSC, RS485, RS232, UDP
USB interface	2×USB2.0
Network interface	1×WAN, 12×LAN
Audio interface	4×XLR-F, 4×XLR-M
Video output interface	1×HDMI
Control interface	1×RS485、1×RS232
Frequency response	20Hz-20kHz
THD	0.003%@1kHz
Clock accuracy	±0.1ppm
SNR	102dB
Sampling frequency	48kHz
Power supply	DC12V-6A
Weight	3.8kg
Dimensions (W×D×H)	483mm×320mm×40mm

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