Singxer SDA-6 User Handbook

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Singxer SDA-6 DAC User Handbook

1. Thank you for choosing Singxer product. Please check the appearance and all its accessories carefully once you have Singxer SDA-6 in hand.

2. Before you supply AC mains power to the SDA-6, please check your power supply AC voltage. There are 2 kinds of input AC voltage selectable according to the switch label 110V and 220V. 110V is for input AC voltage 100-120VAC and 200-240V is for input AC voltage 230VAC. Attention: wrong AC voltage input will damage the SDA-6. Once power cable is connected, turn on the power switch and you will see the power indicator turned on.

3. Connect the SDA-6 to a computer or digital player via USB Type A to Type B cable. (Note: USB's 5V power supply can not be open circuited); For WINDOWS system, it requires the SDA-6 driver to be installed, although the SDA-6 can be used without driver under the latest version of WINDOWS 10, it is recommended to use the driver we provided; Linux or MAC system has built-in driver included for the SDA-6, there is no need to install driver on the latest version of Linux or MAC system.

4. Once the SDA-6 is recognized by your computer or digital player, please ensure "Singxer SDA-6" is selected as the output device in your computer system or digital player setting; While playing music, the SDA-6 will display the corresponding sample rate.

5. Most music players require proper setting for DSD playback. If you see the DSD sample rate isn't displayed correctly, most likely it is due to the incorrect player settings. Please refer to our other support documents for any detail.

6. The front panel of the SDA-6 displays visual information via an OLED screen on the middle side (no touch function); There are 5 aspects of information, which are digital filters (D-filter), PLL option, Clock option, current input source and sample rate.

7. Digital Filters: There are 6 digital filters in PCM mode, SHARP/SLOW/SHORT SHARP/SHORT SLOW/NOS/ LOW-DISPERSION; In DSD mode, the SDA-6 uses only NOS (no oversampling) as the digital filter.

8. PLL option: the setting switchs at the bottom of the machine, and the eighth switch controlled the PLL. When it is ON, the PLL is turned on, and when it is OFF, PLL is turned off. The PLL option is valid when optical, coaxial, AES, and BNC are input. PLL LOCK is displayed when the PLL is locked normally. PLL is turned on by factory default.

9. Clock options: select the clock source is the internal clock or the external clock.
   In USB mode, it supports 10M clock and the level is 0.5V-3.3V VPP. The input impedance is adjustable, and the adjustment switch is the eighth switch at the bottom of the chassis. It is 50 ohms when it is ON, and 75 ohms when it is OFF.
   In the coaxial mode (optical, coaxial, AES, BNC input), it supported WCK (sampling rate, WCLK) , the level is TTL, and the input impedance is standard 75 ohms (not controlled by switch 8 at this time).
   When EXT CLOCK LOCK is displayed, the external clock is used.
   When PLL LOCK and EXT CLOCK LOCK are displayed at the same time, the external clock is preferred.
   I2S input adopts the bypass mode, and does not support PLL and external clock.

10. Input source selection: By single-pressing INPUT button you can switch different input source, in order USB, I2S, OPT, COAX,AES and BNC. All input interfaces accept DSD signal, USB and I2S accept both DSD native and DSD DOP signal, while OPT, COAX ,AES and BNC only accept DSD DOP signal. For I2S input, please configure the DIP switch at the bottom of the chassis since there are different I2S line order from different audio source equipment.

11. Sample rate display: PCM is from 44.1Khz up to 768Khz, DSD is from 2.82Mhz up to 24.57Mhz, known as DSD64 up to DSD512

12. The four buttons at front panel are Standby, D-filter,CLK and INPUT. Mutes audio output or restores audio from mute by single pressing the Standby button, OLED will display MUTE in mute mode. Hold and press it for 2 seconds will switch the SDA-6 to standby mode. OLED screen will be off and the standby LED on the left side of OLED screen will light up, you can press any button to exit standby mode. In the standby mode, only the audio output is turned off whilst the internal circuit is still working as normal.

13. The function key of our prepared remote control mirrors each function of mentioned buttons above. POWER label stands for standby, and the white one above is the LED indicator. The six key functions of V+, V-,PLL, Bri, INV, and PRE are reserve keys, which have no effect on SDA-6.

SDA-6 解码器快速使用手册

1. 感谢你选择 Singxer 的产品,拿到机器后,请先检查机器外观是否完整,配件是否齐全。

2. 接入电源线,开机前请检查电源电压是否合适,输入电压有 2 种,标签 110V/220V,对应的电压是 100-120V/200-240VAC;插入电源插头,打开电源开关,电源插座的灯亮起。

3. 插入 USB 线,连接电脑或者数字播放器,USB 需要带 5V 的电源。WINDOWS 系统需要安装我们提供的驱动程序,WIN10 最新版本可以免驱使用,但是推荐使用我们提供的驱动;LINUX 和 MAC 自带驱动,不需要另外安装驱动。

4. 电脑或者数字播放器识别到 SDA-6 之后,设置播放器,选择 SDA-6 作为输出设备;点击播放,SDA-6 显示对应的采样率。

5. 多数播放器设置正确才能播放 DSD;如果 DSD 采样率显示不对,大部分情况是 DSD 播放设置问题;设置步骤请参考我们的其他文档。

6. SDA-6 的前面板采用 OLED 屏显示各种信息,没有触摸功能;一共 5 个区域显示,分别是数字滤波器(D-filter),PLL 选项,时钟选项,输入源和采样率。

7. 数字滤波器在 PCM 模式下有 6 种,分别是 SHARP/SLOW/SHORT SHARP/SHORT SLOW/NOS/LOW-DISPERSION ;DSD 模式下只有 NOS 一种。

8. PLL 选项:设置开关在机器底部拔码开关,第八个开关控制。ON 的时候,控制 PLL 打开,OFF 的时候关闭。PLL 选项仅在光纤,同轴,AES,BNC 输入的时候有效,PLL 锁定正常的时候显示 PLL LOCK。出厂默认是打开 PLL 的。

9. 时钟选项:选择时钟源是内部时钟还是通过 EXT CLOCK BNC 接口输入。
   USB 模式下,支持 10M 时钟,电平为 0.5V-3.3V VPP。输入阻抗可调,调节开关在机箱底部的第八个开关。ON 的时候为 50 欧,OFF 的时候为 75 欧。
   同轴模式下(光纤,同轴,AES,BNC 输入),仅支持 WCK(即采样率,WCLK),电平为 TTL,输入阻抗为标准的 75 欧(此时不受开关 8 的控制)。
   当显示 EXT CLOCK LOCK 的时候,即使用外部时钟。

当同时显示 PLL LOCK 和 EXT CLOCK LOCK 的时候，优先使用外部时钟。

I2S 输入采用直通模式，不支持 PLL 和外部时钟。

10. 输入源选择，依次为 USB,I2S,OPT,COAX,AES,BNC；单按 INPUT 循环选择输入源；所有输入接口均支持 DSD,其中 OPT,COAX,AES,BNC 支持 DSD DOP. 使用 I2S 的时候，请注意配置机箱底部的 DIP 开关，以对应不同的线序。（具体设置请参考相关文档）

11. 采样率显示：PCM 为 44.1K-768K，DSD 为 2.82M-24.57M，分别对应 DSD64-DSD512。

12. 四个按键是 Standby,CLK,D-filter,INPUT. 单击 Standby 按键是控制输出静音，OLED 显示 MUTE；长按 2 秒是进入待机状态，OLED 屏关闭，OLED 屏左边的 LED 待机灯亮起，按下任意键退出待机。待机状态下，只是关闭了输出，但是内部电路是正常工作的。

13. 遥控器的功能和上述按键旋钮的功能是对应的，MUTE 是静音，POWER 标注代表待机，上面白色的是 LED 指示灯。PLL,Bri,INV,V+,V-,PRE 六个键功能为备用键，在 SDA-6 上面无作用。

SDA-6 HDMI-I2S jumper setting table

SW	Describe（ON）	Silk screen	PS Audio Audio-GD MATRIX	HOLO Audio	GUSTARD	L.K.S
SW1	DSD_ON OUTPUT FOR PIN13 (DSD ON 使能引脚 PIN13 输入)	HP13	OFF	OFF	OFF	OFF
SW2	DSD_ON OUTPUT FOR PIN14 (DSD ON 使能引脚 PIN14 输入)	HP14	OFF	OFF	OFF	ON
SW3	DSD_ON OUTPUT FOR PIN15 (DSD ON 使能引脚 PIN15 输入)	HP15	OFF	OFF	ON	OFF
SW4	DSD_ON OUTPUT FOR PIN16 (DSD ON 使能引脚 PIN16 输入)	HP16	OFF	OFF	OFF	OFF
SW5	PCM/DSD AUTO DETECTION （PCM/DSD 自动检测）	DSD_AUTO	OFF	OFF	ON	ON
SW6	LRCLK ADN DATA SIGNAL EXCHANGE（LRCLK 和 DATA 信号反相）	BCH	OFF	OFF	ON	ON
SW7	DSD LR CHANNEL EXCHANGE （DSD 左右声道互换）	DSDCH	ON	OFF	OFF	ON
SW8	PLL switch, input impedance selection （PLL 开关，输入阻抗选择）					