

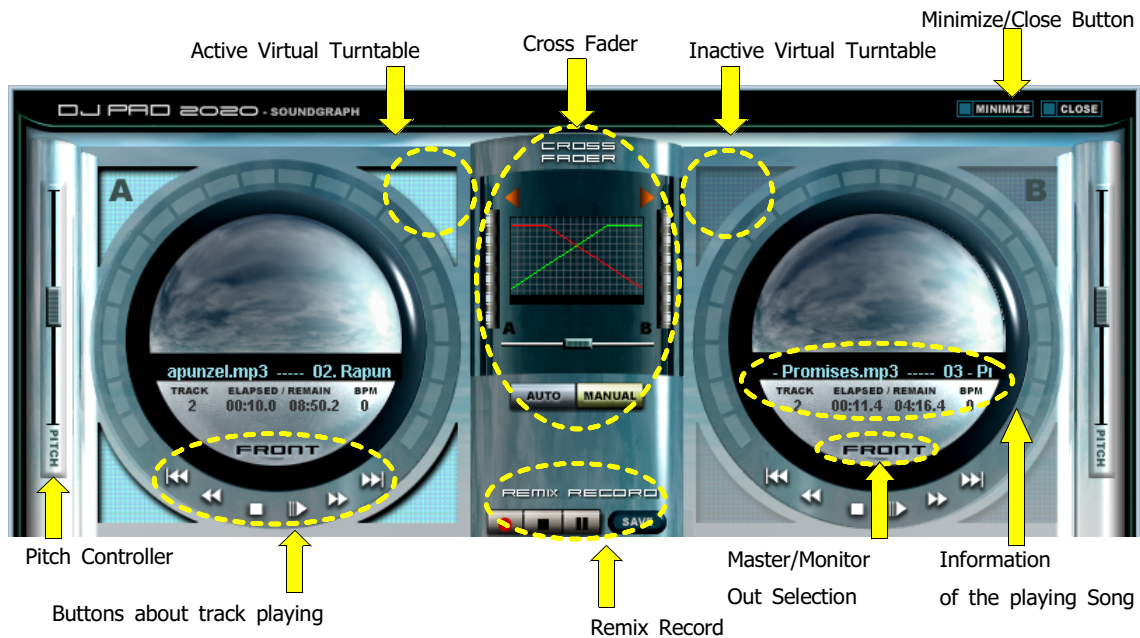


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DJPAD2020 H/W uses the USB connection to the PC, and its usage is so simple. Just plug the USB connector into the USB port of your PC. Users can see the two red LEDs light on the black status window in the DJPAD2020 H/W after connection of the H/W to your PC. If there is no response from this window, please pull out USB connector from the USB port and plug it again. It will work nicely.

5. Part of DJPAD2020 S/W

5.1 Virtual Turntable Window



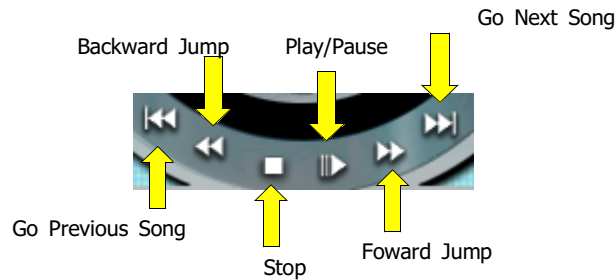
(Fig. 4) Dual Virtual Turntable Window

● Dual Virtual Turn Tables

DJPAD2020 S/W has the powerful MP3, CD and wave file play engine, and this engine can play two songs at the same time - Track A and Track B. There is a cloud moving animation in the lens-shaped circle during the play of song and this window gives you the information about the tracks like the track No., the name, the real time, BPM of the playing song, master/monitor route, and the basic operating buttons - play&pause, stop, forward/backward jump, next song play, previous song play. etc.

● Playing Buttons

If you click the "Backward/Forward Jump" buttons, the playing point will jump to forward or backward with 5sec time difference. Regarding the "Go Previous/Next Song" buttons, if you click these button, the playing point will move instantly to the start point point of the song or move to the start point of the next song. And "Play/Pause" button will play or pause the playing song, also using "Space Bar" in your keyboard, you can play and pause the active turntable. You can see the name of the playing buttons below ure.



(Fig. 5) Playing Buttons

As you see, when the background of the turntable is highlighted, that turntable is active. Then, the volume of this virtual turntable is under the control of slider in DJPAD2020 H/W. If you choose the both turntables at the same time(See Chapter 4.5), the knob in the Cross Fader will be highlighted automatically, then you can control the Cross Fader by the slider in DJPAD2020 H/W.

● FRONT & MON

If you click "FRONT" on the virtual turntable, you will see it will change to "MON". "FRONT" means the song of that track will go to the stage through Master Out and "MON" means the song of that track will be monitored into the headphone through Monitor Out. As we described before, if you have the 3D sound card, you can use this monitor function. In the chapter 6.6 Mixer, it will be explained more.

● Pitch Controller

At the both sides of the each virtual turntable, there are pitch adjustment sliders. Pitch adjustment means the change of the playing speed. So users can switch smoothly from one song to another without a seam or break of rhythm. If you choose this slider in S/W, the knob of the slider will be highlighted. Then, Pitch Controller is under control of the slider in DJPAD2020 H/W. You can control the pitch of song from 50% to 150%. If you save BPM of the song(See Chapter 6.1 Play List - BPM Calculator), it will change the pitch by BPM and you will see the change of the BPM on the virtual turntable. In this case, you can save BPM of songs from 2 turntables and synchronize 2 songs by the pitch control of the each song. In the analog system, DJs make pitch adjustment by their feeling. But in DJPAD2020, there is a powerful BPM calculator so that users can save the BPM data of the songs and make a precise pitch adjustment easily.

● Manual Cross Fader

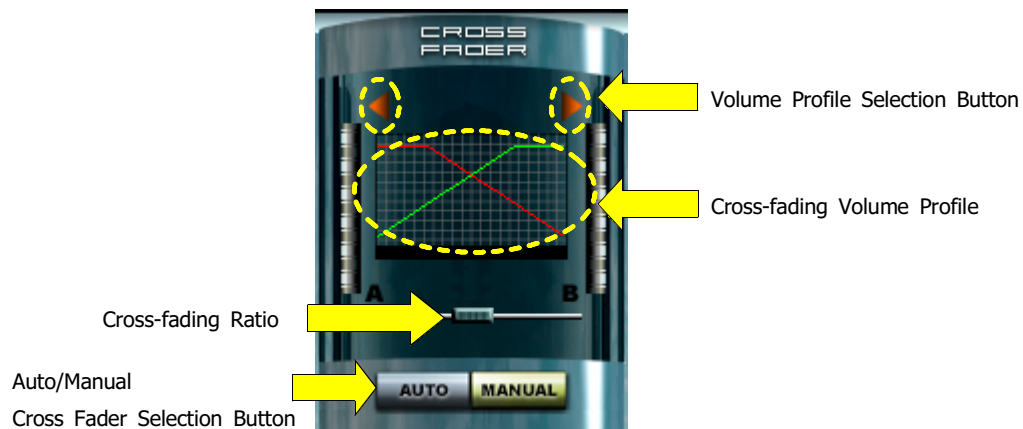
The virtual turntable window contains the virtual mixer between the 2 virtual turntables.

Users must confirm the backgrounds of the both virtual turntables highlight, before they use Manual Cross Fader function.

To get the dual co-active virtual turntables (backgrounds of 2 virtual turn tables are highlighted), you can put the Forward/Backward button until you get the both turntables' backgrounds are highlighted (See Chapter 4.5 Forward/Backward Button). If the both backgrounds are highlighted, user can change the value of cross-fade slider easily using the slider of the H/W. You can also change the Cross Fader in S/W using the mouse dragging. But, it will be more convenient and faster to use the slider in the H/W.

The Manual Cross Fader is used to mix two songs from each track manually. It can make the volume change of the two songs according to the user-editable volume profile curve. If you click the profile selection button above the volume profile curve in Cross Fader area, you will see the change of this volume profile curve. There are 4 different types of volume profiles in the program, and we, SoundGraph, have a plan to provide the special volume profiles using the S/W upgrade for free. So, users can choose the one which they prefer for the Cross Fader effect.

DJPAD2020 S/W can control the volume of two digital audio tracks separately or simultaneously. In the separate mode(just one of the backgrounds is highlighted), the volume slider of the highlighted turntable is activated independently from the Cross Fader. But in the simultaneous mode(the both backgrounds are highlighted), the Cross Fader slider controls each track volume at the same time according to the volume profile curve.



(Fig. 6) Cross Fader

● Auto Cross Fader

Auto Cross Fader can control the volumes of the songs from one track to another automatically and relatively according to the user-editable volume profile curve. This Auto Cross Fader is a very useful function especially when users play the songs continuously without stopping for long time.

In the Cross Fader area, there is a button "AUTO". If you click the this button(Please be sure that you have to push this button when just one song is played from one track), the new button "FADE GO" will appear just under "AUTO" and "Manual" buttons. Also, you will see "FADE TIME" and preset time(10sec) along the slider below the volume profile curve. Now this slider is to change the auto cross fading time.

For example, if you push the "AUTO" button while one song is played, now you just set Auto Cross Fader function. If the set time is 10 sec, exactly 10sec before the playing song ends, Auto Cross Fader is in active. So you will see little cursor just under the volume profile curve will move from track A to track B (or from B to A). So, for 10 sec, the playing song will be ended completely and the other song from another track will fully start according to the volume profile curve. You can choose the 4 different types of volume profile curve by clicking cross fade volume profile selection button according to your preference. Also you can change the auto cross fading time from 0 to 20 sec.

The order of the playing songs in this mode will be like No.1 song of track A -> No.1 song of track B -> No.2 song track A -> No.2 song of track B..., until the last song of one track. Of course the playing order will be reverse if you start from track B. If you click on Loop List button, it will loop the songs in the list between A and B track. In this mode, playing will be continued until you cancel the Loop function or Auto Cross Fade mode. (See "Loop List" in Chapter 6.1)