www.plusdeck.com

plus deck
PC Cassette Deck

Introduction of Plusdeck

A product which enables all the Cassette Deck's function on PC.Operated all of functions of cassette deck in PC

- Records all the sounds from PC onto Tape
- Records MP3 files, and all the internet streaming from PC onto Tape
- Use general cassette audio. Can be used all the audio.
- Hi quality record/playback as Hi-Fi audio.
- Play tape on PC/Converting sound from PC into MP3 files

- Records all kinds of sound sources on Cassette Tape.
- Records sounds from Internet contents - Web learning, Internet Radio, Flash movie, etc onto Tape
- Records CD sound onto Cassette Tape
- Dub voice with mic on Tape
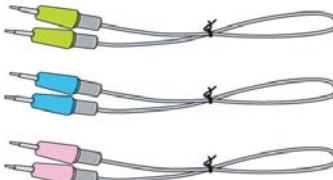
Now, you can listen all the PC sound from wherever you want

suggestions for installation or usage

- If any of the parts are missing or defective, call 080-337-2601 or contact our retailer.

- Please consult your manual for precise installation and your safety.

- Please visit our web site www.plusdeck.com for more detailed explanation and updated news.
  (The contents of manual would be changed without notice for improvement.)

- It's not permitted to change and copy the manual without previous agreement with BTO Co.,Ltd

The parts

Plusdeck	bracket	20pin cable
mini-to-mini audio cable 3EA	com port serial cable	Bolts
Software Diskette	maunal.	

OS support

- MS window 95/98/ME, MS Windows NT 4.0/2000/XP

## System requirements

- Pentium 133Mhz or higher CPU
- System memory 16MB or higher
- 1 * Slot 5.25˜ Bay / Soundcard (or on board soundcard)

SPEC

Size (W * H * D)	145 * 40 * 215
Tape Speed	4.75cm/sec
Wow & Flutter	0.09%(WRMS)
Frequency Response	30~18,000Hz
Separation	40dB
Signal-to-Noise Ratio	55dB
Power Supply	DC 12V / DC 5V

how to install hardware
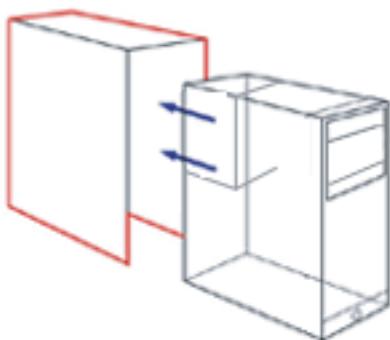
1.Turn off the power on PC and seperate cover of PC
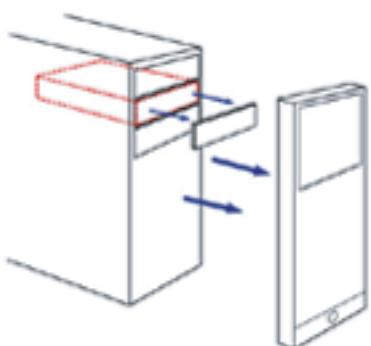
2. Remove the front panel from the bay that will hold the Plusdeck(In some cases, you may have to remove the whole front panel from PC)
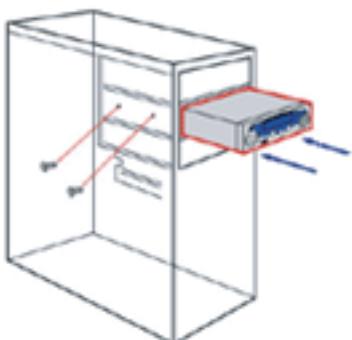
3. Insert the Plusdeck in the empty space refer to manual and fix it with included bolt

20 pin cable

power cable
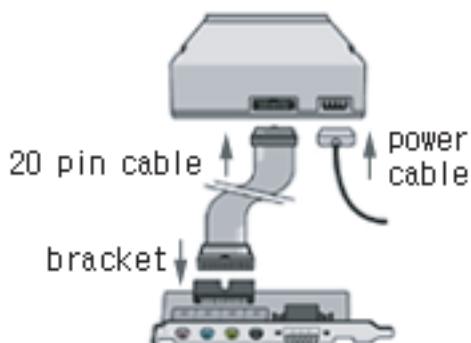
bracket

4. Connect the power cable from PC to the back of Plusdeck, And connect the Plusdeck and Bracket with included 20 pin cable.
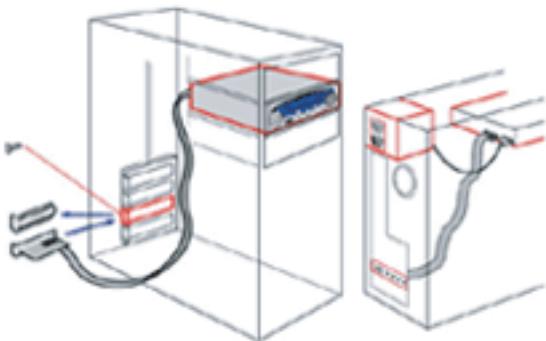
5. Put bracket in empty slot and screw down.
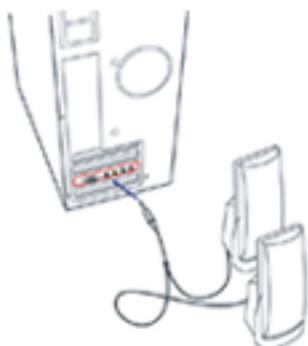
6. Connect the cable of speaker(headphone) to black jack on bracket.
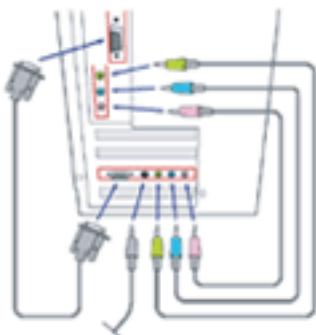
7. Connect the Soundcard of PC to installed bracket by with included audio cables (You can connect them with color coding) and connect the serial port with included serial cable.(If the jack of sound card doesn't have color coding on jacks, please connect sound card's Line In with Plusdeck's Line Out, sound card's Line Out with plusdeck's Line In, sound card's Mic with plusdeck's Mic jack)
notice : You can connect green cable with orange speaker out jack if sound card doesn't have green line-out jack
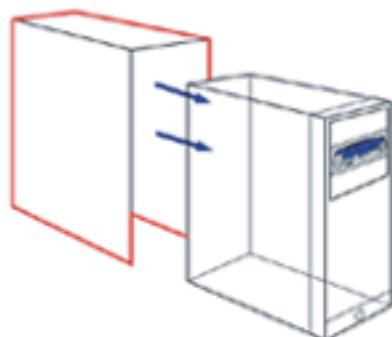
8. Reassemble Pc and turn on power to install the software.

Installation of Softwar

To install software, insert included software diskette and run setup.exe on A drive
To run software, double click on icon of screen or select program on Start menu

Confirmation

It is correctly connected if you can hear sound from sound card and playback of Tape
If you can't listen any sound from PC, you may have disabled line-in input on sound control
or wrongly connected audio cables(7.)

Notice

If you register your Plusdeck product at www.plusdeck.com, you can get more information
and updated software for free.

Basic Function
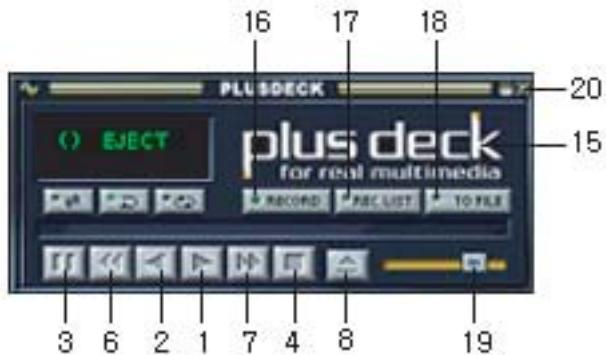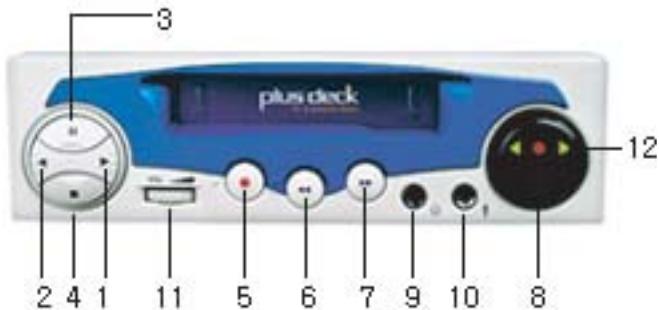
|	num	icon	function	description
	1	▶	A Play	Playback A side
	2	◀	B Play	Playback B side
	3	‖	Pause	Pause playback or recording
	4	■	Stop	Stop operation of deck.
	5	●	Record	Ready to record on tape, after choosing the direction ◀ or ▶ recording begins
	6	◀◀	Fast-forwarding	Rewinding tape to the beginning of A side/ fast-forwarding tape to the end of B side
	7	▶▶	Fast-rewinding	Fast-forwarding tape to the end of A side/ Rewinding tape to the beginning of A side
	8	▲	Eject	Eject tape from Plusdeck or insert tape into Plusdeck
H/W	9		Headphone	Headphone jack (If connected, sound will hearable only by headphone)
	10		MIC	It's possible to dub and to record voice on tape to connect a microphone.
	11		Volume control	Volume control for headphone.
	12	◀●▶	Operation indicator	Operation indicator on Plusdeck (2 colors, 3 LED)
	13	() EJECT	Operation indicator	Operation indicator on Software
S/W	14		Reverse Mode	Auto reverse mode selector.(Single-side playback, Loop playback, Continuous Playback)
	15	plus deck	Plusdeck	Link to www.plusdeck.com
	16	● RECORD	Record	The function of 5 is same as ●
	17	■REC.LIST	REC.LIST	The function to record the stored MP3 in computer in regular order
	18	■ TO FILE	To File	Encoding a tape into MP3
	19		Volum	Volume control for playback.
	20		Close	Exit from the software

Extra Function
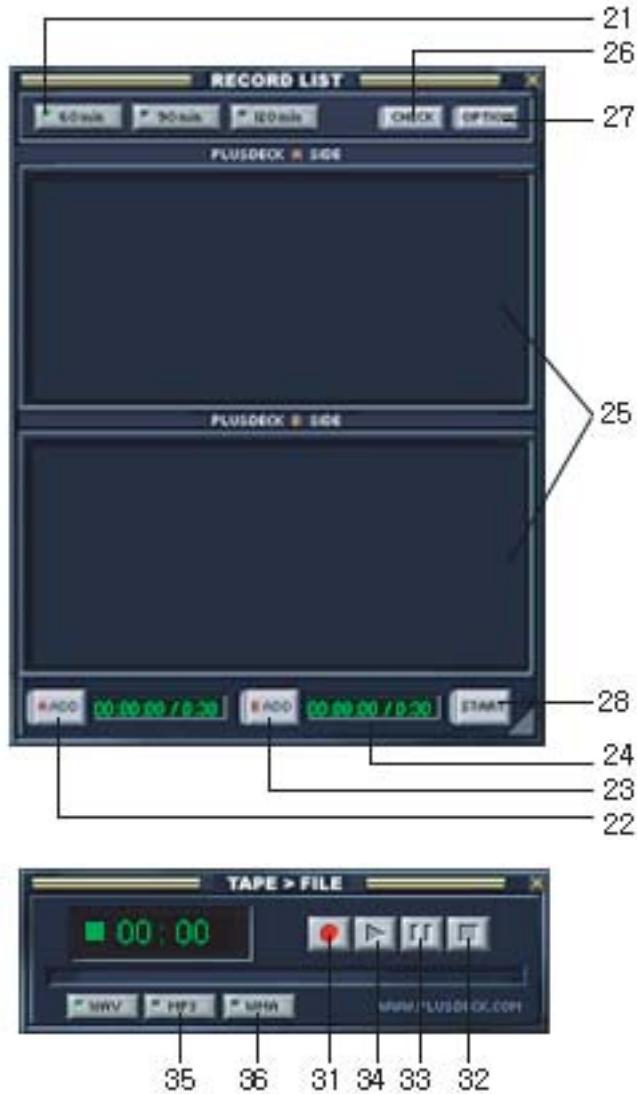
REC. LIST (Tape recording wizard for recording MP3 on tape in desired order)

21. Tape selection : Select type of tape as your desired recording time.(60 minutes, 90 minutes, 120 minutes)
22. A Add: Add music file to side A of tape
23. B Add: Add music file to side B of tape
24. Play Time Counter: The front part indicates estimated recording time of selected music,the last is a available recording time on tape
25. Displaying selected music file lists on each side. (The music files of each side can be freely moved by drag and drop)
26. Before start recording, you can rewind a tape to ready for recording and adjust the recording volume on this button
27. You can insert 3 seconds mute between music files or save recording file list into txt file
28.   Start to record selected files on tape

**To File (Converting sounds of tape into digital file)**

31. Converting sound from tape into digital file. (Default: wav)
32. Stop converting
33. Pause encoding the sound
34. Playing converted file.
35. Converting WAV to MP3 file. You can select bitrate by clicking the right button of mouse.
36. Converting WAV to mp3 file. (It will be available from next version.)

Sound set-up

1. The recording quality of tape can be affected by volume of master and Line-input. (The volume of speaker will not affect the recording quality of tape) Before start important recording, please make sure you have set the optimal volume set-up through the test.

- Double click on icon of speaker, then adjust the master volume and Line- input volume between 50 ~70% level.
- Too high or low volume on in/output could harm sound quality. The optimal setup of volume is varied by PC or sound card.
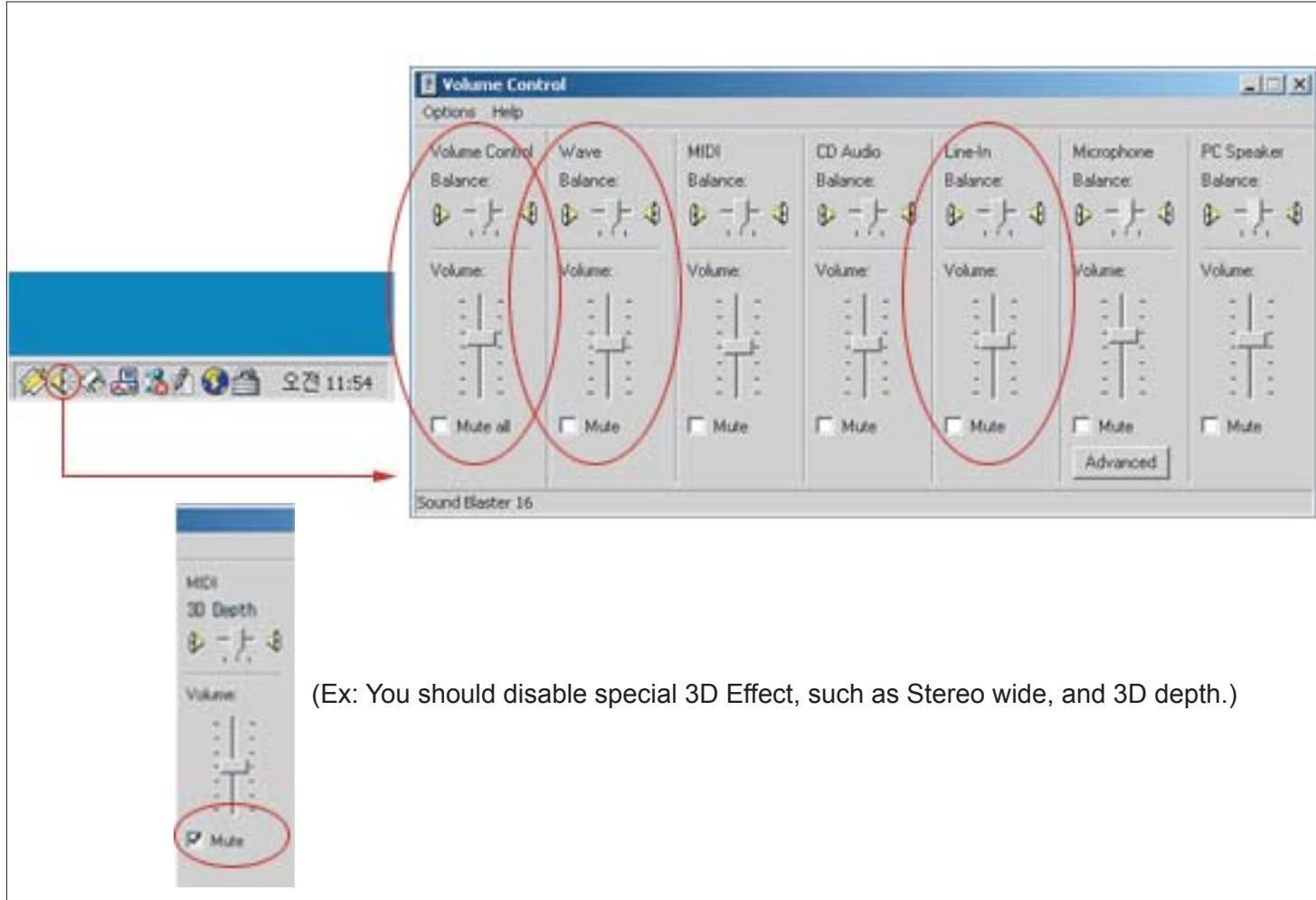
(Ex: You should disable special 3D Effect, such as Stereo wide, and 3D depth.)

2. In case of some sound card, you may need to change sound card option to prevent distort of recording sound.
(For more information, please visit our web site www.plusdeck.com.)
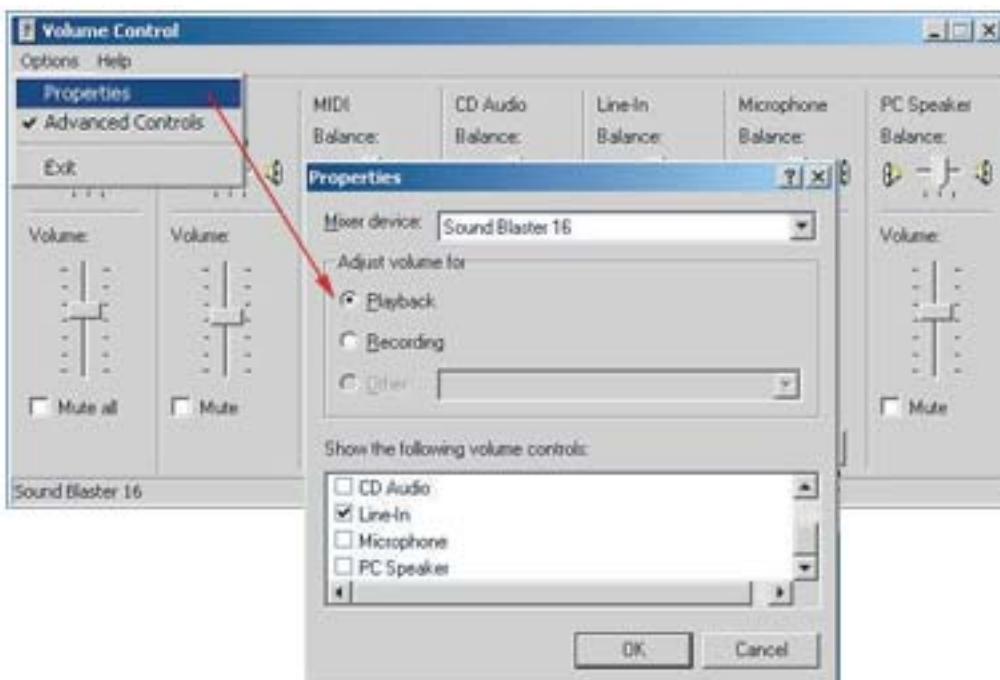
3. To convert sound from tape into digital file, you have to select Line-input as a recording input (: Preference ▶ Record ▶ Select Line-input ▶ Check ▶ Adjusting recording)
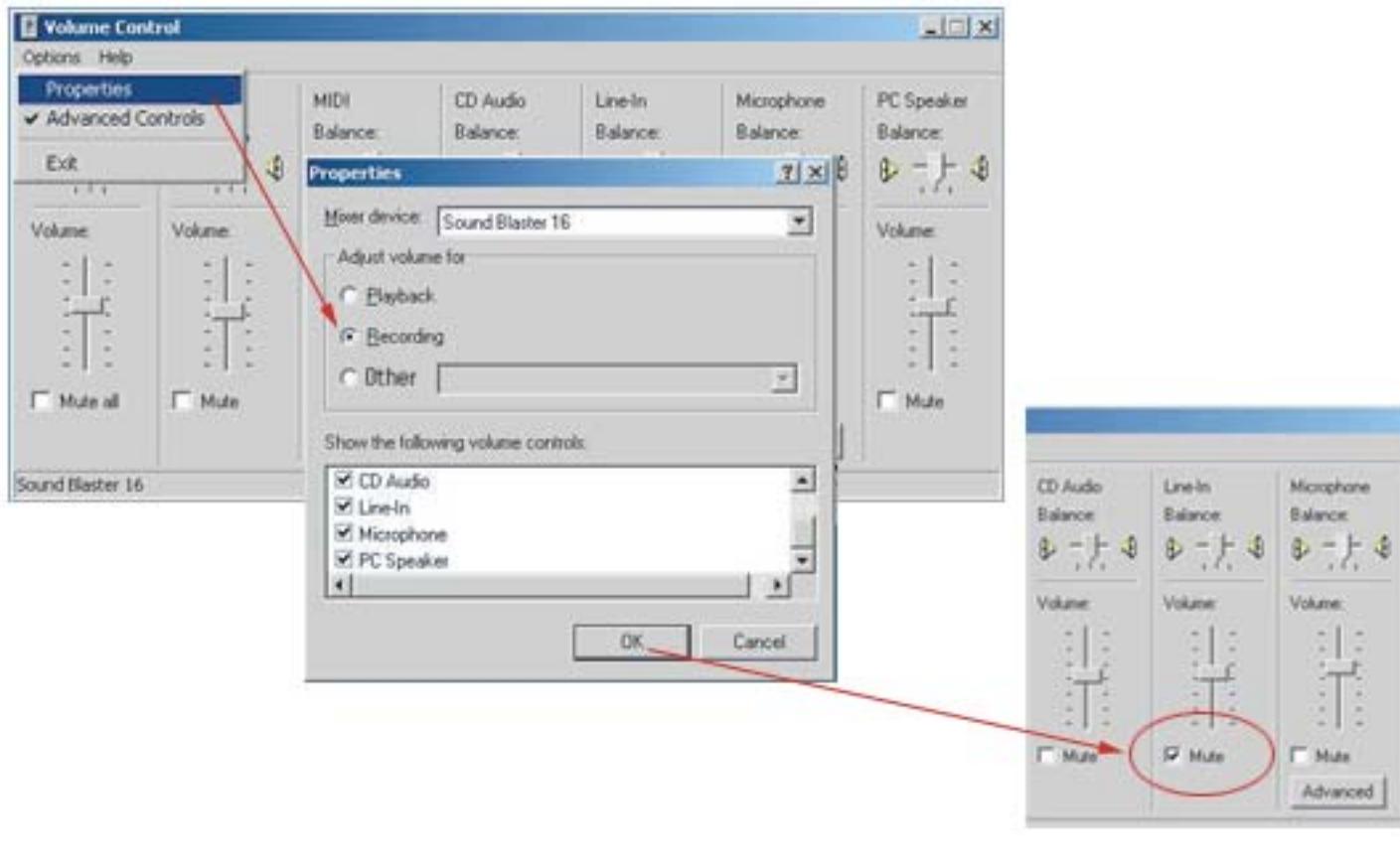
TIP : If you set Windows sound setting as 'no sound', you can prevent accidentally recording windows' sound effect on tape : Start ▶ Control panel ▶ Sounds and multimedia
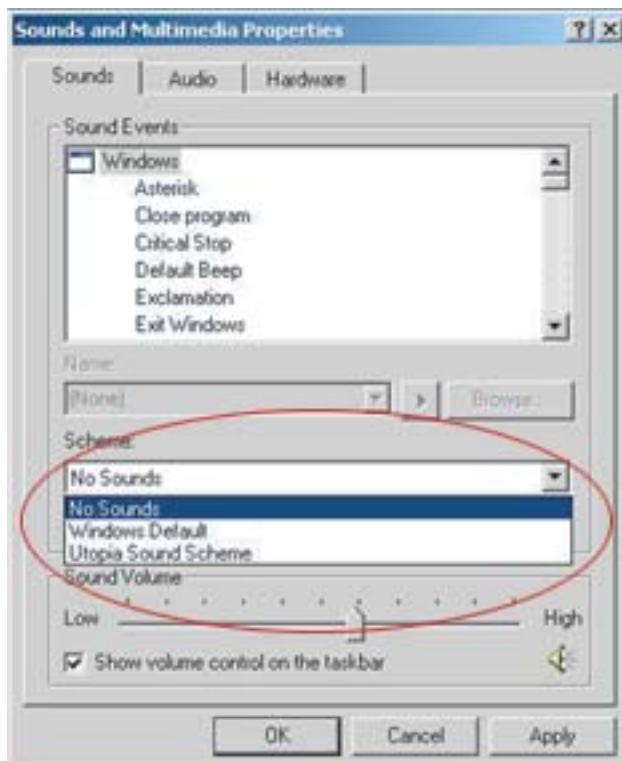
How to use

■ Listening the tape

1. Insert a tape into Plusdeck.
2. Press Play of the direction that you'd like to listen
3. If you want to listen the other side, press the Play button of other side.

■ Recording on a tape

1. Insert a tape into Plusdeck.
   The upper side of tape will be recognized as A side.
2. Press the Record button, then press the desired direction (◄ , ►) when you start
   (Press ► button when you record A side of tape)
3. Recording will be done as selected reverse mode
4. Press ■ sign to stop recording. Press ❙❙ to pause recording

■ Tape recording wizard for recording MP3 on tape in desired order
(Warning: It should be installed Winamp on PC)

1. Run the Plusdeck software
2. Press the Rec. List button.
3. Select type of tape as your desired recording time.
   (60 minutes, 90 minutes, 120 minutes)
4. Select file to record on A side by press A Add button
5. Estimated recording time of selected music will be shown in playing time
   counter (estimated time/recording capacity of a tape side)
6. Select file to record on A side by press A Add button.
7. If needed, change order or files by drag and drop of files.
8. When you press Start, selected files will be automatically start playing and
   recording on tape will be begin.

Tip : Check: The function is to confirm the tape condition before recording. It also is
available to tape rewind and the volume check of record.
Option: Auto gap : Automatically insert 3 seconds mute between files
Save file list : Save selected file list into text file.

■ To convert tape sound into digital file.

1. Run Plusdeck software.

2. Press To File button on software.

3. When you press Record button, tape will start playing and converting to wav. will begin.

4. When you press Stop or Pause, it will stop or pause playing and converting music.

5. Create new name of converted file. (Default: WAV)

6. press 35 to reconvert MP3

Tip : By pressing MP3 button, you can convert WAVE file into MP3 file
You can select bitrate of MP3 by clicking the right button of mouse
The function of Play is to listen to digital file.

FCC Information

This device complies with Part 15 of the FCC Results. Operation is subject to the following two conditions:

(1) This Device may not cause harmful interface, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:
1.1. Reorient or relocate the receiving antenna.
1.2. Increase the separation between the equipment and receiver.
1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.
1.4. Consult the dealer or experienced radio/TV technician for help.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.