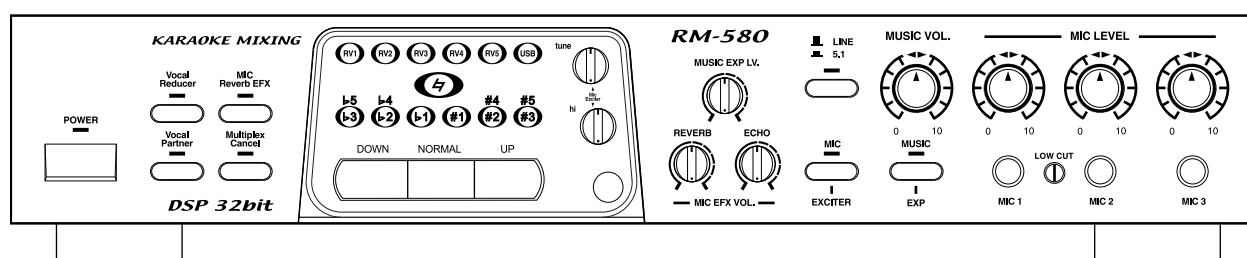


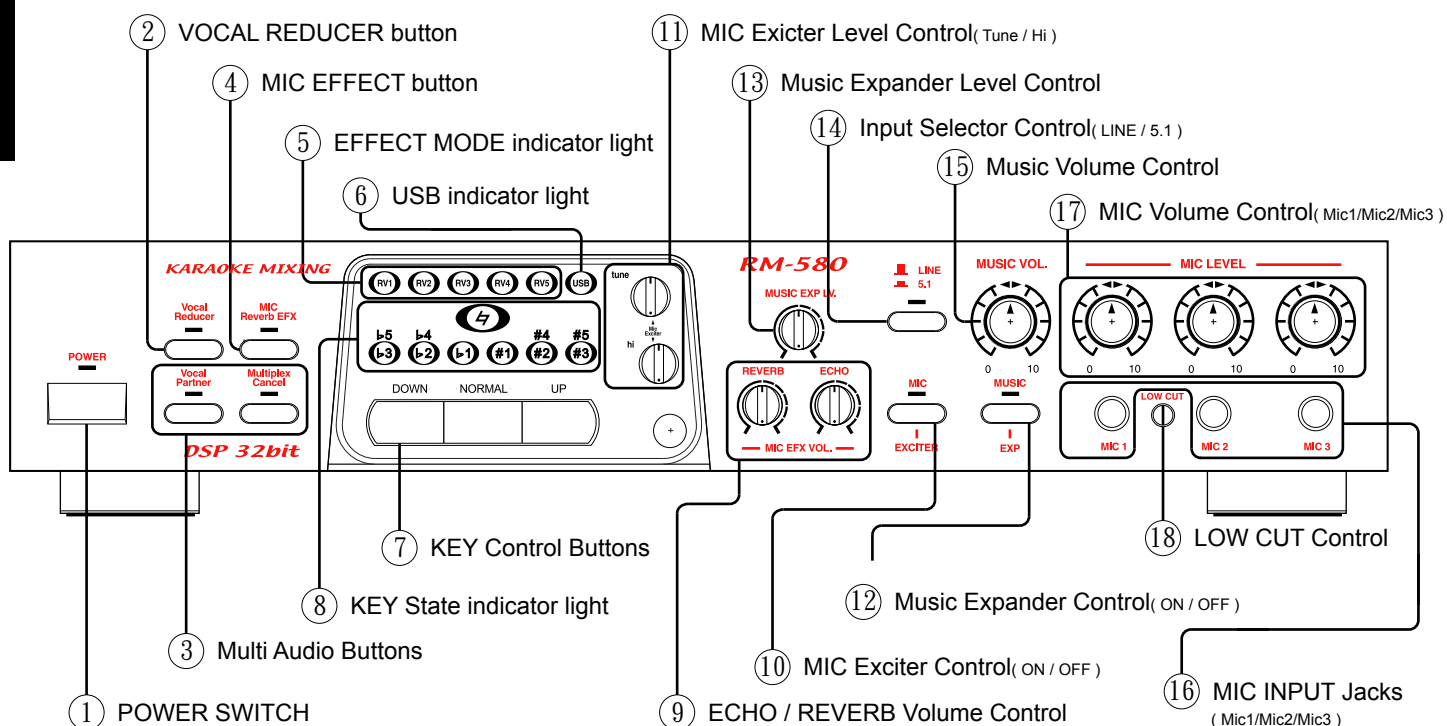
Digital echo USB record & playback mixer



Features:

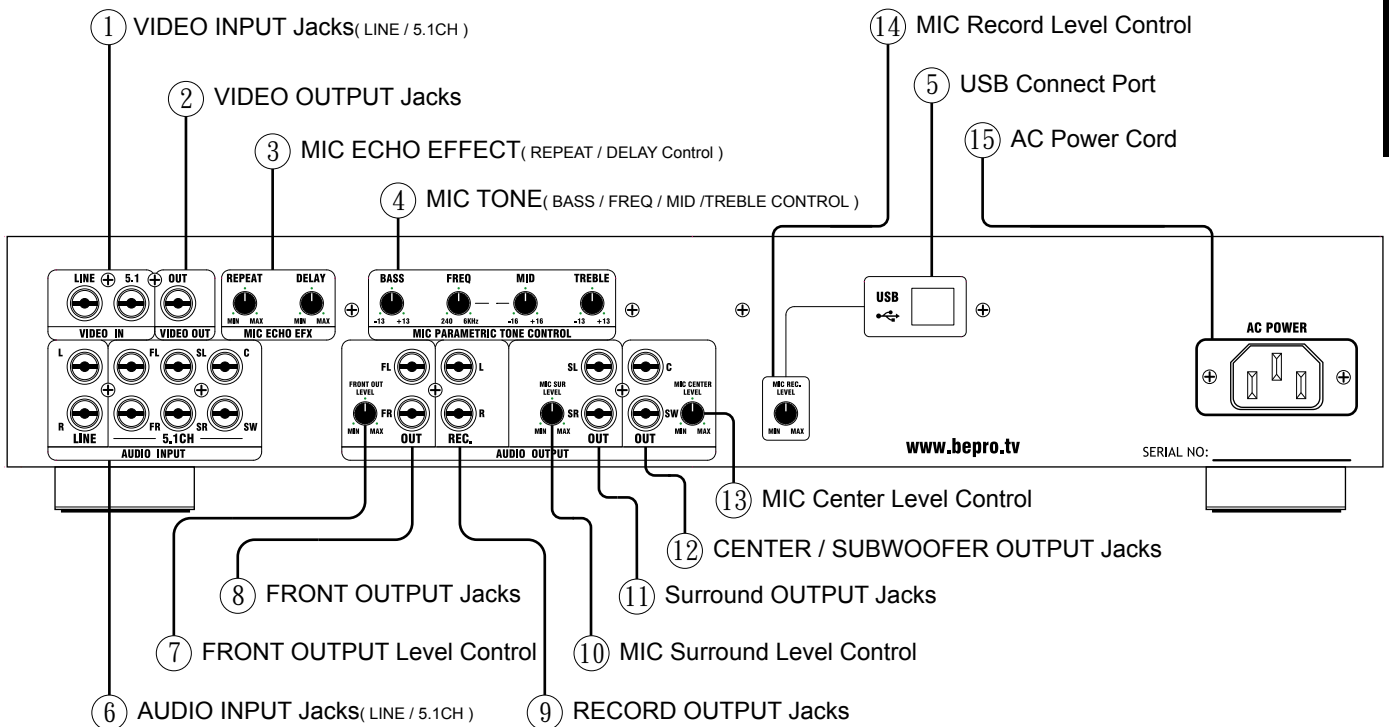
1. Equipped with a USB interface that allows the singer to record his/her own voice (Note 2). Suitable for a conference system to record a long time as well.
2. Featured the tuning of treble / middle / bass to the musical quality control of microphone and characterized with the functions of Low-cut, feedback termination and expansion.
3. Included the Delay / Repeat / Echo / Reverb effects to tune the effectiveness of microphone.
4. Characterized with five performances to the Reverb of microphone that can be selected individually.
5. Available for external 5.1 input/output, adjustable level and By-passable signals.
6. Characterized with the functions of partner singing/multiple sounds/vocal removal.
7. Introduced the high-quality IC for YAMAHA (Note 1) DSP stereo pitch tuning.
8. Featured a remote-control function.

Panel details



- ① **POWER SWITCH**
Press this switch to turn the power ON/OFF.
- ② **VOCAL REDUCER button**
Enables the reduction of the vocal volume from Hi-Fi signal such as a tape or a CD and so to accompany the singer better
- ③ **Multi Audio Buttons**
The input signal has to be Karaoke format and functioned with Vocal auto switch to enable love song and practice.
- ④ **MIC EFFECT button**
5 types of selection for the sound effect of microphone.
- ⑤ **EFFECT MODE indicator light**
Effect mode indicator light, Show the effect mode in use.
- ⑥ **USB indicator light**
USB indicator light.
Off:PC off line ; On:PC on line ; flash:USB active
- ⑦ **KEY Control Buttons**
Allowing change the key of music at a range of 10 steps, 1/4 pitch of each step.
- ⑧ **KEY State indicator light**
KEY State indicator light.
- ⑨ **ECHO / REVERB Volume Control**
Volume adjustment knob to adjust the volume of echo / reverberation.
- ⑩ **MIC Exciter Control (ON / OFF)**
MIC exciter control switch.
Making the signal clearer.
- ⑪ **MIC Exciter Level Control (Tune / Hi)**
MIC exciter level control.
Tune : Frequency Adjustment. (1KHz-8KHz)
High : High Frequency Adjustment .
- ⑫ **Music Expander Control (ON / OFF)**
Music expander control.
Making the signal brighter.
- ⑬ **Music Expander Level Control**
Music Expander Level Control.
- ⑭ **Input Selector Control (LINE / 5.1)**
Audio input select, can switch line in or 5.1 in.
- ⑮ **Music Volume Control**
Adjustment knob to adjust the output volume of music.
- ⑯ **MIC INPUT JACKS (Mic1/Mic2/Mic3)**
MIC INPUT JACKS
- ⑰ **MIC Volume Control (Mic1/Mic2/Mic3)**
Adjustment knob to adjust the output volume of microphone.
- ⑱ **LOW CUT Control**
Adjustment knob to adjust the Low-Frequency filter cut of microphone.

Panel details



- ① **VIDEO INPUT Jacks (LINE / 5.1CH)**
Video source from input LINE or 5.1 signals.
- ② **VIDEO OUTPUT Jacks**
Output the video signals to the video devices and equipments for thereof application.
- ③ **MIC ECHO EFFECT (REPEAT / DELAY Control)**
To tune the echo effect for microphone.
DELAY: To control the time span for echo.
REPEAT: To control the pitch of echo and reverberation.
- ④ **MIC TONE (BASS / FREQ / MID / TREBLE CONTROL)**
These four controllers are to be used for enhancing or weakening the responding ability at high-frequency or low frequency for the microphone;
BASS is to tune the bass volume.
TREBLE is to tune the treble volume.
MID is to tune the middle of sound volume and FREQ is to tune the middle point of mid-frequency band that can prevent the feedback.
- ⑤ **USB Connect Port USB**
To be connected to link with the computer for playing the computer sound effect or recording contents into the computer for application.
- ⑥ **AUDIO INPUT Jacks (LINE / 5.1CH)**
Input jacks for stereo sound and 5.1 sound signals that can be linked to a CD/DVD/Karaoke player and an input terminal for linear AUDIO OUT signals.
- ⑦ **FRONT OUTPUT Level Control**
To control the output level of sound from the front channel.
- ⑧ **FRONT OUTPUT Jacks**
To output the sound-mixed signals to a synthetic amplifier for application.
- ⑨ **RECORD OUTPUT Jacks**
To output the signals output from the microphone with music mixed to the recording deck or video playback for audio recording.
- ⑩ **MIC Surround Level Control**
To control the volume level of surround channels output from the microphone.
- ⑪ **Surround OUTPUT Jacks**
To output the mix-down signals to a synthetic amplifier for application.
- ⑫ **CENTER / SUBWOOFER OUTPUT Jacks**
To output the mix-down signals to a synthetic amplifier for application.
- ⑬ **MIC Center Level Control**
To control the volume level of center channels output from the microphone.
- ⑭ **MIC Record Level Control**
To tune the volume level when recording the sound from the microphone.
- ⑮ **AC Power Cord**
The socket of AC power supply cord is the same as the socket for the power supply cord of computer.

Supplementary descriptions

Singing is relax and joyful. How wonderful it will be if it is possible to record the song that you are singing by digitizing and archiving it for record; such a record will last forever without damage; and when hearing the singing voice once again after several years later, it is definitely to remind you of your casual and elegant manner back to the moment when singing the song; you can share this great moment with your friends as well.

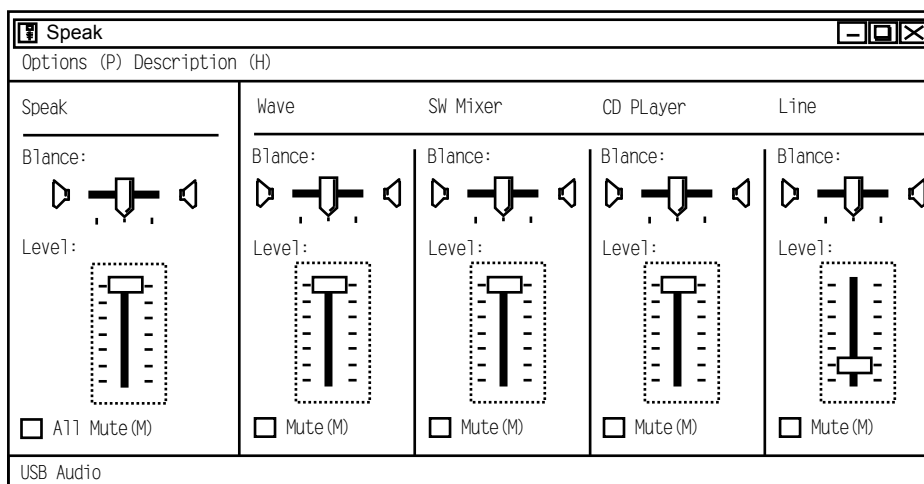
Therefore, BePro has integrated a new originality once again to go with the tide of the current generation by taking the USB interface from the PC to transmit the data for audio recording; thus the peoples who are fond of singing can record their won singing sound, keep it forever and archive it for sharing to let it become an eternal remembrance.

The product is introduced a DSP processing method to deal with the sound effect of human voices; also, a basic ECHO effect plus a Reverb sound effect are featured to singing as well that demonstrates an outstanding sound effect of human voices and makes the singer sing like a super star.

- Applicable scope :
1. Home KARAOKE
 2. Conference system
 3. Multimedia system
 4. KTV system

Cautionary points for audio recording :

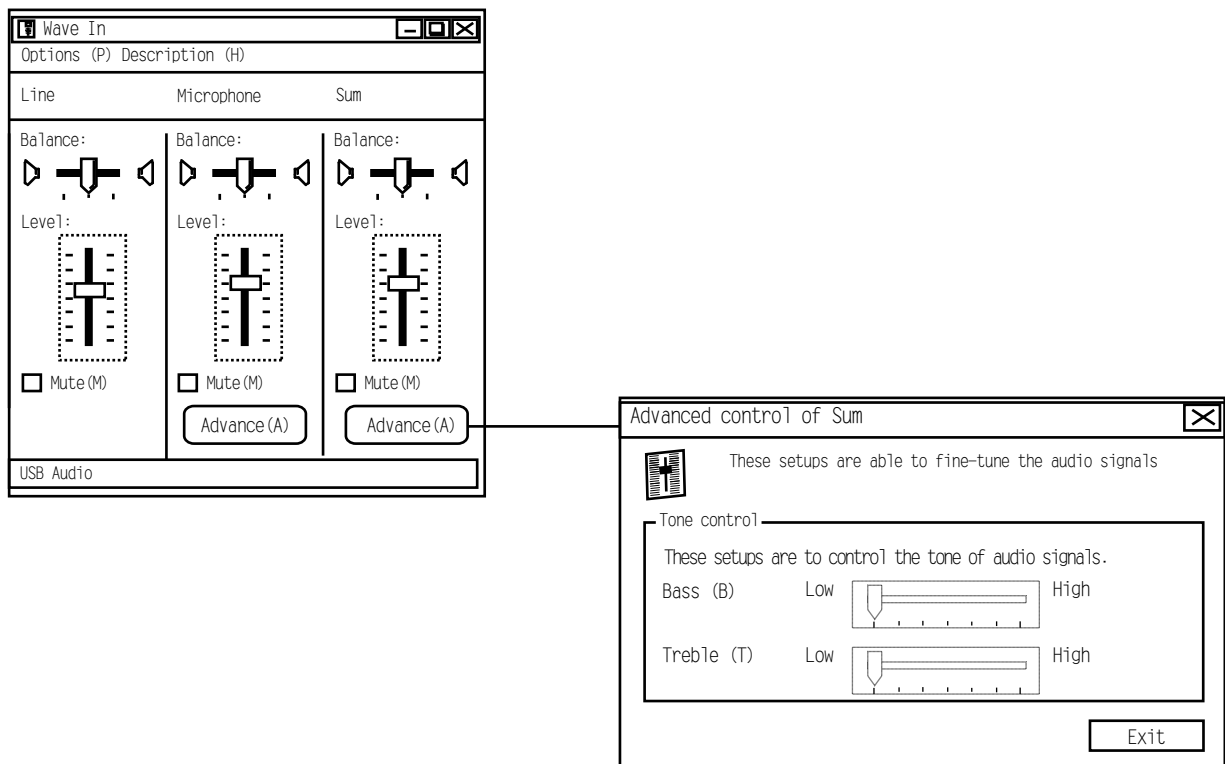
1. Use a USB cord to connect to link the RM-580 with the computer.
2. The computer will search to find a USB Audio sound effect device (USB driver is needed for WIN98 and unneeded for ME/2000/XP).
3. Turn on the sound effect device, the view of control panel will be the same as the figure shown below with the "USB Audio" shown at the left lower corner; and then tune the volume in accordance the setups from the figure.



Supplementary descriptions

4. The setup of volume level that is to be input to the computer really setting matters a lot to the sound quality of recording; since the microphone will be input a little bit wider dynamic range of sound when singing a song; therefore, a higher volume may lead to a distortion phenomenon; it is recommended that Sum should be used for recording when inputting a sound to the microphone so that the bass and the treble can be tuned to shift to a minimum value.

5. There is no recording software specified; however, when applying a compression format for recording (For example: MP3), it is advised that the sampling frequency and the compression ratio should be watched; a too-low sampling frequency and a too-high compression may result in fading the sound quality; therefore, 192Kbps is recommended as a suitable compression ratio.



Remarks :

1. YAMAHA trademark is owned by the YAMAHA CORPORATION.
2. Recommended set values for sound effect of recording: Sample rate: 44100Hz / Bitrate: 192 / AGC: off (auto gain).
3. When recording is desired, the record level for audio recording shall be repeatedly set for several times beforehand together with the tuning for the PC recording level and the vocal output level until there is no vocal fold.
4. It is compatible to any audio recording program.

Recommended software: super mp3 recorder, Aare MP3 Sound Recorder 3.0

Specifications

Audio

Input Sensitivity / Impedance(AUDIO OUT : 1 Vrms)

MIC	1.0 mv / 10k ohm
LINE/5.1 CH	150mv / 47k ohm

Output Level / Impedance (Input Level : 150mv)

FL/FR/SL/SR/C/SW	150mv / 1k ohm (Variable)
REC OUT	150mv / 1k ohm (Variable)

Tone Control Characteristic

Mic Bass(Boost/Cut)	13/-13 dB (50Hz)
Mid (Boost/Cut)	+16 / -16 (240Hz~6KHz Variable)
Treble(Boost/Cut)	+13/-13dB (10kHz)

Exciter Control Characteristic

Music Bass(Boost)	+12dB(70Hz)
Treble(Boost)	+10dB(12kHz)

Mic Bass(Boost)	+6 dB (100Hz)
Treble(Boost/Cut)	+8 dB (10kHz)

Stereo Pitch-Shift (DSP) +5/-5Key

Mic Effects (EFX)

Reverb Time	1~6 Sec (5 Fix mode)
LPF Filter	12KHz
Delay Time	250 ms (Max)

USB Type

Compliant with USB 2.0 Full Speed Operation
Compliant with USB Audio Device Class Specification v1.0

Vedio

Video Input Level / Inpedance

Line / 5.1 Ch	1 Vp-p / 75 ohm
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Video Output Level / Inpedance

Output	1 Vp-p / 75 ohm
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Other

POWER

Power Supply (U Model)	AC110V-AC120V 60Hz
Power Consumption (U Model)	15 W

Dimensins (W X H X D)	420 x 88 x 356mm
Weight	3.9Kg