

** *Martin Ranger***  
**PROFESSIONAL KARAOKE**



*Pure Sound 11 Recording*



PROFESSIONAL DIGITAL MIXING AMPLIFIER  
WITH BUILT-IN RECORDER

**OWNER'S MANUAL**

**SAFETY INSTRUCTIONS**

 <div style="display: inline-block; text-align: center; border: 1px solid black; padding: 2px;"> <b>CAUTION</b>  <b>RISK OF ELECTRIC SHOCK,</b>  <b>DO NOT OPEN!</b> </div> 
<p><b>CAUTION:</b></p> <p>TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>

**Explanation of Graphical Symbols**




The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

<p><b>WARNING:</b></p> <p>TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.</p>
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- 1 Read instructions- All the safety and operating instructions should be read before the unit is operated.
- 2 Retain Instructions - The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings-All warnings on the units and in the operating instructions should be adhered to.
- 4 Follow Instructions - All operations and other instructions should be followed.
- 5 Water and Moisture- The unit should not be used near water- for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
- 6 Carts and Stands - The unit should be used only with a cart or stand that is recommended by the manufacturer.
- 6A A unit and card combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn. 
- 7 Grounding or Polarization- Precautions should be taken so that the grounding or polarization is not defeated.
- 8 Ventilation - The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, the unit should not be situated on a bed, sofa, rug, or similar surface, that may block the ventilation openings;

- or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- 9 Heat- The unit should be situated away from heat sources such as radiators, stoves, or other appliances that produces heat.
- 10 Power Sources - The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
- 11 Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit the unit.
- 12 Cleaning- The unit should be cleaned only as recommended by the manufacturer.
- 13 Nonuse Periods- The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.
- 14 Object and liquid Entry- Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the unit.
- 15 Damage Requiring Service - The unit should be serviced by qualified service personnel when:
  - A. The power supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the unit; or
  - C. The unit has been exposed to rain; or
  - D. The unit does not appear to operate normally or exhibits a marked change in performance.
  - E. The unit has been dropped, or the cabinet damaged.
- 16 Servicing - The user should not attempt to service the unit beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.
- 17 Power Lines - An outdoor antenna should be located away from power lines.
- 18 Grounding or Polarization - Precautions should be taken so that the grounding or polarization is not defeated.

**IMPORTANT**

please record the serial number of this unit in the space below.

Model:

Serial No.:

The serial number is located on the rear of the unit.


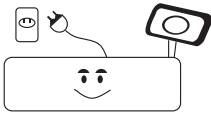
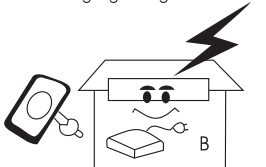


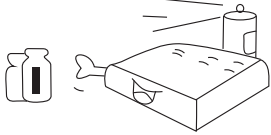
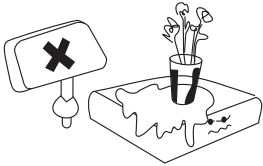
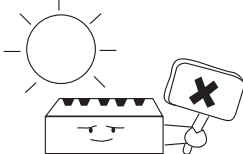
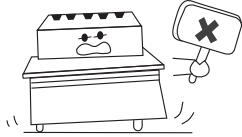
Retain this Owner's Manual in a safe place for future reference.

**SPECIFICATIONS**

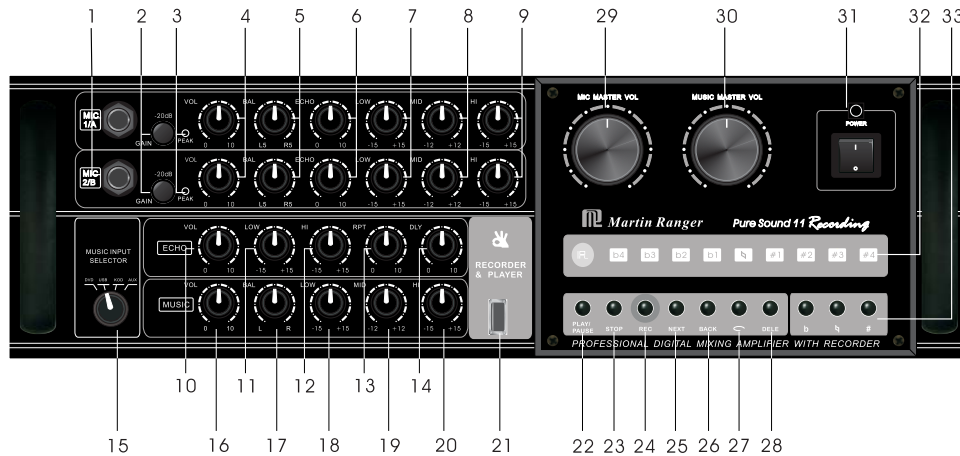
Audio output max .....	300W
Mic input sensitivity .....	10mV
External devices sensitivity .....	200mV
Signal / Noise ratio ( with IHF A Filter ) .....	≥ 90dB
T.H.D. ( 1 kHz. AUX 150mV INPUT ) .....	0.1%
Frequency Response .....	25Hz~20KHz
Mic. Tone adjustment .....	80Hz±15dB 3.5KHz±8dB 12KHz±15dB
Echo tone adjustment .....	80Hz±15dB 12KHz±15dB
Power source .....	AC 110V/60Hz AC 230V/50Hz
Net Weight .....	8.5 KGS
Dimension ( WxHxD ) .....	430X125X330(mm)

\* Specifications and features are subject to changed without notice.

**PRECAUTION**

<p>Be careful when open, otherwise electric shock or serious damage may be made to the product.</p> 	<p>Unplug this product from the wall outlet when not use for a long period of time</p> 	<p>Unplug this product from the wall outlet during lightning</p> 
<p>Objects do not fall into the enclosure.</p> 	<p>Arrange power cords safely. Do not hold the cord when pulling out from the wall outlet. Pull out holding plug.</p> 	<p>This product must not touch chemicals such as benzene, Thinner or alcohol. This may result in discoloration.</p> 
<p>Do not use this product in wet place.</p> 	<p>This product should be installed in well-ventilated and cool place.</p> 	<p>This product should be installed flatly and should not be shaken.</p> 

**OPERATING GUIDE**



**MICROPHONE**

- 1.MIC 1,2: Plug-in the 2 separated microphones for usage.
- 2.GAIN: Press on this switch, the signal amplification is decreased by 20dB in condition of big input signal is used.
- 3.PEAK: Red light goes on in case of excessive mike's voice input.
- 4.VOL: Adjust to increase or decrease the volume of microphone.
- 5.BAL: To adjust the relative microphone volume levels of the right and left channel.
- 6.ECHO: Adjust to control the echo volume of the microphones.
- 7.LOW: Adjust to strengthen or weaken bass response of the microphone according to singer's tone quality.
- 8.MID: Adjust to strengthen or weaken mid-range response of the microphone according to singer's tone quality.
- 9.HI: Adjust to strengthen or weaken treble response of the microphone according to singer's tone quality.

**ECHO**

- 10.VOL: Adjust echo volume.
- 11.LOW: Adjust echo bass response.
- 12.HI: Adjust echo treble response.
- 13.RPT: Adjust echo repeat length.
- 14.DLY: Adjust echo delay time.

**MUSIC**

- 15.MUSIC INPUT SELECTOR for DVD/USB/KOD/AUX.
- 16.VOL: Adjust music volume.
- 17.BAL: To adjust the music volume levels of the right and left channel.
- 18.BASS: Adjust to strengthen or weaken bass response of the sound of input source.
- 19.MID: Adjust to strengthen or weaken mid-range response of the sound of input source.
- 20.TRE: Adjust to strengthen or weaken treble response of the sound of input source.

**KARAOKE RECORDING**

- 21.USB port
- 22.Play/Pause
- 23.Stop
- 24.Record
- 25.Next
- 26.Back(Previous)
- 27.Circulate broadcast
- 28.Delete

## OPERATING GUIDE

### MASTER CHANNEL

29. MIC MASTER VOL: Adjust to increase or decrease the volume of the microphones.  
30. MUSIC MASTER VOL: Adjust the volume of the sound of music.

### POWER

31. POWER: Switch the button will turn on or turn off the main unit.

### KEY CONTROL

32. KEY DISPLAY.  
33. KEY CONTROL: Adjust to select the music's key according to the singer's tone quality.

## KARAOKE RECORDING

### HOW TO OPERATE THE RECORDING (VOCAL+MUSIC)

1. Press "MUSIC INPUT" button to get the music source from DVD or KOD or AUX.
2. Press "REC" button to record the selection.
3. Press "STOP" the recording function stops and the current recording is kept in USB.
4. Press "MUSIC INPUT" button to access to USB.
5. Press "PLAY" button to access to the play record folder in USB.
6. Press "BACK" button, the last recording start play.

### HOW TO OPERATE THE RECORDING (VOCAL ONLY)

1. Press "MUSIC INPUT" button to access to USB in play.
2. Press "REC" button to record the vocal.
3. Press "STOP" the recording function stops and the current recording is kept in USB.
4. Press "PLAY" and then press "BACK" the last recording start play.

### KEY/BUTTON DESCRIPTION

#### 1. PLAY/PAUSE

Press the button to enter into play/pause mode. Press STOP button, this function will be cancelled automatically. (In recording mode, press STOP button when recording is finished, and then the current recording will be kept in USB record folder.

Press PLAY/PAUSE button to access to the play record folder.  
Press "BACK" button, the current recording is played.)

#### 2. STOP

In play mode, the set stops playing. In recording mode, the set stops record function and keeps the current recording.

#### 3. REC

Recording button. Press the button to record the selection.

When recording, the master music and master mic volume of the set does not function to the recording volume, please adjust the music and microphone volume by the music volume and the separately microphone volume to get suitable volume for recording.

#### 4. NEXT

The next selection.

#### 5. BACK

The previous selection.

#### 6. ↻ PLAY-MODE

Press the button, the selection is circulated. Press the button once again the whole folder is circulated.

#### 7. DELE

Delete button. Press the button to delete the current selection in play.

### ORIGINAL SETTING FUNCTION

The set is built with original setting function. When playing, the whole folder is circulated.

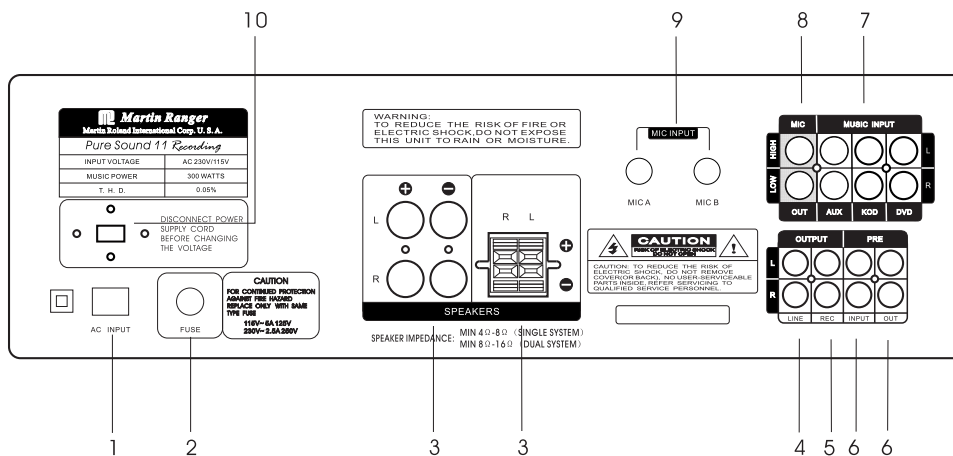
### INDICATOR

#### 1. Play/Pause indicator

In play mode, the indicator illuminates steadily. In recording mode, the indicator flickers.

#### 2. ↻ Play-mode indicator

The indicator illuminates when the selection circulated, the indicator unilluminated when the whole folder circulated.

**FUNCTION OF REAR PANEL**

**1.POWER**

AC power input 230V/50Hz 115V/60Hz.

**2.FUSE**

The input voltage is 115V use 250V/5A Fuse  
 The input voltage is 230V use 250V/2.5A Fuse

**3.SPEAKER**

This terminal connects to the speakers. Make sure polarity is correct connection. Use the speaker system of impedance 8-16 ohm, when use speaker system 1 and 2 simultaneously.

**4.AUXILIARY OUTPUT TERMINAL(LINE)**

This terminal connects amplifier output to the input terminal of external amplifier.

**5.RECORDING OUTPUT TERMINAL(REC)**

Use this terminal when recording amplifier output at tape deck or MP3 recorder.

**6.SOUND-EFFECT DEVICE INPUT/OUTPUT TERMINAL**

Use this terminal when connecting external sound-effect devices such as graphic equalizer.

**7.MUSIC INPUT TERMINAL**

The terminal use to connect sound source, Such as DVD. CDG. KOD or AUX etc.

**8.MIC OUTPUT**

This terminal outputs microphones' sound only from the amplifier without echo effect.

**9.REAR MIC INPUT JACKS**

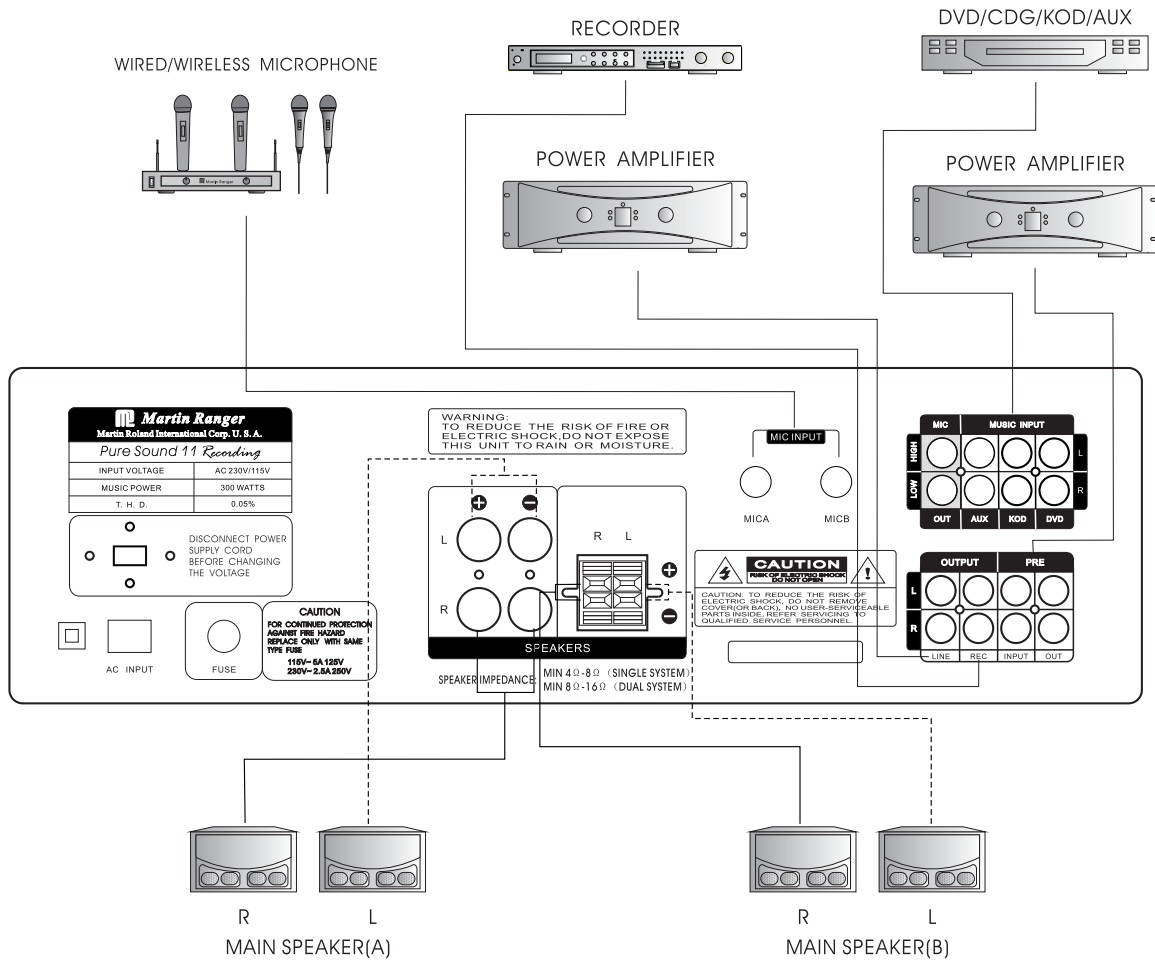
These jacks are also for connecting microphones.  
 The MIC A is connected to the same circuit as the MIC 1 jack on the front panel. And the MIC B is connected to the same circuit as the MIC 2 jack on the front panel.

**10.DUAL VOLTAGE SELECTOR**

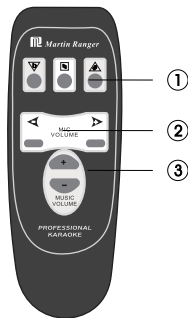
Before turn on power switch, be sure the AC voltage selector is seted to the appropriate AC voltage according to your area.

**CONNECTING GUIDE**

When using 2 speaker systems, the impedance should not be lower than 8 ohms for each system, otherwise the unit may be damaged under high power and long term operation.



**REMOTE CONTROLLER**



**1. Key control**

To select the music's key according to the singer's key.

**2. Microphone volume control**

Adjust to increase or decrease the volume of the microphones.

**3. Music volume control**

Adjust the volume of the sound of music input source.



Martin Roland is constantly striving to maintain the highest quality and standards.  
As a result of these efforts, modifications may be made to this product without notice.

**Martin Roland International Corp.**  
CALIFORNIA USA