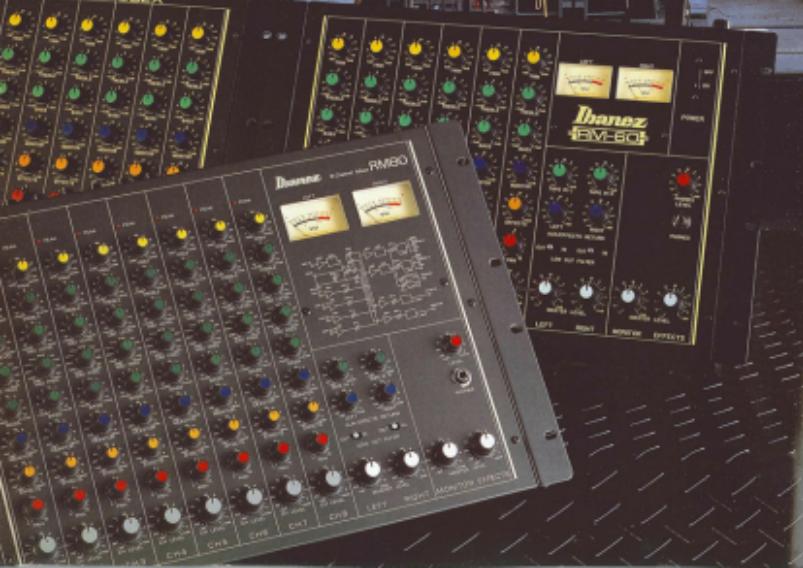


'84 '85  
Stereo Mixer  
and  
Expander Module  
**Ibanez**

# Ibanez RM Mixing System



# 8 Channel Stereo Mixer RM80

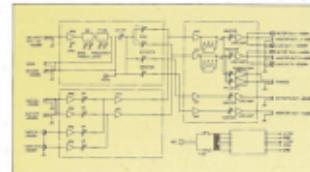


Ibanez brings you the latest in mixing board technology. Never before have so many features been put into a rack mount mixer. Features like 8 inputs, stereo outputs, individual monitor and effects sends, parametric EQ, low cut filters, VU metering, RCA tape inputs and outputs, Headphone monitoring and more. Sixty features and price combine to create the perfect mix...The RM80 truly is.

#### FEATURES

- 8 in, 2 output, stereo mixer.
- Preamp for each channel.
- Microphone input, balanced, useful for PA, Rack or PB.
- Effects sends per channel.
- Send/Return on each channel.
- Continuously variable 30dB trim control.

#### BLOCK DIAGRAMS



#### SPECIFICATIONS

- **Input Characteristics**
  - Mic Input 47 Kohms, -50 dBm
  - GH Return 47 Kohms, -30 dBm
  - Effects Return 47 Kohms, -20 dBm
- **Output Characteristics**
  - Ch. 1 Out 10 Kohms, +20 dBm
  - Master Out 10 Kohms, +15 dB at 100 Hz
  - Monitor Out 10 Kohms, +4 dBm
  - Treble +15 dB at 10 KHz
  - Effects Out 10 Kohms, -20 dBm
  - Line Out 10 Kohms, -20 dBm
  - Phones 8 ohms, 0.25 W rms
- **Frequency Response**
  - 30 Hz - 20 KHz (-3 dB)
  - ±0.02%
- **T.H.D. (1 kHz)**
  - 0.02%
- **Hum and Noise**
  - Equipment Input Noise -20 dB (A-weighted)
- **Maximum Gain**
  - Mic Input/Master Out 60 dB
  - Mic Input/Monitor Send 60 dB
  - Mic Input/Effects Send 60 dB
  - Mic Input/GH Send 33 dB
  - Mic Input/Effects Return 33 dB
  - GH Return/Master Out 30 dB
  - Effects Return/Master Out 30 dB
  - Tape In/Master Out 30 dB
- **Maximum Input Level**
  - Tilt 0 dB +15 dBm
  - Tilt 30 dB +12 dBm
- **Maximum Output Level**
  - 10 KHz, 600 ohms load +10 dBm
- **Equalization**
  - Tilt 0 dB +15 dB at 100 Hz
  - Treble +15 dB at 10 KHz
- **Parametric EQ**
  - Mid Frequency 200 Hz to 10 KHz
  - Mid Frequency 200 Hz to 10 KHz
- **VU Meter**
  - DVU +4 dBm
  - LED Indicator (On Send Level)
  - Read +15 dBm
- **Power Requirements**
  - 120 V - 200 V AC 50 Hz 19 W
  - 230 V - 240 V AC 50 Hz 19 W
- **Dimensions**
  - WxHxD
  - 482 mm x 95 mm x 320 mm
- **Weight**
  - 5.7 kg. (12.5 lbs.)

# 6 Channel Stereo Mixer RM60 / 10 Channel Expander Module RM100EX

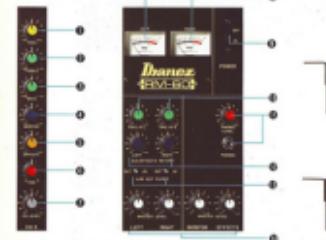
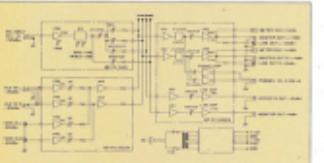


The Ibanez RM mixing system is based around the RM60 6-in, 2-out mixer. It can be made into a 16-in, 2-out system with the addition of the RM100EX 10-channel expander. While moderately priced, this system gives you performance and features equal to mixing systems costing much more. Compare the feature list with any other console in this price range and you'll see why the Ibanez RM Mixing Systems is head-and-shoulders above the rest.

## FEATURES

- It's a 2 Out Stereo Mixer
- Expandable to 16 In with Expander Module RM-100EX
- Parallel in each channel
- Monitor and effects send
- Each channel has 90 dB Pad for matching any input level
- Low cut Filter
- Headphone Jack for monitor
- It's 16 inch Rack mount

## BLOCK DIAGRAMS (RM60)

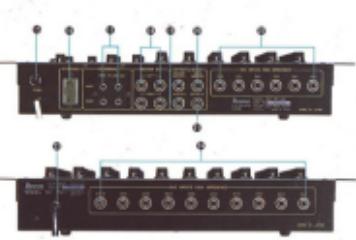


## INPUT CHANNEL RM60-RM100EX

- ① INPUT
  - ② FADER
  - ③ TONE
  - ④ MONITOR (pre fader)
  - ⑤ MONITOR (post fader)
  - ⑥ EFFECTS RETURN
  - ⑦ PAN
  - ⑧ GND
- ① INPUT**  
Matches channel input gain to input signal source. Variable from -50 dBm to +30 dBm.  
**② FADER**  
The main channel fader. High: +10 dB to 0 dB  
Trehle: +15 dB to 0 dB  
**③ TONE**  
Controls channel monitor send level. The monitor controls allow the monitor mix to be independent of the main mix.  
**④ MONITOR (pre fader)**  
Controls channel monitor send level. Channel fader also affects this level.  
**⑤ MONITOR (post fader)**  
Controls channel monitor send level. Channel fader also affects this level.  
**⑥ EFFECTS RETURN**  
(Plus in Left, Right)  
Controls effects return level into each master.  
**⑦ PAN**  
Controls amount of channel signal fed to Left and Right outputs. Same as stereo balance control.  
**⑧ GND**

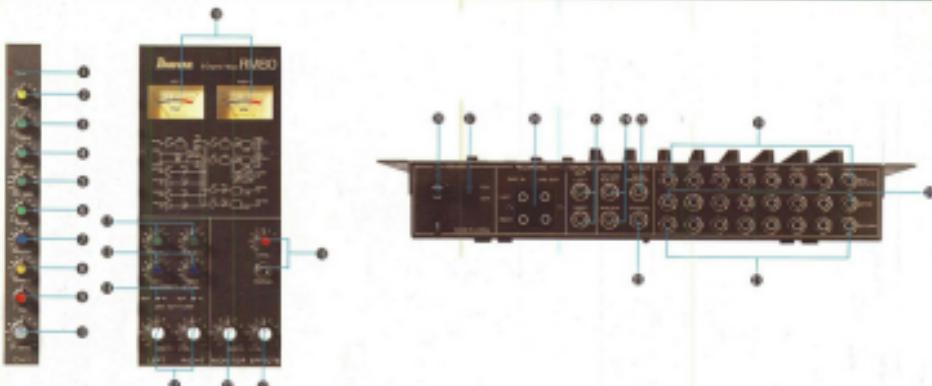
## SPECIFICATIONS

- Microphones 40 Kohms, -50 dBm
- Effects 47 Kohms, -20 dBm
- Tape Input 10 Kohms, -20 dBm
- Output Characteristics
- Master 10 Kohms, + 4 dBm
- Effects 10 Kohms, -20 dBm
- Line 10 Kohms, -20 dBm
- Monitor 10 Kohms, + 4 dBm
- Headphones 4 ohms, -8 dBm
- Maximum 0.25 watt
- Output Level +17 dBm
- Frequency Response 20 Hz - 20 KHz (± 2 dB)
- D.D. 0.001%
- Dimensions
- Hum and Noise Equivalent Input Noise -124 dBf (HFPA)
- Power Requirements
- Mic Input/Master Out 60 dB
- Mic Input/Monitor Out 60 dB
- Mic Input/Effets Out 39 dB
- Effects Input/Master Out 30 dB
- Tape Input/Master Out 30 dB



## MASTER SECTION RM60

- ① VU METER
  - ② POWER SWITCH
  - ③ POWER
  - ④ LINE IN (Left, Right)
  - ⑤ LINE OUT (Left, Right)
  - ⑥ MONITOR OUT
  - ⑦ EFFECTS/AUX IN (L, R)
  - ⑧ EFFECTS/AUX OUT (L, R)
  - ⑨ EFFECTS OUT
  - ⑩ MIC INPUT
  - ⑪ REAR PANEL RM60-RM100EX
  - ⑫ ATTACHMENT
  - ⑬ RECORDING
  - ⑭ TAPE REC.
  - ⑮ MONITOR
  - ⑯ LEFT AND RIGHT MONITOR
  - ⑰ EFFECTS/AUX IN (L, R)
  - ⑱ EFFECTS/AUX OUT (L, R)
  - ⑲ MONITOR OUT
  - ⑳ EFFECTS OUT
  - ㉑ MIC INPUT
  - ㉒ REAR CONNECTOR
  - ㉓ CONNECTION
  - ㉔ MIC INPUT
- ① VU METER**  
Displays master output levels.  
0 VU = +4 dBm
- ② POWER SWITCH**
- ③ POWER**
- ④ LINE IN (Left, Right)**  
Connects to line output from tape deck.
- ⑤ LINE OUT (Left, Right)**  
Connects to line input level into each master.
- ⑥ MONITOR OUT**  
Monitor signal output.
- ⑦ EFFECTS/AUX IN (L, R)**  
Accepts microphone with outputs from -50 dBm to -20 dBm.
- ⑧ EFFECTS/AUX OUT (L, R)**  
Connection for RM-100EX expander module.
- ⑨ EFFECTS OUT**  
Effects send jack.
- ⑩ MIC INPUT**  
Accepts microphones with outputs from -50 dBm to -20 dBm.
- ⑪ REAR PANEL RM60-RM100EX**
- ⑫ ATTACHMENT**
- ⑬ RECORDING**  
Line in and out with tape recorders.
- ⑭ TAPE REC.**
- ⑮ MONITOR**
- ⑯ LEFT AND RIGHT MONITOR**
- ⑰ EFFECTS/AUX IN (L, R)**
- ⑱ EFFECTS/AUX OUT (L, R)**
- ⑲ MONITOR OUT**
- ⑳ EFFECTS OUT**
- ㉑ MIC INPUT**
- ㉒ REAR CONNECTOR**
- ㉓ CONNECTION**
- ㉔ MIC INPUT**



### INPUT CHANNEL

**① INDICATOR (Red)**  
LED status indicator lights when input level reaches +10 dB.

**② TRIM**

Matches channel input gain to input signal source level. Variable from -50 dBm to -20 dBm. Maximum input level is +12 dBm.

**③ MID LEVEL**

Shelving type tone control gives up to 15-dB of boost or cut at 10 kHz.

**④ MID FREQUENCY**

Frequency selector for Parametric Midrange tone control. Frequency is variable from 200-Hz to 5.6 kHz and the amount of boost or cut is controlled by ③ Mid Level.

**⑤ BASS**

Shelving type tone control gives up to 15-dB of boost or cut at 100 Hz.

**⑥ MONITOR**

Controls individual channel monitor level to master monitor send. This control is post EQ and pre fader and is used for on stage monitor or feedback.

**⑦ EFFECTS**

Controls individual channel effects level to master effects send. This control is post EQ and post fader.

**⑧ PAN**

Controls the amount of channel signal fed to the left and right output for stereo imaging.

**⑨ CHANNEL LEVEL**

Controls overall channel output to master output level.

### MASTER SECTION

**⑩ MASTER LEVEL**  
Controls main output level.

**⑪ MASTER LEVEL-MONITOR**  
Master control for monitor ⑫ send. Controls monitor output level.

**⑫ MASTER LEVEL-EFFECTS**

Master control for effects ⑬ send. Controls effects output level.

**⑭ LOW CUT FILTER**

Provides 12-dB per octave roll-off at 100 Hz.

**⑮ AUX/EFFECTS RETURN**

Controls level of effects return or Auxiliary Input.

**⑯ PHONES**  
Controls output level of headphones amp.

**⑰ TAPE IN (LEFT, RIGHT)**

Controls signal level from external tape-deck.

**⑱ VU METER**

Meter displays master output levels. 0 VU = +4 dBm.

### REAR PANEL

**⑲ MIC INPUT**

Microphone input for channel 1-8. Accepts high impedance microphone or line inputs with output from -50 dBm to -20 dBm.

**⑳ SEND**

Pre fader output on each channel provides individual patching of signal processing such as compression or delay.

**㉑ RETURN**

Input from external signal processing to fader each channel.

**㉒ MONITOR SEND**

Master output for monitor send.

**㉓ EFFECTS SEND**

Master Output for effects.

**㉔ EFFECTS RETURN (AUX IN LEFT, RIGHT)**

Return input from external effects. When plugged into only one side, the effects will be in both left and right channels. When plugged into both sides one effect will be in the left channel and one will be in the right channel.

**㉕ MASTER OUT**

Left and right master output. 0 VU = +4 dBm.

**㉖ RECORDING**

Phono jacks provide stereo outputs for recording on an external tape-deck as well as tape-in jacks for playback.

**㉗ POWER SWITCH**

On/Off switch for Mixer. VU meter lights when unit is turned on.

**㉘ FUSE**

Use 125 V/0.5 A (Type T.N) or

250 V/0.5 A (Type P, U, G, S, P) Fuse only.

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