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Important Safety Instructions

**SAFETY INSTRUCTIONS**

**NOTICE FOR CUSTOMERS IF YOUR UNIT IS EQUIPPED WITH A POWER CORD.**

**WARNING:** THIS APPLIANCE SHALL BE CONNECTED TO A MAINS SOCKET OUTLET WITH A PROTECTIVE EARTHING CONNECTION.

The cores in the mains lead are coloured in accordance with the following code:

- GREEN & YELLOW - Earth
- BLUE - Neutral
- BROWN - Live

As colours of the cores in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The core which is coloured green and yellow must be connected to the terminal in the plug marked with the letter E, or with the earth symbol, or coloured green, or green and yellow.
- The core which is coloured blue must be connected to the terminal marked N or coloured black.
- The core which is coloured brown must be connected to the terminal marked L or coloured red.

This equipment may require the use of a different line cord, attachment plug, or both, depending on the available power source at installation. If the attachment plug needs to be changed, refer servicing to qualified service personnel who should refer to the table below. The green/yellow wire shall be connected directly to the units chassis.

### CONDUCTOR | WIRE COLOUR
--- | ---
L | LIVE BROWN BLACK
N | NEUTRAL BLUE WHITE
E | EARTH GND GREEN/YEL GREEN

**WARNING:** If the ground is defeated, certain fault conditions in the unit or in the system to which it is connected can result in full line voltage between chassis and earth ground. Severe injury or death can then result if the chassis and earth ground are touched simultaneously.

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**WARNING FOR YOUR PROTECTION**

**READ THE FOLLOWING:**

**KEEP THESE INSTRUCTIONS**

**HEED ALL WARNINGS**

**FOLLOW ALL INSTRUCTIONS**

**THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING LIQUID AND NO OBJECT FILLED WITH LIQUID, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.**

**CLEAN ONLY WITH A DRY CLOTH.**

**DO NOT BLOCK ANY OF THE VENTILATION OPENINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER’S INSTRUCTIONS.**

**DO NOT INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES, OR OTHER APPLIANCE (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.**

**ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.**

**UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.**

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use only with the cart stand, tripod bracket, or table specified by the manufacture, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**POWER ON/OFF SWITCH:** For products provided with a power switch, the power switch DOES NOT break the connection from the mains.

**MAINS DISCONNECT:** The plug shall remain readily operable. For rack-mount or installation where plug is not accessible, an all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated into the electrical installation of the rack or building.

**FOR UNITS EQUIPPED WITH EXTERNALLY ACCESSIBLE FUSE RECEPTACLE:** Replace fuse with same type and rating only.

**MULTIPLE-INPUT VOLTAGE:** This equipment may require the use of a different line cord, attachment plug, or both, depending on the available power source at installation. Connect this equipment only to the power source indicated on the equipment rear panel. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel or equivalent.

If connected to 240V supply, a suitable CSA/UL certified power cord shall be used for this supply.
Section 1 - Introductions

ABOUT JBL KX180

KX180 is a professional-grade digital processor designed for karaoke applications and provides a full set of audio processing for enhancing or fine-tuning music and voice. KX180 is equipped with three 6.5mm connectors for microphone input, two groups of RCA connectors and an optical connector for music input, and one pair of RCA connectors for recording out. It supports storage and recall of up to 10 presets and manual or auto control of Dance or Sing mode.

Echo, Reverb and Effect

KX180 offers five reverb effects: Room, Small Hall, Large Hall, Vocal and Custom. In Custom effect mode, users are allowed to adjust the following parameters: Early Reflections Volume, Early Reflections Delay, Early Reflections HF Damping, Later Reflections Volume, Later Reflections Delay, Later Reflections HD Damping, Reverb Space, Reverb Density, Reverb HF Damping, etc.

Among all the parameters, the HF damping will affect the color of the sound, the higher its coefficient, the more presence of high frequency you will get.

Dance and Sing Mode

KX180 provides two operation modes - Dance and Sing, which can be engaged automatically or manually. Under Auto control, detection of any active microphone input will automatically switch the system to the Sing mode from the Dance mode. The two modes can also be selected manually through its graphic user interface.

Users are allowed to create unique Dance and Sing mode by adjusting parameters of Music, Main Out, Surround, Center and Sub.

Control Methods

KX180 can be fine-tuned through the tailor-designed graphic user interface or quick set up using the front panel controls. Connection with a VOD system can be realized through IR.

FEATURES

- Two groups of microphone inputs
- 15-band PEQ and compressor for each Mic Input
- Three levels of Feedback Inhibition for each Mic Input
- Independent control of Echo and Reverberation
- Two pairs of RCA connectors and an Optical connector for Music Input
- 15-band PEQ for Music Input
- Three levels of Excitement for Music Input
- Six output channels: Right, Left, Centre, Sub, Surround Right and Surround Left.
Section 1 - Introductions

- 10-band PEQ for Right and Left Outputs
- 7-band PEQ for Surround and Centre Outputs
- 5-band PEQ for Subwoofer Output
- Compressor provided for each output channel
- Two independent REC channels can be paired into stereo
- Authority control for front panel controls
- Up to 10 presets can be saved
- Dance or Sing mode of each microphone input channel can be switched manually or automatically

UNPACKING

Please unpack and inspect your processor for any damage that may have occurred during transit. If damage is found, notify the transportation company immediately. Only you can initiate a claim for shipping damage. Save the shipping carton as evidence of damage for the shipper's inspection.

⚠️ NOTE: Please save all packing materials for future transportation use. Never ship the unit without the factory pack.

PACKING LIST

- 1 x JBL KX180 Digital Processor
- 1 x Power Cord
- 1 x User Manual
Section 1 - Introductions

FRONT AND REAR PANELS

1. **LCD Display**: displays the initial settings after boosting or parameters when any control is used.

2. **IR**: accepts IR signal sent through an IR remote or transmitter.

3. **USB Interface**: Type-B USB connector. Connects to a PC for GUI operation.

4. **Menu Buttons**: includes six parameter buttons (MUSIC, MIC, EFFECT, SYSTEM, RECALL & SAVE) and two navigation buttons (UP/ESC & DOWN).
   - **MUSIC**: press to visit or edit Music Input and Output parameters.
   - **MIC**: press to visit or edit parameters of Mic 1, Mic 2 and Mic 3.
   - **EFFECT**: press to visit or edit Effect Input EQ, Echo and Reverb parameters.
   - **SYSTEM**: press to visit or edit Signal Source, Initial Preset/Volume, Limit Volume, Data Save Mode, Music Excite, Microphone Feedback Inhibition, Keyboard and Authority Control, etc.
   - **RECALL**: press to recall data from a preset.
   - **SAVE**: press to save data to a preset.
   - **UP/ESC**: Short-press will navigate to the previous parameter or escape to the last screen. Long-press will navigate to the homescreen.
   - **DOWN**: press to navigate to the next parameter.

5. **EFFECT / ADJUST/SELECT**: this knob can be used for Effect Volume adjustment, unlocking the homescreen and parameter editing.
   - **To adjust Effect Volume**: when the LCD shows the homescreen, rotate the knob to adjust the EFFECT volume.
   - **To unlock the LCD homescreen**: when the LCD is locked, press and
rotate the knob to enter the 4-digit password and then press to confirm.

- **To edit parameters:** when the LCD is unlocked and any menu button (4) is pressed, short-press the knob to enter into the next level menu or parameter. Short-press the knob to select a parameter. The selected parameter will flash. Rotate the knob to edit the value.

6. **MIC:** rotate the knob to adjust microphone volume.

7. **MUSIC:** rotate the knob to adjust music volume.

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**Rear Panel**

1. **MIC 1 & MIC 2:** accepts 1/4” (6.35mm) microphone jack plug. A separate gain control is provided for each input.

2. **MIC 3:** accepts 1/4” (6.35mm) microphone jack plug. A gain control is provided.

3. **OPTICAL:** accepts digital signal input.

4. **BGM:** A pair of RCA connectors. Accepts analog input signal.

5. **VOD:** A pair of RCA connectors. Accepts analog input signal.

6. **REC:** A pair of RCA connectors. Connects to an audio recorder for karaoke recording.

7. **OUTPUT CHANNELS:** include Right, Left, Center, Sub, Surround Right and Surround Left output. All uses unbalanced XLR connectors to connect to professional amplifiers or powered speakers.

8. **VENTILATION OUTLET:** For cooling-air ventilation. Do not block!

9. **POWER SWITCH:** Press to turn on or off the device.

10. **POWER INLET:** Accepts AC power using the power cable provided. Power requirement: ~220VAC 50Hz.
Section 2 - System Connection

SYSTEM CONNECTION

Please refer to the Typical Connection below to set up your audio system.

NOTE:
1. Please ensure all the device are disconnected from power before connection.
2. Please ensure all the volume controls of each device are turned completely down.
3. Please always follow “Last On, First Off” while handling amplifiers or powered speakers.
Section 3 - Menu Structure

MENU STRUCTURE

Music Input

- EQ 01-15
  - Cutoff Setup: HPF

LRCH Output

- EQ 01-10
  - Compressor: LRCH
  - Delay Setup: Time
  - Mixer Setup
  - Mixer Setup: Output
  - Cutoff Setup: HPF

LRCH Output

- LRCH Output
  - EQ 01-07
    - Compressor: SCHR
    - Delay Setup: Time
    - Mixer Setup
    - Mixer Setup: Output
    - Cutoff Setup: HPF

Surround CH Output

- CenCH Output
  - EQ 01-07
    - Compressor: CCH
    - Delay Setup: Time
    - Mixer Setup
    - Mixer Setup: Output
    - Cutoff Setup: HPF

Surround CH Output

- SubCH Output
  - EQ 01-05
    - Compressor: SubCH
    - Delay Setup: Time
    - Mixer Setup
    - Mixer Setup: Sub
    - Mixer Setup: Control
    - Cutoff Setup: HPF
    - Cutoff Setup: LPF

Mixer Setup:

- On / Bypass
- PEQ / LS / HS
- Q
- Gain
- Frequency
- LPF Slope
- Frequency
- Music On/Off
- Main On/Off
- Surround On/Off
- Center On/Off
- Sub On/Off
- Polarity 0 / 180
- Slope
- Frequency
Section 3 - Menu Structure

**MIC**

- **Mic Channel 1.2**
  - EQ 01-15
  - Mic Channel 1.2
  - Mic Setup
  - Cutoff Setup: HPF
    - On / Bypass
    - EQ / PEQ / LS / HS
    - Gain
    - Frequency
    - Threshold
    - Ratio
    - Attack
    - Release
    - Mic1.2 Volume

- **Mic Channel 3**
  - EQ 01-15
  - Mic Channel 3
  - Mic Setup
  - Cutoff Setup: HPF
    - On / Bypass
    - EQ / PEQ / LS / HS
    - Gain
    - Frequency
    - Threshold
    - Ratio
    - Attack
    - Release
    - Mic3 Volume

**EFFECT**

- **Echo Model**
  - EQ 01-05
  - Echo Model
  - Echo Setup
    - On / Bypass
    - EQ / PEQ / LS / HS
    - Gain
    - Frequency
    - Echo Volume + Polarity
    - Direct Volume + Polarity
    - PreDelay + Polarity
    - Delay + Polarity
    - Repeat
    - Damping
    - PreDelay R
    - Delay R
    - Frequency

- **Reverb Model**
  - EQ 01-05
  - Reverb Model default
  - Reverb Setup
    - On / Bypass
    - EQ / PEQ / LS / HS
    - Gain
    - Frequency
    - Custom
    - Room
    - Small Hall
    - Large Hall
    - Voice
    - Reverb Volume + Polarity
    - Direct Volume + Polarity
    - PreDelay + Polarity
    - Delay + Polarity
    - Reverb Time
    - Damping
    - Delay
    - RT, HC
    - Space
    - Density
    - Ref. Volume + Polarity
    - Late Volume + Polarity
    - On / Bypass
    - EQ / PEQ / LS / HS
    - Gain
    - Frequency

- **Effect Input EQ**
  - EQ 01-05
  - Effect Input EQ
  - Reverb Setup: Ref.
    - On / Bypass
    - EQ / PEQ / LS / HS
    - Gain
    - Frequency
Section 3 - Menu Structure

**SYSTEM**
- **Signal Source**
  - Input Port: BGM/VOD/OPT
- **Initial Preset Setup**
  - Preset: 1 - 10
- **Initial Volume Setup**
  - Music Volume
  - Mic Volume
  - Effect Volume
- **Limit Volume Setup**
  - Music Volume
  - Mic Volume
  - Effect Volume
  - Mode: Manual/Auto
- **Data Save Mode**
  - Password
- **Music EX Setup**
  - Excite: Off/1/2/3
  - Mic 1.2 FBC: Off/1/2/3
  - Mic 3 FBC: Off/1/2/3
- **Feedback Inhibition**
  - Password
- **Keyboard Setting**
  - Password
- **Authority Control**

**RECALL**
- **Data Recall From**
  - Preset 1-10

**SAVE**
- **Data Save To**
  - Preset 1-10
Section 4: Infrared Remote Control Codes

INFRARED REMOTE CONTROL CODES

IRDA: based on standard IRDA protocol

User code: DB

<table>
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<tr>
<th>Volume</th>
<th>0e</th>
<th>00</th>
<th>0f</th>
<th>1a</th>
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<td>Music +</td>
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<td>Mic +</td>
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<td>Music -</td>
<td></td>
<td></td>
<td></td>
<td>Mic -</td>
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<th>General Function</th>
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<th>19</th>
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<td>Lock</td>
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<tr>
<td>Mute</td>
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Input Select
### Section 5: Specifications

#### SPECIFICATIONS

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<th>Audio Inputs</th>
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</thead>
<tbody>
<tr>
<td>Mic input type</td>
<td>3 x 1/4” unbalanced</td>
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<tr>
<td>Impedance</td>
<td>7.5K Ohms</td>
</tr>
<tr>
<td>EIN</td>
<td>&lt;-110dBu, 20KHz Bandwidth</td>
</tr>
<tr>
<td>Level control</td>
<td>-∞ to +0.8dBu</td>
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<tr>
<td>Line input type</td>
<td>RCA unbalanced, left &amp; right</td>
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<tr>
<td>Impedance</td>
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<thead>
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<th>Audio Outputs</th>
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<td>XLR output type</td>
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<tr>
<td>Level</td>
<td>0dBu Nominal, +14.2dBu Maximum</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ohms</td>
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<tr>
<td>RCA output type</td>
<td>Unbalanced, left &amp; right</td>
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<tr>
<td>Level</td>
<td>+17.6dBu Maximum@Mic input, +13.4dBu Maximum@Music input</td>
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<tr>
<td>Impedance</td>
<td>115 Ohms</td>
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<tr>
<th>Audio Performance</th>
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<td>Frequency response</td>
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<tr>
<td>THD+N</td>
</tr>
<tr>
<td>Dynamic range</td>
</tr>
<tr>
<td>A/D conversion</td>
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<tr>
<td>DSP processor</td>
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<th>Infrared Receiver</th>
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<td>Carrier frequency</td>
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<table>
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<th>Others</th>
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<tbody>
<tr>
<td>Computer connection</td>
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<tr>
<td>AC power supply</td>
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</tr>
<tr>
<td>Net weight</td>
</tr>
<tr>
<td>Gross weight</td>
</tr>
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</table>

To get more information about this product or to download its control software, please go to www.jblpro.com.
WARRANTY INFORMATION
The JBL Limited Warranty on KX180 Digital Processor is in effect for one (1) years from the date of the first consumer purchase.

Who Is Protected By This Warranty?
Your JBL Warranty protects the original owner and all subsequent owners so long as: A) Your JBL product has been purchased in China Sales Area (This Warranty does not apply to JBL products purchased elsewhere. Other purchasers should contact the local JBL distributor for warranty information.); and B) The original dated bill of sale is presented whenever warranty service is required.

What Does The JBL Warranty Cover?
Except as specified below, your JBL Warranty covers all defects in material and workmanship. The following are not covered: Damage caused by accident, misuse, abuse, product modification or neglect; damage occurring during shipment; damage resulting from failure to follow instructions contained in your Instruction Manual; damage resulting from the performance of repairs by someone not authorized by JBL; claims based upon any misrepresentations by the seller; any JBL product on which the serial number has been defaced, modified or removed.

Who Pays For What?
JBL will pay all labor and material expenses for all repairs covered by this warranty. Please be sure to save the original shipping cartons because a charge will be made if replacement cartons are requested. Payment of shipping charges is discussed in the next section of this warranty.

How To Obtain Warranty Performance?
If your JBL product ever needs service, please contact your local JBL distributor, authorized Harman Professional service center or Harman Professional China Service Center (Hotline: 400 166 7806). You’ll need to present the original bill of sale to establish the date of purchase. Please do not ship your JBL product to our Customer Service Center without prior authorization. You are responsible for transporting your product for repair or arranging for its transportation and for payment of any initial shipping charges. However, we will pay the return shipping charges if repairs are covered by the warranty.

Limitation of Implied Warranties
ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

EXCLUSION OF CERTAIN DAMAGES
JBL’s LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT AND SHALL NOT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY, FROM STATE TO STATE.
Section 7: Service

SERVICE

PROFESSIONAL CONTACTS
Contact the JBL Professional Distributor in your area.
A complete list of JBL Professional international distributors is available at www.jblpro.com.

CUSTOMER SERVICE
400 166 7806
Monday - Friday
9:00am - 6:00pm

WEBSITE
www.jblpro.com

PRODUCT REGISTRATION
Register your product online at www.jblpro.com/registration.