

**CE-X215
PRO-AUDIO SYSTEM**

CEDARSLINK®

GRAPHIC EQUALIZER



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USER MANUAL | 

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This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure-voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

CAUTION:

1. Avoid Excessive Heat, Humidity, dust and vibration.
2. Avoid Physical Shocks.
3. Do Not Open The Case Or Attempt Repairs Or Modifications Yourself.
4. Clean With A Soft Dry Cloth.
5. Always Use The Correct Power supply.
6. The Product Should Be Serviced By Qualified Service Personnel.

Inputs

Connectors:	1/4` TRS, female XLR (pin 2 hot)
Type:	Electronically balanced/unbalanced, RF filtered
Impedance:	Balanced 40K Ohms, unbalanced 20K Ohms
Max Input Level:	>+21dBu balanced or unbalanced
CMRR:	>40dB, typically >55db at 1KHz

Outputs

Connectors:	1/4` TRS, male XLR (pin 2 hot)
Type:	Impedance- balanced/unbalanced, RF filtered
Impedance:	Balanced 102 Ohms, unbalanced 51 Ohms
Max Output Level:	>+21dBu balanced or unbalanced into 2K Ohms or greater >+18dBm balanced/unbalanced into 600 Ohms

System Performance

Bandwidth:	20Hz to 20KHz, +0.5/-1dB
Frequency Response:	<10Hz to >50KHz, +0.5/-1dB
Dynamic Range:	108dB
Signal-to-Noise:	90dB
THD+Noise:	<0.004%
Inter channel Crosstalk:	<-80dB, 20Hz to 20KHz

Function Switches

EQ Bypass:	Bypass the graphic equalizer section in the signal path
Low Cut:	Activates the 50Hz 12dB/Octave high-pass filter
Range:	Selects either +/-6dB or +/-12dB slider boost/ cut range

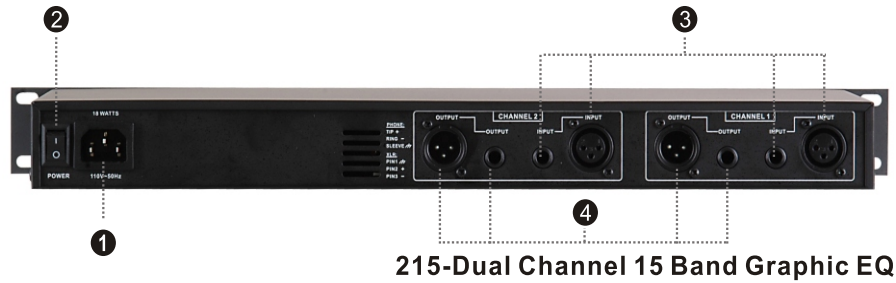
Power Supply

Operating Voltage:	110VAC 50/60Hz, 220VAC 50/60Hz
Mains Connection:	IEC receptacle

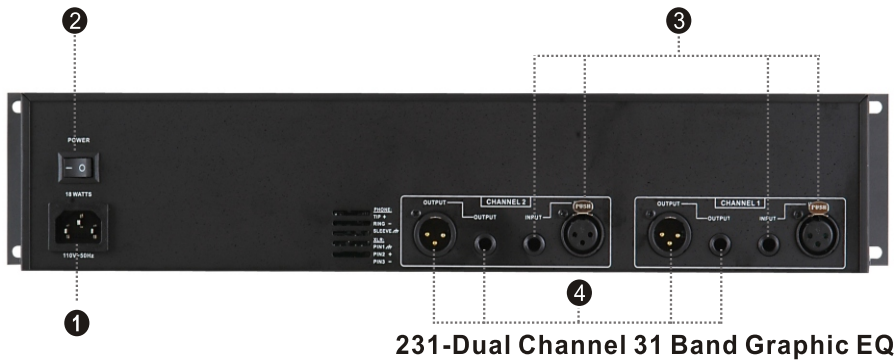
Size & Weight

231 Size:	482mm(W) x 150mm(D) x 89mm(H)
231 Weight:	3.8Kg
215 Size:	482mm(W) x 150mm(D) x 45mm(H)
215 Weight:	2.8Kg

Rear Panel Functions



215-Dual Channel 15 Band Graphic EQ



231-Dual Channel 31 Band Graphic EQ

1 Power Cord Receptacle

The IEC jack is used to connect the power cord to the AC Power source.
(Caution: Do not remove the center grounding pin.)

2 Power Switch

Switches the power on and off. Always make audio connection with the Power switch in the OFF position.

3 Input Connectors

The equalizer is equipped with balanced XLR-type and 1/4" phone jack input connectors.

4 Output Connectors

The equalizer is equipped with balanced XLR-type and TRS phone Jack Input connectors.

Safety Information

WARNING:

1. Read all the instructions before using the product.

2. Follow all instructions and heed all warnings.

3. Protective Ground.

Before turning the product ON, make sure that it is connected to ground. This is to prevent the risk of electric shock. Never cut internal or external ground wiring from the protective ground terminal.

4. Handle Cables Carefully.

Always plug and unplug cables-including the AC cord-by gripping the connector, not the cord.

5. Make Sure Power Is Off Before Making Or Removing Connections.

Always turn the power OFF prior to connecting or disconnecting cables. This is important to prevent damage to the unit itself as well as other connected equipment.

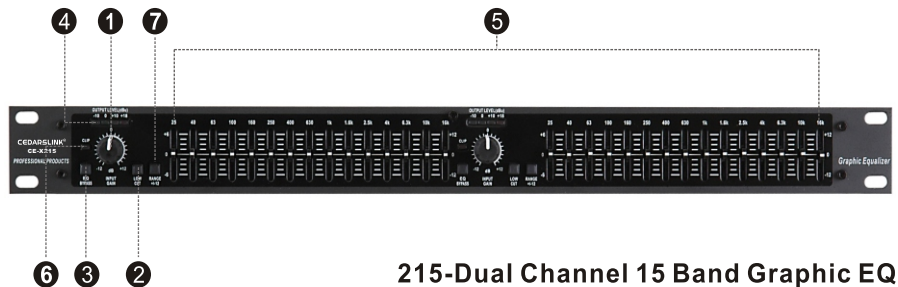
6. Use The Recommended Fuse Type.

To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

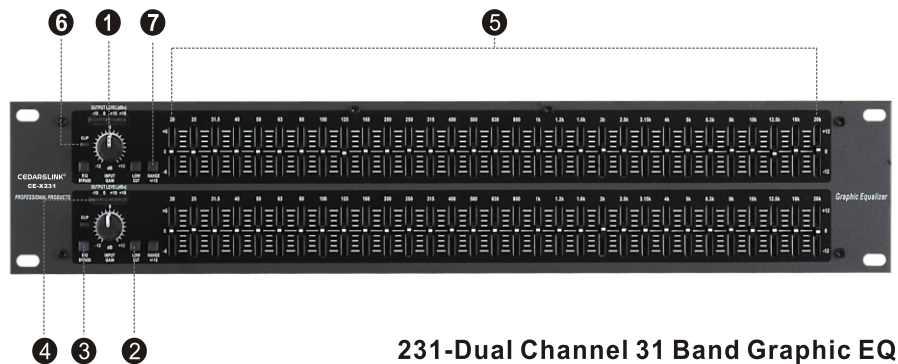
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Front Panel Functions



215-Dual Channel 15 Band Graphic EQ



231-Dual Channel 31 Band Graphic EQ

1 Input Gain Control

This control sets the signal level to the equalizer. It is capable of +/-12dB of gain. The level is indicated on the INPUT LEVEL BAR GRAPH. This control is used to compensate for variations in volume due to gain changes caused by equalizing in dividusl frequencies.

2 Low Cut Enable Switch

This switch electronically inserts a filter into the signal path, which cuts the low frequencies at 12db per octave (-3dB@50Hz.) The ON LED indicator lights when the switch is depressed and The filter is in the circuit.

Front Panel Functions

3 EQ Bypass

This switch inserts or removes the equalizer channel from the Signal path. The EQ LED indicator lights when the switch is FET switched to prevent switching transients when inserting the equalizer into the circuit.

4 Output Level Bar Graph

The LED LEVEL INDICATOR show the signal level to the unit. If the +18 indicator LED lights continuously, the overall level is too high and must be reduced using.

5 Frequency Band Slider controls

Each one of these linear potentiometers will boost or cut its Noted frequency by +/-12dB. When all the sliders are in the Center detented position, the output of the equalizer is said To be flat. The numbers marked over the top of each slider Represent the center frequency that each band will control.

6 Clip LED

This LED lights whenever any internal signal level reaches 3dB below clipping which may occur when any of the follow- ing happen:(1) the input signal is ``hotter`` than +22dBu, (2)excessive gain is applied by the input gain control, or (3) excessive boost is applied using the frequency sliders.

7 Boost / Cut Range Selection Switch and LEDs:

This switch selects which of the two boost / cut ranges the Equalizer will use, either +/-6dB or +/-12dB. A red LED light will appear when the +/- 12 dB is selected.