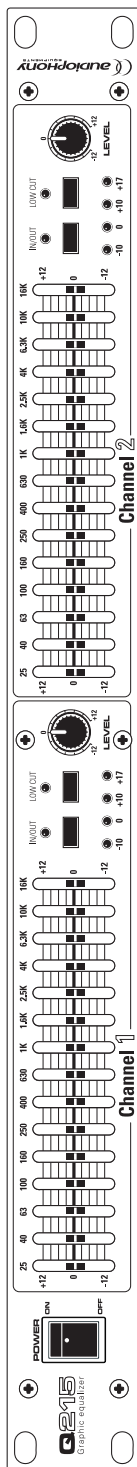


2 x 15 bands equalizer



Q215

1 - Safety information

Important safety information



This unit is intended for indoor use only. Do not use it in a wet, or extremely cold/hot locations. Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to this product or other property.



This product contains non-isolated electrical components. Do not undertake any maintenance operation when it is switched on as it may result in electric shock.



Any maintenance procedure must be performed by a CONTEST authorised technical service. Basic cleaning operations must thoroughly follow our safety instructions.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING : This unit contains no user-serviceable parts. Do not open the housing or attempt any maintenance by yourself. In the unlikely even your unit may require service, please contact your nearest dealer. In order to avoid any electrical malfunction, please do not use any multi-socket, power cord extension or connecting system without making sure they are perfectly isolated and present no defect.



Risk of electrocution

To prevent the hazard of electric shocks, do not use extension cords, multi-socket or any other connection system without making sure metal parts completely are out of reach.



Sound levels

Our audio solutions deliver important sound pressure levels (SPL) that can be harmful to human health when exposed during long periods. Please do not stay in close proximity of operating speakers.



Recycling your device

- As HITMUSIC is really involved in the environmental cause, we only commercialise clean, ROHS compliant products.
- When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Symbols used



This symbol signals an important safety precaution.



The CAUTION symbol signals a risk of product deterioration.



The WARNING symbol signals a risk to the user's physical integrity. The product may also be damaged.

Instructions and recommendations

1 - Please read carefully :

We strongly recommend to read carefully and understand the safety instructions before attempting to operate this unit.

2 - Please keep this manual :

We strongly recommend to keep this manual with the unit for future reference.

3 - Operate carefully this product :

We strongly recommend to take into consideration every safety instruction.

4 - Follow the instructions:

Please carefully follow each safety instruction to avoid any physical harm or property damage.

5 - Avoid water and wet locations :

Do not use this product in rain, or near washbasins or other wet locations.

6 - Installation :



We strongly encourage you to only use a fixation system or support recommended by the manufacturer or supplied with this product. Carefully follow the installation instructions and use the adequate tools.

Always ensure this unit is firmly fixed to avoid vibration and slipping while operating as it may result in physical injury.

7 - Ceiling or wall installation :

Please contact your local dealer before attempting any ceiling or wall installation.

8 - Ventilation :



The cooling vents ensure a safe use of this product, and avoid any overheating risk. Do not obstruct or cover these vents as it may result in overheating and potential physical injury or product damage. This product should never be operated in a closed non-ventilated area such as a flight case or a rack, unless cooling vents are provided for the purpose.

9 - Heat exposure :

Sustained contact or proximity with warm surfaces may cause overheating and product damages. Please keep this product away from any heat source such as a heaters, amplifiers, hot plates, etc...

10 - Electric power supply :

This product can only be operated according to a very specific voltage. These information are specified on the label located at the rear of the product.

11 - Power cords 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 lugs, convenience receptacles and the point where they exit from the fixture.

12 - Cleaning precautions :



Unplug the product before attempting any cleaning operation. This product should be cleaned only with accessories recommended by the manufacturer. Use a damp cloth to clean the surface. Do not wash this product.

13 - Long periods of non use :

Disconnect the unit's main power during long periods of non use.

14 - Liquids or objects penetration :

Do not let any object penetrate this product as it may result in electric shock or fire.

Never spill any liquid on this product as it may infiltrate the electronic components and result in electric shock or fire.

15 - This product should be serviced when :



Please contact the qualified service personnel if :

- The power cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the appliance.
- The appliance has been exposed to rain or water.
- The product does not appear to operate normally.
- The product has been damaged.

16 - Inspection/maintenance :



Please do not attempt any inspection or maintenance by yourself. Refer all servicing to qualified personnel.

17 - Operating environment :



Ambient temperature and humidity: +5 - +35°C, relative humidity must be less than 85% (when cooling vents are not obstructed).

Do not operate this product in a non-ventilated, very humid or warm place.

2 - Our advice

The Q215 is a device allowing you to modify the volume and structure of an audio signal. This process can create distortions that can be harmful to your sound system.

Please make sure the outgoing signal of your Q215 is clear, without distortion, and the output level is adapted to the devices receiving the signal. However, checking the output volume is not enough as a saturated signal can damage your material or cause hearing impairments.

3 - Main characteristics

2 x 15 bands stereo equalizer with balanced and unbalanced inputs/outputs - 19" edge-rackable.

The Q215 is a professional tool allowing you to modify the sound level per frequency range in order to get the exact sound rendition you want by increasing/decreasing some parts of the specter of a source.

- Stereo equalizer, 2/3 Octave from 31.5 Hz to 16 kHz
- Adjustable output level: +12/-12 DB
- 20 mm faders
- Frequency response: 20 Hz - 20 kHz
- Frequency settings: +/- 12dB (+/- 0.5 DB)
- Low-pass filter per channel (60 Hz -3DB)
- Balanced inputs: XLR, Jack 6.35 TRS
- Unbalanced inputs: RCA
- Balanced outputs: XLR, Jack 6.35 TRS
- Unbalanced outputs: RCA
- REC OUT via balanced RCA (output level -6 DB)
- Signal level indicator: -10DB, 0DB, +10DB, +17DB
- By-pass and low-pass indicators
- 19" edge-rackable, 1 unit

4 - Preparation and installation

4-1 - Checking the contents

The package must contain the following articles:

- The Q215
- The user guide
- 1 power cord

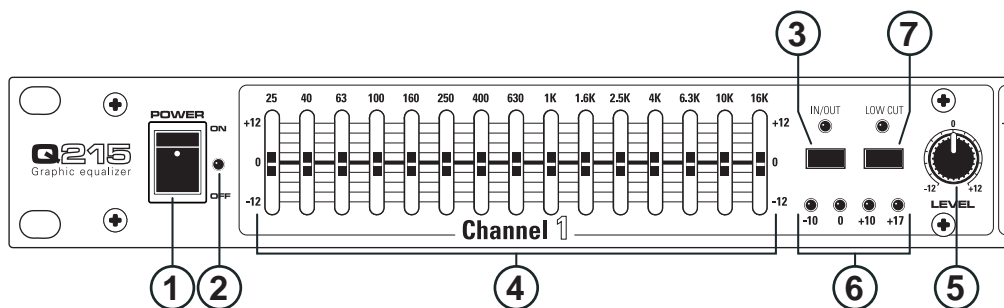
4-2 - Installing the unit

a - Set up the Q215 over a flat surface or within racks.

b - Please make sure the unit is installed in a properly ventilated place, unexposed to sunlight rays, excessive temperatures or humidity.

5 - Panels description

5.1 - Front panel



[1] - Power switch

Turns the unit ON/OFF.

[2] - Power indicator

Lights up when the unit is turned ON.

[3] - IN/OUT button

This key, when pressed, bypasses the EQ section. So you can easily compare the equalized sound and original sound.

[4] - Frequency settings faders

Allow you configure the value of each frequency (+/-12 dB) Values are indicated above the faders, in Hertz (Hz).

[5] - Output gain control knob

Allows you to control the main gain of the Q215. These settings are especially useful to compensate the volume increase/decrease due to the modifications operated by the Q215. Settings from -12 to +12 dB.

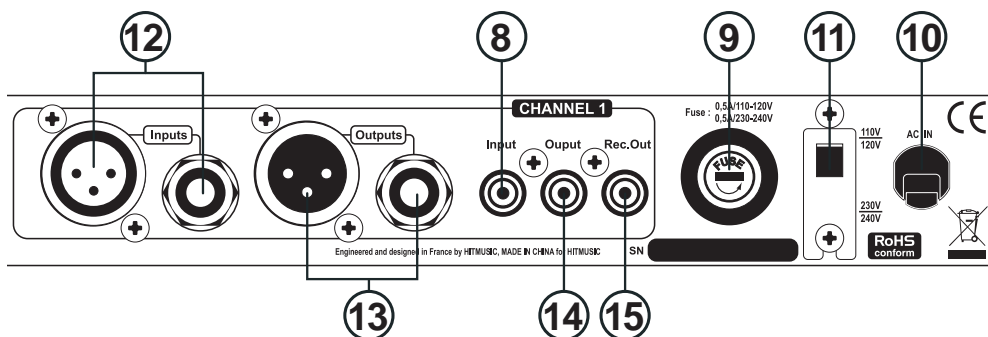
[6] LED volume viewmeter

These 4 LEDs indicate the volume output. Each LED lights up when the signal has reached the corresponding level (in dB). There is a high risk of saturation when the +10 and +17 LEDs are activated.

[7] - Low Cut

Activates the built-in low-pass filter. Affects all frequencies below 60Hz, with a -3dB slope.

5.2 - Connectors



[8] - RCA input

Used to receive an incoming signal.

[9] - Fuse

If need to change the fuse, replace it with one with the exact same characteristics.

[10] - Main power socket

Connect here the supplied power cord.

Please make sure the voltage of your electrical outlet is compatible with the Q215.

[11] - Voltage selector

This selector is protected by a lid and allows you to use your device as a 220V or 110V unit. Please make sure the voltage of your electrical outlet matches the voltage indicated at the rear of the Q215.

[12] - Jack and XLR inputs

These sockets allow you to receive an incoming signal and are compatible with balanced and unbalanced signals.

- XLR : pin1 = ground ; pin2 = positive signal ; pin3 = negative signal
 - Jack : (in parallel to XLR sockets) - tip = positive signal ; ring = negative signal ; body = ground
- The input impedance is greater than 40KΩ.

[13] - Jack and XLR outputs

These sockets, wired as described above, allow you to transmit a signal and are compatible with both unbalanced and balanced signals.

[14] - RCA output

Can be used simultaneously with the XLR or Jack outputs.

[15] - Rec Out

Can be used simultaneously with the XLR, Jack or RCA outputs. Its signal is identical to the RCA output.

6 - Technical specifications

- **Equalization**

- Frequency range: 2 x 15, 2/3 of an octave, from 31.5Hz to 16 kHz
- Types of filters: Linear, precision of 3%
- Sliders excursion: 20 mm total, middle point
- Gain: +/- 12dB

- **Input - output connectors**

- XLR : Unbalanced
- Stereo Jack 6.35 : Balanced
- RCA : Unbalanced

- **Audio characteristics**

- Output impedance: 20 kOhms
- Max output level: 5,5V
- Frequency response: 20 at 20 KHz, +0,5dB
- THD + noise: 0,03%
- Signal-to-noise ratio: -90dB
- Channels separation : >50dB / 60dB

- **Electrical characteristics**

- Power supply: 110/230V - 50/60Hz
- Power consumption: 15 W

- **Additional information**

- Dimensions: 483 x 44 x 190 mm
- Weight: 2.4 Kg

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