

**HIFONICS®**  
C A R A U D I O  
POWER FROM THE GODS

# HFEQ

**4-BAND EQ/2-WAY CROSSOVER  
LINE DRIVER**



Thank you for purchasing the Hifonics HFEQ 4-Band EQ/2-Way crossover.  
This model operates as either a 2 or 3-way crossover with an 18dB /Octave subwoofer crossover with a remote gain control module.  
This unit will provide filtered signals to front and rear amplifiers, and Low Pass subwoofer output using a single pair of inputs.  
Please read the entire manual to ensure proper connections and application.

## **FEATURES**

- **TWO COLOR (RED/BLUE) CONTROL KNOB BACK LIGHTING**
- **TWO / FOUR CHANNEL UNBALANCED LINE INPUT**
- **DESIGNATED SUBWOOFER UNBALANCED OUTPUT**
- **SUBWOOFER X-OVER FREQUENCY CONTROL**
- **INPUT LEVEL CONTROL ADJUSTMENT**
- **MONO / STEREO SELECTION**
- **FADER CONTROL**
- **HALF DIN CHASSIS SIZE**
- **MOUNTING HARDWARE**
- **MID BASS / SUB BASS / MID RANGE / TREBLE CONTROL**

## **Maxxsonics Limited Warranty**

As the manufacturer of Maxxsonics, Autotek, MB Quart, Crunch and Hifonics car audio products, Maxxsonics USA Inc. Warrants to the original consumer purchaser the amplifier to be free from defects in material and workmanship for one (1) Year from date of purchase.

All other parts and accessories of the system are warranted to be free from defects in material and workmanship for one (1) year from date of purchase. Maxxsonics will repair or replace at it's option and free of charge during the warranty period, any system component that proves defective in materials and workmanship under normal installation, use and service provided that the product is returned to the authorized Maxxsonics dealer from where it was purchased. A photo copy of the original receipt must accompany the product being returned.

Valid purchase receipts will contain the name and address of the authorized reseller.

Any damage to the product as a result of misuse, abuse, accident, incorrect wiring, improper installation, alteration of date code or bar code labels, revolution, natural disaster, or any sneaky stuff because someone messed up, repair or alteration out side of our factory or authorized service centers and any thing else you have done that you should not have done is not covered.

This warranty is limited to defective parts and specifically excludes any incidental or consequential damages connected therewith. This warranty is not to be construed as an insurance policy.

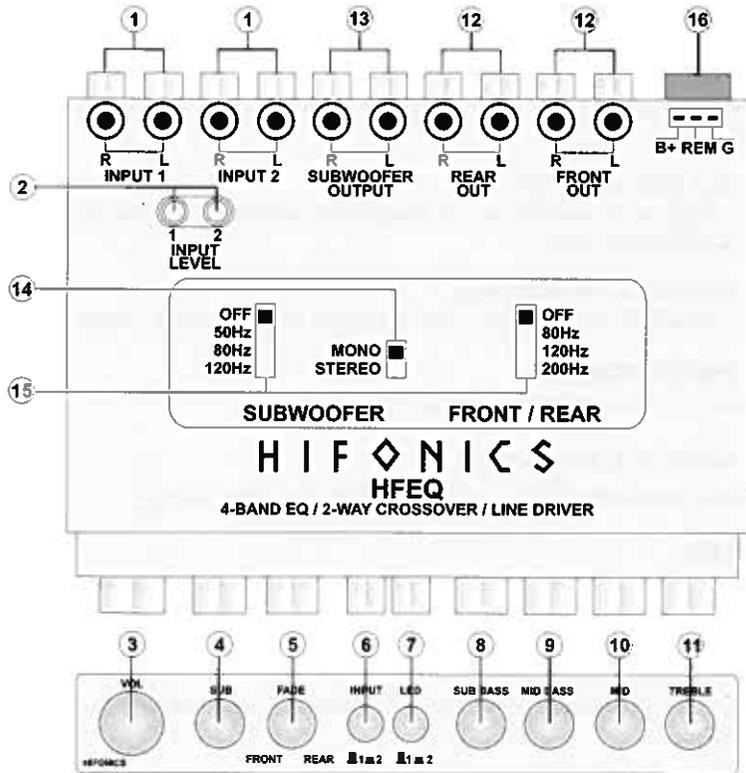
Warranty on installation labor, removal, re-installation and freight charges are not the responsibility of Maxxsonics USA Inc.

Warranty products damaged as a result of insufficient or improper packing materials are not covered by this limited warranty and such damaged product will be returned as is at the expense of the owner.



**MAXXSONICS**  
Designed and Engineered in the USA  
[www.maxxsonics.com](http://www.maxxsonics.com)

# FEATURE DESCRIPTIONS



## **FEATURE DESCRIPTIONS**

### **1. INPUT 1 / INPUT 2**

Channel 1 and channel 2 input from the source unit (Radio/CD player) have L & R unbalanced input which are directly routed to the internal EQ and passed through to the channel 1 and channel 2 outputs. Each input can be chosen independently by the input selector switch (6).

### **2. INPUT LEVEL (gain) CONTROL**

The input level control can be adjusted to match the source unit line-level sensitivity.

### **3. VOLUME CONTROL**

The audio level (volume) can be increased or decreased with this illuminated VOLUME control knob.

### **4. SUBWOOFER CONTROL**

The Subwoofer Output level is controlled by the SUB illuminated volume knob.

### **5. FADER CONTROL**

Allows to control the Front and Rear output levels.

### **6. INPUT (1 & 2) CONTROL**

Allows you to select Input channel 1 or 2 for independent control.

### **7. LED**

Allows you to change the control knob back light illumination color from Red to Blue.

### **8. SUB BASS CONTROL**

This control allows you to adjust the Sub Bass volume at 45Hz to increase or decrease.

### **9. MID BASS CONTROL**

This control allows you to adjust the Mid Bass volume at 120Hz to increase or decrease.

#### **10. MID RANGE CONTROL**

This control allows you to adjust the Mid Bass volume at 2.2KHz to increase or decrease.

#### **11. TREBLE CONTROL**

This control allows you to adjust the Treble volume at 12KHz to increase or decrease.

#### **12. FRONT / REAR OUTPUT**

The Front & Rear left/right outputs are High Pass outputs to be connected to the amplifier(s) inputs.

#### **13. SUBWOOFER OUTPUT**

The Subwoofer left & right are Low Pass Outputs when crossover is used and are connected to the subwoofer amplifier(s) inputs.

#### **14. STEREO / MONO SWITCH**

This allows you to select stereo or mono for the subwoofer output

#### **15. FRONT / REAR SUBWOOFER FREQUENCY SWITCH**

This switch allows you to choose between three different frequency settings or allow Full Range (in the "OFF" position) for the subwoofer output.

#### **16. POWER CONNECTOR**

This is the input jack that supplies power, ground and remote.

*The +12 Volt Terminal* connects to either constant +12 volts or to an accessory switched +12 volt source.

The radio power wire is a preferred source. This is a fused power wire.

*The Ground Terminal* connects to chassis ground.

*The Remote Terminal* connects to the source unit remote or antenna output wire that provides +12 volts when the source unit is "on" and 0 volts when the source unit is turned "off".

## MOUNTING AND WIRING

Prior to mounting, connect the wires to ensure proper operation.

### Mounting

1. Select the desired mounting location either under the dash or in the dash. Be sure that there is adequate depth for the HFEQ.
2. Use the mounting brackets and hardware provided. Be sure there is proper clearance for the mounting bracket screws when attaching under the dash. Use caution to ensure there are no wiring harnesses behind the dash panel where the mounting screws are fastened.
3. Route the power, ground and remote wires away from moving parts to prevent pinched or shorted wires.
4. Be sure to use a 10 amp in-line fuse on the power wire to ensure proper electrical protection.



### WIRING

1. **Power Wire:** The power wire should be connected to a constant or switched +12 volt source with a 10 amp in-line fuse. We recommend that you use the radio constant or switched +12 volt source.
2. **Ground Wire:** Connect the ground wire to a clean chassis ground point. Be sure to remove all paint and primer to expose clean metal. Use a ring terminal and lock or star washer to secure the ground wire.
3. **Remote Wire:** The remote wire should be connected to the source unit remote or antenna wire that provides +12 volts when the source unit is "on" and 0 volts when the source unit is turned "off".

## **INPUT / OUTPUT CABLE CONNECTION**

1. Connect the RCA output of the source unit to the HFEQ INPUT 1. Inputs 1 & 2 are provided for using more than one source unit. If the source unit has Front & Rear outputs, turn the Fader to Front and use only the Front Outputs.
2. Connect the HFEQ Front Outputs to the Front amplifier inputs.
3. Connect the HFEQ Rear Outputs to the Rear amplifier inputs.
4. Connect the HFEQ Subwoofer Outputs to the Subwoofer amplifier inputs.
5. Adjust the Input Level Controls according to your source units line level sensitivity recommendations.

## SPECIFICATIONS

|                                  |                      |
|----------------------------------|----------------------|
| OUTPUT CHANNELS (LEFT / RIGHT)   | FRONT/REAR/SUBWOOFER |
| INPUT CHANNELS (LEFT / RIGHT)    | INPUT 1 / INPUT 2    |
| INPUT RANGE OF GAIN CONTROL (dB) | >40                  |
| MAXIMUM INPUT VOLTAGE (V)        | >10                  |
| INPUT IMPEDANCE (K-Ohms)         | >20                  |
| MAXXIMUM OUTPUT VOLTAGE          | >9                   |
| VOLUME GAIN (dB)                 | >40                  |
| -3dB LOW PASS FREQUENCY (Hz)     | 50>80>120            |
| -3dB HIGH PASS FREQUENCY (Hz)    | 80>120>200           |
| LOW PASS/HIGH PASS SLOPE/OCTAVE  | 12                   |
| EQUALIZATION FREQUENCIES (Hz)    | 45>120>2200>12000    |
| EQUALIZATION CYT OR BOOST (dB)   | 18                   |
| DISTORTION AT 1kHz - 1V (%)      | .01                  |
| CHANNEL SEPARATION AT 1kHz (dB)  | >80                  |
| SIGNAL TO NOISE RATIO (dB)       | >100                 |
| FREQUENCY RESPONSE (Hz) (-1dB)   | 10 - 50k             |