



maxsquare

MSQ-85A

DSP TV Sound HDMI Virtual Surround Audio Enhancer



MADE IN TAIWAN

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1. Introduction

The MSQ-85A DSP TV Sound HDMI Virtual Surround Audio Enhancer is designed to elevate TV and home entertainment audio without the complexity or cost of traditional surround sound systems. By leveraging advanced OMNIsfx DSP audio processing, the MSQ-85A intelligently enhances spatial depth, balances volume dynamics, and improves dialogue presence for a more immersive and comfortable listening experience.

Supporting HDMI ARC connectivity, the MSQ-85A integrates seamlessly with modern TVs, soundbars, and speaker systems while maintaining compatibility with multichannel audio formats through passthrough. Its compact, plug-and-play design makes it ideal for living rooms, apartments, and space-conscious setups, delivering enhanced surround perception without additional speakers or complicated configuration.

2. Features

- Advanced DSP processing for enhanced surround sound perception
- Creates a wider and deeper soundstage from standard TV audio
- Improves dialogue clarity while maintaining natural sound balance
- Supports HDMI ARC input and output for modern TV setups
- Dual audio operation modes: DSP-enhanced PCM stereo mode (OMNIsfx) and passthrough mode
- Passthrough mode supports non-PCM multichannel audio formats via HDMI ARC
- Multichannel audio passthrough support including Dolby Digital up to 5.1, Dolby Digital Plus, and Dolby Atmos
- Plug-and-play installation with no software or calibration required
- Palm-sized design that can be discreetly mounted or hidden behind displays to maintain a clean setup
- Suitable for movies, streaming content, gaming, and everyday TV viewing

* For optimal performance, ensure the TV audio output is set to PCM when using OMNIsfx DSP-enhanced stereo mode.

3. Package Contents

- MSQ-85A x1
- USB 2.0 Type-A to Micro-USB Cable (50 cm) x1
- HDMI 2.1 Cable (50 cm) x1
- 3.5 mm Stereo Jack Cable (50 cm) x1
- Self-Adhesive Reclosable Fasteners x1 set
- Self-Adhesive Rubber Feet x4
- User Manual x1

4. Specifications

| Item | Description |
|---------------------------------|---|
| Model Name | MSQ-84A |
| Product Function | DSP HDMI Virtual Surround Audio Enhancer |
| Power Supply | DC 5V via Micro-USB connector |
| Audio Input | 1 x HDMI ARC IN 1 x 3.5 mm Stereo Analog Input |
| Audio Output | 1 x HDMI ARC OUT |
| Supported Audio Formats (Input) | <ul style="list-style-type: none"> • PCM 2.0 (Uncompressed) • Passthrough: Dolby Digital up to 5.1, Dolby Digital Plus, Dolby Atmos |
| Audio Output Formats | <ul style="list-style-type: none"> • Passthrough: Dolby Digital up to 5.1, Dolby Digital Plus, Dolby Atmos • PCM Stereo |
| Origin | Made in Taiwan |

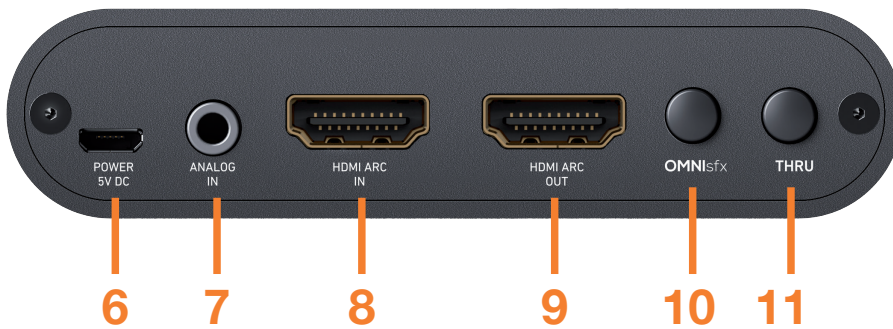
5. Panel Description

Front Panel



1. **Pass Through Mode LED Indicator:** ON (Purple)/OFF (No LED)
2. **OMNIisfx DSP Enhanced Mode LED Indicator:** ON (Blue)/OFF (No LED)
3. **HDMI ARC IN LED Indicator**
4. **HDMI ARC IN/Analog IN Select Button**
5. **Analog IN LED Indicator**

Rear Panel



6. **Micro-USB Port:** +5V Power
7. **Analog Input (3.5mm)**
8. **HDMI ARC Input**
9. **HDMI ARC Output**
10. **OMNIisfx DSP Enhanced Mode Button**
11. **Pass Through Mode Button**

6. Connection Diagram



7. Warranty

Maxsquare warrants the MSQ-85A DSP TV Sound HDMI Virtual Surround Audio Enhancer for one year from the date of purchase from Maxsquare or an authorized dealer from defects in material and workmanship. If this product fails to function properly within the first year of its warranty, Maxsquare may repair or replace it at its discretion, provided that the device has not been subjected to accident, disaster, abuse, or other unauthorized modifications, including static discharge and power surge. Maxsquare provides this warranty to its BUYER solely in the case of a direct transaction. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. These repairs are warranted by a 90-day warranty from the date of reshipment to the buyer. Customers agree to insure the unit or incur the risk of loss or damage in transit if the unit is delivered by mail. A unit will not be accepted if it does not have a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of purchase may be required to claim the warranty. Customers outside of Taiwan must pay for shipping to and from Maxsquare. Cables and power adapters have a 30-day warranty and must be free of any markings or scratches, as well as neatly coiled.

This manual's material has been carefully reviewed and is believed to be accurate. Maxsquare, on the other hand, takes no responsibility for any inaccuracies or omissions in this manual. Even if advised of the possibility of such losses, Maxsquare will not be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual. Furthermore, the technical information contained in documents on the MSQ-85A's features and specifications is subject to change without further notice.

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