

Modus



USER MANUAL | MZA-8M | 8-Channel Amplifier | Marine Grade |
Deutsch Style Connectors | On-Board DSP



PREACT™



CLASS D



ACTEQ™



Welcome to Modus.

You've chosen precision performance that works seamlessly in the background of every adventure. These instructions will help you unlock your system's full potential. Take a moment to review these guidelines, then keep this guide handy for future reference. Your journey starts now.

If you have any technical questions, please contact:
Customer care: 805-790-7383
Online support: <https://support.modusglobal.com>

Register your purchase now to receive future firmware updates and warranty coverage. Purchase receipt is required.

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What's Included

When first unpacking this product, please check that the package contains each of the items listed below. If something is missing, please contact the place of purchase.

- 1x Marine amplifier
- 1x Power harness
- 1x RCA input harness
- 2x Speaker output harnesses
- 1x T10 Torx bit
- 1x T30 Torx bit
- 1x T8 Torx wrench
- 4x Mounting Torx screws (PA6.3 x 60mm, T30)
- User manual and warranty card

Introduction

The amplifier features the following:

- PREACT™ current averaging technology
- ACTEQ™ microprocessor controlled protection
- Internal lithium-ion battery energy storage reservoir
- Full-range Class D amplifier, programmable DSP
- 8-channel output, bridgeable
- 2Ω stereo stable
- High-speed MOSFET wide input range 1st stage buck/boost power supply
- High-power MOSFET bi-polar 2nd stage flyback power supply
- RCA low level input
- Variable input gain control
- Variable high and low pass filters
- Variable bass boost (for CH7 & CH8)
- Infrasonic filter (for CH7 & CH8)
- Thermal, short, overload, under voltage and over voltage protection
- Weatherproof

Warning

Please read and understand all instructions before using your product. Failure to follow these instructions could result in injury and/or damage which may void the warranty.

Important Safety Precautions

- Do not open or attempt to repair this product yourself. Dangerous high voltages are present which may result in electric shock.

- To avoid risk of electronic shock or damage to the product, do not expose the product to water spray or submersion. If this occurs, immediately unplug the power cable and send the product to your local dealer or service center as soon as possible.
- Never adjust the product in situations while driving or operating a vehicle or vessel. Staying safe is your primary responsibility.
- If the product emits smoke, strange noises, odors, or shows any other abnormal signs, immediately disconnect it from the power supply. Discontinue use and contact your dealer or our technical support team. Using the product in this condition may result in permanent damage to the system.
- Servicing must be performed only by an authorized technician. Contact our technical support team for any service-related questions.

Installation Precautions

- Installation must be performed by a professional. Contact our technical support team for any installation-related questions.
- Before installing any electrical accessories to your vessel, always make sure the vessel's electrical system is equipped to handle the extra electrical load.
- Before installation, disconnect the vessel battery's negative terminal to prevent product damage, fire, or injury.
- Always connect the power cable (red) to the vessel's battery through the fuse to prevent short circuits.
- Use only the installation parts provided. Using other mounting methods may void the warranty.
- Before use, the amplifier must be fully mounted and secured in the vessel. All wiring should be properly insulated and fastened. Failure to do so may cause damage.
- Observe the safety and operating instructions of the devices which are connected to this product.
- **Do not** use any harsh or abrasive cleaning agents. To clean the product, use a dry, lint-free cloth, or if needed, a mild cleaner such as glass cleaner.

Battery Safety and Storage Instructions

- This product contains a lithium-ion battery. Ensure safety and avoid damaging it. Do not puncture, crush, expose to fire, or use at extreme temperatures — above 176°F (80°C) or below -40°F (-40°C). Use only as intended.
- This product contains a lithium-ion battery. To ensure long life in a long-term storage environment store the amplifier between 32°F - 104°F (0°C - 40°C).

Protect Our Environment

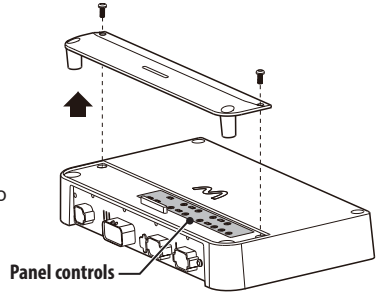
Do not dispose of the product or battery with normal household waste. Do not incinerate. Follow local regulations for electronic and battery disposal to help protect the environment.

Access Panel Controls

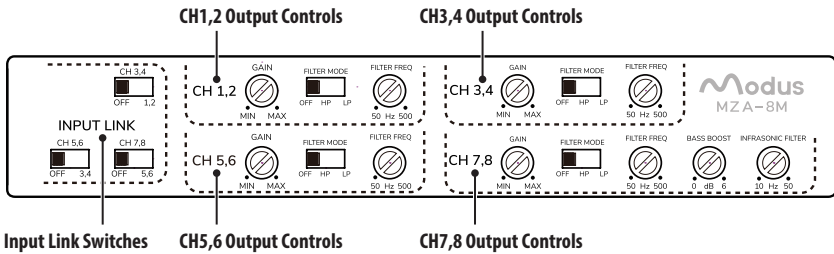
The controls are located on the top panel and hidden under a screwed cover. To access the controls, you need to unscrew and remove the cover.

With the aid of the supplied T10 Torx bit, loosen the two Torx screws (PA3 x 6mm, T10) as illustrated, then take the cover off to access the controls. (The amplifier mounting screws will need to be removed to access the panel controls).

Replace the cover using the two PA3 T10 Torx screws.



Panel Controls



Speaker Output Controls (Channels 1–8)

GAIN Control

Adjust the input sensitivity for each pair of channels. Set the GAIN control so the amplifier reaches full power just as the signal from your source unit starts to clip.

Important: Do not set the gain higher than necessary. Excessive gain increases distortion and can damage speakers.

FILTER MODE Switch

Select the type of crossover filter applied to the channel.

- When setting to **HP** (High Pass), only frequencies above the FILTER FREQ setting are sent to the speakers. Use for midrange or high-frequency drivers.
- When setting to **LP** (Low Pass), only frequencies below the FILTER FREQ setting are sent to the speakers. Use for subwoofers or woofers.
- When setting to **OFF** (Full Range), no filtering is applied; the speakers receive the full audio spectrum.

FILTER FREQ Control

Set the crossover frequency (50-500 Hz).

- When **FILTER MODE** is set to **HP**, speakers reproduce only frequencies above the selected value.
- When **FILTER MODE** is set to **LP**, speakers reproduce only frequencies below the selected value.
- When **FILTER MODE** is set to **OFF**, This control has no effect (full-range signal is passed).

BASS BOOST Control

Increase the output level of low bass frequencies on Channel 7 and 8 only, with a wide Q=1 50Hz EQ. Use sparingly – excessive boost can cause distortion and may damage the subwoofer.

INFRASONIC FILTER Control

Remove extremely low frequencies (10-50 Hz) that may be below your subwoofer's capabilities. This protects the subwoofer and improves overall clarity. Turn clockwise to lower the cutoff frequency (more filtering) or counter-clockwise to raise it (less filtering).

Input Link Switches

Use the three input switches to generate 8-channel output from eight or fewer inputs on your source unit.

CH 3, 4 Switch

When setting to **OFF**, output channels 3 and 4 are fed from input channels 3 and 4; when setting to the **1, 2** position, output channels 3 and 4 are fed from input channels 1 and 2.

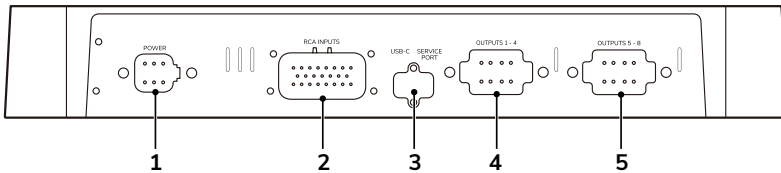
CH 5, 6 Switch

When setting to **OFF**, output channels 5 and 6 are fed from input channels 5 and 6; when setting to the **3, 4** position, output channels 5 and 6 are fed from input channels 3 and 4.

CH 7, 8 Switch

When setting to **OFF**, output channels 7 and 8 are fed from input channels 7 and 8; when setting to the **5, 6** position, output channels 7 and 8 are fed from input channels 5 and 6. For application, see the section "Signal Input Wiring" on page 9.

Panel Connectors



1 POWER Harness Connector

Connect to the supplied power wiring harness.

2 RCA INPUTS Harness Connector

Connect to the supplied 8-channel RCA input wiring harness. The RCA wiring harness has a blue "REM" wire for connection to the remote output wire from the source unit.

3 USB-C/ SERVICE PORT Connectors

- USB-C port marked "USB-C": Connect a computer for DSP audio tuning only.
- USB-C port marked "SERVICE": Connect to a USB flash drive for firmware updates and OTG (On The Go) DSP tuning only (see page 15 for DSP presets creation).

4 Speaker Outputs Harness Connector (CH1-4)

Connect to the supplied CH1-4 output wiring harness.

5 Speaker Outputs Harness Connector (CH5-8)

Connect to the supplied CH5-8 output wiring harness.

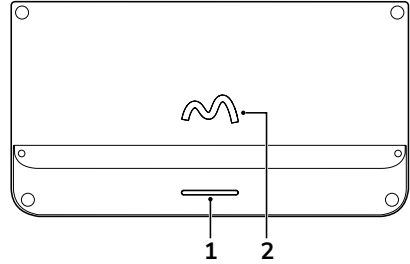
LED Indication

1 Status LED

Indicates whether the unit is operating normally or has an error.

2 Modus Logo LED

Illuminates light blue when the unit is powered on.



Status LED Indication

Normal operation

Green light: Operational, power efficiency >100%.

Blue light: Operational, power efficiency <100%.

Error indication

Yellow light steady: Amplifier temperature too high.

Yellow light flashing: Vessel battery too low (below 9V).

Purple light flashing: Vessel battery too high (above 58V).

Purple light steady: Internal battery voltage too low.

Red light flashing: Amplifier overload, speaker shorted or impedance too low.

Note: When the status LED shows an error indication, the amplifier will be put in the protection mode (or not operational). Check the LED color indication to determine what has caused the protection mode to trigger.

Amplifier Setup Procedure

1. Secure the amplifier in your vessel. See the section “Mounting” on page 7.
2. Disconnect the negative terminal on the battery to prevent a short circuit.
3. Connect audio inputs. See the section “Signal Input Wiring” on page 8.
4. Connect audio outputs. See the section “Speaker Output Wiring” on page 10.
5. Connect to power supply. See the section “Power Connection” on page 11.
6. Recheck all wirings to ensure correct and secure power/input/output connections.
7. Set all input gain controls (**GAIN**) to the minimum position, and set all filter controls (**FILTER FREQ**) to the desired frequency points.
8. Reconnect the negative battery terminal.
9. Turn on the source unit, and the amplifier will turn on automatically.
10. Set the source unit to its Maximum Unclipped Level. Then adjust the amplifier’s input gain control (**GAIN**) to match the source unit’s output signal. It’s best to use a distortion detector or other measurement tool to properly adjust the gain control (**GAIN**).
11. If necessary, fine-tune the controls to achieve the best results.

Important notes on input gain control

- The input gain control (**GAIN**) is designed only to match the amplifier's input level to the output level of your source unit. It is not a volume control!
- Never adjust the input level to maximum unless your input level requires it.
- Failure to note these instructions will result in an input overload to the amplifier and excessive audio distortion. It can also trigger protection mode, or may cause damage to the amplifier or your speakers.

Mounting

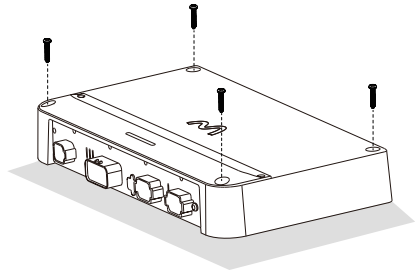


See the section "Installation Precautions" on page 3.

Before you drill or cut any holes, investigate your vessel's layout very carefully. Take special care when you work near the gas tank, fuel lines, hydraulic lines and electrical wiring.

Mount the amplifier in the location away from moisture, and where connection cables are not pinched or damaged by sharp objects.

1. Find a suitable location in the vessel to mount the amplifier. Make sure there is sufficient air circulation around the intended mounting location.
2. Secure the amplifier with the four supplied Torx screws (PA6.3 x 60mm, T30):
 - a. Use the four screw holes on the amplifier to mark the mounting holes on the mounting surface.
 - b. Drill the mounting holes in the mounting surface.
 - c. Place the amplifier in position, and fix the amplifier on the mounting surface using the four supplied Torx screws. Secure the screws with the aid of the supplied T30 Torx bit.



Horizontal Positioning

If installing the amplifier in a confined space, leave at least four inches of clearance around it for ventilation.

Vertical Positioning

The amplifier should be mounted vertically with the connectors facing downward for weatherproof. Ensure the mounting surface is strong and solid enough to support the amplifier's weight. Improper mounting may cause accidents, injury, or damage.

Wiring



See the section “Installation Precautions” on page 3.

For safety, disconnect the negative terminal of the vessel battery prior to wiring.

Use only high quality cables for reliable installation to minimize signal or power loss.

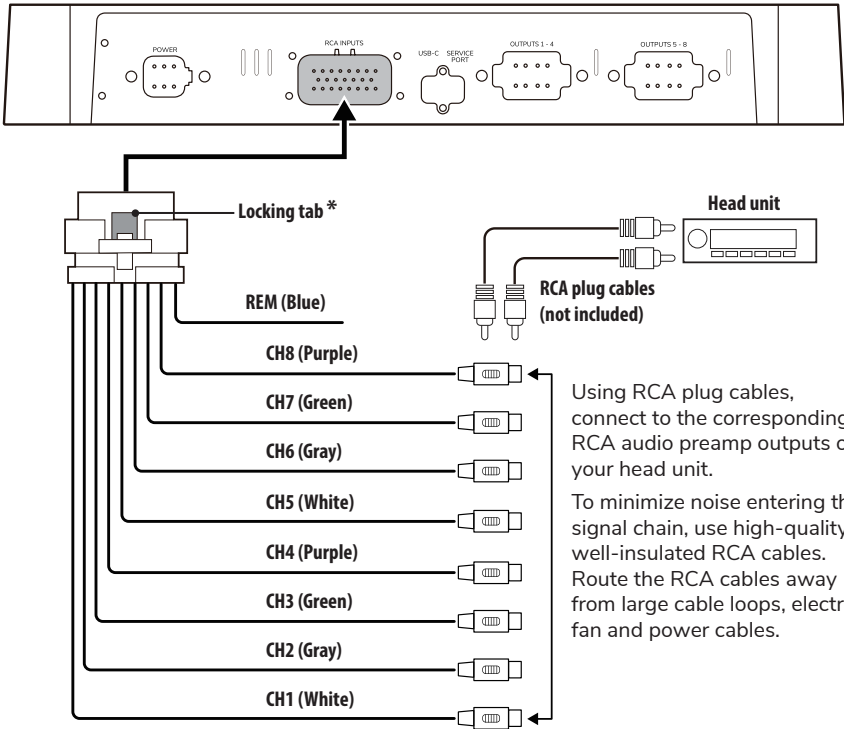
Make sure cables are not squeezed or damaged by sharp edges. Use rubber bushings for penetrations.

Make sure all the cables are securely connected and bare wires are properly insulated.

Reconnect the negative battery terminal only after all cable connections are correctly and securely made.

Signal Input Wiring

The amplifier features 8-channel RCA jacks to accept preamp line level input from your head unit. The RCA input offers great input flexibility and provides an exceptional clean sound from the head unit.



* To disconnect the wire harness from the connection, push up the locking tab on the wire harness, then pull out the wire harness.

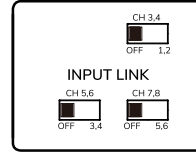
8 Inputs to 8 Outputs

If your head unit has 8 RCA pre-amp outputs, apply the following setup.

1. Connect the 8 RCA outputs on your head unit to the 8 RCA inputs on the amplifier according to the numbered channels.

2. Set all three Input Link Switches to the **OFF** position.

The amplifier will output in eight channels from eight inputs.



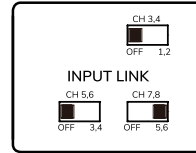
6 Inputs to 8 Outputs

If your head unit has 6 RCA pre-amp outputs, apply the following setup.

1. Connect the 6 RCA outputs on your head unit to CH 1 - 6 inputs on the amplifier according to the numbered channels.

2. Set CH 3, 4 switch and CH 5, 6 switch to the **OFF** position, and set CH 7, 8 switch to the **5, 6** position.

The amplifier will output in eight channels from six inputs.



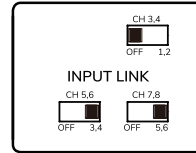
4 Inputs to 8 Outputs

If your head unit has 4 RCA pre-amp outputs, apply the following setup.

1. Connect the 4 RCA outputs on your head unit to CH 1 - 4 inputs on the amplifier according to the numbered channels.

2. Set CH 3, 4 switch to the **OFF** position, and set CH 5, 6 switch to the **3, 4** position, and CH 7, 8 switch the **5, 6** position.

The amplifier will output in eight channels from four inputs.



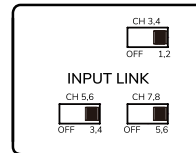
2 Inputs to 8 Outputs

If your head unit has 2 RCA pre-amp outputs, apply the following setup.

1. Connect the 2 RCA outputs on your head unit to CH 1 - 2 inputs on the amplifier according to the numbered channels.

2. Set CH 3, 4 switch to the **1, 2** position, CH 5, 6 switch to the **3, 4** position, and CH 7, 8 switch to the **5, 6** position.

The amplifier will output in eight channels from two inputs.



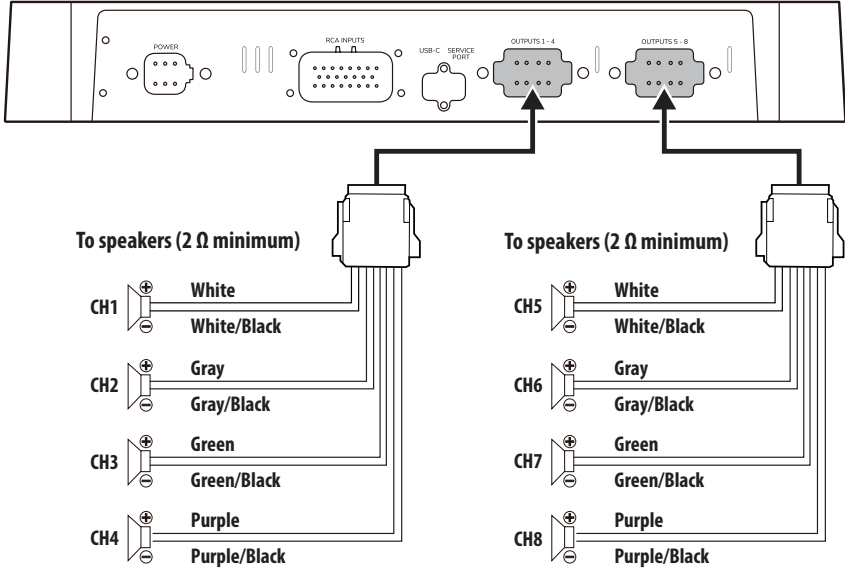
Speaker Output Wiring

Note: Do not connect speakers with an impedance lower than the one specified in the illustration below.

Use 12 AWG (or heavier) wires if extending the speaker wires.

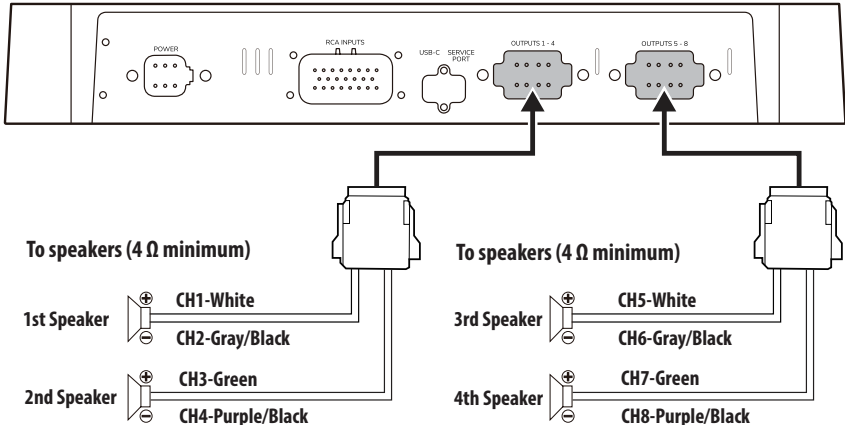
Observe speaker polarity. Make sure the speaker wires are securely and properly insulated.

8-Channel Output

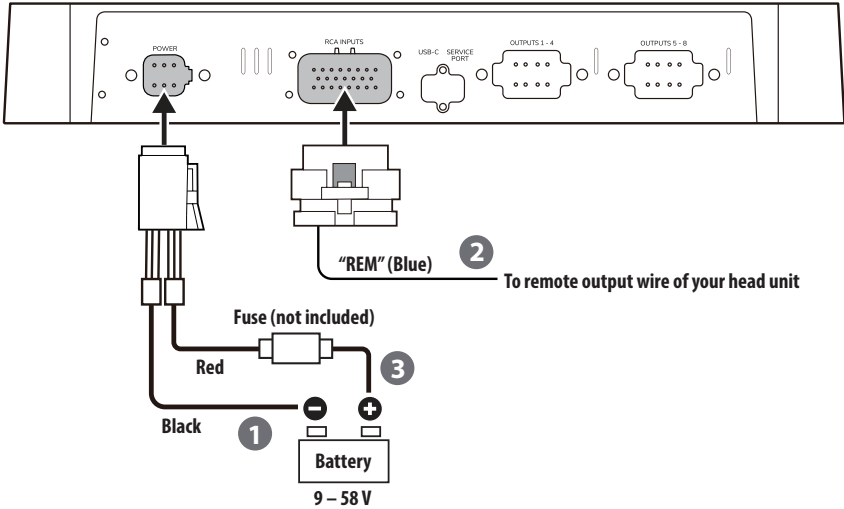


Bridged Output

You can bridge channels to create a single channel with twice the power.



Power Connection



1 Connect the black ground cable of the supplied power harness to the negative terminal of the battery.

2 Connect the blue wire (labeled "REM") of the supplied RCA input harness to the remote output wire of your head unit.

The remote connection is used for power control, so that the amplifier can automatically turn on or off every time the head unit is turned on or off.

Use 20 AWG (or heavier) wire if extending the remote connection wire.

If your head unit does not have the remote turn-on wire, connect the "REM" wire to the accessory power of your vessel. Ensure your head unit also turns on and off with the ignition to prevent noise.

3 Connect the red power cable of the supplied power harness to the positive terminal of the battery.

Note: For short-circuit protection, properly fuse the power cable which is connected to the positive battery terminal. Keep the fuse within 18" (45 cm) of the vehicle battery.

Wire sizing requirements for extended power cables

Up to 20 feet wire runs (40 feet round trip power and ground)		Up to 50 feet wire runs (100 feet round trip power and ground)	
12V/40A	10 AWG (or heavier)	12V/40A	6 AWG (or heavier)
24V/20A	12 AWG (or heavier)	24V/20A	8 AWG (or heavier)
48V/10A	14 AWG (or heavier)	48V/10A	12 AWG (or heavier)

Audio Tuning

In addition to sound adjustment through the panel controls, you can fine tune audio through a computer with a DSP tool software.

Before You Start

1. Prepare a computer with Windows 7 or newer.
2. Download the DSP tool software on the computer.

Visit <https://support.modusglobal.com> to search for your product, then locate and download the DSP tuning software. Unzip the download and the unzipped file name shows "DSP Tool" with .exe extension.

3. Connect this amplifier to the computer using a USB-C cable (not included).

Using the supplied T8 Torx wrench, remove the cover on the side panel to access the USB-C ports. Connect the computer to the port labeled **USB-C** (Page 5), not the **SERVICE** port.

4. Launch the DSP tool software on the computer by doubling click on the downloaded "DSP Tool" file. The DSP tuning screen appears.

DSP Tuning Screen Description

The screenshot shows the DSP Tuning Tool interface. Callouts 1-3 point to the output channel selection (OUT1-OUT8) and input channel selection (Input 1-Input 8) controls. Callout 4 points to the main volume control. Callout 5 points to the 'Not Connect' status. Callout 6 points to the 'Main Volume' slider. Callout 7 points to the 'Panel switch' button. Callout 8 points to the 'System' button. Callout 9 points to the 'Input Gain' button. Callout 10 points to the frequency response graph. Callout 11 points to the parametric EQ table. Callout 12 points to the crossover filter settings.

Bypass	Q	Gain	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2.201	2.201	2.201	2.201	2.201	2.201	2.201	2.201	2.201	2.201	2.201	2.201	2.201	2.201	2.201	2.201	2.201	2.201
-6.0	-5.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

High-Pass Filter	Freq	Slope	Type
High-Pass Filter	200Hz	12dB/Oct	Bessel
Low-Pass Filter	Freq	Slope	Type
Low-Pass Filter	900Hz	12dB/Oct	Bessel

Labels for EQ and Crossover Visualizer Pane:

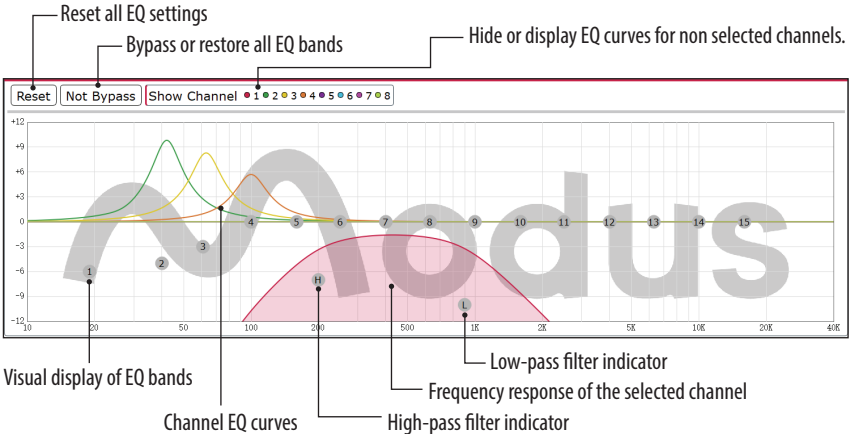
- Crossover Pane
- Parametric EQ Pane
- EQ and Crossover Visualizer Pane

- 1 **Channel Volume:** Adjust channel volume or mute.
- 2 **Input Channel Selection:** Select an audio input to drive the channel.
- 3 **Output Channel Selection:** Select an output channel to be modified by DSP Tool.

- 4 **DSP Toolbar:** Save and load presets, factory reset and firmware update menu.
- 5 **Polarity Switch (0° or 180°) for each channel:** Invert the polarity of the signal to sync timing between channels. Switch the phase until you find optimal sound.
- 6 **Connection Window:** Display the model name of the amplifier connected to the DSP Tool.
- 7 **Time Alignment:** Allow sound from multiple speakers to arrive at the listener's ears simultaneously.
- 8 **Main Volume:** Adjust volume for all active channels.
- 9 **Device List:** Display all supported amplifier model numbers.
- 10 **Panel Switch:** Switches between the amplifier controls and computer DSP Tool software adjustments (Switching to the amplifier controls will delete all DSP Tool Settings). See Page 4-5 for the description of the top panel controls.
- 11 **System Settings:** Access noise gate, bass boost and infrasonic filter adjustment menu. See Page 5 for details on the bass boost and infrasonic filter.
- 12 **Input Gain:** Adjust channel input gains to match the inputs to the output level of your source unit. See Page 7 for input gain notes.

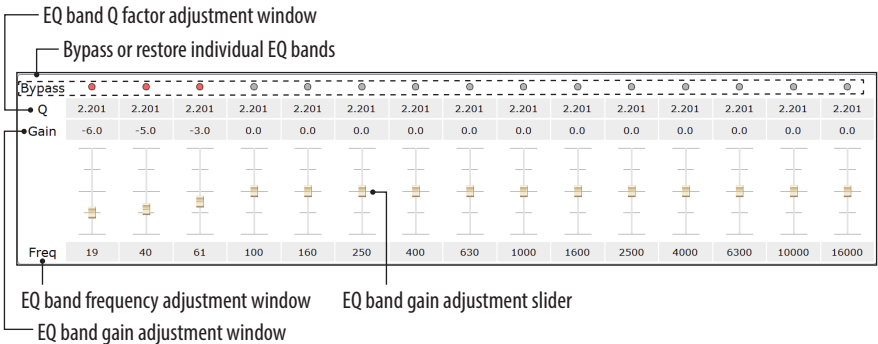
EQ and Crossover Visualizer Pane

The graphic display allows for visual analysis and real-time adjustments with greater accuracy.



- Each output channel has an individual color to indicate its EQ curve and frequency range.
- Move a numbered spot horizontally to adjust EQ band frequencies, and move a numbered spot vertically to adjust EQ band gain.
- Move the "H" spot horizontally to adjust high pass filter frequencies, and move the "L" spot horizontally to adjust low pass filter frequencies.

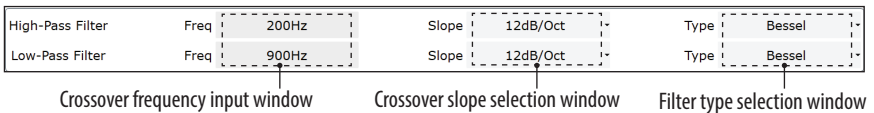
Parametric EQ Pane



EQ Gain controls how much of a specific frequency range is boosted or cut.

Q factor controls the bandwidth, or width, of the frequency range affected by a boost or cut.

Crossover Pane



High-Pass Filter: Only frequencies above the filter frequency setting are sent to the speakers. Use for midrange or high-frequency drivers.

Low-Pass Filter: Only frequencies below the filter frequency setting are sent to the speakers. Use for subwoofers or woofers.

Slope: The rate at which an audio signal is attenuated (faded out) by a crossover filter as it moves away from the designated crossover frequency, measured in decibels (dB) per octave.

Filter types (Bessel, Butterworth and Linkwitz): Bessel prioritizes linear phase for best transient response but has gentler slopes; Butterworth offers a maximally flat passband but peaks at crossover; and Linkwitz-Riley provides a flat summed response with zero gain at crossover, ideal for seamless speaker blending.

Equalizer (EQ) Adjustment

EQ is used to adjust sound frequencies for a clean and balanced output. For example, you can boost the output of the bass frequencies for loud bass and cut the output of high frequencies for softer treble sound.

Step 1: Select the output channel you want to adjust, then choose a frequency.

Move a numbered spot horizontally on the graph to select a specific frequency. Or enter the frequency in the frequency adjustment window of the Parametric EQ Pane.

Step 2: Adjust output gain for the selected frequency.

Move a numbered spot vertically on the graph to boost or cut the output. Or use the sliders or gain window in the Parametric EQ Pane for gain adjustment.

Step 3: Adjust Q factor for the selected frequency (if needed).

Enter a value in the Q factor window of the Parametric EQ Pane. Q factor (bandwidth), determines the range of frequencies affected by the EQ.

Crossover Adjustment

A crossover, or filter, divides the full frequency range into separate bands and directs these bands to different drivers for sound reproduction (e.g. low, mid or high frequencies).

Step 1: Select the output channel you want to adjust, then select a crossover slope.

Select a slope from the slope selection window of the Crossover Pane.

Step 2: Select a crossover frequency for high pass or low pass filter.

Move the “H” spot or “L” spot horizontally on the graph to select a high pass or low pass frequency. Or enter a frequency in the frequency input window of the Crossover Pane.

Step 3: Select a filter type (if needed).

Select a filter from the filter type selection window of the Crossover Pane, Bessel, Butterworth and Linkwitz.

Save Presets

You can save all customized settings via this DSP tool on your computer for later use. Click “**M**” icon on the top left corner of the DSP tuning screen to access “**Save Preset**” option. Follow on-screen instructions and save the DSP preset file to a folder on your computer. The DSP tool automatically create a file name with “aqss” extension.

Load Presets

The DSP tool allows you to retrieve the previously saved DSP preset file from your computer and apply it to your connected amplifier. Click “**M**” icon on the top left corner of the DSP tuning screen to access “**Load Preset**” option.

You can also load a saved DSP preset file onto a USB flash drive and connect it to the USB-C port marked SERVICE on the amplifier’s side panel. The DSP preset file will automatically be applied when connected.

Note: The controls on the amplifier will be disabled if the “Panel Switch” (located at the top of the DSP tool screen) is set disabled when saving the DSP preset file. All DSP tool presets will be deleted if the “Panel Switch” is activated.

Reset Amplifier to Factory Settings

To clear your customized DSP settings applied to the amplifier, Click “**M**” icon on the top left corner of the DSP tuning screen to access “**Restore Factory Settings**” option. Make sure your amplifier is connected to the computer.

Update Amplifier

We continually try to improve our product. Visit the product page on our website (www.modusglobal.com) to see if there is an update available. You can download the update file on your computer, and update the amplifier through the DSP tool. Click “**M**” icon on the top left corner of the DSP tuning screen to access “**Firmware update**” option. Make sure your amplifier is connected to the computer.

Troubleshooting

Need assistance? Before reaching out to our support team, try these quick solutions. If your Modus system still isn't performing to your expectations, our in-house support team is ready to help you get back to creating perfect moments. We're here when you need us.

Problem	Solution
No power (M logo not lit).	Check that the power cable connections are securely and properly made (e.g. secure ground connection).
	Check that the blue wire (labeled "REM") is connected.
	Check external fuse and replace if blown.
	The built-in fuse has blown. Send the amplifier to our customer service for repair. Never attempt to open the amplifier yourself.
Status LED flashes red.	Reset the amplifier by turning it off and on again.
	Check that speaker impedance is 2 ohms or above for stereo use or 4 ohms and above for bridged use.
	Check for damaged or shorted speaker or speaker wire.
No sound.	Check that RCA audio input connection is correct and secure.
Low output.	Input gain level is too low. Reset the input level control.
	Check the frequency filter settings.
Distorted sound.	Check that the input gain control is set to match the output level from your source unit. Always try to set the input gain level as low as possible.
	Check that the frequency filter is set correctly.
	Check for short circuits on the speaker wires, or broken wires.
Hissing sound.	Try to set the source unit volume as high as possible (without distortion) and set the input gain level on the amplifier as low as possible.
Engine noise (static type).	This is usually caused by poor quality RCA cables, which can pick up radiated noise. Use only high quality RCA cables and route them away from the power cables, large wire loops and electric fan.
Engine noise (alternator whine).	Check that the amplifier is properly grounded to the negative battery terminal (-).
	Check that your source unit is properly grounded.
Amplifier gets very hot.	Check the minimum speaker impedance for the amplifier is correct.
	Check that there is good air circulation around the amplifier. In some applications, it may be necessary to add an external cooling fan.
Panel controls is disabled.	"Panel Switch" located at the top of the DSP tool screen is set disabled. Set "Panel Switch" activated if needed (Page 12).

Specifications

Audio

RMS output power.....	200W x 8 @ 2Ω 125W x 8 @ 4Ω 400W x 4 @ 4Ω bridged
Min. speaker impedance.....	2Ω stereo, or 4Ω bridged
Total harmonic distortion (THD).....	<0.05%
Frequency response	10Hz – 22kHz
Signal-to-noise ratio.....	>100dB
Channel separation.....	>50dB
Low pass filter (LPF).....	50 – 500Hz
High pass filter (HPF).....	50 – 500Hz
Infrasonic filter.....	10 to 50Hz (for CH7 & CH8 only)
Bass boost.....	0 to 6dB (for CH7 & CH8 only)

General

Power supply.....	9 – 58 VDC
Current consumption (Max)	26A @12V, 13A @24V, 6.5A @48V
Built in battery.....	21.6V, 8000mAh, 173Wh, Lithium-ion battery
Protection circuitry.....	Overload, short circuit, thermal, low and high voltage protection
Input gain control	350mV – 5V variable
Ingress protection.....	Weatherproof (when mounted vertically with connectors facing downward)
Operational temperature.....	-4 to 158°F (-20 to 70°C)
Long term storage temperature.....	32 to 104°F (0 to 40°C)
Dimensions (W x H x D)	15" x 2.45" x 8.3" (381 x 62 x 210 mm)
Weight.....	15.59 lbs (7.07 kg)

Specifications are subject to change without notice.

USER MANUAL

Modus

www.modusglobal.com

Customer Service 805-790-7383

Tech Support: <https://support.modusglobal.com>



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V:A