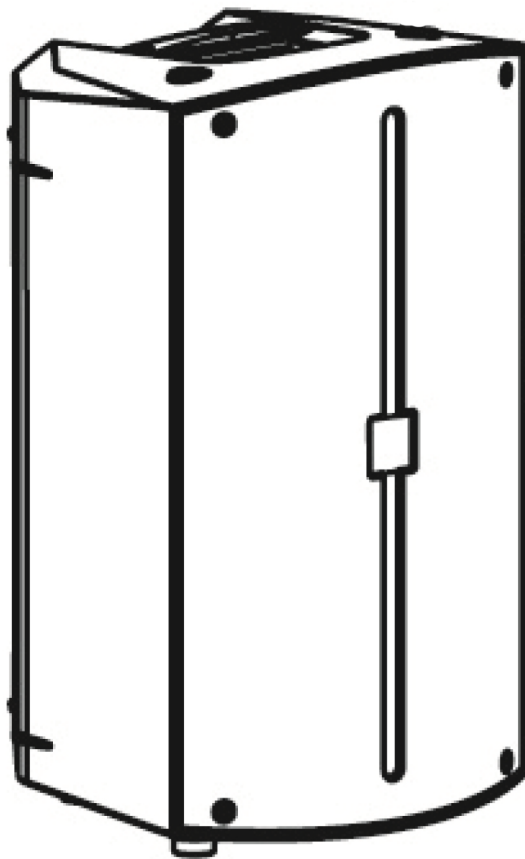# MORGAN

MRX 12 A

2 Way Bi-Amp Active Speaker

Explanation of Graphical Symbols

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION	VORSICHT
BEFORE OPENING PULL MAIN PLUG	VOR DEM OFFNEN NETZSTECKER ZIEHEN

CAUTION: TO REDUCE THE RISK OF FIRE REPLACE WITH ONLY SAME TYPE AND RATING OF FUSE

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRICS DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

1 Read these instructions.
2 Keep these instructions.
3 Heed all warnings.
4 Follow all instructions.
5 Do not use this apparatus near water.
6 Clean only with dry cloth.
7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11 Only use attachments/accessories specified by the manufacturer.
12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13 Unplug this apparatus during lightning storms or when unused for long periods of time.
14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING
Please keep this manual in a safe place for future reference.

⚠ WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Power supply/Power cord

•Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device.

•Use only the included power cord.

•Do not place the power cord near heat sources such as heaters or radiators, do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or rollanything over it.

Do not open

•Do not open the device or attempt to disassemble the internal parts or modify them in any way. The device contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified service personnel.

•Do not open the device or attempt to disassemble the internal parts or modify them in any way. The device contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified service personnel.

Water warning

•Do not expose the device to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.

•Never insert or remove an electric plug with wet hands.

If you notice any abnormality

•If the power cord or plug becomes frayed or damaged, there is a sudden loss of sound during use of the device, or any unusual smells or smoke should appear, turn off the power switch, disconnect the electric plug from the outlet immediately, and have the device inspected by qualified service personnel.

•If this device is dropped or damaged, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified service personnel.

⚠ WARNING

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:

Power supply/Power cord

•Remove the electric plug from the outlet when the devices is not to be used for extend periods of time, or during electrical storms.

When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.

Location

When transporting or moving the device, always use two or more people. Attempting to lift the device by yourself may damage your back, result in other injury, or cause damage to the device itself.

Before moving the device, remove all connected cables.

When setting up the device, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet.

Do not use the device in a confined, poorly ventilated location. Make sure that there is adequate space between the mixer and surrounding walls or other devices: at least 1' ft. at the side, 1' ft. behind and 1' ft. above. If the mixer is to be used installed into the speaker cabinet, make sure to allow adequate space between the speaker and the surrounding walls or other devices: at least 1' ft. at the sides, 1' ft. behind and 1' ft. above. Inadequate ventilation can result in overheating, possibly causing damage to the device(s), or even fire.

Do not use the speaker's handles for suspended installation. Doing so could result in damage or personal injury.

Avoid setting all equalizer controls and faders to their maximum. Depending on the condition of the connected devices, doing so may cause feedback and may damage the speakers.

Do not expose the device to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.

Do not place the device in an unstable position where it might accidentally fall over.

Do not block the vents. This mixer has ventilation holes at the top to prevent the internal temperature from becoming too high. In particular, do not place the device on its side or upside down. Inadequate ventilation can result in overheating, possibly causing damage to the device(s), or even fire.

Do not use the device in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Doing so may result in noise, both in the device itself and in the TV or radio next to it.

Connections

•Before connecting the device to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.

For the SPEAKERS jacks, Use only the included speakers and speakers cables. Use of other types of speakers and cables may result in damage to the device(s), or even fire.

Handling Precautions

When turning on the AC power in your audio system, always turn on the device LAST, to avoid speaker damage. When turning the power off, the device should be turned off FIRST for the same reason.

Do not insert your fingers or hands in any gaps or openings on the device (vents, ports, etc.).

Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings on the device (vents, ports, etc.). If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified service personnel.

Do not use the device for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician immediately.

Do not operate the device if the sound is distorting. Prolonged use in this condition could cause overheating and result in fire.

Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors.

Protective Circuit (poly switch)

All full-range loudspeakers are fitted with a self-resetting poly switch that protects the high-frequency driver from damage caused by excessive power. If a loudspeaker cabinet loses high-frequency output, immediately remove power from the unit and wait for two to three minutes. This should be long enough to allow the poly switch to reset. Reapply power and check the performance of the high frequency driver before continuing, with the power reduced to a level that does not cause the poly switch to interrupt the signal.

Interference From Cell Phone

Using a cell phone near the speaker system can induce noise. If this occurs, move the cell phone further away from the speaker system. Air blowing out of the bass reflex ports is normal, and often occurs when the speaker is handing program material with heavy bass content.

> The manufacturer will not be responsible for damage caused by improper use or modification to the device.

Always turn the power off when the device is not in use. The performance of components with moving contacts, such as switches, volume controls, and connectors, deteriorates over time. Consult qualified service personnel about replacing defective parts.

Dimensions

MRX 12 A

Dimensions: 628.5*365*355mm
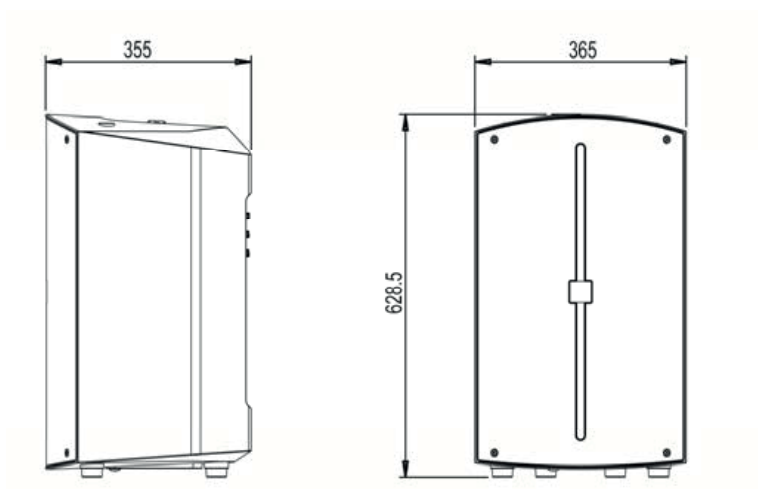
Specifications

	MRX 12A
Inputs	XLR/TRS LINE/MIC input
Outputs	MIX output
Power output	350W (LF)+50W (HF) RMS
Volume	main volume control
Power input	115V / 230V ~50/60 Hz
Features	class D for LF, class AB for HF
	LCD screen and multiple DSP (Digital Signal Processing)
	LED power / clip indicator
Type	2 way Bi-amped vented design
Frequency	60-20K Hz
Max output spl	123dB (at max amp output)
Impedance	4ohm
Driver	1.35 inch CD (TW34PD)
	12'' woofer (FT12WF) 2.5''VC
Cabinet	H-PP molded cabinet
Flypoints	2 top , 1 back
Grill	1.2mm steel
Pole	35mm stand pole
Features	1 top handle, 1 side handle
	used for stage monitor
MEAS / G.W.	44.5*43.5*68CM/1PC/18.6KG
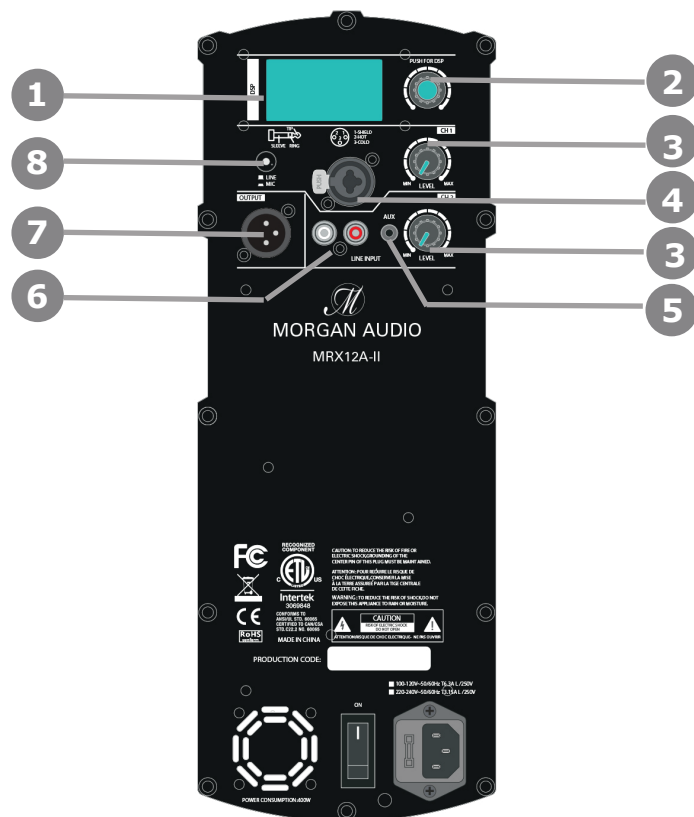
MRX 12A

MRX 12A
CONTROLS AND FUNCTIONS:

1. LCD DISPLAY
The display shows the current DSP status (current preset, digital signal attenuation, input level) and it is used to access the DSP parameters.

2. DSP EDIT Encoder / Button
Push and turn this knob to edit the DSP parameters. Pressing this button
while switching on the loudspeaker will force a DSP RESET and recall the factory default setting.

3. CH1/CH2 LEVEL
This potentiometer sets the level of the respective channel input.

4. CH1 IN
This is a female combo connector that accepts a XLR or a JACK plug from any dynamic balanced or
unbalanced microphone or line signal. The XLR input is wired as follows:
Pin 1 = shield or ground
Pin 2 = + positive or "hot"
Pin 3 = - negative or "cold"
The balanced JACK input is wired as follows:
Tip = + positive or "hot"
Ring = - negative or "cold"
Sleeve = shield or ground
The unbalanced JACK input is wired as follows:
Tip = + positive or "hot"
Sleeve = shield or ground

5. CH2 LINE IN（MINI JACK）
This is a MINI JACK (3.5mm) female connector that accepts a STEREO MINI JACK plug from Computer /
CD / DVD / MP3 players. The MINI JACK is wired as follows:
Tip = positive signal of left channel
Ring = positive signal of right channel
Sleeve = shield or ground
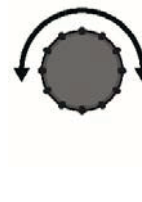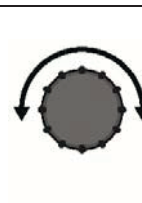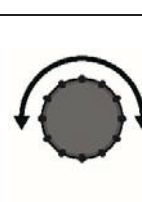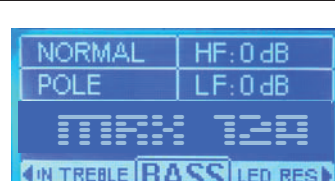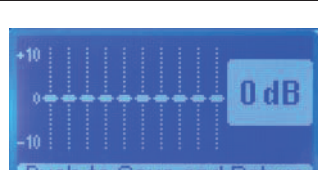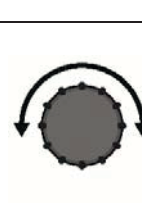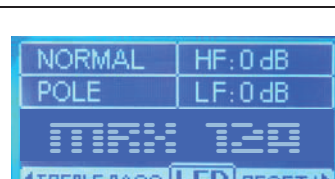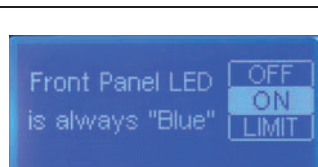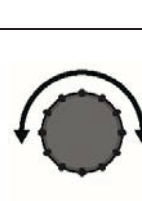
DSP OPERATION

MRX 12A

ON |	MRX 12A	MRX 12A	NORMAL / HF: 0 dB / POLE / LF: 0 dB / MRX 12A / MODE LOCATION TREBLE B ▶	

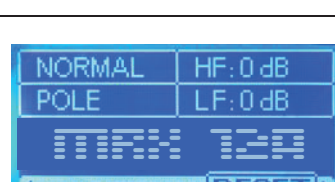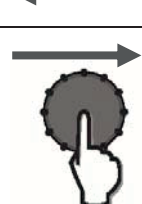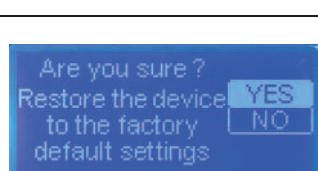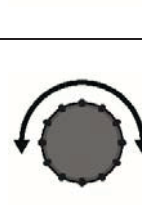|				
	NORMAL HF: 0 dB / POLE LF: 0 dB / MRX 12A / MODE LOCATION TREBLE B ▶	→ ←	+10 / 0 / -10 / Normal Live Club Speech / Push to Save and Return	↻	**Normal Live Club Speech**
	NORMAL HF: 0 dB / POLE LF: 0 dB / MRX 12A / ◀E LOCATION TREBLE B. ▶	→ ←	Pole Monitor Bracket / Push to Save and Return	↻	**Pole Monitor Bracket**
	NORMAL HF: 0 dB / POLE LF: 0 dB / MRX 12A / ◀ITION TREBLE BASS LED▶	→ ←	+10 / 0 dB / -10 / Push to Save and Return	↻	**+10dB … -10dB**
↻	NORMAL HF: 0 dB / POLE LF: 0 dB / MRX 12A / ◀IN TREBLE BASS LED RES▶	→ ←	+10 / 0 dB / -10 / Push to Save and Return	↻	**+10dB … -10dB**
	NORMAL HF: 0 dB / POLE LF: 0 dB / MRX 12A / ◀TREBLE BASS LED RESET I▶	→ ←	Front Panel LED is always "Blue" / OFF ON LIMIT / Push to Save and Return	↻	**OFF ON LIMIT**
	NORMAL HF: 0 dB / POLE LF: 0 dB / MRX 12A / ◀TREBLE BASS LED RESET▶	→ ←	Are you sure? Restore the device to the factory default settings / YES NO / Push to Save and Return	↻	**YES NO**
	NORMAL HF: 0 dB / POLE LF: 0 dB / MRX 12A / ◀BLE BASS LED RESET INFO	→ ←	Push to Return		