

CARVIN
MX620/842

**THE CHOICE IN PORTABLE
RACKMOUNT MIXERS**

OWNER'S MANUAL

The MX620 and MX842 are Carvin's newly designed professional rack mount powered mixers. They are built to provide superior performance either as portable sound reinforcement for applications ranging from auditoriums to night clubs, or for multi-keyboard applications.

The MX620 offers 6 channels with the capacity to handle both instruments and mics with ease. A powerful 200 watt MOSFET amp delivers crystal clean output at rock volume levels (making it ideal for small clubs), all while powering up to four 8 ohm speaker systems.

The MX842 is available for advanced applications requiring more channels and stereo features. This 8 channel mixer has two 200 watt amps for a very powerful 400 watts rms total. Not only do you have the capacity for live stereo performances, but at the push of the button, you can convert one of the amplifiers to a separate stage monitor amp. Two stereo effects returns make this mixer ideal for keyboard applications as well.

* **Input Channel Features**

- * "Effects" send control for built in studio quality Reverb and outboard effects simultaneously.
- * Active Hi and Lo EQ tone controls for deep bass and crisp highs while maintaining a natural sounding midrange for vocals.
- * Independent Master and Monitor level controls for each channel.
- * -20dB pad switches allow hot line levels like keyboards or line mixers without input overloading.
- * Six 1/4" phone Line-In jacks - can be used simultaneously with XLR's (eight on MX842)
- * Six balanced XLR inputs for hum free performance (eight on MX842). High grade integrated circuits offer ultra low noise performance.
- * Built-in +48V phantom power supply for all condenser mics. (MX842 only).

* **System Master Features**

- * Master Reverb control for overall reverb effects. (reverb is automatically fed back into the monitor system).
- * Master "Effects Send" control to adjust the level going to your out-board effects processor (will drive more than one device).
- * Two Effects Returns controls to accept more than 1 effects back into the mixer (stereo returns on MX842).
- * Graphic Equalizer for master tone or feedback control (dual on MX842).

- * An additional "Tape or Aux." channel is available through the R & L tape phono input jacks. A separate "Tape" control sets the level for this channel (stereo on MX842).
- * Master Line output control (to feed separate levels to recorder or house PA - (stereo for MX842).

- * Monitor level control (main feed to monitor amp).
- * Main/Monitor feed switch (directs monitor output to power amp (directs only to one amp on MX842).
- * Master Volume control for power amp level setting (stereo for MX842).
- * **Power Amp Section**
- * 200 watts rms for MX620
- * 400 watts rms (200/200) for MX842
- * MOSFET design for improved sound quality and lower over all distortion.
- * Reserve power for high power applications.
- * Heavy-duty power supply allows up to four 8 ohm speakers to be driven on the MX620 and two 8 ohm speakers per channel (total of 4) on the MX842.

- * **Construction Features**
- * 19" rack mount chassis supported by heavy gauge steel panels.
- * All internal parts are of the highest quality for years of dependable service.
- * The power supply is fully regulated and equipped with switching for international 120/240 VAC power.

USING YOUR MIXER

Your new Carvin MX620/842 mixer is designed to provide you with years of trouble-free performance. Understanding the following rules concerning the use of your new mixer will help greatly in maintaining it's best performance and reliability.

1. The wires used for your speakers should be 16 AWG or heavier in order to retain the highest possible damping factor from the amp. NOTE: All speaker wires should be NON-SHIELDED, as shielded speaker wires can cause failure of the amp.
2. The high power output capability of the MX641's amplifier could damage almost any loudspeaker without proper protection. Therefore, EACH SPEAKER MUST BE FUSE PROTECTED. This will ensure the best possible protection for your speaker system. Please remember that fuse are not 100% fail safe. However, fuses do offer substantial protection and have received a strong reputation for speaker protection.
3. Periodic cleaning of your unit is highly recommended, as dirt and dust can effect the reliability of your mixer over time.
4. For your safety - NEVER DEFEAT THE THIRD PIN GROUND LUG ON THE A.C. RECEPTACLE. IF YOU USE A THREE TO TWO PRONG ADAPTOR, BE SURE THE GROUND LINE IS PROPERLY CONNECTED TO A 'GOOD' GROUND. This is essential for safety and performance from your mixer.
5. Be sure you are plugging the mixer into the proper A.C. voltage. Be sure the voltage is properly regulated. Both the MX620 and MX842 feature dual voltage capability 120V/220V switching. If the unit is going to be powered from a generator, be sure the generator has proper "electronic" voltage regulation and that the A.C. lines are free from voltage surges.
6. Whenever turning off external amplifiers such as monitor amplifiers connected to your MX620, follow this rule - LAST ON, FIRST OFF. This means you will turn on all associated preamp (mixers) and associated equipment prior to turning on the amp. When you are finished with a performance, the amplifier will be the first item shut down. Following this procedure will help eliminate pops and power surges that are annoying to audiences and potentially harmful to speakers.
7. Do NOT remove the mixer's cover at any time while the unit is plugged in or turned on. THERE ARE POTENTIALLY LETHAL VOLTAGES INSIDE THE UNIT.