

AWARD-SESSION

MM4 - MixMatch™ GUITAR MIXER/DIRECT BOX



If you have any of these problems...
you need a MixMatch Mixer/DI box?

- You have just one too few inputs on your PA mixer, but could do with even more.
- You have run out of Auxilliary Returns on you mixer.
- You need to plug four guitars into your amplifier that only has one input. Guitar teachers could benefit from this.
- Your PA's input impedance is not suitable for acoustic instruments and spoils the tone.
- Your guitar pickups are weak and could do with boosting!
- You'd like to give your guitar the tone of Humbucker pickups.
- You'd like to record direct from your guitar amplifier's FX Send, but the tone is tizzy and thin.
- You'd like to DI your guitar amp into the PA, but have the same tonal problems.
- You'd like to plug your guitar directly into your computers sound card, but find there is an impedance mismatch and the guitar tone is spoilt.

MixMatch MM4 is the only mixer in the world designed to work specifically with electric and electro-acoustic stringed instruments... but works equally as well with ANY other signal source.

Why? Well, unlike ordinary 'line' mixers, it has extra electronics (see Mega-Z) which enables PIEZO and MAGNETIC pickups to work properly. It's the extra electronics that makes it far better than the budget mixers found in high street stores. Like all Award-Session products, MM4 is made up to a quality... not down to a price.

At Last...

A Handy Professional Quality Low Noise Mono Mixer That Works With All Known Transducers & Pickups

MixMatch™

And No Need For Additional DI Boxes

FEATURES

Four Channels - Fully active with Mega-Z ultra high impedance inputs which removes the worries about impedance matching. The MM4 can work with any type of microphone, transducer or other signal sources from pre-amps, radios, CD players, etc. Originally developed for use with piezo and magnetic guitar or bass pickups, MM4 is the simple no-nonsense answer.

Mega-Z eliminates the tone and volume losses common with conventional mixers. As fitted to the popular Gordon Giltrap (GG10) preamp'.

Four Level Controls - Allows individual settings for each instrument or other signal source.

PAFtone™ - Selectable Humbucker Emulation built in to channel four. Can be used as a speaker simulator to DI your guitar amp' into the PA.

Master Output Level - Sets overall output level.

Output - Unbalanced, low impedance, with signal quality equal to an XLR output.

AC Adapter Powered Or Battery For Backup.

Low Current - For longer battery life.

AutoSense™ - Our unique DC power input which allows any AC adapter with a POSITIVE or NEGATIVE output of 9 to 30 volts DC to be used safely.

Heavy Duty Steel Case - To endure the hard life it might get.

Dimensions - Only 5.2" x 6.2" x 1.75" (13.3 x 15.8 cm).



Rear View

SPECIFICATIONS

Frequency Range: 20Hz to over 20 kHz +/- 3dB.

S/Noise Ratio: 90dB (ref'.0dBv).

Input Impedance: 10M ohms typical.

Output Impedance: 680 ohms typical.

Power Consumption: 6mA typical @ 9volts DC.

All Award-Session products are backed by a 100% money back guarantee

Call: 01256 477 222 For Technical Information

MM4 Operating Instructions

Unique Features

Mega-Z™ Input Circuit - MM4 has four input stages specially designed for PIEZO or MAGNETIC pickups. Piezo transducers need amplifiers with ultra high input impedances to enable their full range of frequencies to reach the amplifier. Ordinary PA amp's only have an input 'Z' (impedance) of around 50k ohms or less, and guitar amp's are only a little better at 1 meg ohms, use of which results in harsh mizzly tones. The same is true of most effects processors too, so you need an 'interface' like MM4 to correct this problem. MM4's Mega-Z inputs matches virtually any pickup type to any amplification system, providing a natural tonality.

PAFtone™ Humbucker Emulation - Award-Session have invested a great deal in developing the PAFtone™ circuitry. It means a whole new dimension for players of single coil pickup equipped guitars. Single coils have a great tone, but there are times when the tone is just too bright for jazz or standards. Unfortunately, turning the treble down using the guitar or amp' EQ controls just makes the pickups sound as if they are stuffed with cotton wool. PAFtone™ is ideal to remove the high frequencies that make your guitar sound thin without this effect. It comes into full strength from when a small amount of overdrive is being used, right up to 'battleskull bombastica' OTT distortion. It removes those nasty fizzy harmonics above 3kHz (often called the transistor sound) from the sustained tone. Words alone are unable to do justice to it's effect, but any experienced guitarist will instantly hear the benefit. Just connect your overdrive pedals between the guitar and MM4 to access this feature.

PAFtone could be used as a make-do speaker simulator, although the results are not as good as our G12T speaker simulation circuitry. Simply connect the line out of your guitar amp' to channel four of MM4, and MM4 output to a multitrack or the PA system.

AutoSense™ - Your battery has run down or your AC adapter has broken... what would you do? We understand human nature and suggest you would try any old AC adapter that might be to hand? If it's the wrong type your pedal could be killed! Not with Award-Session products. Our unique AutoSense™ circuitry enables you to use almost any AC adapter with either a POSITIVE or NEGATIVE output between 9 to 30 volts DC, WITHOUT ANY RISK OF HARM TO YOUR PEDAL.... AND IT WILL WORK PERFECTLY! Gig saved.

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Applications

Electric Guitarists - Convert your single input guitar amp' into one with four independantly adjustable channels. Ideal for band rehearsals through one amp'. Leave up to four guitars permanantly connected to your amp' for fast instrument changes. Use as a signal booster for weak pickups and get more overdrive/ distortion. Expand FX Loops or Aux' Returns. Perfect for bass guitars too.

Acoustic Instruments - MM4 is ideal for collectable acoustics fitted with a passive piezo transducer wired directly to an end pin jack. Magnetic pickups designed for acoustic instruments can be used in the same way as a piezo transducer with similar benefits.

Violins, violas, cellos, double basses, banjos, mandolins, bouzoukies, in fact almost any instrument fitted with a piezo or magnetic pickup system will work perfectly with MM4... because it has been designed to do just these jobs.

MIDI Bands - Need a sub-mixer on stage? It will perfectly perform all the usual mixing, pre-amp'ing jobs that conventional mixers are expected to do.

In The Studio - MM4 is the ideal solution for the mixer that has too few inputs or auxiliary returns. Great as a general purpose pre-amp for level boosting or attenuating, line driving or mic' pre-amping. Works with hi-fi, cassette decks, DAT's, CD players, tuners, effects... almost anything.

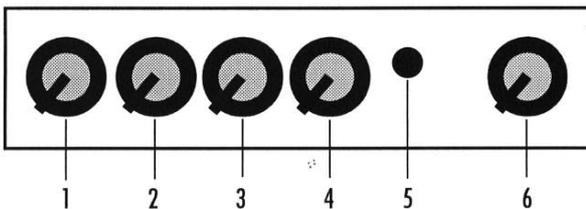
Specifications:

Frequency response: 20Hz to over 20kHz +/- 3dB.
Signal/Noise ratio: 90dB (ref. 0dBV) typical.
Input impedance: 10M ohms typical.
Output impedance: 680 ohms typical.
No. of amplifiers: 10.
Power: approx' 6mA @ 9VDC.

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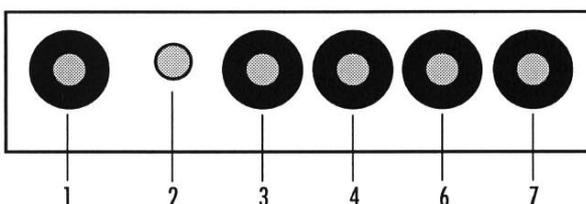
Front Panel Facilities

- 1-4. **CHANNEL LEVEL** - sets the volume level of each channel.
5. **PAF/NORM** - Turns on or off the built in PAFtone™ humbucker pickup emulation.
6. **MASTER** - Sets the overall output level whilst maintaining the mix of levels set by the CHANNEL LEVEL controls.



Rear Panel Facilities

1. **OUTPUT** - Lo-Z to drive long cables without tone/volume loss.
2. **POWER INPUT** - for connecting an external AC Adapter.
- 3-7 **INPUTS** - Ultra high impedance (Mega-Z) input circuitry to eliminate pickup loading and tone or volume losses. Use of any input will turn on the internal battery. MM4 is permanently ON when an AC adapter use used.



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General

Use Of Effects Pedals/Processors - Overdrive and wah pedals should be used between the guitar and MM4 when conventional electric guitars are used. It is best to try and connect chorus, echo, reverb or other time delay effects between the output of MM4 and the input of the guitar amplifier. Generally this produces a more pleasing sound. However, this is not a firm rule and you may prefer the results with all effects units between guitar and MM4.

When using input impedance sensitive pickup systems like piezos, always plug your instrument into MM4 first and then connect ALL other devices between MM4 and the amplifier system. Don't be afraid to experiment. If you like what you hear, use it! When you have a good sound... you naturally play well too!

AC Adapter Operation - We recommend that MM4 be run from ANY adapter giving a POSITIVE or NEGATIVE output between 9 and 30 volts DC. MM4 is equipped with AutoSense™ circuitry that senses the AC adapter output voltages and AUTOMATICALLY adjusts itself internally. NO HARM CAN BE DONE BY USE OF INCORRECT AC ADAPTERS, providing the above guidelines are adhered to. When an AC adapter is being used to power MM4, the unit is permanently ON.

Battery Operation - MM4 runs on a standard 9V Alkaline battery as a backup mode. The battery is turned on when ANY of the input sockets are used. Withdraw jacks from the inputs to conserve battery power.

THANKS FOR BUYING OUR PRODUCTS. WE REALLY DO APPRECIATE YOUR SUPPORT.

Stewart Ward
Designer.



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