



M/S Station

Advanced M/S tool



The M/S Station is a new mastering and main bus tool with four separate functions divided into two sections including an advanced cue function.

Section 1 is a parallel insert with M/S function allowing the user to use separate blend controls for the mid and side signals. For maximum precision the blend control(s) has 16 positions from dry to wet.

Section 2 consists of three parts, an elliptical EQ with 16 frequencies, a width control from 0-200% and an advanced cue function.

The two sections are normally linked internally but can be used separately with their own balanced inputs and outputs by removing four jumpers inside the unit (see unlink section 1 and 2). This way you can use them at different locations in your setup.



Parallel insert with M/S function:

With the insert section you can insert an external processor like an EQ, compressor, distortion unit etc, and then dial in a mix between the processed signal (wet) and the unprocessed signal (dry).

For maximum precision the blend control has 16 steps from dry to wet.

If you activate the M/S function your signal will be coded into mid (L+R) and side (L-R). The mid signal normally contains all the center info such as bass, kick drum, lead vocal etc and the side signal contains all the panned parts of the signal. In M/S you can process the mid signal and side signal separately with different types of processors and the blend controls is placed in front of the M/S encoder before it's decoded back to left and right signals.

With the blend split function you get separate blend controls for the mid and side signal.



Elliptical Equalizer:

With the elliptical EQ all frequencies below a selected frequency will be made to mono. This function can make your low end more focused. It's an old technique used when mastering for vinyl.

Too much low end in the side channel (vertical) can make the needle bounce slightly and cause distortion.

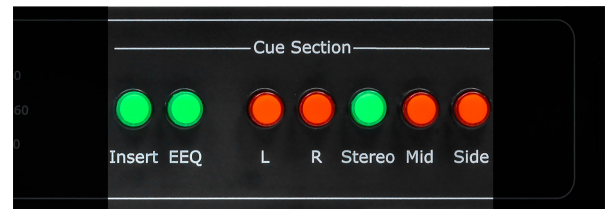
By using a 12dB high pass filter in the side channel you set the frequency under which the signal will be processed as mono. As a HPF introduces phase shift to the signal, a phase correction is added to the mid channel keeping channel separation as good as possible. The EEQ has 16 frequencies from 36Hz to 302Hz.

With the EEQ cue function you can monitor the signals that are mixed between the channels.



Stereo width control:

By adjusting the amount of side information in the stereo mix, the width can be adjusted incrementally from mono to extra wide. With this control you can fine adjust the stereo image after you have used the M/S insert and EEQ.



Cue function:

When powered on the Stereo cue is auto selected as this is the normal operation stage.

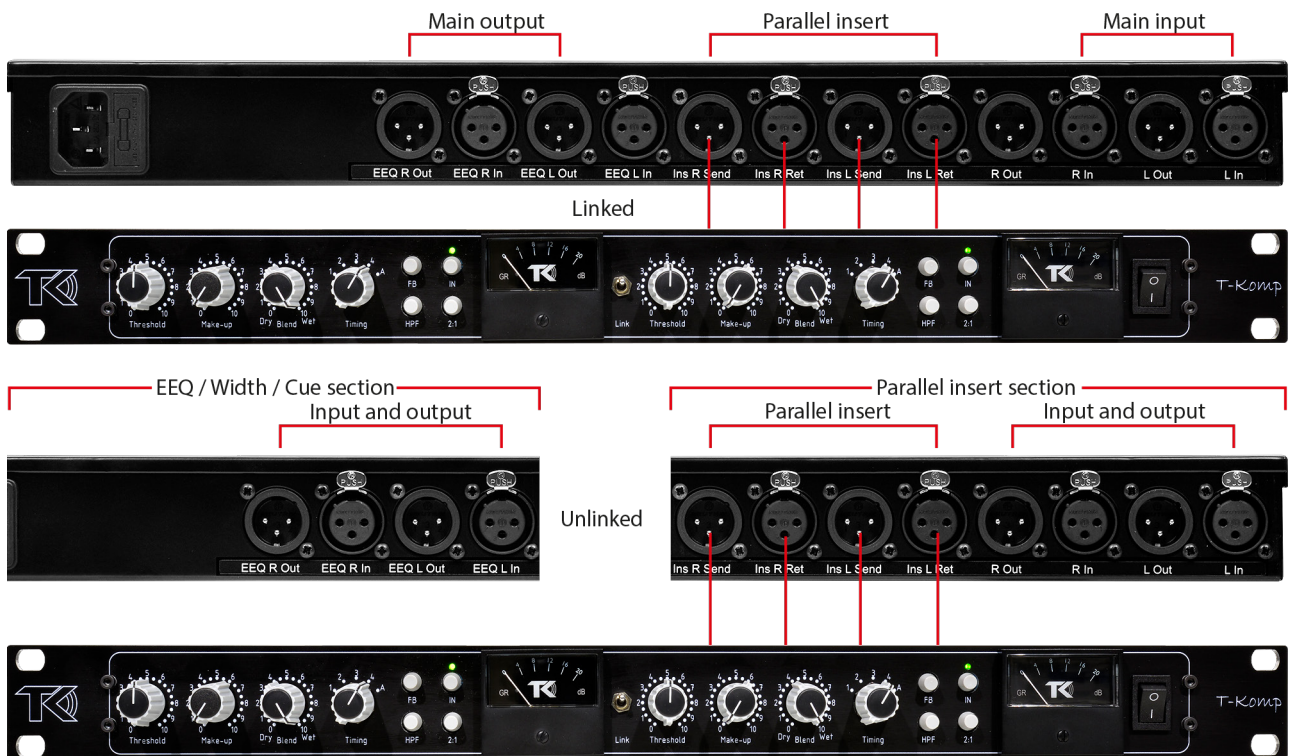
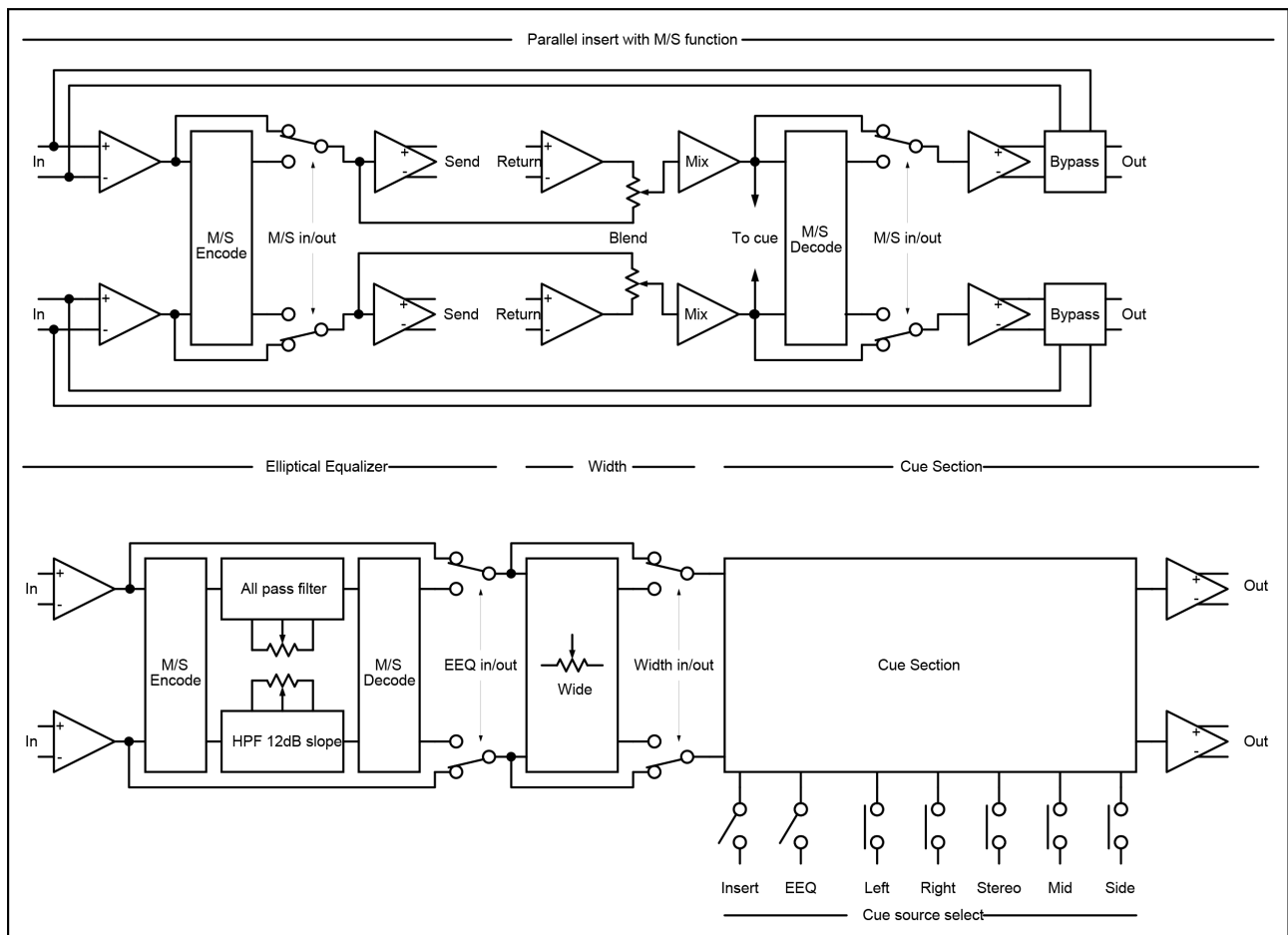
With the cue function you can monitor the Left, Right, Mid or Side signal separately by pressing the dedicated button.

When you run the parallel insert in M/S and Blend Split is activated "Insert cue" is a dedicated function to monitor the Mid or Side blend separately. The signal is then sent to the cue section without passing the EEQ, width circuit or other gear if the M/S Station is used unlinked. With Insert cue activated the L or R cue button will act as Mid or Side cue buttons. By pressing the L cue button you will monitor the Mid blend and by pressing the R cue button you will monitor the Side blend.

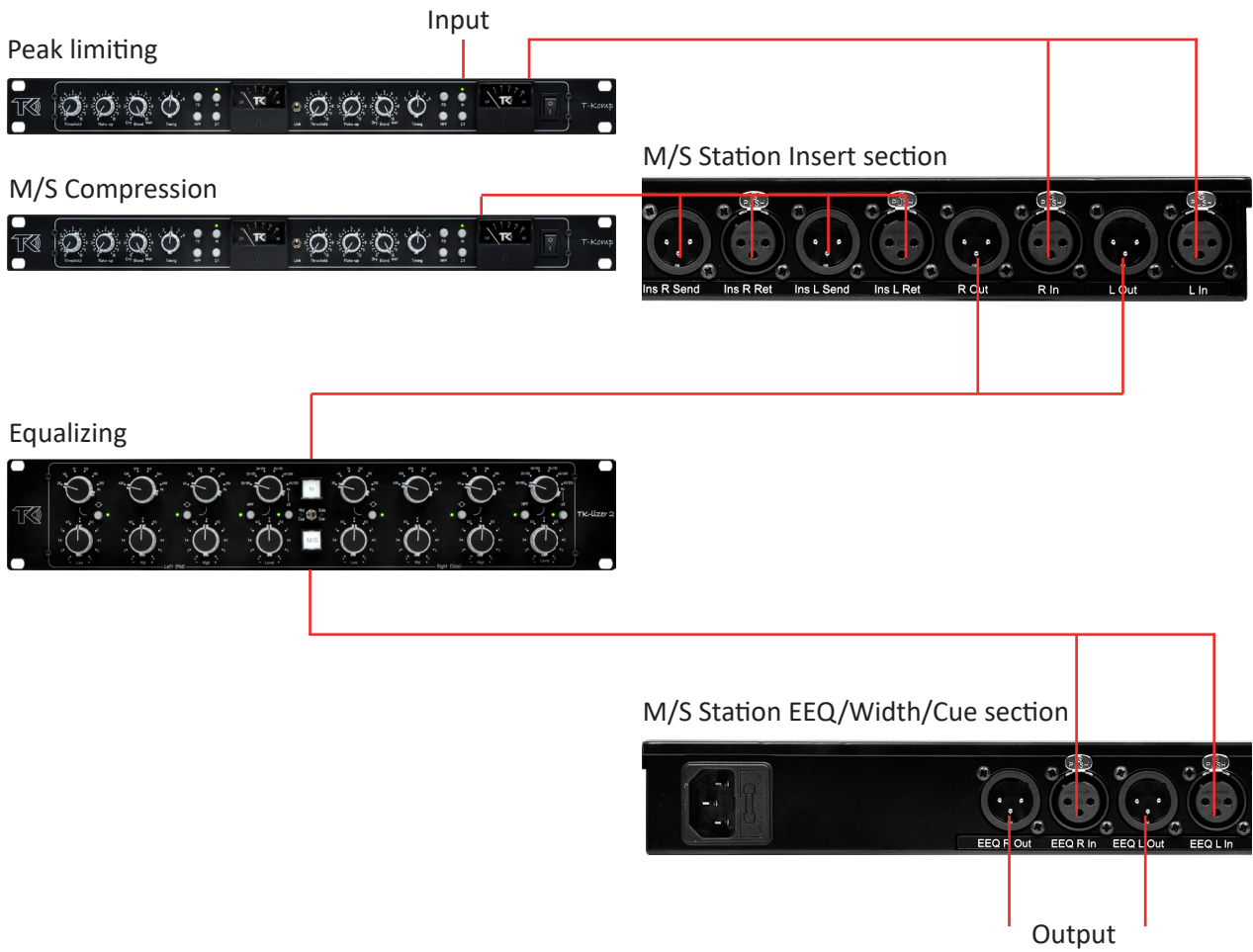
The "Insert cue" function can be used even if you run the two sections separately at different locations in your chain.

You can NOT use the "Insert cue" function to monitor the insert blend in stereo. This function is dedicated to monitor the Mid or Side signals in M/S mode with split blends only!

If you select the EEQ button on the cue section you can monitor the low frequencies fed from left to right or right to left by pressing L or R cue switch. Perfect for fine tuning of the EEQ setting.



Setup example

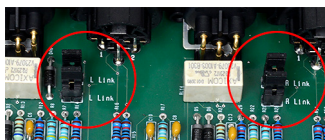


Power On / Off:

To avoid loud clicks or pops always keep you level down on your headphones and speakers while powering the M/S Station on or off!

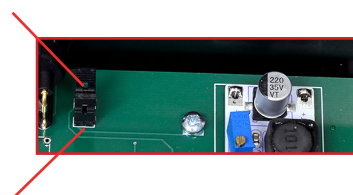
Unlink section 1 and 2:

If you like to use the two sections at different locations in your chain you can unlink them by removing the four jumpers inside the unit (see picture). You can then use them separately with their own balanced inputs and outputs. The two sections are linked as default.



Signal to chassi ground:

J1 (upper jumper) connects XLR pin 1 to audio ground.



J2 (lower jumper) connects XLR pin 1 to chassi and mains ground.

EU - Declaration of conformity / Överensstämmelseintyg

Product

M/S Station

115v - 200mA, anti surge fuse (slow)

230v - 100mA, anti surge fuse (slow)

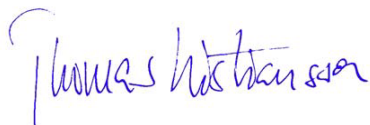
Manufacturer / Tillverkare

Musikverkstan i Halmstad AB / TK Audio

Falkenbergsgatan 10

30233 Halmstad

Sweden



Thomas Kristiansson, CEO

Halmstad, August 2023

Declaration of conformity

I declare under my sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:

EN55013, EN55020:2002, EN61000-3-2, EN61000-4-2 and EN60065

Following the provision of 73/23/EEC, 89/336/EEC and 93/68/EEC.

Överensstämmelseintyg

Härmed intygas helt på eget ansvar att denna produkt, vilket detta intyg avser, uppfyller följande standarder:

EN55013, EN55020:2002, EN61000-3-2, EN61000-4-2 och EN60065

Följer reglerna 73/23/EEC, 89/336/EEC och 93/68/EEC