



## PRODUCT OVERVIEW

The MPX10 provides, in a single channel unit, all the necessary signal processors for one step recording or PA applications. The MPX10 combines a Mic/Line preamplifier with DI input, Noise Reduction, Auto Compressor and Equaliser in a 1U unit with integral power supply.

The input section is designed around an ultra low noise mic pre-amp of exceptional clarity with switching for Line or DI input selection, +48V Phantom Power, Phase Reverse and 75Hz High Pass Filter.

The Noise Reduction is implemented by way of a simple downwards Expander with variable Threshold. The Compressor section includes variable Threshold and Ratio with 4-mode Auto-Sensing Attack and Release, which automatically tailors the Attack/Release settings to suit the signal. An integral De-Esser switch is incorporated to make the Compressor more sensitive to sibilant frequencies.

The EQ section features two fully variable parametric mid frequencies with variable bandwidth (Q) and fixed HF and LF cut/boost.

Finally the meter section provides an output Gain control and output level and Gain Reduction metering.

## APPLICATIONS

The MPX10 is an ideal front end for direct to tape or hard disk recorders and as a superior analogue input stage for digital work stations.

The MPX10 is equally at home in sound reinforcement applications where it can provide feedback suppression, vocal levelling and comprehensive tone shaping.

## SPECIFICATIONS

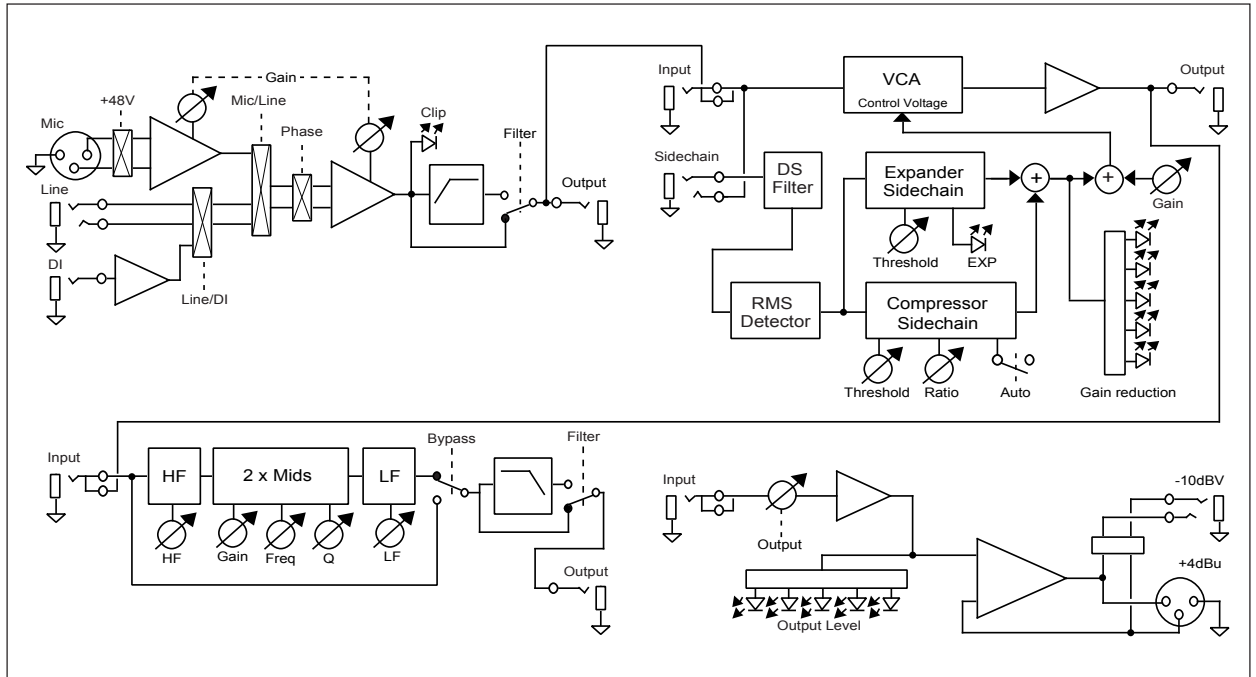
### ELECTRICAL

|                        |   |
|------------------------|---|
| Frequency response:    | ±1dB, 20Hz to 20kHz   |
| Mic input impedance:   | 1.2k balanced   |
| Line Input impedance:  | 20k balanced  |
| DI impedance:          | 0.5M  |
| Gain:                  | Mic = +10dB to +60dB<br>Line = -10dB to +30dB<br>DI = 0dB to +30dB                |
| Phantom Power:         | +48V  |
| Output impedance:      | <100R ground sensing  |
| Output levels:         | +4dBu on XLR<br>-10dBV on TRS jack  |
| Maximum output level:  | +20dBu  |
| Peak indicator:        | 3dB before clipping   |
| Signal to Noise ratio: | Mic EIN <-128dBu<br>Line <-90dB (at 0dB gain)<br>DI <-80dB (at 20dB gain)         |
| THD:                   | < 0.05%   |
| High Pass Filter:      | 75Hz, -12dB/octave  |
| NR Threshold:          | 0dB to -70dB  |
| Compressor Threshold:  | +20dB to -30dB  |
| Ratio:                 | 1:1 to 20:1   |
| Attack:                | 5ms (fast), 20ms (slow)   |
| Release:               | 0.5s (fast), 2s (slow)  |
| Equaliser:             | ±15dB @ 80Hz<br>±15dB @ 60Hz to 2.4kHz<br>±15dB @ 500Hz to 20kHz<br>±15dB @ 12kHz |
| Bandwidth LMF & HMF:   | 1/12th octave to 3 octaves  |
| Power Consumption:     | 7VA, 115/230VAC, 50/60Hz  |

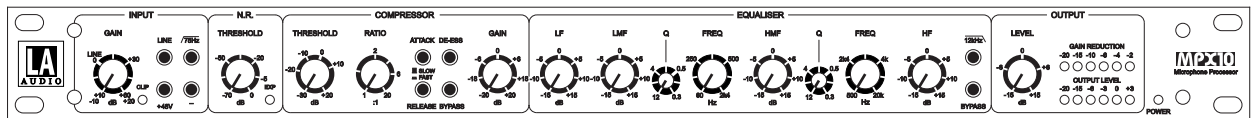
### PHYSICAL

|                    |  |
|--------------------|--|
| Input connectors:  | 3 pin XLR (Pin 2 hot)<br>¼" TRS jack (Tip hot) |
| Output connectors: | 3 pin XLR (Pin 2 hot)<br>¼" TRS jack (Tip hot) |
| Power Connection:  | Detachable Lead, 3 pin IEC socket              |
| Dimensions:        | 483mm (19")W<br>150mm (6")D<br>44mm(1.75")H    |
| Weight:            | 2.2kg  |
| Shipping weight:   | 2.85kg   |

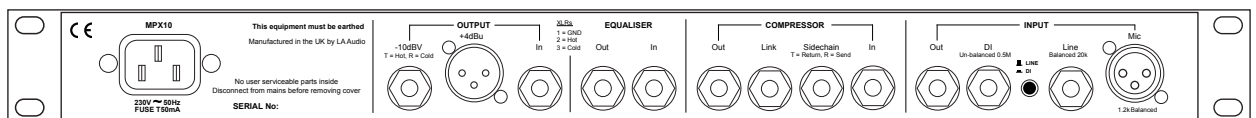
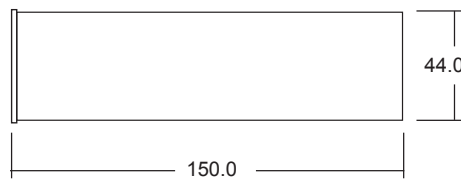
### BLOCK DIAGRAM



### DIMENSIONS



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