



### QUICK START GUIDE

The MPA575 features a lightly colored transformer coupled discrete microphone pre-amplifier, program dependent soft knee compressor with auto make-up gain, a see-saw EQ with combined low and high frequency control that allows broad tone adjustments with a single control knob, and a High Pass (Low Cut) filter with variable cutoff frequency. Together, they form a mini channel strip that performs all essential analog signal processing functions needed before committing audio to a recording medium.

Optimizing the MPA575 settings involves five easy steps:

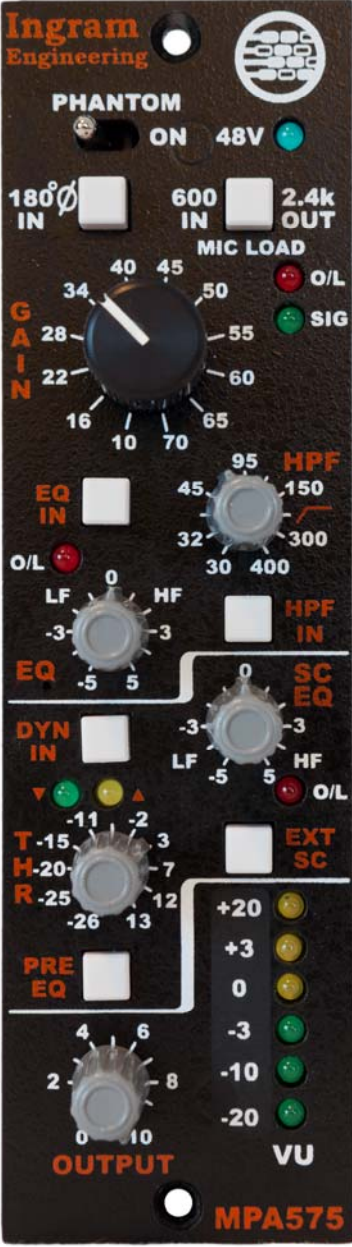
1. Disengage the EQ and HPF.
2. Increase the Gain stepped switch until the red O/L LED lights infrequently, then reduce the stepped switch by one step.
3. If the compressor is used, first adjust the Sidechain (SC) EQ to position 0 for flat frequency response.
4. Adjust the compressor Threshold for infrequent lighting of the yellow activity LED.
5. Adjust the Output Level pot until the signal level being provided to subsequent equipment is appropriate.

Once these basic steps have been taken, the audio timbre may be tweaked by experimenting with the Mic Load setting, the main EQ, High Pass Filter, the Compressor threshold, and the compressor Sidechain (SC) EQ.

The Compressor Sidechain EQ can have a surprising effect on the audio tones. The Sidechain EQ uses the same design as the Main EQ, but the Sidechain EQ is used only to trigger the Compressor gain reduction, not equalize the Main audio path. As such, the Sidechain EQ can be set to emphasize certain frequencies, and those frequencies will be compressed more than the others. For example, a sibilant voice or instrument with excessive high frequency content can be selectively compressed by turning the Sidechain EQ clockwise past the center position. High frequencies will be compressed, and low frequencies will be allowed to pass with little compression. The amount of compression can be set by adjusting the Threshold level.

Another useful feature to experiment with is the Compressor Pre- Post-EQ button. This button allows you to choose whether to place the Main EQ before the Compressor or after the Compressor. This way, the Main EQ can be used as a tool to only alter the tones of the audio (Compressor Pre-EQ), or can be used as a tool to affect to which tones compression is applied, and to change the tonal balance of the Main audio path (Compressor Post-EQ).

**FRONT PANEL FEATURES**



The image shows the front panel of the MPA575 compressor with various controls and features labeled by callout boxes:

- Phantom Power Toggle Switch**: Located at the top left, labeled "PHANTOM ON 48V".
- Phase Invert**: A switch labeled "180° IN".
- Gain in dB**: A large knob with a scale from 16 to 70.
- EQ In / Out Switch**: A switch labeled "EQ IN".
- Main Audio Path EQ**: A knob with "LF" and "HF" markings, used for frequency emphasis.
- Compressor In / Out Switch**: A switch labeled "DYN IN".
- Comp Activity LEDs**: Three LEDs labeled "V", "A", and "R" (Yellow, Green, Red).
- Comp Threshold in dBu**: A knob with a scale from -26 to +3.
- Place the Compressor Pre-EQ (In) or Post-EQ (Out)**: A switch labeled "PRE EQ".
- Output Level**: A knob with a scale from 0 to 10.
- Impedance Presented to Mic**: A switch labeled "MIC LOAD" with options "600 IN" and "2.4k OUT".
- Overload LED**: A red LED labeled "O/L".
- Signal LED**: A green LED labeled "SIG".
- High Pass Filter**: A knob with a scale from 30 to 400 Hz.
- High Pass Filter In / Out Switch**: A switch labeled "HPF IN".
- Internal Compressor Sidechain EQ**: A knob with "LF" and "HF" markings.
- External Compressor Sidechain EQ loopthru Button**: A switch labeled "EXT SC".
- VU Meter**: A vertical scale of LEDs from +20 to -20 dBu.



MPA575 MICROPHONE SIGNAL PROCESSOR RECALL SHEET

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**Ingram Engineering** 

**PHANTOM**  
ON 48V

180°  600  2.4k   
IN IN OUT

MIC LOAD

34 40 45 50  O/L  
28 55  SIG  
22 60  
16 70 65

EQ IN  45 95 HPF  
32 150  
30 400

O/L  LF 0 HF  HPF  
-3 -3 IN

EQ -5 5  SC  
0 EQ

DYN IN  -3 -3  
LF -5 HF

11 2 3  EXT  
15 20 7 SC  
25 12

PRE EQ  -26 13

4 6  
2 8  
0 10

OUTPUT **VU**

**MPA575**

Notes:

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