



MAGNUM-K

Compressor



User Guide

www.maagaudio.com

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MAGNUM-K™ Compressor

Model: MAGNUM-K

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions
2. Keep these instructions
3. Heed all warnings
4. Follow all instructions
5. Clean only with dry cloth
6. Do not block any ventilation openings.
7. Install in accordance with the manufacturer's instructions
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
9. Protect the power cord from being walked on or pinched particularly at plugs and the point where they exit from the apparatus
10. Only use attachments/accessories specified by the manufacturer
11. Unplug this apparatus during lightning storms or when unused for long periods of time
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped
13. CAUTION: To disconnect the unit completely from the MAINS, unplug the unit. Turning the power switch off does not disconnect the unit completely from the MAINS
14. The unit shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the unit
15. WARNING: This is a Class I apparatus. It should be connected to a MAINS socket outlet with a protective earthing connection

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICE TO QUALIFIED PERSONNEL.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



VOLTAGE SELECTION AND FUSE

This unit is capable of operating over a range of mains voltages as marked on the rear panel. Ensure correct mains voltage setting and correct fuse before connecting mains supply. Do not change mains voltage settings while mains supply is connected. To avoid the risk of fire, replace the mains fuse only with the correct value fuse, as marked on the rear panel. The internal power supply unit contains no user serviceable parts. Refer all servicing to a qualified service engineer, through the appropriate Maag Audio dealer.

For mains voltages from 100-120 volts, use a 0.5A 3AG fuse with Slo-Blo characteristics only and configure the mains selector to display 115V. For mains voltages from 200-240 volts, use a 0.25A 3AG fuse with Slo-Blo characteristics only and configure the mains selector to display 230V. The selectable fuse holder accepts 1/4" x 1-1/4" or 5mm x 20mm fuses.



INTRODUCTION

The Maag Audio MAGNUM-K™ is a single channel Compressor built to complement the audio engineer's craft in a very big and impactful way. The MAGNUM-K is comprised of two compressor sections (**MAGNUM COMP** and **K COMP**), a very musical **Parallel EQ** (with LMF and AIR BAND®), and a **Soft Limit** (soft limiter).

Whether putting the finishing touches on a 2-mix or making a vocal sound bigger than life without taking your head off; the MAGNUM-K will help elevate your craft to a whole new level. Welcome to compression nirvana and sonic bliss. Welcome to the Maag Audio MAGNUM-K Compressor where **BIGGER SOUND**, **QUICKER WORKFLOW**, and **OUTSTANDING CONTROL** were designed to elevate your craft.

BIGGER SOUND

The MAGNUM-K Compressor helps quieter sonic signatures become as big as you want them to be while simultaneously reigning in those louder, more dominant tones.

QUICKER WORKFLOW

Tuning a MAGNUM-K Compressor is quick and easy, reducing your overall workflow time.

OUTSTANDING CONTROL

The MAGNUM-K offers outstanding control from its transparent INPUT ATTN (attenuator) and INPUT GAIN controls, to its SIDECHAIN capabilities and MAKE UP GAIN. Controls are stepped (detented) to allow for easy recallable settings and channel matching.

Cliff's NOTES

The MAGNUM-K is Maag Audio's 8-Function channel that controls gain and shapes tone like no other product on the planet. It is used for Tracking, Mixing, Live Sound, and Mastering.

To accomplish what the MAGNUM-K does in one analog channel, an engineer would need the following components:

- 1— INPUT ATTN (Input Attenuator)
- 1— INPUT GAIN
- 1— MAGNUM COMP (Multiband Compressor)
- 1— SIDECHAIN Hz (Internal SIDECHAIN filter or External SIDECHAIN)
- 1— K COMP (3 kHz Focused Compressor)
- 1— PARALLEL EQ2 (LMF and AIR BAND)
- 1— MAKE UP GAIN
- 1— SOFT LIMIT (Soft Limiter)
- 16— XLR Patch Cables

Now multiply these components x2 to accomplish two channels... You would then need to send these connections to multiple Summing Busses in a Console or DAW interface.

This is an extremely complex insert that would require many units, much thinking and patching to accomplish what the **MAGNUM-K does in ONE simple channel**. The MAGNUM-K does this work for us, giving us more time to perfect our craft and make music. The Maag Audio MAGNUM-K provides **BIGGER SOUND**, **QUICKER WORKFLOW**, and **OUTSTANDING CONTROL**.

-Cliff Maag Sr.

CONTROLS



INPUT ATTN

Input attenuator (0-12 dB)

PEAK

Red LED starts to illuminate when the input signal reaches 23 dBu (clips @ 26 dBu)

SIGNAL

Green LED indicates audio signal presence. Illumination starts @ -30 dBu

INPUT GAIN

Input gain (0-12 dB). Allows a low level to be boosted, making it more sensitive to compression

MAGNUM COMP

COMP RANGE

Compression range selection limits (4, 8, 12, or 16 dB)

RATIO

Adjusts the slope of the compression (1.3:1 to 13:1). Varies with the COMP RANGE setting

Blue LED

Indicates the level of compression for the MAGNUM COMP. The brighter the LED, the more compression being applied to the signal (simulating a meter)

THRESHOLD

Controls the level where compression occurs. Turning the knob to the right adds more compression

SIDECHAIN Hz

Internal SIDECHAIN frequency filter at 40 Hz, 80 Hz, 120 Hz, 220 Hz or External SIDECHAIN

ATTACK

Adjusts the ATTACK speed of compression (5 ms to 200 ms)

RELEASE

Adjusts the RELEASE speed of compression (100 ms to 1.2 s)

FB / FF

Feedback (FB) or Feedforward (FF) to select compression type. In FF mode, compression is more aggressive



K COMP (Focused 3 kHz Compressor to control harsh/edgy tones)

IN

Engages the K COMP compressor. Green LED indicates when the K COMP is engaged or bypassed

Blue LED

Indicates the level of compression for the K COMP. The brighter the LED, the more compression being applied to the signal (simulating a meter)

THRESHOLD

Controls the level where compression occurs. Turning the knob to the right adds more compression

CONTROLS



PARALLEL EQ2

The PARALLEL EQ2 boosts the original source signal at focused frequencies and then blends it with the MAGNUM COMP and K COMP signals (pre SOFT LIMIT). This boosting/blending also acts as a focused make up gain.

LMF (Low Mid Frequency) EQ

GAIN (LMF)

Gain control for the LMF

15 dB max gain (W = wide bell)

12 dB max gain (T = tight bell)

IN (LMF)

Engages and disengages the LMF. Green LED

Frequency Selector (LMF)

Bell curve boost with W (wide) or T (tight) bell curves:

W (wide) = Sub, 57 Hz, 88 Hz, 220 Hz, 400 Hz, or 1.4 kHz

T (tight) = Sub, 40 Hz, 65 Hz, 150Hz, 250 Hz, or 1 kHz

Q (LMF)

LMF bell selection. Choose between W (wide) or T (tight) bell curves.

Yellow LED indicates selection

AIR BAND® EQ

GAIN (AIR BAND)

Gain control for the AIR BAND

20 dB max gain

IN (AIR BAND)

Engages and disengages the AIR BAND. Green LED

Frequency Selector (AIR BAND)

Boost only shelf at 10 kHz, 15 kHz, 20 kHz, 25 kHz, 30 kHz, or 40 kHz.

Frequencies below the shelf peaks are also affected due to the transitional slope

PEAK

Red LED starts to illuminate when the output signal reaches 26 dBu (clips @ 29 dBu)

MAKE UP GAIN

Used to MAKE UP GAIN after compression (0-21 dB)

SOFT LIMIT

Engages soft limiter. Green LED transitions to Pink then Red (+17 dBu) as soft limiting increases (simulating a meter)

LINK

Used to link two (2) MAGNUM-K Compressors. Linked MAGNUM COMP functions include: RATIO, THRESHOLD, ATTACK, RELEASE. Green LED

ENGAGE

Engage or disengage the MAGNUM-K Compressor (true bypass). Green LED

CONTROLS



LINK

1/4" TIP/SLEEVE to link two (2) MAGNUM-K Compressors together

SIDECHAIN

EXT OUT

3-pin XLR balanced for SIDECHAIN output

INPUT

3-pin XLR balanced for SIDECHAIN input

XLR Pinout

1 = G, 2 = +, 3 = -

OUTPUT

3-pin XLR balanced output for MAGNUM-K

INPUT

3-pin XLR balanced input for MAGNUM-K

XLR Pinout

1 = G, 2 = +, 3 = -

Specifications

Specification	Value	Specification	Value
Frequency Response	+/-1 dB 20 Hz to 40 kHz	Headroom	+28 dBu @ 10 K Ohms
Nominal Input Impedance (XLR)	48 K Ohms, balanced	Nominal Output Impedance (XLR)	50 Ohms, balanced

Product Warranty

Maag Audio expressly warrants its products for a period of one (1) year from the date of purchase. Products will be free of manufacturing defects. Within the warranty period, a product will be tested, repaired or replaced at the sole discretion of Maag Audio, free of charge. All warranty service will be conducted through authorized Maag Audio dealers only. The end user is required to provide proof of purchase (receipt or invoice) of the product. This warranty is offered solely to the original purchaser of the product from an authorized Maag Audio dealer and is not transferable. This warranty does not include the shipping charges to and from the authorized Maag Audio dealer from whom the product was purchased. Maag Audio will pay for shipping costs between the dealer and Maag Audio. All warranty service requires a Maag Audio issued RMA number. Please conduct warranty service communication with an authorized Maag Audio dealer.

Warranty Exclusions

The foregoing express warranty is made in lieu of all other product warranties, expressed and implied, including merchantability and fitness for a particular purpose which are specifically disclaimed. The express warranty will not apply to defects or damage caused by post purchase shipping and transportation, storage, careless handling, nor damage caused by misuse, hot swapping, accidents, neglect, alterations, operator error, or failure to properly maintain products.