

# JOEMEEK VC3 PRO CHANNEL



Inside the JOEMEEK VC3 "Pro Channel" is a high quality ultra low noise, classic microphone preamplifier. It offers vast amounts of headroom to add warmth and "phat" to your sound. An original JOEMEEK "photo-optical" compressor adds that "massive" JOEMEEK power with the sonic qualities associated with the VCI and VC2. A JOEMEEK enhancer is included to give your sound that extra "edge".

## THE INPUT STAGE

The "front end" is an entirely new design using 5 complete stages of amplification controlled by a single volume control. The design gives (microphone) input headroom of more than 30dB; the input is floating balanced and will easily accept microphone levels from -70dB up to more than 0dB. Phantom power is provided for capacitor microphones. Noise performance is up to finest laboratory standards (125.5dB below input 20Hz to 20KHz 200ohm input termination). The line input is designed for unbalanced circuits and will accept -30dB up to +24dB. The nominal operating level at the "output" jack is +4dB, maximum output is +24dB. The Pro Channel can operate with any professional mixer and direct recording devices.

## THE COMPRESSOR

The built-in JOEMEEK "compressor" is slightly different from the bigger studio units, making it easier to use with musical instruments. The "attack" is selectable between 1ms or 10ms. The "release" is variable from 250ms up to 3 seconds. Also included is an in/out bypass switch for compression comparisons. The compression control is rotary. The compression ratio varies from 1.5:1 up to 7:1 depending on musical content. There is a green LED to indicate when compression becomes active in the audio chain.

## THE ENHANCER

The enhancer adds harmonics to the musical signal making it richer and more exciting. The "drive" control takes part of the signal and feeds them to a separate compression processor. The compressed harmonics are tuned by the "Q" control and then mixed back into the musical signal by the enhance control. The effect is powerful when used on vocals, guitars and acoustic instruments.

## THE METER

The VC3 comes equipped with a "five stage" LED meter for ease of viewing. The first green LED of the meter array stays on all the time to show that the power is on. The second green LED lights at an output level of -12dB. The third yellow LED lights at an output level of -6dB. The fourth orange LED lights at an output level of 0dB. The fifth red LED lights at an output level of +8dB.

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23773 madison street • torrance, california 90505  
to inquire call toll-free 877 563 6335  
phone 310 373 9129 facsimile 310 373 4714  
email address info@pmaudio.com  
visit our website at pmaudio.com

## OVERALL PERFORMANCE

Frequency response is +0-0.5dB 10Hz to 50KHz. Low frequency accuracy is maintained to get clear bass sounds onto digital recorders. Harmonic distortion less than 0.01% except where compression effects low frequency wave shape. Noise generally 100dB below input (125.5dB below input on mic at more than 50dB gain)

## THE OUTPUT STAGE

An LED "meter" shows levels immediately before the output stage. An output volume control gives the choice of output volume levels. Two 1/4" TRS output jacks are identical with each other but buffered from each other. Output is balanced 600 ohm with maximum output +24dB. Noise approx -80dB.

## TECHNICAL NOTES

- Adds warmth, power and "thickness" to today's digital studio sound.
- Dynamic effects processor for bass, guitar and vocals in live and recording applications.
- An ultra high quality microphone preamplifier.
- Phat'n up samples before committing them to tape or hard disk.

*Hand crafted in Devon, England, the JOEMEEK Pro Channel is an exclusive and exquisitely engineered machine that merges 60's sound with 90's technology. The JOEMEEK Pro Channel will improve all your recordings and capture the original sounds of the 60's which are impossible to emulate in today's digital environment.*

## FEATURES AND CONTROLS

- Superlative Mic input with ultra low noise and vast headroom.
- Input gain control with 60dB range on mic and 30dB range on line.
- Phantom power (switched on/off) with LED indicator.
- Compression attack speed switch high/low.
- Compression depth control with LED indicator.
- Compression release speed control.
- Compression bypass switch.
- Enhancer drive control with LED indicator.
- Enhancer depth control.
- Enhancer resonance control (Q).
- An accurate LED "peak" meter.
- Output volume control.
- XLR type microphone input, standard 1/4" line input.
- 1/4" jack Insert point after the mic amp and pre-compressor.
- 1/4" line-level "mix" input on rear panel. (Post gain, pre-compressor)
- Dual TRS 1/4" balanced line level outputs.
- Compact 1U size. 1.75" x 8.25" x 5" (half rack - optional rack rails available)