

JOEMEEK VC3Q PRO CHANNEL



Inside the JOEMEEK VC3Q "Pro Channel" is a high quality ultra low noise, classic microphone preamplifier. It offers vast amounts of headroom to add warmth and "thickness" to your sound. An original JOEMEEK "photo-optical" compressor adds that "massive" JOEMEEK power with the sonic qualities you expect from all JOEMEEK compressors. A three band fixed JOEMEEK MeQ (eq) is included to give your sound that extra "British 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 balanced 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 it's big brothers, making it easier to use with musical instruments. The "attack" is variable between 1ms and 11ms. The "release" is variable from 125ms up to 1.5 seconds. Also included is an in/out bypass switch for compression comparisons. The compression control is rotary. The compression ratio(threshold) 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 EQUALIZER

The equalizer can change the sound of an instrument or voice by altering the high, mid or low frequencies separately, but at the same time, making those changes musically. The controls not only add or subtract volume in the three frequency bands called "treble", "mid" and "bass", but also alter the phase relationships of these frequency bands. This is a major factor in the "musicality" of the equalizer. Unlike other equalizers, the actual frequencies are not specified. The reason for this is that in order to sound completely musical, there is considerable overlap between the sections so that "8KHz" actually has a great effect at both 20KHz and at 2KHz; if it didn't, it would sound bad. This is why our EQ has the classic warmth and tone of the old world class EQ's. The EQ is defeatable for direct comparisons of wet and dry.

Treble Control Approx 18dB lift and cut at the shelving frequency of 8KHz. (fixed)
Mid Controls Approx 16dB lift and cut at 1.8KHz (fixed)
Bass Control Approx 18dB lift and cut at the shelving frequency of 80Hz. (fixed)

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THE METER

The VC3Q 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. There is a red overload input gain LED that reads post eq for accurate input trim.

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

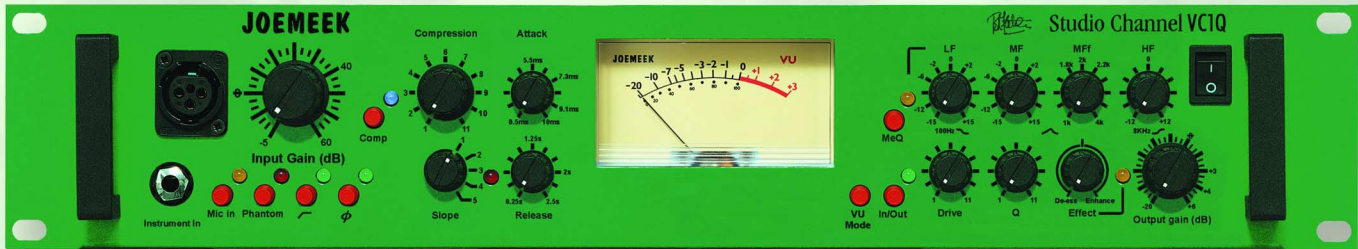
- Adds warmth, power and "**thickness**" to today's digital studio sound.
- Dynamic effects processor for bass, guitar and vocals in live and recording applications.
- An ultra high quality microphone preamplifier.
- **Phat'n** up samples before committing them to tape or hard disk.

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 control.
- Compression Threshold control with LED indicator.
- Compression release speed control.
- Compression bypass switch.
- 3 Band "British" EQ with by-pass
- An accurate LED "peak" overload 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)

JOEMEEK VC1Q STUDIO CHANNEL



The JOEMEEK VC1Q "Studio Channel" offers six separate pieces of equipment all in one package. The VC1Q has an excellent "transformer coupled" microphone preamplifier for a warm and open vocal sound, a mono "photo-optical" JOEMEEK compressor, a 3 band with mid sweep MeQ(eq), A JoemeeK enhancer, a De-esser, and a 24 bit Digital output. With the on-board instrument preamplifier, you have one "extraordinary" piece of equipment for direct tracking. The VC1Q has established itself as the leader in "do-all" in any recording or live situation.

THE MIC AMPLIFIER

The VC1Q features a unique transformer coupled solid state hybrid mic pre-amplifier for silky smooth vocals. Other features include a mic/line switch, phantom power switch, hi-pass filter, and phase reverse switch. All switches have LED indicators.

COMPRESSOR

COMPRESSION adds gain to the compression sidechain and so increases compression.

RATIO sets the ratio of compression via a five position pot

ATTACK sets the time that the compressor takes to act.

RELEASE sets the time during which the path gain returns to normal after compression. Generally, the longer the time, the less obvious the compression.

ENHANCER / DE-ESSER

An enhancer (or exciter) adds a particular type of sparkle to sounds, particularly voices. It appears to create brightness from sounds that were "flat". The enhancer in the VC1Q works by picking off the higher frequency part of the sound, compressing and dynamically altering it, filtering off the original sound and remixing the resulting harmonics back with the signal. It adds high frequency sparkle, making vocals sound more present and exciting. The effect is powerful when used on vocals, guitars and acoustic instruments. The Enhancer becomes a De-esser when the Enhancer pot is turned in it's counter clockwise position. It allows the user to remove unwanted sibilance in the recording process.

THE EQ

The EQ section is one complete channel from the VC5 "Meekqualizer"

Treble Control Approx 18dB lift and cut at the shelving frequency of 8KHz. (fixed)

Mid Controls Approx 16dB lift and cut at 600Hz to 3.5KHz sweep variable. 'Q' value of the mid frequencies varies (increases) with frequency. 'Q' at 600Hz approx 1.2 at 3.5KHz approx 2.5.

Bass Control Approx 18dB lift and cut at the shelving frequency of 100Hz. (fixed).

- In/out switch (bypass) with indicator
- Unique sound, unlike any digital plugin module or analog project studio console EQ.

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THE DIGITAL INTERFACE

The VC1Q offers a new JOEMEEK digital option which will allow a user to upgrade the unit to 24bit output capability via a "letterbox" on the rear panel of the unit. The VC1Q optional digital board has a single S/PDIF output and 3 way switch to select 44.1, 48 or 96KHz sample rate. The board is stereo compatible, and will also work on future versions of the SC2.2 stereo compressor.

3 TYPES OF INPUTS

The Studio Channel is optimized for the three main types of inputs found in recording studios.

1. XLR microphone inputs are on the front and rear of the unit.
2. 1/4" balanced line input on rear panel.
3. High quality 1/4" instrument preamplifier on front panel.

TECHNICAL SPECIFICATION

MICROPHONE INPUT	XLR input 3K ohm approx. to suit 200 ohm microphones. Switchable 48V phantom. Transformer balanced and floating. Input level from -70dB to 0dB.
LINE INPUTS	10K input impedance floating balanced. Instrument input 150K impedance unbalanced. Mix input 10K impedance unbalanced.
OVERLOAD MARGIN	30dB on mic and line inputs in normal operation.
GAIN	Line in -6dB to 24dB Instrument in 0dB to 35dB Mic in 15dB to 70dB Insert gain 0dB Mix in gain 0dB
NOISE	Line in 80dB below operating level Mic in 125.5dB below input at 50dB gain 20Hz to 20kHz.
HARMONIC DISTORTION	Generally within 0.02% rising to approx. 0.14% at 4dB above nominal output level, 2nd harmonic predominant.
AMPLITUDE FREQUENCY RESPONSE	Line in 6Hz to 20kHz within 0.5dB Mic in 8Hz to 20kHz within 1dB High pass filter 3dB down at 25Hz, 12dB per octave.
OUTPUTS	XLR High level balanced 50 ohm+4dBu for OVU (variable) Max. output approx. +22dBu. XLR Low level balanced 200 ohm 40dBu Insert, 1/4" TRS jack. 400 ohm-10dBu output 22K ohm input.
COMPRESSOR	Photoresistive servo operated
POWER	115/230VAC via IEC cord socket. Reversible fuse holder selects 230VAC or 115VAC power. 15 watts.
HOUSING	2U standard rack mount steel case enclosure. (3.5"x 19"x 5")