



Red 7: Mic Pre & Dynamics



Combining the Focusrite transformer-based mic pre with a compressor, limiter and de-esser/exciter, the Red 7 is a superb, single-channel dynamics processor, ideal for high quality recording, notably voice-overs and other vocal applications



- Line input balance control
- Scribble disk
- Classic Focusrite mic pre, compressor, de-esser and exciter designs
- Illuminated push-button switches for compressor in/out, de-esser/exciter in/out and high pass filter in/out
- Precision VU metering of signal level or gain change (switched)

The Red 7 employs the same superb mic pre-amp as the Red 1 and Red 8, with a dual-range mic gain pot that allows precise control across the full range of the device. Phantom power and phase reverse are also provided. The Line input is electronically balanced, with continuously variable gain. A high quality output fader offers +6dB gain to infinite attenuation, essential for direct recordings, or for accurate level matching after EQ and dynamics.

Added to this mic pre is a full dynamics section, optimised for vocals. With its superb signal path, outstanding ease of use, and an integrated all-in-one design, it is a powerful tool for voice recording in all situations from music studios to post-production. The compressor design is taken straight from the Red 3, and as on that

unit, is characterised by low noise and distortion even with heavy processing. Relatively heavy compression can be applied whilst retaining a transparent natural sound. Ratio, gain make-up, threshold, attack and release are all continuously variable, and a program dependent auto-release mode can be switched in. A swept high-pass filter allows effective treatment of problems such as rumble, bass lift and proximity effect.

The de-esser/exciter stage can be switched to provide frequency-selective compression (de-essing) or excitation. The amount and centre frequency of the processor are continuously variable, and as all the unit's dynamics still use the Focusrite single-VCA

"The Sound dept of PINEWOOD STUDIOS Ltd has been using the Focusrite Red 7 for many years; we have 7 in total. The two main areas of use are the Mic pre-amp and de-esser. For these purposes they do the job extremely well and we have found them to be very reliable."

Martin Powlesland, Technical Manager
Pinewood Studios Ltd

technique, unwanted colouration of the sound is kept to an absolute minimum. A clear VU meter shows level after the pre-amp gain control, or displays compressor gain change.

RED 7 SPECIFICATIONS

Mic Input Gain	-6dB to +60dB in two variable ranges
Mic Input Impedance	1200Ω ±15%, balanced and floating
Line Input Gain	-12dB to +12dB
Line Input Impedance	10kΩ ±15%, electronically balanced
Input balance	>60dB to 15kHz on both inputs
Frequency Response	10Hz to 140kHz (-3dB points), ±0.1dB within passband
Noise	Better than -80dB below +4dBu output level, dynamics in
Distortion	0.006% (+10dBu @ 1kHz)
Output	+24dBm into 600Ω +26dBm into 10kΩ, balanced and floating

