



Audio & Design the original manufacturers of the

Complex F760X-RS

Audio Compressor, Peak Limiter and Expander

***Introduce the remake of
The Original and Best***



Manufactured by Q2 Audio in close collaboration with Audio & Design, this remake of the classic Complex is authentic in every detail and reproduces the exact sonic qualities of the original product.

Using the original discrete analogue circuit design employing a feedback FET technique and maintaining the use of the same components that give this product such a distinctive sound, the new Complex compressor/limiter & expander/gate will add dynamic punch to your sound as well as controlling peak excursions and gating unwanted instrument/vocal artefacts & noise.

The Complex was used by major recording artists worldwide throughout the 60's, 70's, and 80's. This famous, iconic processor was instrumental in shaping the sounds of that era.

Now the Complex returns to place it's unique signature on the sounds of today

Viva La Complex!

Major Features include:

- ⌚ Dual channel/stereo level control offering simultaneous compression gain reduction with peak limiting and expansion/gating.
- ⌚ Precision calibrated compressor/limiter threshold control which allows the user to "dial up" the amount of compression required before peak limiting occurs.
- ⌚ Switched Compression values from 1:1 (amplifier), 2:1, 3:1, 5:1, 10:1 & 20:1 (limiter).
- ⌚ Ultra fast compressor and expander attack values.
- ⌚ Auto dual platform release function – allows fast transient recovery on a "build-up" slow release.



Audio & Design Reading Ltd

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SPECIFICATION

F760X-RS Compex

Inputs:

3 pin XLR – Unbalanced – (pin 2 hot). Nominal imp 10K Ω

Side Chain Insert:

Compressor side chain insert: Normalised 3 pole jack (type B) Tip= return, Ring= send, Sleeve= Ov

Output:

3 pin XLR – Unbalanced (pin 2 hot). Source Imp < 1 Ω ; Maximum output level normally +18dBu – unbalanced. /T option with balancing transformers +22dBu, source Imp <75 Ω .

*T option: Balanced input/output fully isolated transformers to order.

System Gain:

34dB with input/output attenuators fully open. Unity gain in Bypass mode.

Thresholds:

Peak Limiter: +14dBu maximum with unattenuated output. Referred to unattenuated input level 20dBu.

Compressor: Calibrated with reference to Peak Limiter thresholds and marked 0 – 20dB in 2dB steps. (Reference to unattenuated input level this is -20dBu to -40dBu).

Expander/Gate: -40dBu to +14dBu, with reference to input.

Release:

Peak Limiter: 250mS,

Compressor: 25mS, 50mS, 100mS, 200mS, 400mS, 800mS, 1.6 secs, 3.2 secs + Auto release function.

Expander/Gate: Continuously variable from 25mS to 5 secs.

Attack:

Peak Limiter: < 250uS for 100% control of overshoot – without any over limiting. (measured at 1KHz for 10dB gain reduction).

Compressor: 250uS, 2.5mS, 25mS.

Expander/Gate: 20uS, 2mS, 40mS.

Distortion:

Measured at 1KHz for 10dB compression & 3.2 secs release time:

Compressor: at +10dBu threshold <0.1% (typically 0.04%)

Peak Limiter: at +14dBu threshold <0.3%

Frequency Response:

Unbalanced: 30Hz – 20KHz, +0dB, -0.5dB.

Balanced (/T option): < -1dB at 30Hz & 20KHz.

Signal – Noise Ratio:

Referred to Peak Limiter threshold level as set by output attenuator: better than -80dB; with Expander operational, better than -87dB

(Measured with low pass filter -3dB at 25HKz).

Stereo Matching:

Control volts matching on compressor and expander sections to within ± 1 dB of each other, consequently no image shift during operation.

Selectable Peak Limiter operation:

Peak Limiter on – off or Pre-emph (50uS time constant).

Indicators:

Overall Gain Reduction Meter scaled 0 – 20dB in 4dB divisions. White scale on black background with yellow pointer.

Peak Limiter operating: Red indicator

Compressor operating: Orange indicator

Expander/Gate operating: Green indicator

POWER:

110v – 240vac 50/60Hz – Selectable working voltage for 110 -120v & 220 – 240v

SIZE:

482.6mm (19") wide x 88.9mm (2U) high x 229mm deep.

WEIGHT:

3.5Kg (net)



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