



**Audio & Design the original manufacturers of the**

# **Compex 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 Compex 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 Compex 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 Compex 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 Compex returns to place it's unique signature on the sounds of today*

Viva La Compex!

### **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.



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# SPECIFICATION

# F760X-RS Complex

## Inputs:

3 pin XLR – Unbalanced – (pin 2 hot). Nominal imp 10K $\Omega$

## 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 $\Omega$ ; Maximum output level normally +18dBu – unbalanced. /T option with balancing transformers +22dBu, source Imp <75 $\Omega$ .

\*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 25KHz).

## Stereo Matching:

Control volts matching on compressor and expander sections to within  $\pm 1$ 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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