

IGS Audio

2176

Dual Peak Limiter

User's Manual



Description

The 2176 is a dual mono version of the legendary 1176 archetype. The 1176 is a very well known and appreciated compressor in professional recording studios all over the world. Whoever heard how this compressor works with vocals will never be able to manage without one. Additionally the 2176 works great with drums and synthesizers. It is a 45dB transistor amplifier equipped with a remarkable limiter. Compression is achieved with the FET controlled transistor. The unique feature of the unit is the implementation of traditional BC107B transistors known well from the original 1176 circuit. That's right! They may cause noise – but this is what gives the sound its power. At extreme settings the 2176 adds some pleasant distortion to the output. The core of versatility in sound of the 2176 lies in the balance between the Input, Output, and Release knobs. All knobs are in fact 12-position switches. It is a pure A class circuit.



CAUTION / AVIS



**RISK OF ELECTRICAL SHOCK. DO NOT OPEN.
RISQUE DE CHOC ELECTRIQUE. NE PAS OUVRIR.**

CAUTION: TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRICAL SHOCK DO NOT REMOVE TOP OR BOTTOM COVER. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Front panel

Elements 1 to 8 are identical for both channels (A and B)

1. Input switch (-60dB to 0dB): manipulates input saturation (NOTE: Threshold level is fixed)
2. Output switch (-60 dB to 0dB): manipulates output level
3. Attack switch (20 to 800 us): adjusts response time (fastest when set to 7)
4. Release switch (50 to 1100 ms): adjusts release time (fastest when set to 7)
5. Ratio switch (4:1, 8:1, 12:1, 20:1): sets compression ratio
6. Slam switch: imitates "all buttons on" function
7. Ultra fast dB reduction/VU meter
8. Monitor switch (Bypass, GR, VU): Selects meter display option between Gain Reduction and Volume Unit. Bypass disables compression path only leaving the amplifier path active.

9. Power indicator
10. Power switch

Rear Panel

From left to right:

1. Power socket 230V AC 50Hz-60Hz
2. Fuse 315 mA Slow Blow
3. Identification Plate
4. Output – right
5. Input – right
6. Output – left
7. Input - left

Getting started

1. Connect the 2176 to your sound interface (two inputs and two outputs) with four symmetrical XLR wires
2. Send your desired audio file to the selected outputs
3. Activate the selected input channels on your local mixer
4. Set the Input switches to about 18, Output knobs to about 18
5. Set attack switches to about 3
6. Set release switches to about 6
7. Set Ratio switches to 4:1 for compression (20:1 for limiting)
8. Switch Slam switches off (down position)
9. Set Monitor switches to GR
10. Switch on the 2176
11. Wait for about 1 minute to let the parameters stabilize

12. Play sound from your source
13. Turn the Input switches until the compression is satisfying
14. Turn the Output switches until the audio volume is right
15. If you need harder compression set the Ratio switches to a higher setting
16. To control transients turn the Attack switches
17. If you're looking for aggressive compression based on fast release, turn your Release switches clockwise
18. Remember that the Bypass switches are not hard wire bypasses

Typical usage:

- Great for any stereo groups
- Excellent for backing vocals
- Perfect for drums from any drum machine like AKAI MPC
- Can be used to compress stereo instruments (pads, leads)
- Also good for single vocals when using a single channel

Till this day no better vocal compressor has been designed! This is a professional device. Best results are achieved when recordings are made with a good microphone and low noise preamp. The 2176 can be used for compressing your mix if you're interested in extreme saturation. Some say that it can add a nice overload up to distortion.

Notice

1. No manipulation inside the device by any unauthorized person is allowed.
2. If you want to mount your device on a rack, then you may remove the four rubber stands from under the device.

Specification:

- 2 balanced XLR Line Inputs
- 2 balanced XLR Outputs
- +4dB operating level
- Maximum Output +29 dBV
- Gain reduction up to 20dB
- Max Gain 45dB
- Output impedance 600 Ohm
- Pure class A audio path
- Input balanced by High quality audio Op Amp
- Output transformers – Edcor 1:1
- Frequency response 20Hz to 20kHz; +/- 0.3dB
- Precise analog scales
- Ultra fast VU meters
- Internal power supply
- Mains consumption 55 Watts
- 230V/110V Power option
- Shipping weight 7 kg

Warranty

Warrants this device to be free from defects in material and workmanship for a period of three years. Any device found defective within three years from the delivery date and returned to the factory with transportation charges prepaid will be repaired, adjusted, or replaced at no charge to the original purchaser. This warranty does not cover expendable items such as tubes or fuses. If the defect has been caused by a misuse or abnormal operation conditions, the repair will be billed at a nominal cost