



ONE LA

USER'S MANUAL

IGS Audio Igor Sobczyk
3 Maja 76d, 41-400 Mysłowice, Poland
e-mail: igs@o2.pl ph: +48 601 597 592

www.igsaudio.com

Please read all of the following instructions and save them for later reference before attempting to connect the unit to the mains.

EARTH

This unit is connected via its power cord to the mains safety earth.
NEVER OPERATE THE UNIT WITH THIS EARTH CONNECTION REMOVED.

COVERS

DO NOT remove the covers. Refer servicing to qualified personnel only.

VOLTAGE

Equipment is set to operate only at the voltage indicated on the back of the unit.
CHECK that the correct voltage is selected before connecting the AC mains supply.

FUSES

CHECK that the fuse fitted is the correct type for the local mains voltage.
ALWAYS replace fuse with the correct type.

MOISTURE

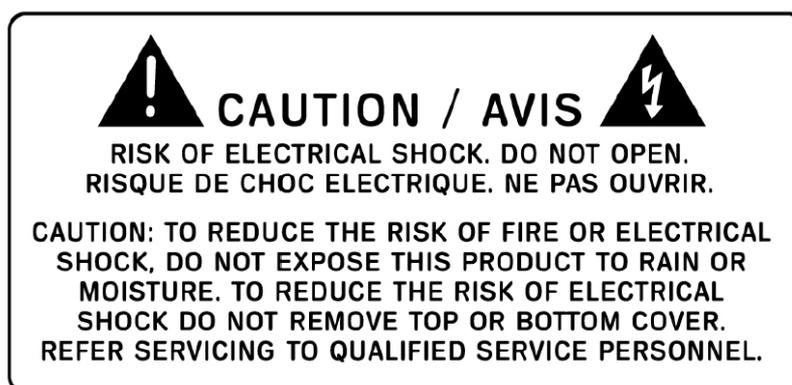
DO NOT expose the unit to rain or moisture. If the unit should become so exposed **REMOVE** the mains power immediately.

CABLES

PROTECT the mains power cord from damage through impact or abrasion.

HEAT

ALWAYS site the unit away from sources of heat including direct sunlight and ensure adequate ventilation around the unit.



Copyright 2014. All rights reserved.

The information in this document is subject to change without notice.

IGS Audio makes no warranty of any kind with respect to the material in this document and shall not be liable for errors contained herein or for incidental or consequential damages related to the use of the material.

Manual revision: 1.0 (December 2014)



Thank you for buying this IGS Audio product.

Please read the information provided below very carefully before using your IGS unit.

Unpacking

Your ONE LA has been carefully and meticulously tested and inspected before dispatch. Please check for any signs of transit damage. If any signs of mishandling are found please notify the carrier and your dealer immediately.

Your ONE LA packing should contain an ONE LA with IGS Audio tag and power cord and this manual with the Warranty and RoHS/CE/WEEE Declaration attached.

Compatibility and Power

There is a fuse socket near the power cable connector on the on the back of the unit. Ensure that the correct fuse is being used before plugging the ONE LA to the power outlet.

- For US area (115V) use 2A Slow Blow (Type T).
- For Europe and rest of the world area (230V) use 1A Slow Blow (Type T).

Always check the voltage selector on the back of the unit to ensure that it is set to the proper voltage available in your country.

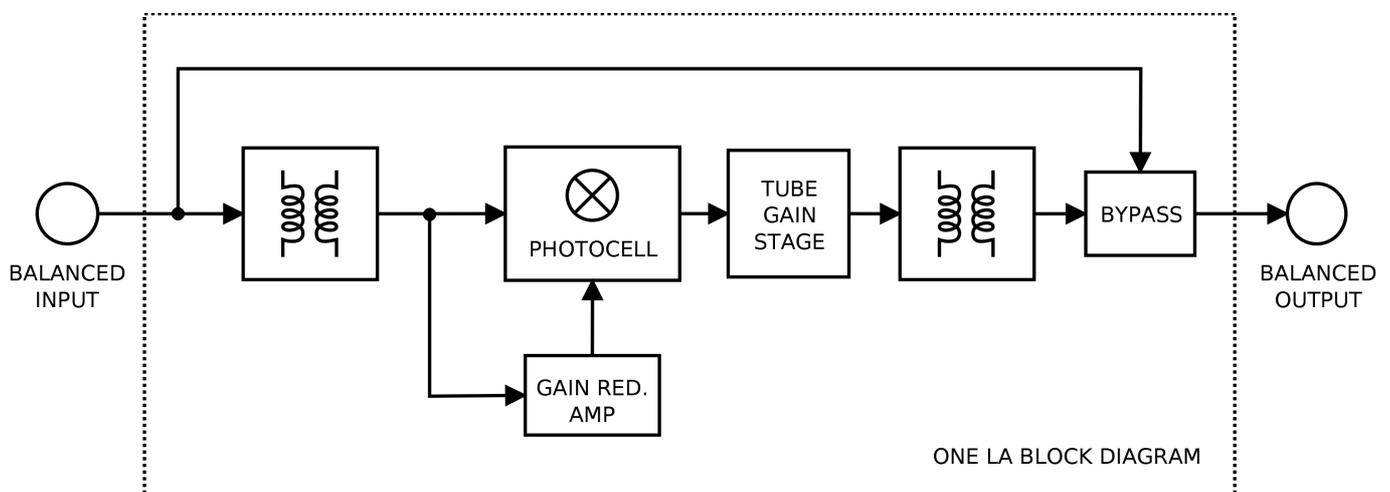
IGS AUDIO ONE LA – mono opto compressor

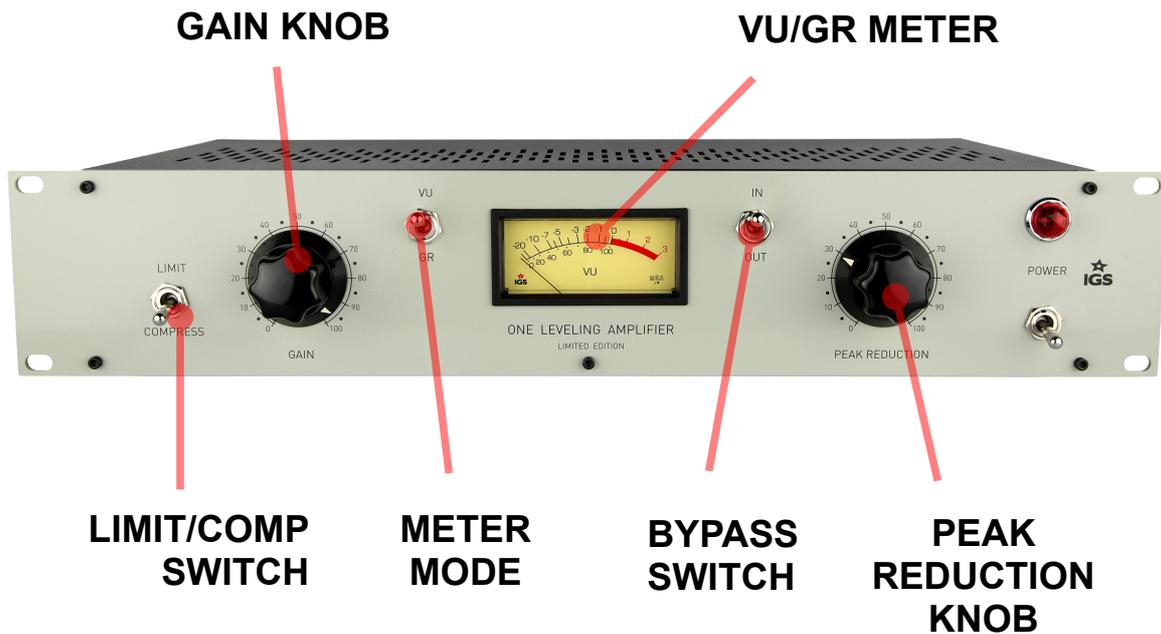
The IGS ONE LA is a photo-optical compressor, referring to the legendary solution of United Recording Electronics Industries. It is an input and output transformer balanced, full tube device. The input of the system is equipped with a Sowter 4383 transformer, the output with Ecor 15k/600. Two 6N2P-EW 6N1P-EW dual-triodes are installed on the audio circuit, while the compression circuit is equipped with the 6N2P-EW triode and the 6AQ5 pentode, that controls the work of the T4BX photocell. On the front panel you can adjust the output gain (GAIN) and compression threshold (PEAK REDUCTION). Additionally, you can select the operating mode between Compress and Limit. You can also set the meter to VU or Gain Reduction reading.

Inside the device are 4 tubes with 245V anode voltage. The system is mounted on a PCB, which results in short connections inside the device, improves the bandwidth and stability. On the rear panel the input and output XLR connectors have been installed. The whole device is designed to work with a symmetrical 4dBu signal.

It is known that in the case of ONE LA the nature of the device depends on the T4B photo-cell. The original solution used the TELETRONIX electroluminescent panel, that was illuminating the photo resistor. The idea of opto-compression originated in the past is still being cultivated today. IGS Audio has developed its own photocell equivalent to T4B called T4BX. The use of carefully selected components in the production of the T4BX photocell, and their individual measurement and matching, result in completely repetitive sound qualities of each device.

Block diagram





VU/GR METER Big VU meter showing either the amount of gain reduction or the output level of the signal

GAIN KNOB This is the make up gain knob. You can adjust the amount of signal at the output of ONE LA.

PEAK REDUCTION KNOB Also called REDUCTION knob – allows You to control the depth of dynamics reduction. It can vary from a fraction of dB up to 20 dB or more. The amount of reduction applied can be read on the VU meter.

LIMIT/COMPRESSOR MODE SWITCH This switch allows You to choose between Compressor (ratio fixed at 4:1; soft-knee) and Limiter (∞ :1 ratio) Mode. This two settings provide significantly different sonic qualities.

BYPASS SWITCH The audio signal passes thru the compressor circuit when this switch is set to „IN“. The „BYPASS“ setting causes the circuit to be taken off the signal path.

METER MODE SWITCH Choose between Gain Reduction or Output Level mode of the main VU meter.

ONE LA technical specification:

Operating Level	+4dBu
Maximum Input	+16dBu
Maximum Output	+18dBu
Input impedance	600 ohm
Output Impedance	600 ohm
Tubes Used	6N1P, 6N2P, 6AQ5
Max Gain Reduction	36
Maximum Gain	30
Attack Time	1ms
Release Time	0.5 – 5s (50% @ 60ms)
Frequency response	20-20k Hz (-0.1 dB, +0.4 dB)
THD+N @0dBu	85 dB (A)
Power consumption	40 W
Shipping weight	7kg
Dimensions	19" 2U, 230mm deep

Troubleshooting

My unit doesn't light up (the VU meter is dark):

- Please check the power cord and the switch at the front of the unit is in ON position
- Check the fuses

The signal plays thru but there is no change in signal when i turn the knobs:

- Please check the bypass switch

No signal plays thru the unit, regardless the settings at the front panel:

- Please check the cables connecting the unit.

Warranty:

This device is declared 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, will be repaired, adjusted, or replaced and sent to the customer with no charge. The customer always pays the shipping cost to us. 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. The product should be returned in its original package, if this is possible, or packed in such a way that it is not damaged during the shipment. We are not to be held responsible for any damages during the shipment. 19" units shall always be packed in a box with support for the rack ears. All 500 series modules need to be secured in ESD bag and protected with foam. We will charge the customer €20 + VAT if the packing material needs to be replaced. If we find that the product works perfectly, the customer will be invoiced €50 + VAT to cover our costs of examination and handling plus the cost for returning the product to the customer.

