

# Solid State Logic

O X F O R D • E N G L A N D

## UltraViolet Stereo Equaliser Module for 500 Series Racks User Guide



SSL Part Number : 82BPHM01B

Please recycle all packaging



FR

ÉLÉMENTS  
D'EMBALLAGE + NOTICE



FR

Cet appareil et  
son câble sont  
recyclables

À DÉPOSER  
EN MAGASIN

À DÉPOSER  
EN DÉCHÈTERIE



OU

Points de collecte sur [www.quefairedemesdechets.fr](http://www.quefairedemesdechets.fr)

## Safety and Installation Considerations

This page contains definitions, warnings, and practical information to ensure a safe working environment. Please take time to read this page before installing or using this apparatus.

### General Safety

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Do not expose this apparatus to rain or moisture.
- Clean only with dry cloth.
- Do not block any ventilation openings.
- Install in accordance with the rack manufacturer's instructions.
- There are no user-adjustments, or user-serviceable items, on this apparatus.
- Adjustments or alterations to this apparatus may affect the performance such that safety and/or international compliance standards may no longer be met.
- This apparatus is not to be used in safety critical applications.

### Caution

- This apparatus should not be used outside of the scope of API 500 series compatible racks.
- Do not operate this apparatus with any covers removed.
- To reduce the risk of electric shock, do not perform any servicing other than that contained in these Installation Instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

### Installation

- Ensure power is removed from the rack before fitting or removing this apparatus to or from the rack.
- Use the panel fixing screws supplied with the rack to secure this apparatus into the rack.

### Instructions for Disposal of WEEE by Users in the European Union



The symbol shown here is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

## Standards Compliance

This apparatus complies with international EMC and Safety Standards when installed in a fully compliant rack.

### UKCA

UK Electrical Equipment (Safety) Regulations 2016 (SI 2016/1101)

UK Electromagnetic Compatibility Regulations 2016 (SI 2016/1091).

The Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment Directive (RoHS2) 2011/65/EU.

### CE

EU Low Voltage directive (LVD) 2014/35/EU,

EU Electromagnetic Compatibility directive (EMC) 2014/30/EU.

The Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment Directive (RoHS2) 2011/65/EU.

### FCC

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Industry Canada

This Class B digital apparatus complies with Canada ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### Electromagnetic Compatibility

BS EN 55032:2015, Class B. BS EN 55035:2017.

### Electrical Safety

BS EN 62368-1:2014 + A11:2017, EN 62368-1:2014 + A11:2017, CSA CAN/CSA-C22.2 NO. 62368-1 2nd Ed, 2014.

### Environmental

Temperature: Operating: +1 to 30°C. Storage: -20 to 50°C.



## Limited Warranty

Please refer any warranty claim to the supplier of this equipment in the first instance. Full warranty information for equipment supplied directly by Solid State Logic can be found on our website:

[www.solidstatellogic.com](http://www.solidstatellogic.com)

## Introduction

Congratulations on your purchase of this API 500 format compatible SSL UltraViolet Stereo Equaliser Module. This module has been specifically designed to operate in a 500 format rack such as the API lunchbox® or equivalent. In common with many such modules, the nominal input/output level is +4 dBu.

The SSL UltraViolet 500 Series Stereo EQ takes the acclaimed minimum phase-shift EQ section from Fusion and puts it into the 500 Series format. The UltraViolet EQ takes things a little further than Fusion by adding two dedicated mid-bands, with a unique Focus control, for ultimate EQ flexibility. An ideal partner to the legendary 500 Series SSL Bus Compressor, the UltraViolet EQ draws on the SSL legacy of careful selection of frequencies and response curves to create a musical and intuitive EQ designed to quickly dial in a radio-ready sound for your mix.

## Operation

Please refer to the numbered front panel illustration.

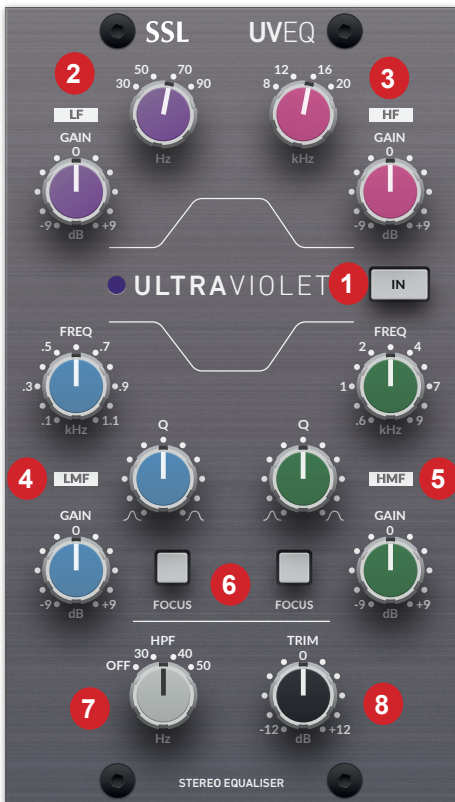
### IN 1

The IN button switches the entire module in and out of circuit on both Left and Right Channels simultaneously. The violet LED to the left of the name will illuminate when the unit is switched IN.

### LF 2 and HF 3 Sections

The frequency pots for each band are stepped. The LF band offers choices of 30Hz, 50Hz, 70Hz or 90Hz. The HF band offers choices of 8kHz, 12kHz, 16kHz and 20kHz. The gain pots are continuous, with indents at the 12 o'clock position (0dB) and allow for  $\pm 9$ dB of gain.

Full mixes tend to benefit from a modest amount of 30Hz, 50Hz or 70Hz to add weight, whilst 8kHz and 12kHz are good starting points for adding tasteful amounts of high-end.



## **LMF 4 and HMF 5 Sections**

The LMF band has a swept frequency control between 100Hz and 1.1KHz. The HMF band is also a swept frequency control between 600Hz and 9KHz. Each section has a variable 'Q' control (see FOCUS section). The gain pots are continuous, with indents at the 12 o'clock position (0dB) and allow for  $\pm 9$ dB of gain (again see FOCUS section).

## **FOCUS™ Switches 6**

Focus mode allows the user to 'hone in' on problem frequencies or specific frequencies they want to accentuate using the LMF and HMF sections. Pressing the 'Focus' switch in, automatically narrows the chosen Q setting further and increases the range of gain available beyond the normal  $\pm 9$  dB operation. This transforms this sweet sounding, musical SSL EQ into a more surgical tool.

## **HPF (High Pass Filter) 7**

The High Pass Filter section is an 18dB/Octave stereo filter with switched frequency options at 30 Hz, 40 Hz and 50 Hz. The OFF setting bypasses the filter circuit completely

## **TRIM 8**

The stereo TRIM control provides an output level trim adjustment with an indent at the 12 o'clock position (0dB) and allows for  $\pm 12$ dB of stereo gain trim. This is useful to adjust the module output level to compensate for significant gain increases in the EQ sections to avoid overloading devices later in the processing signal chain.



# Solid State Logic

O X F O R D • E N G L A N D

Visit SSL at:

[www.solidstatelogic.com](http://www.solidstatelogic.com)

© Solid State Logic

All rights reserved under International and Pan-American Copyright Conventions

SSL® and Solid State Logic® are ® registered trademarks of Solid State Logic.

SuperAnalogue™, Focus™ and UltraViolet EQ™ are trademarks of Solid State Logic.

All other product names and trademarks are the property of their respective owners and are hereby acknowledged.

No part of this publication may be reproduced in any form or by any means, whether mechanical or electronic, without the written permission of Solid State Logic, Oxford, OX5 1RU, England.

As research and development is a continual process, Solid State Logic reserves the right to change the features and specifications described herein without notice or obligation.

Solid State Logic cannot be held responsible for any loss or damage arising directly or indirectly from any error or omission in this manual.

**PLEASE READ ALL INSTRUCTIONS, PAY SPECIAL HEED TO SAFETY WARNINGS.**

E&OE

December 2022

Revision History

Revision V1.0, October 2020 - First Release

Revision V2.0, December 2022 - Second Release - Update Safety & Correct HMF