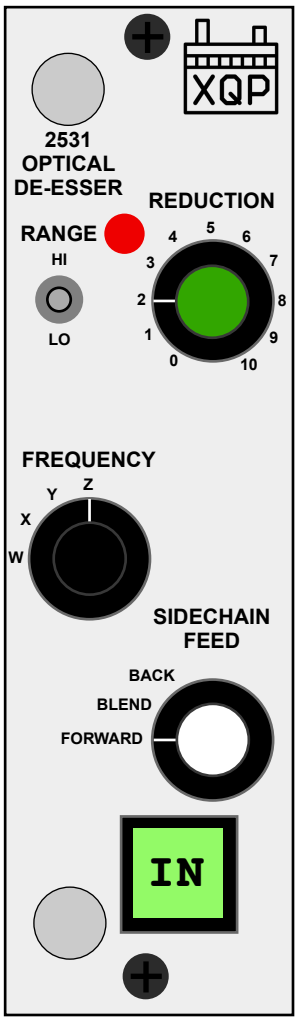
XQP 2531 Optical De-esser
USER GUIDE

2531-0401



	PINOUT
1	Chassis
2	+ Output
3	
4	- Output
5	Audio Common
6	
7	
8	- Input
9	
10	+ Input
11	
12	+ 16VDC
13	Power ground
14	- 16VDC
15	

A Few Specifications

Frequency response	-3dB @ 4Hz & 140kHz
Input impedance	50kΩ
Output impedance	50Ω
Sidechain filters:	W: 1.1kHz
	X: 1.7kHz
	Y: 2.5kHz
	Z: 3.6kHz
Current consumption:	65mA @ +/- 16VDC

INTRODUCTION

Thank you for purchasing the XQP 2531 Optical De-esser. This is a special edition commemorating the 25th anniversary of the design which began in 1997 with the Dane #31.

Like the 531 and 531A, the 2531 uses a high-pass filter in the sidechain, selectable by a 4-position rotary switch. The action is soft-knee, and speaking of soft, the "clean" mode in the 531A has been removed, and the "soft" mode, which is the traditional mode has been retained exclusively. During de-essing, the top half of the waveform is sloped a little asemmetrically, resulting in a softening of the sibilant additional to the gain reduction (there is some sibilance for you).

New to this model is a SIDECHAIN FEED switch which, in addition to the traditional feed forward mode, allows for feed back and a blend of the two for more options in tailoring the de-essing function. The REDUCTION control is also a rotary switch, coupled with a RANGE toggle switch.

The 2531 is a 500-series module, designed to fit into API's VPR-related products as well as those made by other companies. This device is currently pending approval by the VPR Alliance.

OPERATION

Two thumbscrews on the front panel are provided for convenient insertion/extraction from a 500-series enclosure. They align with the circuit board and thus with the edge connector at the back of the parent device. Two 4-40 screws are provided to secure the module with a #1 Phillips screwdriver.

The IN switch at the bottom will engage the de-esser (and light up green) by enabling the sidechain, so the audio circuit is always in effect (there is no hardwire bypass).

Set the FREQUENCY switch to the highest position (Z), and bring it down as needed to catch sibilance in the track.

The RANGE switch divides the operation of the REDUCTION control in half, so the entire range is from LO-0 to HI-10, with LO-10 and HI-1 being in the middle.

You might begin with the FORWARD mode on the SIDECHAIN FEED switch, as that is the way the 531 and 531A operate. Then, if you feel like the de-essing effect is too noticable, try the BLEND and BACK modes for more subtle action.

The red LED will glow corresponding to gain reduction.

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