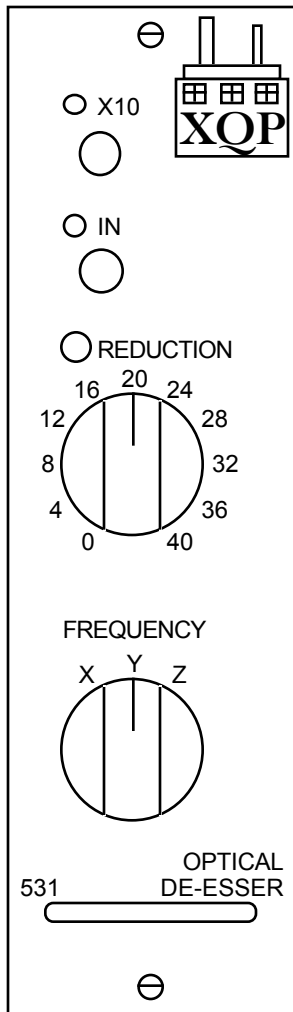


# XQP 531 Owner's Guide



## INTRODUCTION

Thank you for purchasing the XQP 531 Optical De-esser. The 531 is a high frequency limiter designed specifically for control of sibilance. It uses a pair of VACTROL® optoisolators to provide smooth high frequency gain reduction for natural de-essing.

The 531 is a VPR module (hopefully you are already aware of this) designed to fit into the common 500 series racks originated by API. It follows the standard API pinout.

XQP is a member of API's VPR Alliance, and the 531 is an approved APR Alliance product.

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

## OPERATION

The 531 is simple to use. The FREQUENCY switch allows you to select one of three cutoff points for the sidechain's high pass filter. These points, labeled X, Y, and Z (long before it was realized that XQP would be making this product) are in the area of 3, 5, and 7KHz respectively. As mentioned, the filter is high pass - not band pass. This ensures that all sibilance occurring above the selected frequency point will be dealt with by the optoisolators. You are not forced to home in on a very narrow frequency band. Simply select the highest of the three points that allows adequate sibilance reduction.

The amount of gain reduction is adjusted with the REDUCTION control in conjunction with the X10 switch. The X10 switch multiplies the sensitivity of the sidechain by a factor of ten, allowing the 531 to be used effectively on low level signals. With a +4 signal, it allows all consonants to be totally obliterated, guaranteeing loss of employment, so use with caution. The red LED lights up when gain reduction is taking place in the same manner as the LEDs in the optoisolators, providing a meter of gain reduction.

Finally, the IN switch activates the sidechain. Disengaging this switch silently bypasses the unit, although the audio path remains active.

## WARRANTY

The XQP 531 Optical De-esser is warranted for ten years from the date of purchase. You do not have to fill out the enclosed warranty card, but we would appreciate the info. You may also register your 545 online at [www.xqpaudio.com](http://www.xqpaudio.com).

## SPECIFICATIONS

Input impedance:	43K $\Omega$ balanced
Output impedance:	50 $\Omega$ balanced
Frequency response:	4Hz - 90KHz (-3dB)
Max. output level:	22dBu
THD:	<0.002% @ 1KHz
Noise:	-80dBm, unweighted
Attack time:	10msec.
Release time:	18msec.
Current requirement:	86mA @ $\pm$ 16VDC

We think you will find the 531 a very smooth and unobtrusive sibilance controller. We have not attempted a surgical device here, but a musical one. We believe that subtle processing is the best approach for this task. After all, you don't want to eliminate sibilance, but reduce it. We don't *think* you want to eliminate it, but it's a free country.

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