XQP 531 Optical De-esser

500 Series VPR Module

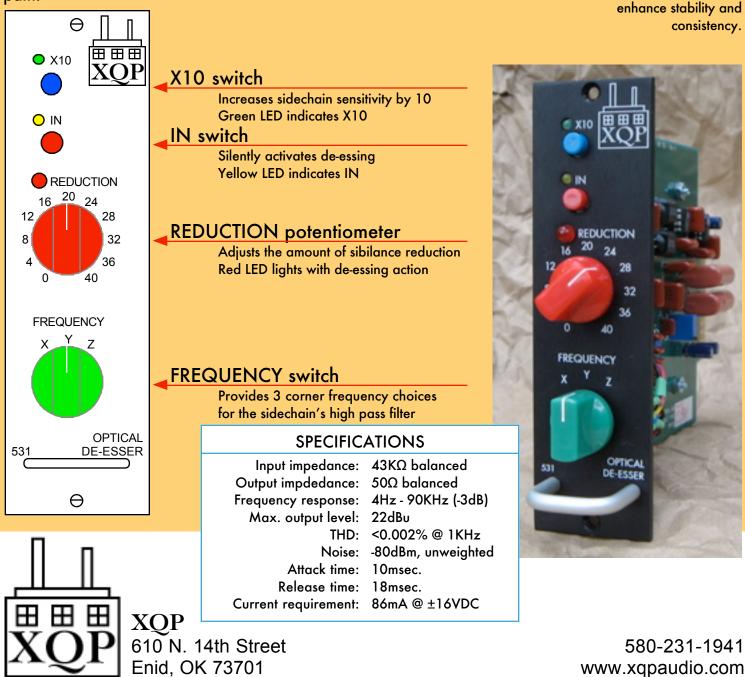
The XQP 531 Optical De-esser provides smooth, non-destructive deessing in the convenient VPR format. Dual VACTROL optoisolators insure consistent optical gain reduction when sibilance is present. The 531's sidechain utilizes a high pass filter with three selectable corner frequencies (rather than a narrow bandpass filter), so sibilance occurring at different frequency points can be effectively reduced.

The XQP 531 is a recreation of the original Dane Optical De-esser #31 designed and manufactured in the 1990's.

Minor circuitry adjust-

ments have been made to

The 531 is built with high-quality Analog Devices opamps in the signal path.



Enid. OK 73701

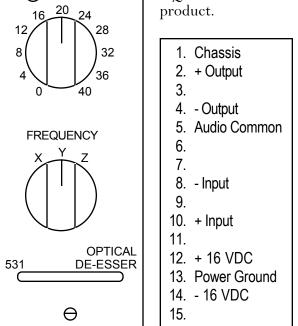
XQP 531 Owner's Guide

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 orginated 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.



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SPECIFICATIONS

Input impedance:	$43K\Omega$ balanced
Output impedance:	50 Ω 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 @ ±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.

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 consonents 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.

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