

# CATWEAZLE XY Feedback ScanHead

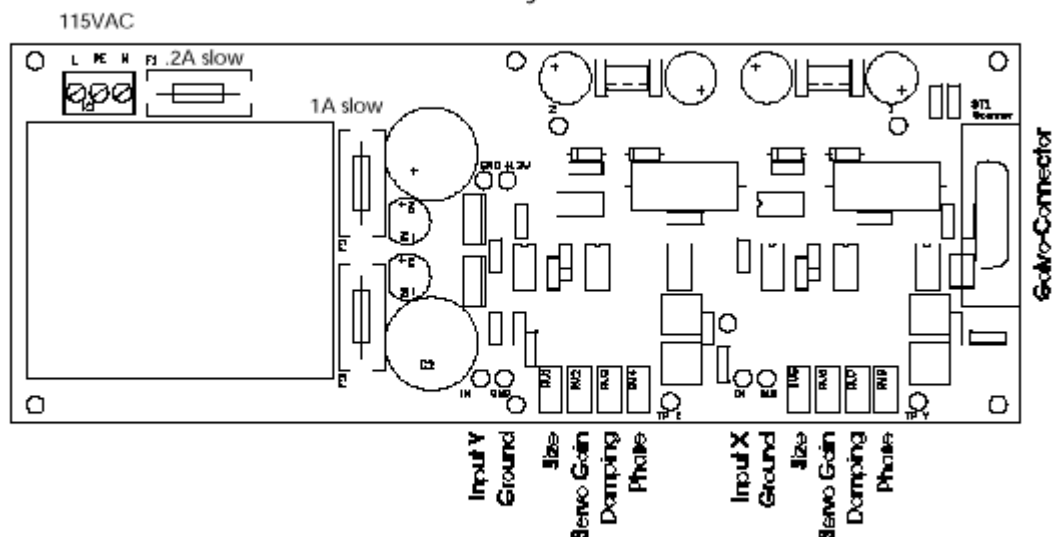
The CatWeazle is a small scan unit for low cost alternative projector systems. Intended for red diode lasers, new doubled YAG's, and ion lasers up to 10 watts, these scan engines can be used for graphics, beam launches, and fiber-remote projectors. They are galvanometers without fragile torsion bars with a scan-angle of 40 deg. optical. Very good performance is attained for mid-speed scanning up to 18,000 pps. The compact driver layout for two channels XY is a big feature allowing for small container installations. The unit requires +/-18VDC unregulated which is provided on standard models with a built-in potted unit. Therefore, the user need only supply the X and Y signals and 110VAC or 220VAC.

User tuning includes adjustable servo gain, damping, phase and input gain. A special dynamic damping circuit prevents galvos from over shooting at wide angles but increases speed at small angles.

## User Attention Notes:

- \* Always ground driver on a metal plate. Driver requires metal plate for ground wiring.
- \* Always wire the galvanometers with a ground cable to the driver's ground. Never run galvos without extra ground!
- \* Do not use more than +/-10V input signal to avoid damage to the scanners.
- \* Never run the driver without required cooling mount (coming with driver).
- \* Never use the scan unit for other things than it is designed for.
- \* Supply only the recommended voltage to this equipment. Supplying any other voltage could cause a fire or electric shock.
- \* It is dangerous to use this device if any sign of malfunction is apparent, such as strange noise, unusual odor, or smoke. In such cases, immediately turn off the power.

Driverboard layout, vers. 1.2



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