

Plug 'n' play laserprojector

catweazle

VX



The CATWEAZLE VX is the latest child of the CATWEAZLE family. It is one of the most powerful and affordable projectors of all times, since it is fully plug and play compatible with the international ILDA-tech standard. The input is designed as DB25 connection, ILDA compatible. A powerful YAG offers incredible visibility also in large ambients. It's fully modulatable power supply makes an additional mechanical blanking unnecessary.

Ready to go

The system comes ready to go. Just plug it into the wall, connect the ILDA standard connector with a 1:1 cable to your ILDA standard output of your software, and start doing your laser shows. It is so easy. No mounting, no screwing, no suttering. The cable from the computer to the CATWEAZLE VX can be almost as long as you want - depending on the achitecture of your software output card. For example: Pangolin's QM2000 can handle up to 50m or 150 ft. of cable lenght. It is not even necessary to use shielded cables, but it is recommended.

Use it at every power voltage

The CATWEAZLE VX has the capability to run at the standard 230VAC or american 115VAC. The settings are done at the factory. There are no user settings necessary.

Use it with every software

Due to the open input structure, the CATWEAZLE VX can be used with almost every existing lasershow software on the market. It is tested with:

- LaserPainter Live!
- SCANplus Evolution for DOS
- SCANplus Evolution 98 for Win
- Pangolin LD32 and LD2000
- Lasergraph DSP
- Lacon III / III+
- X29
- Full Auto

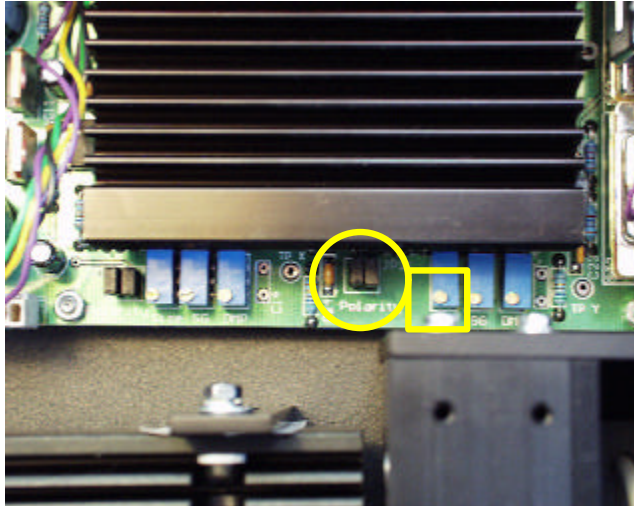
This does not exclude other software packages. As long as you have analog outputs, CATWEAZLE VX will be compatible.

Factory settings

The CATWEAZLE VX comes with adjusted laser, scanner drivers and power supply. It is set up for ILDA standard voltage of +/- 5V peak to peak. At full input, the deflection angle will be approx. 40 degrees optical.

The scanners are set to 30k ILDA speed at 8 degrees optical deflection.

Invert input channels / Adjust input channels



Some software packages like SCANplus Evolution for DOS require inverting of the Y-channel. The driver board contains an inverting circuit on every channel. To invert one channel, you need to remove the head cover of the CATWEAZLE VX.

Make sure the unit is not plugged into the wall outlet. Now remove the 4 screws, which holds the head cover. Two on the back, two on the bottom.

The inverting jumpers are located on the driver, as you can see on the picture, marked with a circle. To invert the channel, just remove both jumpers and put them back in at 90 degrees rotation.

To adjust the input voltage, which allows to change the deflection angle also, the trim pots "Size" are suitable, marked with the rectangle. Turn clockwise: Increase angle. **WARNING!** Increasing output size may damage your scanners. No warranty on those cases.

Now add the headcover again, lock the screws and go.

Connector pins

DB25 male connector:

1:	X input +
2:	Y input +
3:	Blanking input +
14:	X input -
15:	Y input -
16:	Blanking input -
29:	Ground

Connect to symmetrical (balanced) output sources

To connect the CATWEAZLE VX to symmetrical output sources at original ILDA standard, just use a 1:1 cable. You don't need to connect the ground wire, just use it for shield.

Connect to unsymmetrical (unbalanced) output sources

To connect the CATWEAZLE VX to unsymmetrical output sources, wire the X-channel to X input +, the Y-channel to Y-input Y. Put both X input - and Y input - to ground. Use a shielded cable and watch out for ground loops between your computer and the CATWEAZLE VX.

Technical datas:

Operating voltage:	230VAC / 115VAC at max. 80VA
Environment:	Room temperature 15 - 28° C
Input voltages:	5-5V (10V peak-peak)
Max. Scanspeed:	30.000 pps at 8° optical angle ILDA standard
Max. Deflection angle:	45° optical angle, set to 40° optical angle
Laser wavelength:	532nm bright green
Laser power:	150mW max. output power, laser class 3b
Laser warmup time:	10-15 minutes
Laser stability after warmup:	5-15%
Weight:	Approx. 4.5kgs

Troubleshooting

Q: Internal fuse keeps blowing

A: Check your deflection angle. Mirrors should not hit against stop.

Q: Output inverted

A: Open case and change jumper settings

Q: Picture is jumping

A: Probably a ground loop. Check your wiring and connect power source to the same phase. Try to lift ground.

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