

STEREOPLATE MODEL 2

The StereoPlate consists of three large LCD glass plates in a frame which fits over the front of three tube video projectors. When the video output of the projector is connected to the StereoPlate drive box, they switch the polarization of every video field into right or left circular polarized light. When the video or graphics consists of field sequential stereoscopic pairs, and a suitable polarization preserving front or rear screen is used & viewers wear circular polarized paper or plastic glasses, a true 3D image will be seen. Note that special circular polarized glasses are necessary. These glasses are incompatible with the commonly used linear polarized glasses used for 3D movies. The StereoPlate drive will take NTSC or PAL video or TTL input. TTL must be 0-2.4V with half frequency positive polarity marking odd or even interval.

One the side of the driver is a switch for 50Hz PAL & 60hz NTSC or 80 to 120Hz TTL for synching with computer output. DC adapter will work at 105 to 120 volts AC at 50 to 60Hz & uses less than 5 watts.

SET UP

1. Attach the StereoPlate securely in front of the three lenses of the projector (make sure "Top Front" sign faces screen).
2. Connect the video or TTL input & flip the 2 position switch to the correct position.
3. Start computer with stereoscopic program or VCR with 3D tap.
4. Switch on power of video projector & adjust for focus & screen size.
5. Plug in StereoPlate Driver, put on your 3D glasses.
6. If image is pseudoscopic (right & left eye reversed), flip polarity switch.

ADJUSTMENTS (normally unnecessary)

1. Close first right then left eye to insure that the two images match in color & brightness. If they do not, use a 2D tape or 2D computer program for comparison.
2. If image is unsteady or right & left eye reverse, adjust tracking of VCR. If this does not cure the problem, you may need to use a different VCR or run the video through a time base corrector.

ELECTRICAL CHARACTERISTICS

Right-left field contrast ratio-better than 30:1. Switching time less than 0.3msec. Frequency 50 to 120Hz. Video sync 1 to 1.5 V positive peak to peak. Input impedance ca. 1 Kohm. TTL: 0 to 2.4V, ca. 200Ohm. Driver uses 30V at 100ma & 12V at 20ma.