

MODEL 100 STEREOSCOPIC MULTIPLEXER

The Model 100 Stereomultiplexer will interlace (multiplex) video from any two genlocked composite NTSC, PAL or SECAM sources to the field sequential RLRL format. It will also accept various types of computer generated video in the range of 30 to 120 Hz.

Video out from the right and left pair of cameras into the right and left pair of BNC connectors farthest from the mono/stereo switch. Field sequential 3D for viewing or recoring is obtained from the BNC nearest the mono/stereo switch. The three positions of the mono/stereo switch provide left camera, right camera and multiplexedfield sequential 3D. Plug any of our wired LCD glasses into the mini jack in the front of the unit for stereo viewing. Multiple glasses can be accommodated with standard stereo headphone splitters.

The StereoMultiplexer is 100Ohm terminated. Your monitor should be unterminated. If image “jumping” is observed when viewing with glasses with or without recording or during playback, check termination. If “jumping” persists, check video levels.

For using the unit to play back tapes, put video into the BNC farthest from the mono/stereo switch. Tapes made with this unit are compatible with all other hardware and software from 3DTV Corp.

The cameras must be properly genlocked. With some cameras simply running VBS from the other camera will achieve this, but others will require that both cameras receive external sync from a sync generator. Most modern industrial and professional cameras do not require a separate sync generator. Camera salespersons and even engineers for the camera manufacturers often unknowingly give false or misleading information on genlock. Some 30 units have been delivered and problems on set up have usually been due to improperly genlocked cameras. You can test the Model 100 by running the video out of one camera into a Distribution Amplifier to split the signal (you may not use a Y). Radio Shack sells a suitable 1 to 3 DA for \$30. Run two video outs from the DA to the two video inputs of the Model 100. You now have a certain genlocked camera “pair”. In all 3 switch positions, you should see a clear, steady 2D picture from the video out.

For good results, it is critical that all parameters of both cameras match precisely, including exposure values. Signal levels of the two cameras should be closely matched. Even if irises are set alike and cameras match to the eye, there may be significant differences in video level. Autoirises are slow and can cause problems when cameras or subject are moving or illumination is varying rapidly. The new “on chip” electronic iris cameras are recommended.

Power is 9 volts DC at minimum 100 ma., center positive. Unit will operate at lower amps and even for more than 3 hours on a 9V transistor battery, but the current drain is higher when the glasses are plugged in and ghosting (partial bleed through of both camera images to both eyes) when viewing with the glasses unless the 500ma supply is used. If the image is recorded however, the ghosting will not be present.

PCB is shock mounted on rubber grommets. Unit has been marked since 1990 and has been sold to various agencies of the U.S. Government.

Dimensions:

Both Model 100 and 200 are in a gray aluminum box 1.25x3.25x5.5 inches with the front switch protruding 0.5 inch and on Model 100, 3 BNC's protruding 0.5 inch. Model 200 has a DB25 connector and an external/internal sync switch on the side protruding 0.4 inch.

Warranty:

Units are guaranteed for 90 days parts and labor.

Terms:

Prices are F.O.B. 3DTV, San Rafael, Ca.. Service charge of 3%/month will be added to overdue balance. Products are warranted for 90 days from date of delivery provided product has not been accidentally or deliberately abused. Products may be returned for full refund minus freight charges provided they are received in good working order in original packaging within days of shipping date. These warranties are in lieu of all others express or implied and 3DTV makes no representation of the suitability, quality or performance of its products except as stated in the product literature. In no event shall 3DTV be liable for indirect or consequential damages resulting from the use of its products or from any error or defect in the product or documentation. In no event shall 3DTV's liability exceed the price paid for the product.