

MagicBox ALPHAGEN

Video Overlay Genlock Model MW01

Installation Instructions

Introduction

The MW01 Genlock allows your Alphagen to display text over an incoming video source. The genlock also provides the Alphagen with a high-quality S-VHS output in addition to standard composite video. The unit is powered by the Alphagen and requires no external supply.

Connections

IMPORTANT: Do not connect or disconnect any devices while the power to your Alphagen is turned on. Remove power before performing these instructions. Failure to do so may cause damage to your unit.

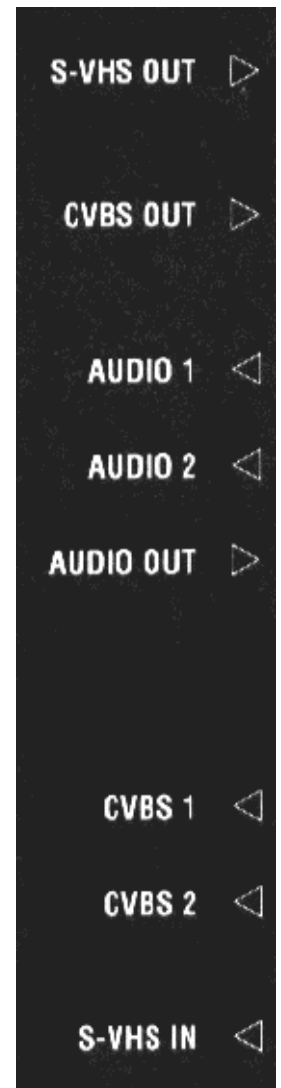
Using the supplied 23-pin 12" extension cable, connect the genlock's "To Alphagen" connector to the "RGB / Genlock" connector on the rear of the Alphagen. Connect the 9-Pin connector from the genlock to the "GPI" port on the rear of the Alphagen. The genlock will not function unless both connections are made to the Alphagen.

Connect the incoming video signal (the one you want to overlay text on top of) to the connector marked "CVBS 1". The outgoing signal will be available both at the "CVBS OUT" (Composite) connector and the "S-VHS OUT" connector. Select whichever one is appropriate for your application.

Important Notes About Incoming Video Signal

The MW01 genlock requires a stable incoming video signal or sync source. Unstable sources (such as VCRs) or sources which are not present full time (such as a satellite signal which may be interrupted), must first be run through a timebase corrector which provides a full-time, uninterrupted video output. Contact your MagicBox dealer/distributor for more information on low-cost timebase correctors.

The source video signal must be present before you turn on your Alphagen, or the genlock will not detect it. Further, if the source signal is interrupted or lost for more than a few seconds, the genlock will switch to a fall back mode where it displays only the Alphagen's output. A restart will be necessary to re-acquire the source signal. This situation should not arise if your incoming signal is timebase-corrected.



Description of Connector Functions (From Left to Right)

"To RGB Monitor"

This connector is provided for future expansion to connect (via an adaptor) to VGA-style monitors. There are +5, +12, and -12 voltages present at this connector, so it is very important to keep this connector free of any objects that might short the pins. Any attachments to this connector will void the Genlock warranty along with the Alphagen warranty.

"S-VHS Out"

Provides an S-Video output of the video signal.

"CVBS Out"

Provides an NTSC Composite output of the video signal. This is the output normally used in most applications.

"Audio 1", "Audio 2", "Audio Out"

These connectors are reserved for future expansion and are not currently used.

"CVBS 1"

This is where the incoming video source is connected. See the notes on the previous page regarding the incoming video signal.

"CVBS 2", "S-VHS IN"

These connectors are reserved for future expansion and are not currently used.

"To Alphagen"

This is the main connection between the genlock and your Alphagen unit, using the 23 pin extension cable supplied with your genlock.

Programming the Alphagen

After the Alphagen has booted and is running your project, you will probably not see your incoming video signal - just the Alphagen pages. This is because by default each page is set to completely take over the display. On a page-by-page basis, you may enable the incoming video to "show through" as the background behind the Alphagen text.

Open your Alphagen manual to Chapter 4. The section under F6 talks about selecting the Page Background. Under the Page Background menu there is a mode called "Video Overlay". All that is needed to set a page background to Video Overlay is to highlight that mode and press <RETURN>. The Page Display Region will instantly reveal the incoming video source.

Genlocking a region (crawl text, time and date, etc.) is possible so that only the text (without the solid color background bar) appears over the background video. There are several modes you can use. Consult Chapter 4, Section F8, "Region Attributes" for additional information.

Support

Please contact us if you require assistance setting up or operating your new Genlock. The MagicBox technical support number is 541-752-5542, open 9am to 5pm Pacific Time.