

**AVE MOD V2.2
USER GUIDE**

SOURCES:

You can use different video sources, it just need to output a composite signal with an RCA connector (or SCART by using an adaptor).

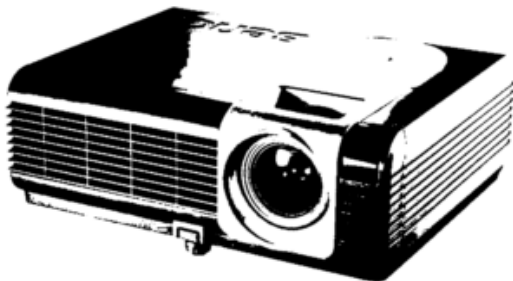
- Video game console
- Camera (useful for feedback)
- DVD player
- VHS player
- VGA/HDMI to RCA converter (useful to use video from a computer and quite often PAL/NTSC compatible.)



MONITORS:

There's also a few options for the monitor.

- CRT TV: gives warm colors, pretty tolerant to heavy glitches (sync signal corruption). Most recent CRT TV (with a silver/grey case) seems to be less tolerant however, it displays an OSD thing like "AV1" and drops to black when signal is too corrupted. Some are NTSC/PAL compatible so there might be an analogue to digital conversion at the input of the TV, which would explain their weaker tolerance. Some also have a flat screen which is useful when recording with a camera.
- LCD TV: works as long as it has an RCA composite input. Possible loss of signal when signal is too corrupted, depends of the screen, some are more tolerant than others.
- Videoprojector: a common solution when VJing, work as long as it has an RCA composite input. Has the same problem as the LCD, signal loss (with possible blue screen, not cool when VJing) when it's too intense.
- Video capture card: useful to display on a computer screen (streaming/recording), suffer the same problem as the LCD/videoprojector.



We can see that every time the video signal has to be converted to digital (it's also true for a RCA to VGA/HDMI converter), if it's too corrupted, converters must have trouble interpreting it resulting in a black/blue/frozen screen.

Solutions:

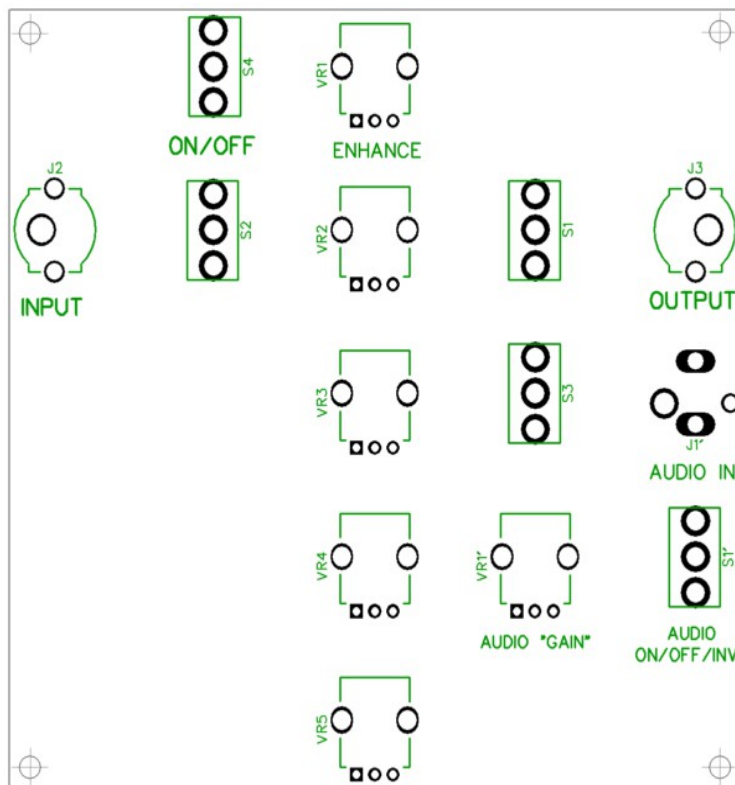
- Do not use effects that are too intense (it's frustrating and not a solution)
- Time base correction: will restore the sync signal and stabilize it. There is some standalone device like this one, and some mixer have on-board TBC, and VHS player also. Results vary, the Panasonic WJ-AVE5 mixer freeze a part of the screen when the glitch is too heavy and reproduce well the sync corruption effect, the Videonics MX-1 TBC is less interesting, mine displays an image that is half black/half white when the signal is too corrupted. Check what works best with your setup.
- Rescanning: film a CRT TV screen to record directly or send the output of the camera to an RCA/HDMI that can be plugged in a video projector or a capture card.



II. Guide:

To put the enhancer to 0 (no effects, only enhancer)

- S4 is up (ON)
- VR1 max.
- VR2 center
- (S1 and S2 doesn't have any effect since VR2 is centered)
- VR3 minimum
- (S3 has no effect since VR3 minimum)
- VR4 minimum
- VR5 center
- S1' center (OFF)
- VR1 minimum



The effects:

- VR2's min and max position result in 2 effects alterable by S1 and S2.
- VR3's max result in an effect alterable by S3, possible loss of synchronisation at the end of the pot.
- VR4's max result in an effect, possible loss of synchronisation at the end of the pot
- VR5's min and max result in 2 effects.

Audio:

- Audio input jack 3.5mm mono (J1')
- S1' centered, OFF, video circuit doesn't react to audio.
- S1' up, the circuit react to the envelope of the audio signal at the input.
- S1' down, the circuit react to the inverted envelope of the audio signal at the input.
- VR1' modify the amplitude of the envelope.