



THANK YOU KINDLY FOR YOUR PURCHASE OF THE  
**BPMC TOUCH**  
BY BIG PAUPER FOR BPMC 2021  
**GLITCHART.COM**

*PLEASE NOTE: MANUAL REVISED TO REFLECT LATEST BUILD.  
MANUAL INCLUDES INFORMATION PERTINENT TO PAST BUILDS AS WELL.*

*NTSC RCA STANDARD DEFINITION COMPOSITE VIDEO  
POWER SUPPLY: INTERNAL. 110V ONLY.*

**NOTE: FOR USE IN 220V-240V COUNTRIES A STEP-UP  
CONVERTER IS NECESSARY. NEVER PLUG THE AVE3 DIRECTLY  
IN TO THE WALL.**

**NOTE:** DEVICE INTERFACES NICELY WITH ALL DISPLAYS.  
PROJECTION DROPOUT DOES NOT OCCUR.

**NOTE:** NO ANALOG CORRUPTION OCCURS SO  
NO NEED FOR ANY TIME BASE CORRECTION.

**FEATURES:**  
*KNOB BASED GLITCH FX  
TOUCH BASED CORRUPTIONS  
MAGNET BASED CORRUPTION FX  
SINGLE CHANNEL  
AUDIO VISUALIZATION  
ONBOARD CHANNEL FX  
SUPERIMPOSE LAYER  
CV INPUTS  
COLOR CORRECTION  
OPTIONAL TITLER*

*"As a glitch video tool designer the ave3 can be rather overwhelming. It contains within it a pretty wide variety of fx unique to this circuit and very limited layout possibilities. My goal with the revised twenty twentyone edition of the Touch was to give you intuitive, thoughtful control over as many dope glitch looks as design permits. By relocating some elements on the control board and by using space-saving magnet based patch points I've crammed about as much functionality as I could into this mod. I hope you find it a rewarding and inspiring voice from which to speak through."*

*- The Big Pauper aka Pig Bauper aka the Great Paupino.*

### **International Use:**

Unless I have actually sourced a PAL 220v ave3 for you, and we have discussed this, then you will need both a switchable NTSC/PAL converter & a 110/220v step-up/step-down converter. BPMC can in no way be held responsible for any damage incurred by the improper powering of the Touch Deluxe. Running this thing on straight 220v wall power WILL blow it up. If this accidentally occurs however fret not, immediately unplug the unit and locate the fuse on the power PCB. It is a very common fuse and you can locate it at most hardware stores all the world over. Just look for the identifying markers on the fuse or better yet bring it with you to the hardware store. If you have any international user questions please do not hesitate to contact me.

### **Time Base Correction:**

The Touch is safe for stable usage with projectors and does not require the use of a TBC unit. That said, the Touch does not contain a TBC and will therefore not handle analog glitch video signals all that well. When running glitch gear directly into the AVE3 it is highly likely that a TBC will be necessary for stable results.

### **Image B&W?**

If your image is black and white but you can still see color output when you use the color corrector then you are having signal strength issues. This is common with the popular but cheap HDMI2AV converter and various digital to analog converters.. If this is the case try putting a mixer or TBC in between the suspect converter/source and the ave3. I use a cheap generic security device for this purpose. A quad channel video processor. Search the internet for a "4 Channel CCTV Video Quad Splitter" or "4 Channel CCTV Video Processor." They should run you under 40USD and feature some cool effects in themselves.

### **Onboard functionality:**

The original functionality of the AVE3 is pretty fantastic and I've left it all intact as Panasonic intended it. No functionality has been omitted. No functionality pertaining to the audio mixing capabilities of this unit have been tested and are therefor not guaranteed. For questions pertaining to the original functionality please consult the original owner's manual. It's out there on the internet easily accessible.



## Control Elements in a Nut Shell:

### **Knobs:**

To utilize the knobs turn one knob up and then turn another one up. You are completing a connection between two glitch points. Think of each knob as a glitch point. You get different results by feeding different glitch points into one another.

### **Body contacts:**

Next to the knobs are sets of body contacts. They work by taking ONE finger and touching both the gold contact and the silver contact at the same time. Aim for the meat of your finger and if you are having trouble getting results breath on your finger a little bit to moisten it (sorry to use that word). The contacts have a sweet spot and it is not necessarily about pressure. You many combine sets of contacts by using multiple fingers at the same time. I find this shit highly expressive and highly enjoyable. Zen out.

### **Magnetic points:**

See those two sets of dots? Well it's an effect waiting to be discovered. Use the included magnet to complete the connection by simply placing it on the set of dots. When you want to dock the magnet and not use it tack it on the two dots on the far the far left of the tack sets.

-The set of magnetic points above the color correction controls the flow of CV into different points on the joystick controller. The corresponding CV input is the second CV input below the joystick. This function works best with a simple slow moving 0-5v oscillator.

-The separate sets of magnet based switch controls are glitch color fx processing effects that can be stacked upon one another and expanded upon via the utilization of the onboard color fx processing. Experimentation is the key here.

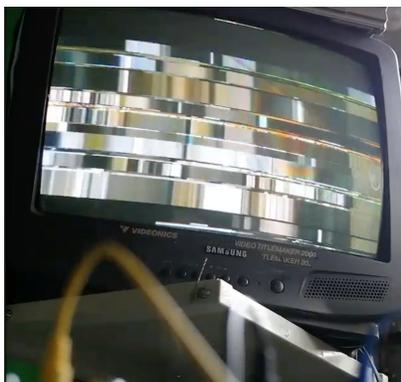
## Audio Impulse mode:

The Touch can take an incoming audio signal and drive a glitch effect with it. It can take a tiny bit of work to dial it in but once you get down the basic process you are golden.

1. **You need to take your audio source and amplify it. You cannot simply plug an iPod into the Touch, you must significantly boost the signal.** I highly recommend acquiring a modern era 2-4 channel mixer and dedicating it for use with your Touch.. I use a little Behringer XENY mixer. While I have no endorsement deal with those guys I've found that to be a rad generic and cheap little mixer. Typically you want to get your output signal lightly peaking in the yellow.
2. **Plug the mixer output into the LEFT 3.5mm input below the joystick. This input is also the CV input.** You can not combine CV effects and audio effects.
3. You are now inputting audio into the line that combines the 8 knob based glitch fx. **Turning up a knob now delivers audio to that glitch point on the AVE3** and thus creates audio based visualizations.
4. You can mix and match and combine knobs however for the best results one knob at a time produces the most sufficient and effective audio visualization results.

## CV Impulse mode:

Instead of plugging audio into LEFT 3.5mm input try plugging a CV source like a 0-5V ramps, function generator, melodic sequencer output, etc. Search out the harmonics. Please note that LZx sources will need to be amplified out of the 0-1V range via the BRIDGE utility.



Thanks and hit me up with any and all questions!

Cheers,

**The Big Pauper**

2021

<http://glitchart.com>

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When trying to contact me about questions and repairs please do not contact me via social media accounts. Contact me via [bpmc@glitchart.com](mailto:bpmc@glitchart.com) for the quickest service. Thank you kindly for your support!