

# VIDEO NASTY LMTD.

Hand-modified Analog Glitch Video FX Processor constructed by the Big Pauper.

**THIS IS THE USER MANUAL.**

*MANUAL LAST UPDATED DEC 25TH 2021*

[GLITCHART.COM](http://GLITCHART.COM)

[@BPMC\\_GLITCH](https://twitter.com/BPMC_GLITCH)

## **PRODUCTION HISTORY**

First run: 2021 (50 Video Nasties in total)

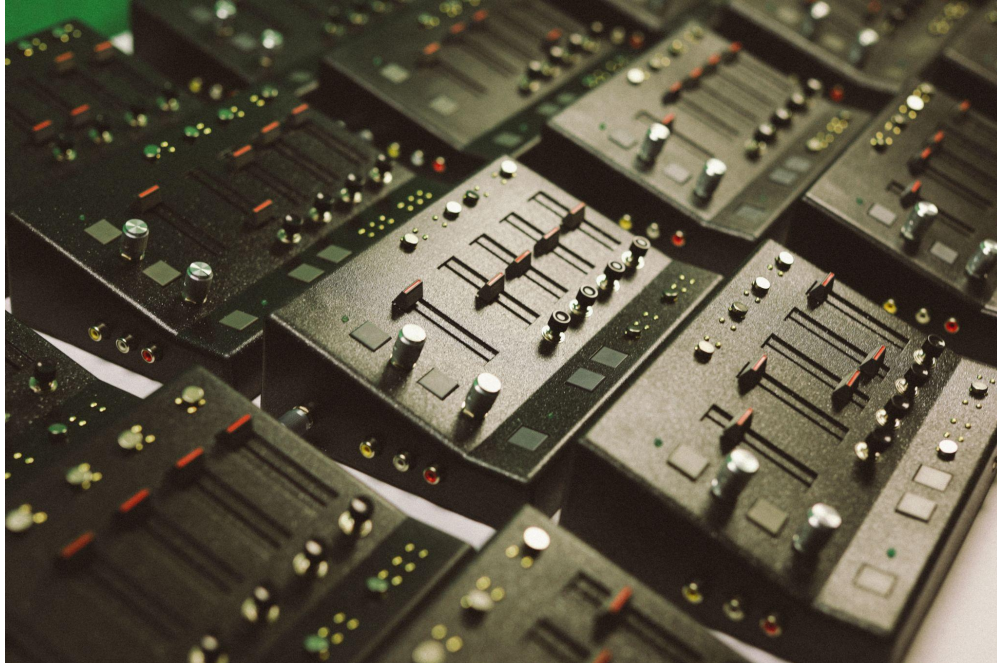
Second run: 2022 (25 Video Nasties in total)

## **MANUAL HISTORY:**

*Updated December 25th, 2021.*

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## INTERNATIONAL USERS.

A 110-240v auto-switchable power supply is required to power this unit. It must cover this range to function properly. Power requirements: DC 12v 300ma-1A (anything in this range). Center/TIP positive. BPMC is not responsible for damage occurred via improperly powering the Video Nasty.

## BUILT WITH CRT USE IN MIND:

This Video Nasty was designed to be displayed on a CRT TV. Computer/digital capture was not even considered or tested in the creation of this device. I highly recommend rescanning your CRT with a DSLR for best results, however, by all means.. Enjoy all methods of capture.

## NTSC/PAL FORMATS:

The Video Nasty can handle both NTSC and PAL signals however you cannot cross formats without the use of a format converter.

## MAGNET WARNINGS:

Magnets can and will cause data loss on credit cards, hard drives and various electronic components. Be mindful of where you position them in relation to your valuables. BPMC is not responsible for any and all magnet related mishaps.

## SLIDER CAP RESEATING:

Plastic molding was used in order to keep the caps raised from the surface of the Nasty so that they don't scratch the paint job with repetitive use. Slider caps should not come undone unless under heavy duress (potentially via international shipping). If a slider cap comes undone just put a **SMALL** dab of super glue on the end of the slider pole and fit the cap back on tightly. Let it sit for 24 hours and you should be good. Really and truly, you only need the tiniest dab. Do not put more plastic molding in the caps.

## FADER CLEANING:

Each NASTY ran through a rigorous slider pot cleaning regiment. First each fader was hit with a heavy dose of canned air. Second a dose of Deoxit Fader F5 cleaner. If that didn't do the trick I would then couple it with a little DeoxIT D5. These products work wonders and I recommend them should any of your faders continue to give you guff.

## MAGNET TACK CONNECTIONS:

If the results you are getting from a magnet placed on a set of tacks is a little scratchy, first lightly scratch at the tip of the tacks with a pair of scissors or a needle. This is in an effort to remove any tape residue that may be left behind gumming up your sweet sweet connection. Second, consider using heavier magnets. The heavier the magnets, the more reliable the connection, but try step one first.

## MAGNET REPLACEMENT:

You may lose some magnets over the years. Fear not! These magnets are not special. They are **neodymium 0.315 disc magnets**. They can be obtained at any hardware store and can often be purchased as a ten pack. Consider buying some backups in case some go flying off into the night.





### AUTHOR'S NOTE:

"The Video Nasty is my little homage to the art of circuit bending. I felt the spirit of those early daze hunched over an exposed delay pedal on a dirty old carpet flow through me as I first drilled into this thing. I will be the first to admit it, the Video Nasty is more of an art object/curiosity/studio piece than it is a device you would drag to gigs around the world with you. It's magnetic components make it cumbersome for travel and low light operation. It's lack of labeling means you often need to consult the controls sheet until things get committed to memory. The sliders, after years of use and despite my best cleaning efforts, can be a little stiff to operate. All that said, I went where the process took me and while the design is a bit curious I stand by it. It would have been far easier to slap some knobs on the side of the unit and call it a day but I wanted to create something unique that repurposed the original controls in a creative way (the sliders were originally all for audio mixing). It meant a lot to me to reuse those amazing center tapped slider pots and while I was disappointed with their 10k value in relation to the range of the effects, the 1k slider attenuation knobs for SLIDER B & C helps you squeeze every ounce out of those effects. This design was more painstaking than usual, with each unit taking me on average 8 hours from start to finish. From the fresh paint job, to cutting over thirty PCB traces to the elaborate wiring on each center tap slider (to give you the optional pushbutton interruption)... these things were a labor of love that I hope you get some decent self expression out of. *Alright, I've already said more than enough. I'll have a demo video posted in the New Year giving folks a deep dive on the NASTY but in the meanwhile this manual should be enough to get you started.* Thanks so much for your support as BPMC enters into it's next phase of operation. Peace!" -Paup 2021

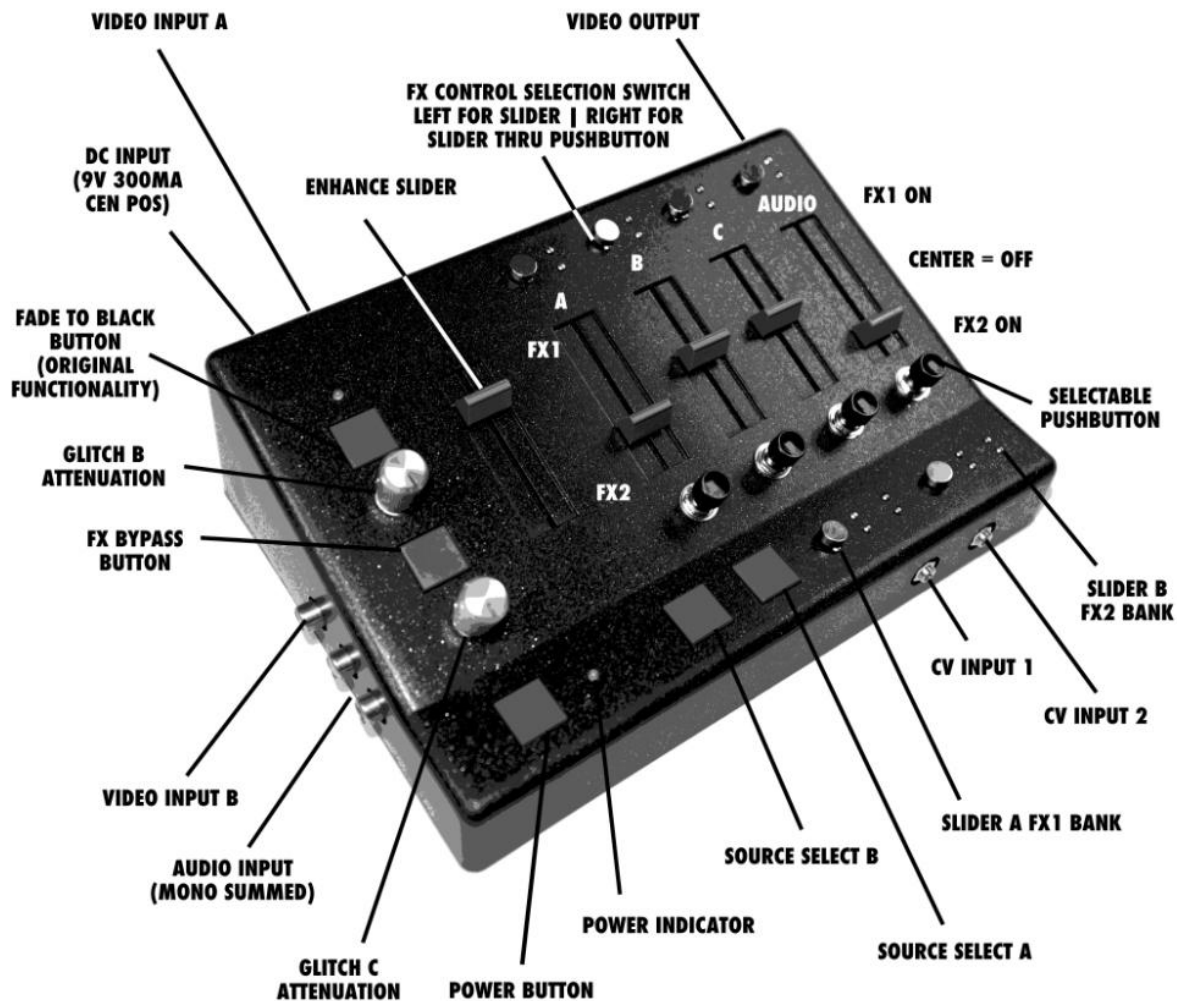


## STRATEGY:

The basic idea is this... **Glitch functionality is dependent on the position of the ENHANCE slider.** One by one try each effect out while exploring the relationship each effect has with the ENHANCE slider. More often than not an effect looks it's best with ENHANCE at north, but sometimes it looks better at 85%... sometimes it appears it's wildest at 0%. It depends on the effect or effect combination. This is the basic idea however. Explore each effect's relationship with the ENHANCE slider.

## SLIDER VS PUSHBUTTONS:

I haven't had a percussive glitch video fx processor since the Fritz Telegraph Mini back in 2012-2013. The reason being I never found a particularly nice pushbutton to work from. So many of them are either cheap and break easily or they are stiff and anti-percussive (like the power button on the Basic Cable). Back in the day I opted to do up those handmade brass key buttons but they are far too time consuming. Logan at T+ recommended these and I am indeed enjoying them. They have an immediate start time and a high switch use rating. **To route a slider into it's corresponding pushbutton just move the magnet above the slider from the LEFT to the RIGHT.** Now the pushbutton is required to turn on an effect. Please note a magnet needs to be present on the tack-set above a slider for the slider effect to function.



## CONTROLS:

**SLIDER A: (100% ON - 50% off - 0% ON)**

Push Slider A all the way UP and you have engaged the left bottom row of 3 FX. Your first effect, from the left, is a white ringing effect that varies nicely on the top half of the ENHANCE knob. Your second effect is a seemingly strange variation on the white ringing effect with black highlights which creates a bit of instability depending on your content. This is also the heart of the “Extra-Nasty Video Nasty Ringing Effect” outlined below. The third effect is a soft rainbow feedback reminiscent of that Archer video processor circuit everyone seems to love. A lot of really lovely looks are possible with this one.

Push Slider B all the way DOWN and you have engaged the right bottom row of 3 FX. Your first FX from the left is a fine line ringing look with rainbow highlights depending on the ENHANCE slider position and the source content. On some Nasties ENHANCE at 100% with this effect creates a black screen but pulling it back to like 95% gets you the effect. This is normal and only present on some Nasties. The second effect is a variation on the white ringing with black



highlights effect however the effect only occurs at 100% and pulling it down past 95% gets you a cool scrolling band (great for throwing in percussively). The third effect is a repeat of the white ringing effect with the ENHANCE fader at 100%. Moving that past 90% gets you a chaotic jumble of 5meo-DMT video noise I once again find useful in the percussive context.

#### SLIDER B: (100% ON - 50% off - 0% ON)

Slider B in the UP position gives you a damned fine sync corruption effect. One of my favorites in all video hardware. It's got really nice character about it. On a small assortment of Nasties this effect occurs when the ENHANCE knob is at 100% and on the majority of Nasties it does not occur until at 80% and below.

Slider B in the DOWN position gives you a really nice lo-fi extrusion effect. Something I used to call hi-fidelity lo-fi. The ENHANCE knob does not do much at 80-100%. You need to starve it. Bringing it all the way down to 0% creates the most pronounced look.

SLIDER B IS FURTHER limited BY THE SLIDER B ATTENUATION KNOB. COUNTERCLOCKWISE OFF. CLOCKWISE ON. Resistance value is 1k. This is super handy for dialing in the effect when in combination with other knobs.

#### SLIDER C: (100% ON - 50% off - 0% ON)

Slider C in the UP position activates a rather severe black and white extrusion effect. DOWN gives you a variation on it which is a little less obscure.

SLIDER C IS FURTHER limited BY THE SLIDER C ATTENUATION KNOB. COUNTERCLOCKWISE OFF. CLOCKWISE ON. Resistance value is 1k.

## ACHIEVING THE EXTRA NASTY VIDEO NASTY RINGING EFFECT:

Ringling is not new, it's popularity is however. In video diagnostics manuals dating as far back as the 60s edge feedback of all shapes and sizes has been called "ringing." You see it mentioned here and there, often in an undesirable context. Technically, a lot of analog "glitch" video effects are variations on ringing. Over 70 percent of the e-mails I receive are from folks looking for "that line-y effect on X instagram account." Ringing! Let's get the proper name out there. The Video Nasty has a very delightful flavor of ringing achieved via a combination of multiple knobs. To reproduce the effect please follow these steps. Please note, results may vary based on display.

Leave the ENHANCE fader fully engaged and SLIDER A, B & C in the NORTH position. Make sure both SLIDER B & C attenuation knobs are all the way up (clockwise) initially. SLIDER A's effect selection should be the middle one... the messy white ringing effect with the black highlights (most often found in the middle). Now starve the SLIDER B attenuation knob until the ringing artifacts appear. It is very touchy dialing it in as it bounces and jitters a bit but once you find it you should have no trouble repeating the effect. Please keep in mind that this effect is content sensitive. Folks will be rewarded for tailoring their content for this effect.

## AUDIO VISUALIZATION SLIDER: (100% ON - 50% off - 0% ON)

Let's get into the audio visualization component of the Video Nasty. The Video Nasty audio inputs on the side of the unit are optimized to take VHS/DVD/Cassette player output and produce crude ruptures to the incoming decibel level. Audio output from devices like mp3 players, smart phones etc may need external amplification from a standalone mixer. To activate simply slide the AUDIO fader fully NORTH to 100%. There is no way in-unit to really increase or decrease the distortion level. You will need to adjust the output on your audio source. Sliding the fader SOUTH to 0% gives you an audio visualization variation. With this effect activated slide the ENHANCE slider slowly down to 0%. You should see your clean signal disintegrate into audio impulse based smithereens. I find this useful for certain situations.

With either audio visualization features activated you can combine the other glitch effects in hopes of greater complexity.

To simply increase the audio of your signal plug into both L & R audio inputs on the side of the unit. Your signal is then mono summed and creates more pronounced visualizations.

## CV INPUTS:

The Video Nasty has two experimental CV inputs. They are set up to respond best to 0-5V signals. Do not send TRIG signals. There is no CV level control. I find that one CV input responds best to oscillations and the other responds best to ramps from a module like the popular Make Noise Maths. The one effect is very controlled and essentially functions as a second hand moving the ENHANCE slider up and down within a range of about 40% (when sending it oscillator output). The other is more chaotic and experimental. In wiring up the CV I gave you both of these points but paid no mind to which one went where so you will have to experiment with which one is which and which one you find more useful. Do not exceed values greater than 10V.

## EXPERIMENTAL IDEAS:

How about using the Video Nasty to process mixer feedback? How about using the Nasty to process internal LZX signals? How about using multiple magnets (by reversing the polarity on the magnets when in close proximity) on the SLIDER A FX selectors? How about using an alligator clip with leads to connect magnets on the SLIDER A FX selectors? How about using the Video Nasty to process audio via the video i/o? Get freaky already!



## FOR THOSE OF YOU WITH KNOBS REPLACING SLIDERS:

I do apologize however this guarantees you the same functionality as any other unit. The sliders are not parts that I can easily replace and the number of Sima SFX2 circuits that I am upcycling is very limited. Your Video Nasty is still fully functional and the knob has been optimized to behave like the slider it is replacing. 100% ON (all the way counterclockwise)... 50% OFF.... 0% ON (all the way clockwise).

## TROUBLESHOOTING:

### NO SIGNAL?

Are you sure you are plugged into a yellow RCA jack and not superfluous audio jacks?

Are you sure you don't have video input and output reversed?

Are you sure you have the correct source button selected?

Are you sure FADE TO BLACK is not selected (green light is lit)? This is the most common signal related mishap and it has faked me out numerous times.... "g'damn it, this circuit is fucked, why oh why?!? ... oh wait... I'm a dingus."

Are you sure the unit is on? (Pressing BYPASS should still produce a signal without power and does not indicate that the machine is ON).

### POOR RESULTS?

Try a different source. Try different cables. Try different displays. Try different capture methods. Try different content.

### NO AUDIO VISUALIZATIONS?

Is your signal loud enough? If not, try boosting it with a standalone mixer.

Is your magnet present? If so, make sure the connection is good by checking for residue on the tack set with a fingernail or scissor tip.

## REPAIRS AND QUESTIONS:

Believe your Nasty needs a repair or have a question that is not outlined here? Drop me a line at [bpmc@glitchart.com](mailto:bpmc@glitchart.com) or on instagram at [@bpmc\\_glitch](https://www.instagram.com/bpmc_glitch) and I'll do my best to get back to you in a timely manner. I do not look at my computer every day (often only a couple times a week to ensure that orders are being knocked out) and BPMC is a one man show so please do not take it personally if I do not write back promptly.

FINE.