SIEGEL - ELECTRONICS

SIEGEL-ELECTRONICS
Sales dept.-Box 39
Midwood Station
Brooklyn N.Y. 11230

Dear Friend,

We are enclosing literature about our new video and electronic products. We hope you will find something that can be of help to you in your video work.

For 3 years we have been making the P.C.S. and, even though it looks the same on the outside, we have been constantly improving the inside for performance that is far superior to any other colorizers.

This year we are introducing the G.P.A. which combines features of a video processing amplifier, mixer-fader, image enhancer and gen-lock, in just one unit. This is why it's not just a proc-amp. It's intended for people who want to edit their tape fast, economically and with professional looks without a complicated set-up. All the knobs you need to turn are right out front, neatly in a line, labeled and big enough for human hands to turn. The G.P.A. is a full color video processing amplifier: capable of correcting any video signal that can hold on a monitor and convert it to E.I.A. format. The only other process needed to broadcast your signal is time base correction, and that is usually supplied by the TV station. Check the G.P.A. against othervideo processing amplifiers for features and price. You will find our price is low because we have low overhead, producing mostly on orders, and in most cases, we sell direct to the user. Normally orders are processed in a week, if we have stock, otherwise we build your unit for you as fast as possible, not longer than 60 days.

If you are ordering less than 25 miles from New York City, place your order through ADWAR VIDEO CORP. 100 Fifth Ave. New York. N.Y. 10011. Please send all other orders to SIEGEL ELECTRONICS, Sales dept. Box 39, Midwood Station Brooklyn N.Y. 11230.

Please make all payments to: Eric Siegel. Use only Express money orders, bank drafts, or Non-personal checks. A 10% deposit is required on C.O.D. shipments. Shipping charges are paid by the purchaser.

A copy of our warranty is available upon request. it is standard.

Yours Truly,

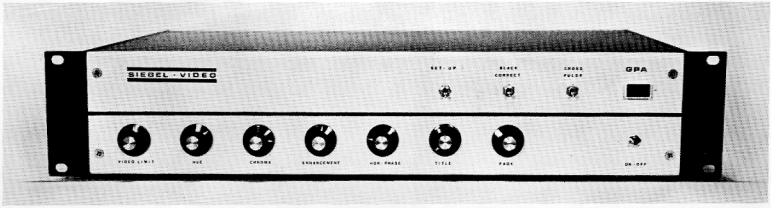
Eric Siegel

Eric Siegel Pres.
SIEGEL-ELECTRONICS

ES/rjm

Genlock Processing Amplifier

SIEGEL-ELECTRONICS



MODEL A - B

FEATURES

- **GENLOCKED CAMERA (MIX) IN**
- **SYNC & BLANKING REGENERATION**
- **E.I.A. SYNC OUT**
- **BLACK BURST**
- **IMAGE ENHANCEMENT**
- **AUTOMATIC DARK CURRENT CORRECTION**
- **KEYED CLAMP D.C. RESTORATION**
- **AUTOMATIC VIDEO LIMITING - NOT A.G.C.**
- **"PEAK WHITE" SET-UP SWITCH**
- **SYNC LEVEL REGULATION**
- **COLOUR CORRECTION (MASTER TINT)**
- **CHROMA LEVEL**
- **CROSS PULSE OBSERVATION**
- **EXTERNAL CAMERA PLUGS INTO GPA**
- **AUTOMATIC COLOR CONTROL**

APPLICATIONS

The GPA represents a new breed of video equipment. It is a full-fledged video processing amplifier, capable of recovering video signals that were previously thought hopeless. Any video signal that can hold on a monitor can be processed with the GPA to the EIA-RS-170 standard video broadcasting format. Since many time-base correctors require a "decent" signal to begin with, the GPA is the perfect link between economy production and quality broadcasting or video publishing. But the GPA is more than a video processing amplifier. It's a video production system. It has a video connector on the back that allows you to connect a Sony-type AV-3400 video camera, for genlocking white video titles, with a non-additive (as in expensive switcher faders) video mix. On the front of the GPA there is a title fading control, which allows you to fade titles in and out. It has a fade control that allows your "tape" signal to be faded to black with burst and sync remaining undisturbed. It has a built-in video limiting system, which works much better than video AGC. It has a compensating circuit that corrects for the dark current error, inherent with vidicon cameras used under dark conditions, thus improving contrast and photographic realism. It has built-in image enhancing for increasing the sharp alive look. A horizontal phase control is included on the front panel to allow perfect overlapping of non-standard video formats with the RS-170 standard. It fills in when sync drops out momentarily. It gives you a cross pulse display on a standard monitor so you can adjust tape tension exactly, and with the GPA you don't need a scope to use it. You can correct tint and color saturation, and run monochrome tapes in the "black burst" mode for editing monochrome tapes with color ones. You get a peak white set-up switch so you can calibrate your video levels before recording. The knobs on the outside of the GPA are for production personnel. The adjustments on the inside are for engineering personnel. Thus, you don't need to be an engineer to use it. The GPA is constructed with standard electronic parts, and uses high reliability computer technology. While your recorder will grow obsolete fast, your GPA will remain a long-time friend.

The GPA is available in two models:

GPA Model A - Regular (Price: $2600)
GPA Model B - Studio Model (Price: $3100)

They are identical in performance, however the Model B is intended for studio production where all the drive outputs are required, and a video bypass switch is included for convenience. All GPA's are updateable to their more sophisticated later models.

SPECIFICATIONS

POWER REQUIREMENT	117 Volts, 50 - 60 Cycles, Less Than 70 Watts.
CONNECTORS	3 Through 11 BNC Connectors and One Sony 10 Pin Camera Connector.
CONTROLS	Video Limit, Hue, Chroma, Enhancement, H-Phase Title, Fade.
SWITCHES	On-off, Set-up, Black Correct, Cross Pulse Term., By-pass (opt.).
DIMENSIONS	3½" (8.8 cm) H, 19" (48.3 cm) L, 12" (41 cm) D.
WEIGHT	14 lbs. (4.5 kilos).

Manufactured By:

SIEGEL-ELECTRONICS

P.O. Box 66
Ft. Hamilton Station
Brooklyn, N.Y. 11209 / Tel. (212) 836-6938

Distributed By:

Genlock Processing Amplifier

SIEGEL - ELECTRONICS

FEATURES

- **GENLOCKED CAMERA (MIX) IN**
- **SYNC & BLANKING REGENERATION**
- **E.I.A. SYNC**
- **BLACK BURST**
- **IMAGE ENHANCEMENT**
- **AUTOMATIC DARK CURRENT (BLACK LEVEL) RESTORATION**
- **D.C. RESTORATION**
- **AUTOMATIC VIDEO LIMITING - NOT A.G.C.**
- **"PEAK WHITE" SET-UP SWITCH**
- **SYNC LEVEL REGULATION**
- **COLOUR CORRECTION (MASTER TINT)**
- **CHROMA LEVEL**
- **CROSS PULSE OBSERVATION**
- **EXTERNAL CAMERA D.C. POWER**
- **P.A.L. VERSIONS AVAILABLE**

MODEL A

The G.P.A. provides virtually every operation you'll need working with video. To reiterate some of its many features: Genlock camera mix in allows you to non-additively mix a signal from an external camera, (Sony type camera connector provided on rear panel) which can be used to add backgrounds, titles or new action during editing. The camera's power is supplied by the G.P.A. Black burst enables you to add colour burst, regardless of whether the input is colour or monochrome. This eliminates monitor colour lock-up problems or tapes that will have monochrome and colour interedited. Automatic dark current restorat[ion] determines where the input's black level is supposed to be, then clamps it to .26 volts. This eliminates that washed-out grey l[ook] that accompanies so many low-light tapes. Automatic video limiting (this is *not* an A.G.C.) will only lower the gain (selectively) whenever the input's level would cause the output's level to exceed 1 volt p-p. (it will never turn a low-level signal into a contrasty mess of snow). Thus, the output's level and video-to-sync relationship is always correct. The peak white set up switch gives a 100% white (saturated) video signal, so VTR levels may be correctly set. (For proper operation the VTR's A.G.C. is switched *off*). Colour correction, (master tint) allows chroma phase distortions to be corrected. Cross pulse observation allows output or input sync to be observed *on any monitor.* E.I.A. sync-of course. From anything you put in.

As you can see, the G.P.A. provides you with features the others haven't even thought of, features you can't get no matter what the price. We think you will find it the final solution to any video problem you can come up with. As always, custom options are available.

SPECIFICATIONS

Power requirements:	117 volts 50-60 cycles
Power consumption:	70 watts
Input/Output connectors:	BNC, and Sony type camera connector.
Output voltage:	1 volt p-p @ 75Ω.
Dimensions:	with rack mount brackets, 48.3cm L x 8.8cm H x 41cm D without rack mount brackets, 42.5cm L x 8.7cm H x 41cm D add 8mm to height for rubber feet, depth measurements made with all connectors in place.
Weight:	4.5 Kilos

Price: Standard G.P.A., as of _____, $ 2200

Distributed by:

Processing Chrominance Synthesiser

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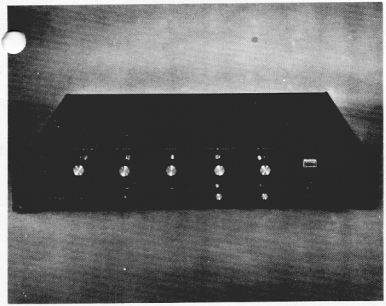

FEATURES

- **REGULATED POWER SUPPLY**
- **RECONSTRUCTED SYNC AND BACK PORCH**
- **WHITE PEAK LIMITER**
- **WELL DEFINED COLOURS**
- **KEYED CLAMP D.C. RESTORER**
- **BLACK LEVEL CONTROL**
- **LUMINANCE CONTROL**
- **DETAIL BOOST**
- **BLACK BURST OPERATION**
- **CHROMA LEVEL ADJUSTABLE FROM 0 to 100%**
- **COLOUR PHASE ADJUSTMENTS**
- **INPUT COLOUR TRAP**
- **FUNCTIONS AS BASIC PROC AMP**
- **P.A.L. VERSIONS AVAILABLE**

MODEL 100

The P.C.S. adds synthesised N.T.S.C. colour to any monochrome or colour video signal. (a filter is included to remove any pre-existing chroma signals) The P.C.S. operates by modulating a locally generated (chroma) subcarrier with the input signal thusly generating colour from grey scale. The P.C.S. is a chrominance *synthesiser,* and will not necessarily re-create or reproduce original colours from monochrome video, however reasonable facsimilies can be created in many instances. Some uses to which the P.C.S. has been put are: colourising graphics, abstract video art, adding colour to black and white titles, etc, and is currently being used by many colleges and individuals in the U.S. and Canada. The P.C.S. can also be used to generate "black burst", (monochrome video with colour burst) for inter-editing monochrome and colour tapes. The P.C.S. also functions as a elementary proc amp, regenerating sync and back porch, and providing a white peak limiter, keyed clamp D.C. restoration and detail, black level and video level controls. The P.C.S. is simple to use, having just video in and out jacks. *It does not require anything else.* Custom options, such as external subcarrier, external sync, 240 volt operation, P.A.L., etc. are available, let us know what your needs are.

SPECIFICATIONS

Power requirements:	117 volts A.C. 50 to 60 cycles
Power consumptions:	40 watts
Input/Output connectors:	BNC.
Termination:	loop through or 75 Ω, switchable.
Signal input voltage:	.5 to 5 v p-p.
Signal output voltage:	1 v p-p @ 75 Ω.
Dimensions:	with rack mount brackets, 48.3cm L x 8.8cm H x 29cm D without rack mount brackets, 42.5cm L x 8.7cm H x 29cm D add 8mm to height for rubber feet, depth measurements made with all connectors in place.
Weight:	4 kilos

Price: Standard P.C.S., as of _____ $ 1400

Distributed by:

ADWAR VIDEO CORPORATION
100 FIFTH AVENUE
NEW YORK, N.Y. 10011

Jan 9, 1976
SIEGEL - ELECTRONICS
Sales dept. - Box 39
Midwood station
Brooklyn, N.Y 11230

Woody and Steina Vasulka
257 Franklin st.
Buffalo, N.Y. 14202

Dear Woody and Steina:

I hope all is well with you both. What are you creating these days? I havent done any tapes, but maby one this year it will be short, only 25 miniuts.

Most of the time I am keeping my business going and the G.P.A. is finally developed and Im selling them. I thought you might be interested in it. The next time you are in N.Y.C. I can show you one working. If you want one I will give you a 15% discount, off the regular price what ever it is at the time. The boards are printed and they can be built fast because of that.

The thing I think would interest you most about it is that it can correct any signal that will hold on a monitor, even tapes that are slightly off frequency. There is no count down circut in it, instead a sofisticated system of phased locked loops, one shot pulse filter circuits, and pulse forming circuits. The results is an E.I.A.-RS 170 sync format. Please read the orange sheet carefully, it is the finest engineering work I ever did.

If you know some group that might want it I will supply more to you at the 15% discount, so you can make some side money.

Also you can help me with suggestions about video equipment you think is needed, but not made, or perhaps additions to the G.P.A. Forinstance some people requested the G.P.A. function as an EIA sync generator when no input signal is present...if I find interest on this idear, I will start adding that circuitry.

Im Intersted hearing from you, and what your doing these days.

Sincerly
Eric Siegel