TRIPLE PLL VGA OSCILLATOR

VGA OUT

VCO OUT

CV

CV

VERTICAL IN

CV

VCO OUT

CV

CV

CV

HORIZONTAL IN

VCO OUT

FREQ

FREQ

FREQ

VERTICAL AMOUNT

VER HOR SYNC

VER HOR SYNC
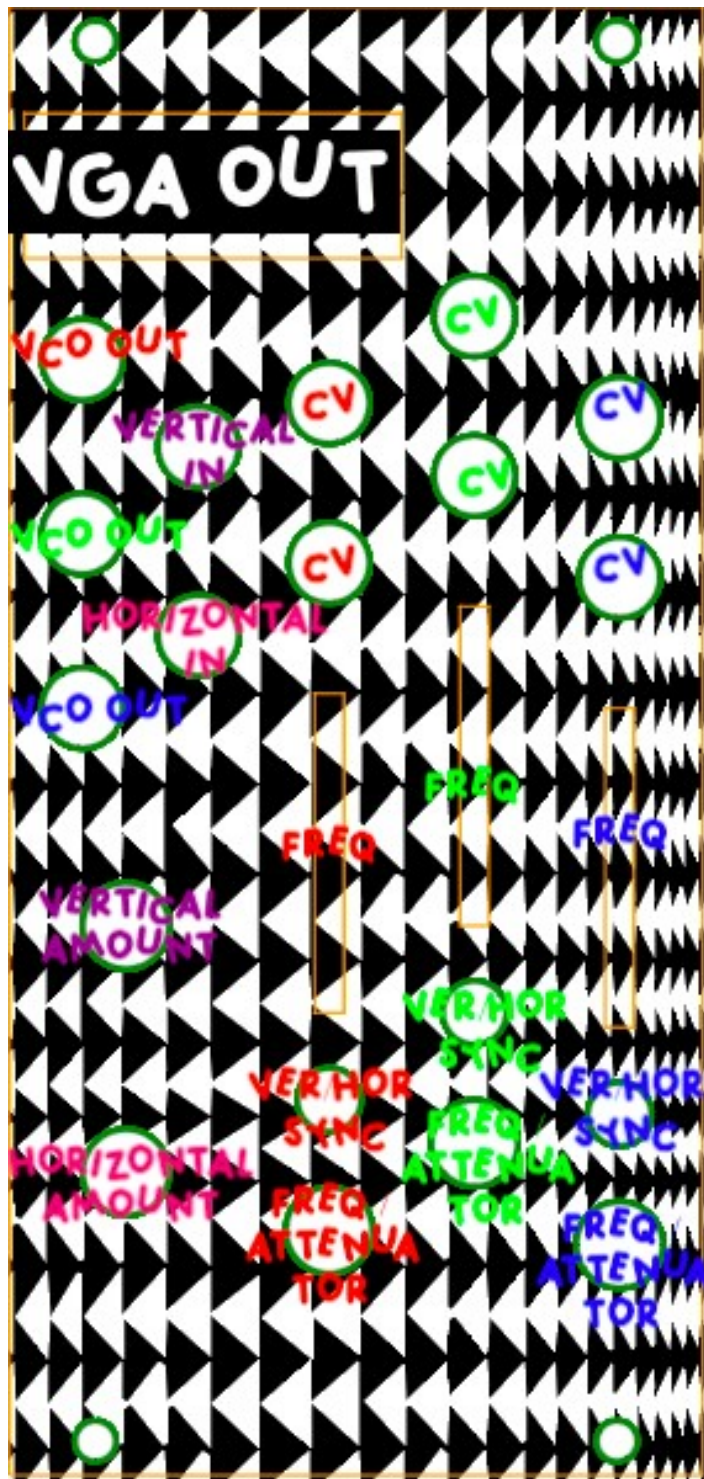
VER HOR SYNC

HORIZONTAL AMOUNT

FREQ ATTENUA TOR

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WHAT IS IT:

– AUDIO –VIDEO MODULE BASED ON PLL (PHASE LOCKED LOOP/CD4046) AND ARDUINO (FOR GENERATING VERTICAL AND HORIZONTAL OSCILLATORS).

– FREQUENCY OF THE OSCILLATORS CORRESPONDS TO THE COLOURED LINES.

– OUTPUTS: 3 SQUARE WAVE VCOS AND VGA. EACH ONE CONTAINS AN ATTENUATOR.

– EACH OSCILLATOR CAN BE EITHER SYNCED TO VERTICAL (LEFT POSITION OF THE SWITCH) OR HORIZONTAL (RIGHT POSITION OF THE SWITCH) OSCILLATOR OR CAN RUN FREELY (TOGGLE SWITCH 'S MIDDLE POSITION).

– EACH OSCILLATOR CONTAINS TWO CV INPUTS.

– YOU CAN ALSO PLAY AROUND WITH FEEDBACK LOOPS BETWEEN EACH OSCILLATOR BY PATCHING VCO OUT TO CV VCO AND VCO OUT TO CV VCO .ETC.

– HIGH FREQUENCY = VERTICAL LINES: LOWER FREQUENCY = HORIZONTAL LINES.