



# halophaze

## two-speed phaser with stereo output

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- The halophaze is a two-speed design; it is **Not** a two-pedals-in-one design. Speed 1 cannot be set as a phaser and Speed 2 as a univibe.
- The halophaze features two independent foot-switchable speeds, featuring glitchless switching between Speed 1 and Speed 2.
- Individual speed LEDs (Yellow and Green) flash in time to the speed selected, even when the halophaze is in the bypass mode.
- The halophaze features two independent Mix knobs, providing Speed 1 and Speed 2 with individual phase flavor or depth. Deep phase shifting calls for an equal mix of dry and effected signals, this would be achieved with a halophaze Mix setting of 12:00. Mix settings clockwise of 12:00 will have more vibrato. Mix settings counter-clockwise of 12:00 will be subtle.
- Dual Phase/Vibe Mode toggle switches apply to **both** Speed 1 and Speed 2 (global). The Phase/Vibe Mode switches may be placed *up* or *down* in any combination. Both switches *up* provide classic phase voicing. Both switches *down* provide univibe voicing. For unique voicing place one of the switches *up* and the other switch *down*.
- The Plus/Normal Mode toggle switch (global) provides more variety. The Plus Mode adds more phase-shift stages, resulting in a deeper, chewy sound. The Normal Mode is the original halophaze sound, which in contrast is brighter and cleaner.
- The Feedback knob (global) has a 12:00 center detent. In the center detent feedback is completely off. Turning the Feedback knob clockwise adds *positive* feedback, which enhances the phasing peaks and notches. Turning the Feedback knob counter-clockwise adds *negative* feedback, which adds a filtered effect - very good with bass guitar.
- The Width knob (global) adjusts how wide the sweep range is from *low* to *high*, which affects the overall phase character. For *classic* phase shifting, set the Width between 9:00 and 11:00 o'clock. For more *univibe* throb, set the Width between 11:00 and 1:00. For wild phase sounds, set the Width from 1:00 to 5:00.
- Volume knob allows matching the bypassed volume regardless of the Mix, Feedback, and Width settings.
- The Ramp knob allows you to adjust how quickly Speed 1 and Speed 2 *ramp* up or down from one speed setting to the other. (Similar to a Leslie, except you get to set the ramp time.)
- Mono-In / Mono-Out or Mono-In / Stereo-Out operation. Designed for use in front of the amplifier, or in an effects loop (either series or parallel), or in mixing board applications.
- Hardwired, True-Bypass switching with "on" indicator (Red LED).



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- The Expression pedal jack (when in use) bypasses the Speed 1 knob (yellow LED), allowing full Expression pedal control of slowest to fastest speed. Use the Ramp knob as a *damping control* for smooth speed changes even with jerky Expression pedal movements. You may still footswitch to your *pre-set* Speed 2 (green LED) at any time.
- For expression control, please use only the toneczar EB Expression pedal with a ¼" TRS (stereo) cable. Do not plug anything else into the EXP jack as the halophaze is voltage controlled. Do not use any other brand of expression pedal as they will not work.
- Like all toneczar products, the halophaze operates on 18 volt DC. (no batteries) This gives great headroom, with no clipping. A Dunlop 18v regulated wallwart is supplied for the USA, UK, or Europe (choose when ordering). Power jack is the standard 5.5 x 2.1mm. center tip - negative.
- The halophaze can be powered by any version of the Voodoo Lab Pedal Power by using a "Y" power cable and two Pedal Power outlets. Note: Set the Pedal Power DIP switch to *NORMAL*. A custom "Y" power cable can be exchanged for the supplied wallwart. Please specify this (and "Y" cable length) when ordering.
- Extremely quiet operation, even with your amp volume on "10" and your guitar volume on "0" - there will be no ticking or sweep noise coming from the halophaze.
- Please allow five minutes for your halophaze to warm up and stabilize each time you power up before playing. Like all toneczar products the halophaze is non-linear, and warm up is required.
- Soft start, silent run LFO (low frequency oscillator) is capable of very slow to bubbly fast speeds. This unique LFO creates a phase sweep which is not mechanical sounding and will not lose depth at very slow speed settings. At full slow, it takes ten seconds to make one cycle! Full fast is ten cycles in one second.
- No aluminum electrolytic or ceramic caps in the signal path. No internal trim pots, DIP switches, socketed parts, ribbon wire or push-on connectors. Instead, thru-plated, FR-4 epoxy glass pcb, Mil-spec components, hand soldered, hand wired, Scope Tested and Tuned.
- The halophaze is offered in two finishes, powder-coat matte black or the optional polished aluminum. (Note: This is not a "show" finish. It will be full of character, matching the rest of the toneczar product line.) These products are designed to be installed on a pedal board and *stepped* on, not polished with a soft cloth and admired.

### SPECIFICATIONS

Input Impedance: > 500K ohms

Output Impedance: < 50K ohms

LFO speed: 0.1 hz - 10 hz

Current Consumption: 70ma. @ 18v dc

Signal to noise: 90 db

Dimensions: 5 3/4" W x 4" D x 2" H (knobs add 1" to height)

Weight: approximately 2 lbs.