



# angelbaby

## echoczar modulation device

## features & specs

- The angelbaby is an echoczar accessory, providing a foot switchable 3rd delay channel with adjustable modulation (wow and flutter), offering the choice of 3 unique chorus voices. The angelbaby is not a stand-alone pedal, and can not be used with any other product.
- The angelbaby does not use batteries or have a power jack, as it is powered by the echoczar through a 1/4" TRS (stereo) cable. To use the angelbaby, plug a 1/4" TRS (stereo) cable into the echoczar's Delay 2 (Yellow) channel Expression jack, then plug the other end of the 1/4" TRS (stereo) cable into the angelbaby's Output jack. (located on the angelbaby's left side). For the tightest clearance use TRS cables with right-angle plugs. The TRS cable length is not critical and can be as long (or short) as needed because there is no audio signal present, only control voltage. Note: Monoprice is a good source for quality 1/4" TRS (stereo) cables offering assorted lengths with either straight or right-angle plugs.
- The angelbaby's Delay 3 (modulation mode) features the same range of delay time as the echoczar, with only the Repeats modulated (chorused). The echoczar's dry signal is not mixed with the angelbaby's modulated signal. In this manner the angelbaby is very different than a standard chorus design.
- The angelbaby's Delay Time knobs are larger and taller, so they can be adjusted with your foot without disturbing your other knob settings.
- When the angelbaby is connected, the echoczar's Delay 2 (Yellow) Delay Time knob is completely bypassed, transferring control of the echoczar's Delay 2 (Yellow) channel delay time to the angelbaby. The angelbaby's foot switch selects between Delay 2 (Yellow) and Delay 3 (modulation mode with Red LED indicator).
- When Delay 3 (modulation on) is selected by the angelbaby's foot switch, the angelbaby's Red LED indicator will come on and flash in time to the angelbaby's Rate setting. The echoczar's Delay 2 indicator (Yellow LED) will begin flashing to the exact tempo of the Delay 3 (modulation on) delay time setting. When the angelbaby is foot switched back to Delay 2 (angelbaby's Red LED off), the echoczar's Delay 2 indicator (Yellow LED) will return to flashing to the exact tempo of the Delay 2 (modulation off) delay time setting. In summary, the echoczar's Yellow LED will flash to the exact tempo of either Delay 2 or Delay 3, whichever is selected by the angelbaby's foot switch.
- The angelbaby offers Expression pedal control of the echoczar's Delay 2 (Yellow) delay time, and is operational when the angelbaby is foot switched to the Delay 2 mode. (angelbaby's Red LED off). The Delay 2 Expression jack is located on the angelbaby's right side. Note: use only the toneczar EB Expression pedal with a 1/4" TRS (stereo) cable. Please do not plug anything else into the angelbaby's expression jack, as the angelbaby is voltage controlled.
- The Depth knob offers the wide range of control necessary to accommodate the echoczar's available delay time. For example, long delay time settings (500+ ms.) require minimal angelbaby Depth settings (to avoid extreme pitch shifting) while short delay time settings can utilize increased Depth settings.
- The Rate knob adjusts the speed of the sweep from slow (one complete sweep every three seconds) to very fast (15 sweeps per second). Note: slow Rate settings require less Depth to avoid excessive pitch shifting, while fast Rate settings require increased Depth settings. The Rate, Depth, and Delay Time controls are all interactive with each other. Wild pitch shifting can be obtained with a combination of long Delay time, max Depth and slow Rate.



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- The Voice Mode toggle switch makes the angelbaby unique. Each setting gives the angelbaby modulation a different sound. The Solo mode (single voice) provides the most traditional chorus sound when combined with short Delay Time settings. The Duet mode (two voice) provides more pitch variation and sounds very good at fast Rate and medium Delay Time settings. The Trio mode (three voice) provides a string ensemble sound, very complex and is best with medium Rate and long Delay Time settings. Using the echoczar's Vintage / Modern mode, Echo / Delay mode or the Multi-head Modes add even more variety.
- The soft start, silent run, low frequency oscillator (LFO) provides silent operation for the echoczar / angelbaby combination. There will be no ticking, thumping or sweep noise.
- Please allow a couple of minutes for your angelbaby to warm up and stabilize each time you power-up before playing. Like all toneczar products the angelbaby is non-linear, and a little warm-up is required.
- Built for life construction featuring full-size thru-hole components and a thru-plated FR4 epoxy-glass printed circuit board that is hand soldered, hand wired, scope-tested and tuned. There are no miniature surface-mount components. No pcb mounted pots, jacks or switches. No aluminum electrolytic caps in the signal path. No internal trim pots, DIP switches, socketed parts, ribbon wire or push-on connectors. (nothing to work loose and fall apart).
- The angelbaby 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

LFO speed: 0.30 hz -15 hz

Current Consumption: 20ma. @ 18v dc.

Signal to noise: 90 db

Dimensions: 3 1/4" W x 4 1/4" D x 2" H

(knobs add 1" to height)

Weight: approximately 1lb.

features