IRUKANDJI GLITCH DRUM USER MANUAL

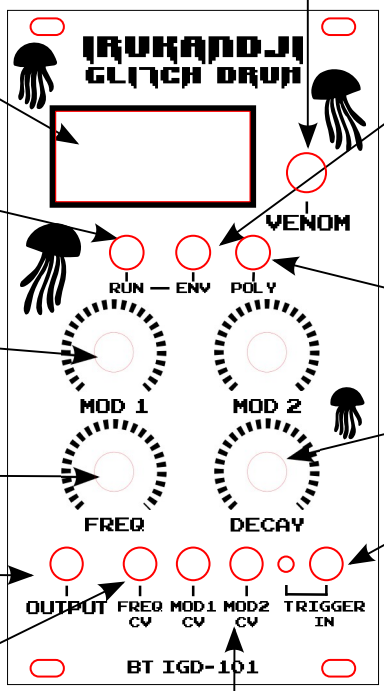
BEAST-TEK INSTRUMENTS

The Irukandji Glitch Drum can be used as a drum module (using an external trigger source), a free running oscillator or even a complete lo-fi synth voice when trigger in and Freq CVs are connected to a keyboard controller or midi2cv interface etc.
The Irukandji Glitch Drum contains 1000 crazy circuit bent glitchy percussion and synth sounds.
Modulation parameters have different effects on different patches. They are grouped together in lots of 25 sharing the same set of modulation parameter to make life a (little) bit easier.

Specifications:
8bit Grain table sound module
24khz / 20khz internal sample rate
PWM Audio @ 76.5khz
FREQ/MOD1/MOD2: -5 .. +5v safe but effective range 0..5v
Clock input: 0-5v only
On board 5v regulator, only +12/-12v rails required
Current Draw Approx 58ma on +12v rail
14HP Dual Layer Acrylic Panel @ 3mm total thickness

The VENOM knob is used to select the active patch. Patches are selected but turning the VENOM knob right or left. There are 1000 patches in total. Pressing the VENOM knob down will jump 10 patches at a time, and holding the VENOM knob down will jump 100 patches at a time.

The 3 digit display indicates the currently selected patch.



When RUN mode is enabled the ENV switch be used to enable/disable the internal envelope. Enabling the internal envelope in RUN mode produces a low frequency amplitude modulation effect similar to a tremolo.

The RUN switch is used to switch between free running oscillator mode and trigger mode. When RUN is enabled, the trigger input does nothing.

The POLY switch switches between mono and polyphonic mode. POLY mode also reduces the sample rate down to 20khz.

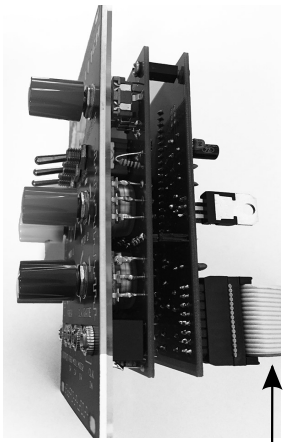
The MOD 1 and MOD2 knobs are used to control diffent parameters within each patch.

The decay knob changes the decay rate or duration of the envelope.

The FREQ controls the frequency (or pitch) of the output. Tracking is v/oct.

The trigger input can be used to trigger the envelope when RUN mode is disabled. Protection diodes allow the safe connectio of trigger signals above 5v.

OUTPUT is 10vpp audio signal output



The FREQ CV allows external control of the frequency with v/oct tracking.

The MOD1 and MOD2 CV input allows external control of the patch modulation.

NOTE: Protection diodes allow safe connection of -5v .. +5v signals to the FREQ CV, MOD1 CV and MOD2 CV inputs but the effective range of the CV's is between 0v to 5v.

IMPORTANT: Power connection is red stripe downwards (facing the bottom of the unit) as shown in the picture above.
Power diodes on the unit protect against reverse polarity connection.