

FXBLOX

THG3 Multi-Effect turnkey solution for guitar playing

Feature

SSAUDIO provide THG3 Multi-effect model with Tuner/ Overdrive/ Distortion/ Chorus/ Reverb/ Delay/ Boost turnkey solution for guitar player playing.

Functions

Tuner: Tone measurement and guitar storage temperature + humidity measurement.

Overdrive: Large dynamic range with the vintage tone in drive.

Distortion: Extra High gain and tone tuning make it heavy.

Chorus: The most clear effect sounds like playing the liquid.

Reverb: Mix and wet tuning the sound spacial reverberation.

Delay: 300ms time delay for general delay playing. REG tuning the feedback gain for loop times control.

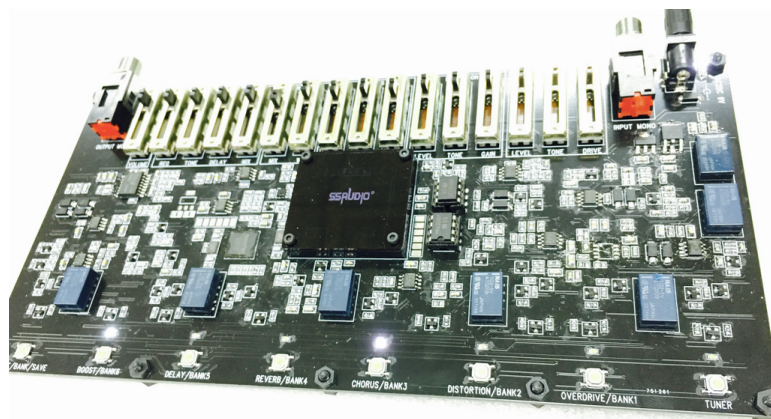
Boost: Level boost is designed for solo boost usage.

Overdrive + Distortion: Extreme gain boost for extra heavy tone.

Distortion + Chorus + Delay: Morden tone for solo usage and set the sound in spacial.

BANK mode: 6 banks memory for parameters setting saving. for playing with the preset parameters.

LIVE mode: Control the effect switch in realtime.



Specification

Controls: Function switch, Boost Level, Delay Reg/ Tone/ Delay/ Mix, Reverb Mix/ Wet, Chorus Mix/ Depth/ Rate, Distortion Level/ Tone/ Gain. Overdrive Level/ Tone/ Drive.

Indicator: OLED monitor, Power indicator, Switch indicator.

Input Impedance: 500k.

Output Impedance: 10k.

Power supply: 9V/2A with outer +/- inner - schematic.

Connector: Input 6.35mm mono jack. Output 6.35mm mono Jack. DC Jack.

Dimensions: 120(W) x 240(D) x 10(H) mm

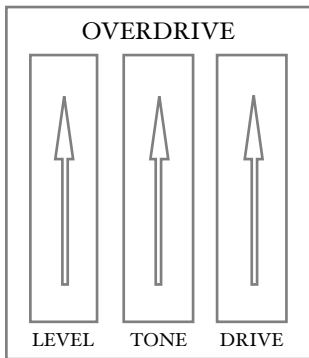
Design Concept

SSAUDIO programmed a software FFT for general tuning on guitar. We design a front end filter with which filter the high frequency signal and boost the low frequency signal. it can help to ensure the perfect signal measurement. FFT will cost lots of memory in processor. So the luxury Cortex processor be applied in to SSAUDIO THG3) Even more we applied the temperature/ humidity sensor in this multi-effector. The most popular functions Overdrive/ Distortion/ Chorus/ Reverb/ Delay/ Boost be integrated in the system. LIVE/ BANK/ SAVE three modes designed can help player to control THG3 easily.

Operation

Overdrive: Controlled by Level/ Tone/ Drive.

The potentiometer **LEVEL-** adjusts the volume of the effect sound. No sound will be heard when this potentiometer is



pulled down to the bottom.

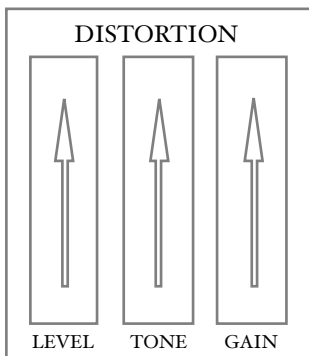
The potentiometer **TONE-** controls the tone of effect sound. Pulling it up adds bite to the sound or makes it mellower.

The potentiometer **DRIVE-** controls the drive of overdrive. Pulling it up increases the overdrive.



Press the **True Bypass Switch** turns the effect on or change to the the true bypass circuit.

In the **Bank Mode** it's the Bank 1 selector. In the **Bank Saving Mode** it's the selector to save the parameters in Bank 1.



Distortion: Controlled by Level/ Tone/ Gain.

The potentiometer **LEVEL-** adjusts the volume of the effect sound. No sound will be heard when this potentiometer is pulled down to the bottom.

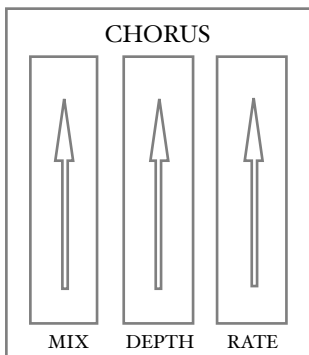
The potentiometer **TONE-** controls the tone of effect sound. Pulling it down adds bite to the sound or makes it mellower.

The potentiometer **GAIN-** controls the gain of the distortion. Pulling it up increases the distortion gain.



Press the **True Bypass Switch** turns the effect on or change to the the true bypass circuit.

In the **Bank Mode** it's the Bank 2 selector. In the **Bank Saving Mode** it's the selector to save the parameters in Bank 2.



Chorus: Controlled by Mix/ Depth/ Rate.

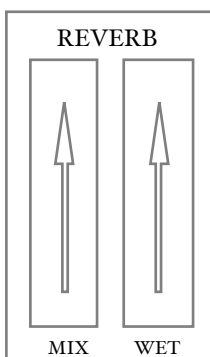
The potentiometer **MIX-** adjusts the mix between the chorus and original sound. No Chorus will be heard when the potentiometer is pulled down to the bottom.

The potentiometer **DEPTH-** controls the depth of the chorus. Pulling it up increase the depth of chorus.



The potentiometer **RATE-** controls the rate of the effect sound. Pulling it up adds the rate of chorus or decrease the chorus rate.

Press the **True Bypass Switch** turns the effect on or change to the the true bypass circuit. In the **Bank Mode** it's the Bank 3 selector. In the **Bank Saving Mode** it's the selector to save the parameters in Bank 3.



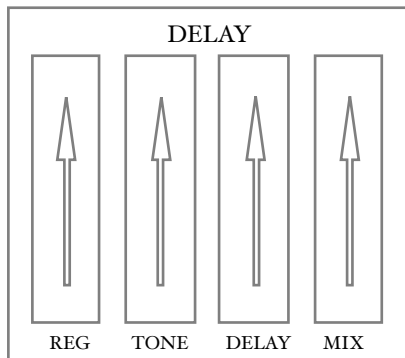
Reverb: Controlled by Mix/ Wet

The potentiometer **MIX-** adjusts the mix between the reverb and original sound. No Reverberation effect will be heard when the potentiometer is pulled down to the bottom.

The potentiometer **WET-** Controls feedforward gain of the comb filter. Pulling it up increase the space of reverberation or decrease the space of reverberation.



Press the **True Bypass Switch** turns the effect on or change to the the true bypass circuit. In the **Bank Mode** it's the Bank 4 selector. In the **Bank Saving Mode** it's the selector to save the parameters in Bank 4.

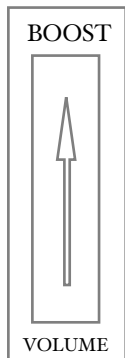
**Delay:** Controlled by Reg/ Tone/ Delay/ Mix

The potentiometer **REG-** control feedback gain of delay loop. There are two gears when controlling the Regan. Pulling down to the bottom **Gear 1:** One tap delay. **Gear 2:** Normal delay will be active when pulling up this potentiometer.

The potentiometer **TONE-** controls the tone of delay tap. Pulling it up increase the high frequency of the tone and pulling it down will get more low frequency spectrum.

The potentiometer **DELAY-** controls the delay time of analog delay loop. When pulling up to the to it will get the maximum time distance 0.3sec.

The potentiometer **MIX-** controls the mix level of delay tap. Pulling it up will add the level if delay tap. Press the **True Bypass Switch** turns the effect on or change to the the true bypass circuit. In the **Bank Mode** it's the Bank 5 selector. In the **Bank Saving Mode** it's the selector to save the parameters in Bank 5.

**Boost:** Controlled by Volume

The potentiometer **VOLUME-** controls the boost level of boost effect. Unit Gain 1 be set when the potentiometer be pulled down to the bottom. The most large boost gain is 3 when the potentiometer be pull up to the top.

Press the **True Bypass Switch** turns the effect on or change to the the true bypass circuit. In the **Bank Mode** it's the Bank 6 selector. In the **Bank Saving Mode** it's the selector to save the parameters in Bank 6.

**TUNER:** Controlled by tuner switch.

When tuner switch be toggled first time, the tuner function will be turned on. When tuner switch be toggled second time, the sensor of temperature/ humidity will be tuned on. At the time of tuner/ sensor tuned on, the audio signal will be muted. when switch (Overdrive/Bank1, Distortion/Bank2, Chorus/Bank3, Reverb/Bank4, Delay/Bank5, Boost/Bank6) toggled, the audio signal will be appeared.



LIVE/BANK/SAVE: LIVE mode/ BANK mode/ SAVE mode be controlled by LIVE/BANK/SAVE switch.

LIVE: Effect fusions Overdrive/ Distortion/ Chorus/ Reverb/ Delay/ Boost can be selected by user.

BANK: The effect functions loop parameters will be read out form the flash bank. Player can set the functions loop parameters in the bank saving mode

SAVE: In the bank saving mode, player can save the functions loop parameters by toggling the bank number switch. After setting completed, toggle this switch again to choice Live or Bank playing.

FXBLOX related

Input Trans/ Output Trans/ Unit Gain Buffer/ Line Extension/ Amp Gain/ Time Delay/ Signal Add/ Base/ Amp Simulator/ Great Tuner/ Karaoke.