

ATC-1 Air Traffic Controller - User Guide

Congratulations on buying the ATC-1 Air Traffic Controller! It's a unique kind of effect pedal, offering a huge range of sounds that have never been possible before. It has a Rainger FX optimum distortion circuit, mixing with white noise "hiss", and going through a low pass filter, the cut-off frequency being controlled in three completely different ways.

Peak: Depending on the guitars volume the "peak" controls how high or low the cut-off frequency will be.

Pitch: The pitch of the note being played decides the pitch effect. The range can be adjusted by turning the "pitch range adjust" trimpot inside. Like most tracking effects, it works best with the guitar set to the neck pickup, and with single notes.

Random: There's a new random cut-off frequency set for each new note (after any short gap). Once the frequency is set, it stays there until the next new note is played. The range of the random cut-off frequency can be adjusted by turning the "random adjust" trimpot inside.

Level: This controls the output volume.

HI/LO: This push button adapts the pedal to higher (active) or lower (passive) guitar outputs (IN = high, OUT = low), inserting a pad to cut the input signal.

Resonance: This adjusts the 'Q' of the low-pass filter, a high resonance making the cut-off frequency very noticeable.

About The White Noise

The "hiss" sound is blended with the guitar signal, but it is also controlled by it; loud when the guitar is loud, and totally silent when the guitar is silent. Great care has been taken in combining the hiss with the guitar, and to make it one usable and musical sound.

About The Low-Pass Filter

This comes after the mix pot for the two sound sources, helping bind the two together, and before the output volume amplifier. It's resonance range is tuned to go from a near-transparent tone tweak to an exaggerated cut-off frequency "bump", greatly coloring the sound. When there's no signal the cut-off frequency drops down very low (even in the random mode), again helping keep the Air Traffic Controller incredibly noise-free.

Footswitch: Depressing the footswitch will activate the green LED showing the pedal is "on." This pedal has true bypass footswitching.

Distort: This controls the amount of distortion on the guitar pedal.

Air-Signal: This knob adjusts the mix of white noise with the guitar signal.

Runway LED Lights: The lights activate when a signal is present.

