



EF102-PHOTO THEREMIN Operation Manual

Congratulations on your purchase of the Electro-Faustus EF102 Photo Theremin!

The EF102 uses a light sensitive photocell to control pitch. Add a little reverb or delay, and amaze your friends with its otherworldly sounds!

- OPERATING INSTRUCTIONS -

Connect your amplifier to the OUTPUT jack. Please note that whenever a plug is inserted into the OUTPUT jack, the EF102 is draining current from the battery.

The STATUS LED will light up when the EF102 is on. Use the TOGGLE SWITCH to toggle between on and off

The VOLUME control adjusts the volume of the oscillator. With the VOLUME knob turned fully counter clockwise, there is no tone. Turning the VOLUME knob clockwise, the EF102 will be at full volume.

The SENSOR control changes the pitch of the oscillator tone. The frequency range is roughly between 250 and 2,500 Hz. The SENSOR is a light sensitive photocell. The less light there is, the higher the amount of resistance across the terminals. Conversely, the greater the amount of light, the lower the resistance. This resistive value then gets applied to the resistor/capacitor circuit that controls the oscillator pitch. Less light = lower tone. More light = higher tone. If you cover the SENSOR completely, you may find the oscillator frequency gets so slow it will actually give off a pulsing tone. The STATUS LED will blink in unison with this pulse. This is normal operating behavior. Enjoy!

- PLAYING TECHNIQUE -

The SENSOR is extremely sensitive. Minor fluctuations in light can change the tone very rapidly. Playing and holding individual notes is possible with a little practice, however. The key is to keep as still as possible, while casting a small shadow across the SENSOR with your fingers. Once you're able to hold a note, try moving slightly to the left or right. You should hear it go up or down the scale. Shaking your hand slightly will cause a vibrato type effect.

- POWER -

The EF102 is powered by a single 9-volt battery located inside the unit. The circuit uses a very efficient low power chip, so 1 battery should last you a long time. To replace the battery, you must unscrew the 4 screws on the bottom of the case and remove the base. Snap the new battery in and make sure it's firmly clipped in.