TECHNICAL SPECIFICATIONS

Dimensions	120x95x35 mm
Weight	380gr.
Chassis	Hammond, aluminium die-cast
Input impedance	400 kohm
Output impedance	150 Ohm
Lo cut	100 Hz
Filter Range	1.5-3.5 kHz
External pedal for “Warped Sound” SPEED control	Any expression pedal with 50-100 kOhm potentiometer
Signal switching	True-bypass
Supply voltage/Current absorption	9VDC/20mA
Power connection/ground type	Negative tip/negative ground

Innovative music gear created by two Nerds in Italy

www.tefivintagelab.it

GOLDEN ERA Operating Manual

Tefi Vintage Lab is pleased to welcome you to our family. We hope you enjoy using our new Golden Era real time lo-fi machine. Feel free to get in touch for any suggestions or clarifications as to how you might best use the effect. Play music and enjoy using our products!

Golden Era - Real-time Lo-Fi Machine

1876: Thomas Alva Edison presents the first phonograph on wax cylinder. 1887: Emile Berliner presents the gramophone on shellac disk. 1963: Philips introduces the Compact Cassette which, together with the 1969 MicroCassette, made it universally easy to capture sound events with a miniaturized, lightweight device. It took decades of research before every analog medium achieved excellent audio performance. Before then, audio recorders had some peculiarities that marked an era: from the “mechanical” noise and scratch of the first phonographs, to the low fidelity and nasal characteristics of Compact Cassettes, especially if recorded / listened by cheap or worn devices. Golden Era was created to faithfully reproduce the “non fidelity” of these audio recorders at the time of their introduction, taking you to other eras of analog audio recording: the Golden Eras. Golden Era was born from an idea of James Edward Bagshaw, of the band Temples. Transformed into reality by TEFI vintage lab. James always loved the character of vintage recordings and dreamt of a pedal that could create this in real time. The Golden Era pedal morphs sound into a bygone era; an era of analogue recording, where unintentional peculiarities and imperfect machines created mesmerising, unique sound palettes. The Golden Era will turn any sound coming from a guitar, synthesizer or modern recording into a analog-voiced sound. Press the footswitch and enjoy your journey through the ages.

CONNECTION AND USE

Connect the output jack on the pedal's left side to an amplifier (or to the next effects in your chain) with a 6.3mm Jack instrument cable.
In addition to the signal input and output jacks, there is one 6.3mm isolated jack dedicated to the following function:

- **External Warped Sound speed control:** this act as remote control for the warp speed of the virtual-analog supports; it must be plugged to an expression pedal connected to a potentiometer with a recommended internal value between 50 kOhm and 100 kOhm, for the best ease of adjustment. The insertion of the Jack excludes the relative "Speed" control knob of the pedal.
- **Power supply:** connect a 9V stabilized external power supply adapter to the pedal's power connector located on the right side (5.5mm connector with 2.1mm pole type). Do not reverse polarity! (external positive, internal negative). In presence of reversed polarity the pedal will not power up; no damage will be caused below 25V reversed polarity.

CONTROLS AND FUNCTIONS

- **WOB. dpt:** Adjusts the depth of the "wobble" effect, typical from an audio cassette played on a poor quality tape recorder, fluctuating in pitch. This effect, due to wear and construction of the recorder, was even more evident in the low speed microcassettes, used in dictaphones and answering machines.
- **WRP. dpt:** adjusts the depth of the periodic out-of-tune effect, typical of a warped or off-center vinyl record.
- **Speed:** adjusts the modulation speed of the WOB and WRP sections.
- **Noise:** Adjusts the level of noise. Introduce character, the rustle of the top cylinders, audio cassettes and worn vinyls.
- **Filter:** Adjusts the cut-off frequency of a resonant filter. It cuts the response on the treble frequencies simulating the "nasal" effect that can be heard when listening to the sound from a small speaker of a dictaphone with microcassettes, or the characteristics of the first phonographs sound horns.
- **Level:** adjusts the output level.

TOGGLE SWITCHES

- **Waveform** With this switch you can choose the waveform assigned to the WRP modulator, sweet (sine) or jerky (square).
- **Low Cut** This switch introduces an early cut in the low frequencies reproducing, together with the Filter control, the limited band effect that could be obtained from the speaker of a dictaphone or an answering machine.

TEFI Vintage Lab invites you to activate the warranty within 10 days of the purchase of the product. It is necessary to connect to our website www.tefivintagelab.it and, on the page describing your product, fill in the required form in the "register product" section. TEFI Vintage Lab products are covered by a 5-year warranty. If the user finds an anomaly due to component defects and erroneous assembly, please contact us by sending an e-mail to info@tefivintagelab.it, describing the problem encountered in detail and the circumstances in which it was verified.
In compliance with the regulations defined in the following clauses, TEFI Vintage Lab undertakes to repair the instrument with no additional costs.

1. Warrantly is valid for 5 years. Does not include parts subject to wear such as jacks, switches, potentiometers, dip-switches, 9V battery clip or 9V battery holder, nor does it include aesthetic parts such as knobs.
2. Warrantly does not extend to damage caused by inexperience or negligence in the use of the effects pedal, or bad/neglected maintenance.
3. TEFI Vintage Lab undertakes to replace at its own discretion the malfunctioning or incorrect manufacturing parts, only after a careful check and verification of bad construction.
4. In the presence of incorrect use of the warranty, shipping costs will be charged to the user.
5. During the warranty period, the replaced parts/products become the property of the manufacturer.
6. This warranty is only valid for the original purchaser who has followed the normal maintenance instructions described in this manual. Our warranty liability expires at the moment the original owner surrenders ownership of the product, or modifications are made to it.
7. Warranty does not include damage caused by excessive stress, such as the use of the product after the detection of an anomaly, the use of inappropriate methods of operation, as well as the failure to observe use and maintenance instructions.
8. The manufacturer assumes no responsibility for any difficulties that may arise in resale or use abroad due to the provisions in force in the country where the product was sold.
9. The product part of the defective unit must be delivered to TEFI Vintage Lab for replacement, otherwise the replaced part will be charged to the buyer.
10. Any product repair or modification by the user or by companies not authorized by TEFI Vintage Lab will invalidate the warranty

EU DIRECTIVE AND DISPOSAL
TEFI Vintage Lab products are designed to comply with the standards laid down by EU directives regarding safety and the environment. Pursuant to Legislative Decree No. 49 of March 14, 2004 "Implementation of Directive 2012/19/EU on waste electrical and electronic equipment (RAEE)".
The crossed-bin symbol indicates that the product, at the end of its useful life, must be separately collected from other waste.
The user must therefore confer the equipment with the essential components at the end of their life to the appropriate collection centers for electrical and electronic waste.