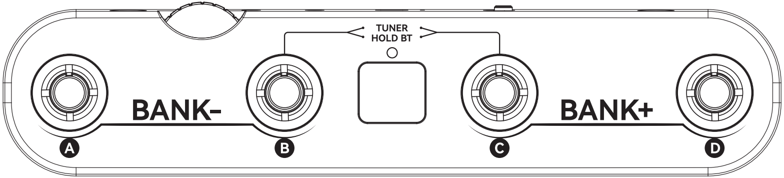
# 封面

70.00 mm

KOKKO



240.00 mm

扉页

# USER MANUAL

# KE1

All are welcome to use our products!
Todos são bem-vindos para usar nossos produtos!
¡Todos son bienvenidos a utilizar nuestros productos!
Tout le monde est le bienvenu pour utiliser nos produits !
Tutti sono benvenuti ad utilizzare i nostri prodotti!
Jeder ist herzlich eingeladen, unsere Produkte zu verwenden!
どなたでも弊社の製品をご利用ください!

http://www.iflanger.com

英文

## I. Preface

KE1 is a portable and multifunctional Guitar effector. It has 36 editable Presets, the users also can customize effectors
3-band EQ, 7 Modulations, 5 Delays, 6 Reverbs, 20 IR CAB slots.

You can download the computer software or mobile APP from our official channels, use it to edit presets,swap presets,
the computer. It support BT wireless music, earphone monitoring function, and computer sound card, etc. It integrates

## II. Attentions

■**The power supply:**
It is equipped with built-in battery for power supply, which can last for 8 hours after full charge. It can charge with the
power bank. When the battery run low, you can use the 5V 2A adapter, you need 4 hours to fully charge the battery. W
run low, don't use it for a long time to avoid unstable working performance, please charge it in time.

■**The connection:**
Be sure to turn off the power of related equipment before connecting or disconnecting the device.

■**The electrical interference:**
The electromagnetic wave of radio, television and other equipment may cause interference to the equipment, so pleas
from radio, television and other equipment.

■**The location:**
To avoid deformation, discoloration, or other serious damage, do not expose this unit to the following conditions:
a. Heat sources b. Magnetic fields c. Sunlight
d. High temperature or moist district e. Excessively dusty or dirty locations
f . Strong vibrations or shocks

EN

chain and save. It has built-in battery, it can last up to 8 hours on a full charge. KE1 has 6 effects Modules, it contains the Noise Gate, Boost, Compressor, 20 Preamp,

share presets, import/export presets, and import the IR files, import the AMP module timbre data, besides you can restore the factory Settings or firmware upgrade on
a variety of function, it is easy-carry and it has excellent sound! It could be a good partner of your music instruments.

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5V adapter or the
hen the battery

e try to stay away

## III. Effectors chain diagram

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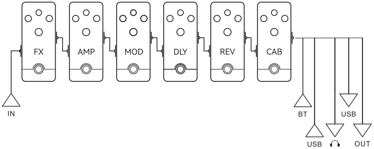
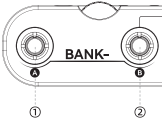
(The order of the 6 effects Modules can be customized.)

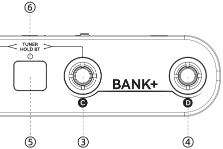


## IV. Front panel

① **Footswitch A:** Footswitch A can
② **Footswitch B:** Footswitch B can
③ **Footswitch C:** Footswitch C can
④ **Footswitch D:** Footswitch C can
⑤ **The display screen:** Display the
battery run low, it show the pattern
⑥ **BT indicator.**

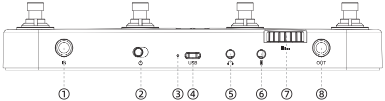


turn preset A on/off (off state is bypass).
turn preset B on/off (off state is bypass).
turn preset C on/off (off state is bypass).
turn preset D on/off (off state is bypass).
number of the BANK, there are1–9 groups, when in the TUNER mode, show the note name; when the
n " ⊔ ".



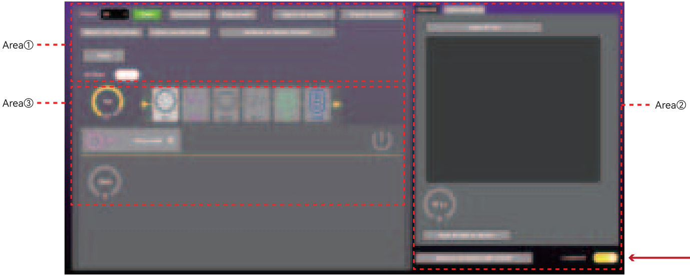
## V. Rear panel

① **IN:** Connects to the guitar.
② **Power switch.**
③ **Charging indicator:** When the battery is normally using, theindicator will go off; During charging, the indicator will stay red, thenit will turn to blue after fully charging.
④ **USB jack:** Use to charge the battery / the KE1 can be sound card of computer / you can edit 36 groups of presets on computer you can import the IR on computer.
⑤ **Headphone Output:** Connects to monitoring headphones.
⑥ **Audio output jack:** It support mobile phone recording.
⑦ **Snot controlled Volume Knob:** Control the output volume. (**Note:** The BT volume and USB input volume are not controlled by this knob.)
⑧ **OUT:** Connects to a speaker or mixer.



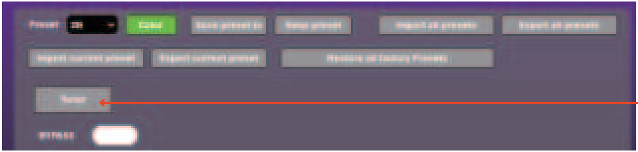
## VI. Effectors module

**Note:** This section is the details of software operation. The three footswitches can be used to select the Presets, but the details of the sounds need to be paired with a mobile or computer software for use.
**Attention: The above image shows the display screen of the software.**

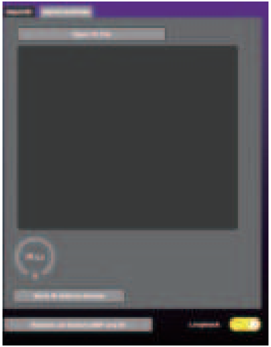


**Tips:** Loopback function, a common function on sound cards, can be enabled or disabled in software, it is set to the "on" position in factory condition.
When the function is turned on, the music in the computer/mobile phone will be recorded at the same time with the instrument sound, it's the same track mixed recording, including USB and BT music.
If the function is turned off, when using the KE1 as a sound card for recording, only the IN-interface instrument sounds can be recorded, which is more convenient for sub-track recording of instrument sounds during computer recording.

Area①: Preset management interface.

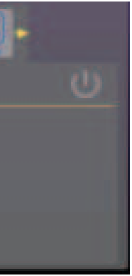


Warm reminder: The Tuner function is a common instrument tuning function. The sound volume can be adjusted on the software during tuning. The default factory volume is 0 (bypass state).



← Area②: CAB and AMP module management interface.

Area③: The current preset detail parameter adjustment interface. ↓



## Ⅰ:  FX Module

**1. Noise Gate**

- Gate parameter: Adjust the threshold of Noise Gate, When set to 0, the effect is turned off.

**2. Boost**(Noise Gate can be added)

- Gate parameter: Adjust the threshold of Noise Gate, When set to 0, the Noise Gate is turned off.
- Gain parameter: Adjust the gain of the Boost.

**3. Compress**(Noise Gate can be added)

- Gate parameter: Adjust the threshold of Noise Gate, When set to 0, the Noise Gate is turned off.
- Sustain parameter: Adjust the compression amount.
- Attack parameter: The starting time of the compressor after the signal exceeds the threshold, the larger the value, the slower the compression starting time, and the more prominent the auditory sound-head; The smaller the value, the faster the startup time.
- Level parameter: Use this parameter to adjust the output volume of this Module again.

## Ⅱ:  AMP Module **(1-20 is guitar preamp)**

| SLOT | NAME | TYPE |
|---|---|---|
| 1 | Based on UWE-Twins | Clean |
| 2 | Based on Archetype | Clean |
| 3 | Based on MarsVM410 | Overdrive |
| 4 | Based on Victor_Mars | Overdrive |
| 5 | Based on BritPLEX_50 | Overdrive |
| 6 | Based on MarsFD100 | Dist |
| 7 | Based on Eagle_SAVAGE | Dist |
| 8 | Based on TH_DieselHgn | Dist |
| 9 | Based on EV_5150 | Dist |
| 10 | Based on FORTIN_CALI | Clean |
| 11 | Based on MESS_MktCln2 | Clean |
| 12 | Based on CA-tweed | Clean |
| 13 | Based on SV20_6V6 | Overdrive |
| 14 | Based on JUICE_JIM | Overdrive |
| 15 | Based on Shur_SL68 | Overdrive |
| 16 | Based on Archon | Clean |
| 17 | Based on Pavey6505 | Dist |
| 18 | Based on EMGLPowerball | Dist |
| 19 | Based on JVM900 | Overdrive |
| 20 | Based on MssaBoogiv | Clean |

**Note:** The brand and model names mentioned above are Trademarks of their respective owners, which are in no way associated with KE1. It was only used to identify the sound character. We will constantly update the timbre without notice, may be different from the real thing, the actual object prevails.

## Ⅲ: Modulation Module

**1. Chorus**
- Speed
- Depth
- Mix: Adjust the dry and wet ratio.

**2. Phaser**
- Speed
- ParamA: MidCut, the larger the value, the greater the midfrequency reduction of the effect, this parameter is mainly designed for distortion timbre.
- ParamB: Resonance, resonance intensity adjustment of phase effect.
- Feedback: Adjust the feedback amount of Phaser.

**3. Tremolo,** it is basically a change of the signal level controlled by an Low-frequency Oscillator.
- Speed
- Depth
- Level parameter: Use this parameter to adjust the output volume of this Module again.

**4. Flanger,** it is use the same principle as Chorus, but it uses a shorter delay time and adds regeneration(or repeats) to the modulating delay. This results in an exaggerated up and down sweeping motion to the effect.
- Speed
- Depth
- Feedback: Adjust the amount of feedback for the sweep effect in wet sound.
- Mix: Adjust the dry and wet ratio.

**5. Vibrato,** The vibrato effect modulates the pitch of the incoming signal. The result is similar to the Tremolo technique used by vocalists. In contrast to a Chorus or Flanger effect, no direct signal is combined with the pitch-modulated signal.
- Speed
- Depth

**6. Univibe,** a unique timbre, a combination of chorus and phaser.
- Speed
- Depth
- Mix

**7. Autofilter**
- Speed
- Min: Minimum frequency of the filter sweep frequency, when the value is turned up, the middle and low frequency parts of the wet sound are more prominent.
- Max: Maximum frequency of the filter sweep frequency, when the value is turned up, the middle and high frequency parts of the wet sound are more prominent.
- Mix
- Feedback

## Ⅳ: Delay Module

**1. Analog,** it is the delay effect of the signal of the analog
characteristics of retro and warm.
- Time: Adjust the feedback speed of echo repeats, 600-
- Feedback: The feedback times of echo repeats.
- Mix: Adjust the dry and wet ratio.
- Phaser: The Phaser effect is increased in the Delay wet
adjust the amount of Phaser used.
- Pitch: We add a little detuning effect to the delay wet s
the pitch of the detuning effect, which is a slightly shifted
sound.

**2. Ducking Delay,** When we process the delayed wet sou
part before the wet sound. Thus, the front part of the wet
a front evasive effect, and the sound is gradually increase
more 'felt' than 'heard'.
- Time: Adjust the feedback speed of echo repeats, 600-
- Feedback: The feedback times of echo repeats.
- Mix: Adjust the dry and wet ratio.
- Unpack: After this parameter is turned up, the sudden
rear part can be unpacked, so as to achieve a smoother d
- Speed: The Chorus effect is increased in the Delay wet
adjust the speed of Chorus used.
- Depth: This parameter adjusts the depth of the Chorus

tube, and the timbre has the

60bpm.

sound. This parameter can

sound, this parameter adjusting
sound, a retro and charming

nd, we add the Noise Gate to the
sound is suppressed to achieve
d, the dynamics of the delay are

60bpm.

rise in the volume of the wet
elay dynamic.
sound. This parameter can

.

**3. dTape, Tape delay,** it replicates the unique delay style of tape machine, you can not only get the warmth and silky of professional grade tape machine, but also simulate the sound effects of tape in real situations such as CRINKLE, BIAS, and so on.

- Time: Adjust the feedback speed of echo repeats, 600-60bpm.
- Feedback: The feedback times of echo repeats.
- Mix: Adjust the dry and wet ratio.
- Grit: The GRIT takes on the function of TAPE BIAS. This parameter adjusts tape machine bias, from under biased to over-biased, it sounds like an overdrive of wet sounds. Bias sets the dynamic range and headroom of the wet signal.
- Speed: The SPEED takes on the function of TAPE CRINKLE. This parameter adjusts the amount and severity of tape irregularities, including friction, creases, splices and contaminants. Tape Crinkle characteristics track accordingly to tape speed. Set to minimum for a fresh, clean tape. Set to maximum for a tape that has been mangled and chewed for years.
- Depth: This parameter control varies the amount of mechanically related tape speed fluctuations. This also results in natural tape machine style modulation, it's like a chorus. Parameter minimum for a more tuned, cleaned and serviced tape machine. Parameter maximum to hear the sound of a tape machine in need of service. In between the extreme settings, a natural tape modulation is achieved.

**4. Dual Delay,** two independent delay echoes, the time-lag of the first echo and the second echo achieves a very interesting delay rhythm effect.

- Time: Adjust the feedback speed of echo repeats, 1200-120bpm.
- Feedback: The feedback times of echo repeats.
- Mix: Adjust the dry and wet ratio.
- Time-Mode: Adjust the time-lag between the two echoes, the minimum is the equivalent of no time-lag, and the greater the number, the greater the time-lag.
- Speed: The Chorus effect is increased in the Delay wet sound. This parameter can adjust the speed of Chorus used.
- Depth: This parameter adjusts the depth of the Chorus.

**5. Lofi Delay,** a special, retro and destructive delay effect, the wet sound reflects the filter, the vinyl record, the noise lo-fi and many other senses.

- Time: Adjust the feedback speed of echo repeats, 600-60bpm.
- Feedback: The feedback times of echo repeats.
- Mix: Adjust the dry and wet ratio.
- Grit: When the parameter is turned up, it sounds like a overdrive wet sound.
- Speed: The Chorus effect is increased in the Delay wet sound. This parameter can adjust the speed of Chorus used.
- Depth: This parameter adjusts the depth of the Chorus.

## V: Reverb Module

**1. Room reverb,** it simulates a relatively small, simple-structured room sound where many reflections are absorbed by soft material in the room, and sound is reflected by walls.

- Decay: Adjust the duration of echo.
- Mix: Adjust the ratio of wet and dry.
- HPass: HIGH pass, only used to regulate wet sound.
- LPass: Low pass, only used to regulate wet sound
- Depth: The pitch of wet sound produces a small cyclical rise and fall, you will hear vintage and charming background sound.

**2. Hall reverb,** it gives a wide, slightly scattering feeling, it simulates a grand ambient sound.

- Decay
- Mix
- HPass
- LPass
- Depth

**3. SWELL reverb,** the Swell machine brings in the reverb gradually behind the dry signal for subtle evolving textures, like having a volume pedal on the wet sound.

- Decay
- Mix: If the dry sound is removed, and set the RiseT parameter to 0, it can mimic the sound of string instruments such as the violin.
- HPass
- LPass
- RiseTime: It adjusts the rise time of the swelled signal, I suggest you choose shorter times for single-line soloing or longer times for ambient chord work.

**4. Spring reverb,** it is a common type of reverberation.The sound signal is transmitted to the spring tank, and the pickup picks up the resonant sound of the spring tank, to mimics the reverberation effect produced in space.

- Decay
- Mix
- HPass
- LPass
- Combs: Control the number of springs.

**5. Shimmer reverb,** there is a pitch-shift sound in the wet sound. Adjust the pitch of the pitch-shift sound, you can get the dissonant interval, create a scary background sound. You also can get the harmonic interval, it's a wonderful sound, a resplendent and unearthly ambience. The Amount parameter allow for a range of shimmer effects from laid-back and subtle to full-blown majestic splendor.

- Decay
- Mix
- Tone: Adjust the brightness of the reverb wet sound.
- Pitch: Adjust the pitch of the pitch-shift sound, the minimum value is the same as the original sound, the maximum value is two octaves above the original sound.
- Amount: Adjust the amount of pitch-shift sound.

**6. Cloud reverb,** is a gorgeous large ambient reverberation, it sounds like the music come from all sides of the cloud. Cloud reverb can take any modest guitar or synth sound and turn it into a gorgeous ensemble.

- Decay
- Mix
- HPass
- LPass
- Diffusion: Softens the early reflections to create a more diffused reverb. As Diffusion is increased, the reverb is smoothed and softened, the delay and reverberation mix together more naturally.

## Ⅵ: TUNER

- Click the B+C footswitchs to enter the T
muted, the standard A's frequency is 440H
on any foot switch to exit TUNER mode.
- When tuning the string, the note name
sharp/flat signs, the system defaults only t
display screen as a small dot in the botton
screen as $\boxed{C.}$. All the lights above will sho
lighting on, it indicate that the pitch of stri
left red lights keep lighting on, it indicate t
on screen. When the right red lights keep
higher than the note name on screen.

## Ⅶ: BT

- This product supports BT, you hold the
When the BT indicator off, the BT function
means that BT is turnning on, but not in co
the BT has been connected.

## Ⅷ: Mobile phone recording

- This product supports phone recording
connect the Phone and KE1, then you can

TUNER mode. In this mode, the guitar output is
lz (Do not support modification). Then You can click

will be displayed on the screen, for note name with
o use # (sharp sign) to indicate, it appears on the
n right corner, for example, “C#” is displayed on the
w the pitch, when the middle green light keep
ing is close to the note name on screen. When the
that the pitch of string is lower than the note name
lighting on, it indicate that the pitch of string is

B+C footswitchs for 2 seconds to turn on/off BT.
had been turned off; when the indicator flashing, it
onnection; when the indicator lighting up, it means

function, you can use the recording cable to
use your Phone to get a high quality recording.

## IX: Function Introduction of PRESET mode.

In PRESET mode, press BANK- or BANK+ at first, the screen shows the target's BANK flashing, then tap A/B/C/D to switch to any preset you want. PRESET mode is the most normal playing state, KE1 has a total of 36 presets, you can use 4 footswitches to select any one of them.

in PRESET mode, you can use the computer software or APP to read and adjust the parameters of KE1. As you can see from the screen, there are 1-9 preset groups, which we call BANK, each BANK has four presets for A,B,C, and D. Tap BANK- footswitches to turn down the BANK, Tap BANK+ footswitches to turn up the BANK. A,B,C,D footswitches are the 4 presets of the current BANK, when a preset is selected, the corresponding footswitch-indicator keep lighting up. and the offfootswitch-indicator means that the effect is off. If none of the 4 presets of the current BANK are enabled, it means KE1 is currently in BYPASS, all 4 footswitch-lights and all parameters- knob lights are off.

In PRESTET mode, you can save the current preset (2A, for example) overwrite to any of the 36 presets. It's very simple, under the current preset, tap BANK- or BANK+ to select your target group(eighth group, for example), now the number "8" on the screen will continue flashing, this will indicate that you are ready to select the eighth BANK. Then hold the A/B/C/D footswitch (B footswitch, for example), after this operation, you had copied and pasted the 2A preset to the 8B preset, the B-footswitch blinks quickly, indicating "Save successfully".

## X: IR CAB Module (1-20 is guitar CAB simulator)

| SLOT | NAME | CAB TYPE |
|---|---|---|
| 1 | Based on EagleProV30s | 4x12 |
| 2 | Based on Sperimental | 4x12 |
| 3 | Based on JUICE4x12V30 | 4x12 |
| 4 | Based on Mess Boogie | 4x12 |
| 5 | Based on FendChamp | 1x8 |
| 6 | Based on FendPrJunir | 1x10 |
| 7 | Based on Mar1960BV30 | 4x14 |
| 8 | Based on DiezelV30 | 4x12 |
| 9 | Based on Electrovoice | 2x12 |
| 10 | Based on MessDRectV30 | 4x12 |
| 11 | Based on TwinJensen | 1x12 |
| 12 | Based on TwedDlx1X12 | 1x12 |
| 13 | Based on FendShowman | 4x12 |
| 14 | Based on JC120Roland | 2x12 |
| 15 | Based on AC30Silvers | 2x12 |
| 16 | Based on BOGNER Uberkab-T75V30-TAB57-Cap | 4x10 |
| 17 | Based on PEAVEY 5150-Sheffield1200s-TAB57-Cap | 4x10 |
| 18 | Based on Orange4x12-V30s-C414-Cap | 4x10 |
| 19 | Based on 1X15 Supro ThunderboltS6420 Jensen15"-TAB57-Cap | 4x10 |
| 20 | Based on MesaRectifierV30s-TAB57-Cap | 4x10 |

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- Level
- Low cut: Adjust the low cut point, optionally 20-300 Hz. If you choose 300 Hz, it means that low frequencies below 300 Hz are suppressed.
- High cut: Adjust the high cut point, optionally 18000-5000 Hz. If you choose 5k Hz, it means that high frequencies above 5000 Hz are suppressed.

## VII. Effectors module

| | |
|---|---|
| Input | Standard 1/4" jack MONO/TS |
| Output | Standard 1/4" jack MONO/TS, 1/8" Stereo jack, Phone recording jack |
| Sample rate | 44.1KHz/24bit |
| Size | 235.2(L)x52.4(W)x41.8(H)mm |
| Weight | 275g |
| Power supply & USB data transmit | Type-C、5V≥300mA |
| Battery capacity | 1100mAh |
| Battery Nominal Voltage | 3.7V |
| Battery life | 8 hours |
| Charging current limit | About 408mA |
| Dynamic Range | 105dB |
| Total effects | 60+ |
| Effects Slots / Effects Modules | Total of 6+1 simultaneous effects slots, it can customized the order |
| Presets amount | 36 |
| USB AUDIO(OTG) | 44.1K/24Bit, support Loopback ON/OFF |
| Wireless music | Support |
| Software support | WINDOWS, MAC, IOS, Android |
| IR processing | 44.1K/24Bit Mono WAV files, 1024 sampling points |
| Power supply | Built-in battery or USB 5V |
| AMP modeler | Totally 20 (1-20 is electric guitar preamp) |
| IR slots | Totally 20 (1-20 is electric guitar CAB) |
| Working current | About 180 mA |
| Attachment | USB cableX1, recording cableX1 |

## VIII. Download software

- **Website:**
  www.iflanger.com
- **M-EFCS for Windows/Mac OS:**
  https://www.iflanger.com/service.html
- **M-EFCS for Android/iOS:** **M-EFCS for Windows/Mac OS:**

scan the QR code scan the QR code

- **APP using tips:**
  Run the APP and click the “ ☰ ”button, click the "Current Device" and select the "KE1", then scan nearby devices, you can connect to use.

## IX. FCC Warning Statement

★Changes or modifications not expressly approved by the party responsible for compliance
These limits are designed to provide reasonable protection against harmful interference in a
to radio communications. However, there is no guarantee that interference will not occur in a
try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver
-- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement
The device has been evaluated to meet general RF exposure requirement. The device can be

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two
(1)This device may not cause harmful interference.
(2)This device must accept any interference received, including interference that may cause u

could void the user’s authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference
particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to

is connected.

used in portable exposure condition without restriction.

conditions:

ndesired operation.

KOKKO

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