LOW

Voltage

EP FAMILY MAGAZINE #1

'playing it safe'



AMPLIFY YOUR BAND



multi-input
speaker/
amp with
built-in effects

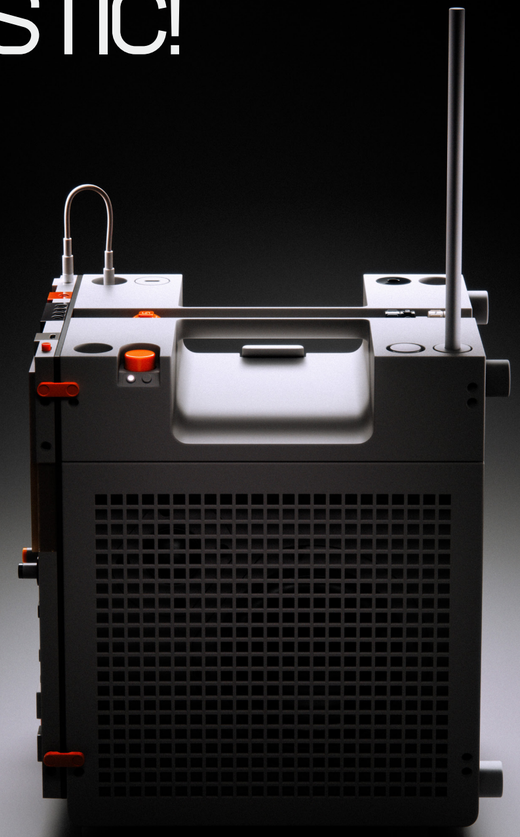
EP—35

BE CAUTIOUS OF OVERSTEPPING THE CREATIVE BOUNDARIES IN YOUR BAND. THIS CAN BE DRASTIC, TYRANNICAL AND EGOCENTRIC BEHAVIOUR IN BAND SETTINGS. OVERSTEPPING THE CREATIVE BOUNDARIES MAY LEAD TO

ALTERCATIONS WHICH COULD RESULT IN PHYSICAL INJURIES, LEGAL ENGAGEMENTS, LIABILITY FOR ANY INTERPERSONAL CONFLICTS, DISPUTES, OR LOGISTICAL DISRUPTIONS THAT MAY ARISE DUE TO RECKLESS USAGE OF EP-35.

LIFE IS FANTASTIC!

$399



- 6X INPUTS – SUMMED. PLAY ALL SIMULTANEOUSLY
- USB 2.0 MULTICHANNEL AUDIO INTERFACE
- 1/4" GUITAR INPUT WITH LOW/HIGH GAIN SETTINGS
- XLR INPUT WITH 48V PHANTOM POWER
- 16 BUILT–IN FX PRESETS FOR GUITAR AND MIC
- STEREO LINE–IN AND LINE OUT
- BLUETOOTH WITH LE AUDIO AND BROADCAST MODE
- BUILT– IN BATTERY (CHARGE WITH USB–C PD)
- PLAY FROM USB DRIVES, FM RADIO AND MORE

LOW Voltage



YOU KNOW HOW IT IS. WAKING UP ON THE FLOOR OF A DEMOLISHED HOTEL ROOM. ALL AROUND YOU ARE PIECES OF GLASS, AND AS YOU LOOK UP AT THE WALL, YOU SEE THAT THE TV IS MISSING. YOU DID IT AGAIN. ASHY REMNANTS OF A FUSE LEAD TO A BURNT CARDBOARD BOX. IT'S THE PYROTECHNICS THE ANGRY PROMOTER REFUSED TO LET YOU DEPLOY DURING LAST NIGHT'S SHOW. THIS IS WHY YOU NEVER MIX WHISKEY AND VAMPIRE BATS.



K.O.–PEDAL WIRELESSLY PAIRED EP–35



THE USB DRIVE HAS AN A SIDE AND A B SIDE. YOU CAN LOAD AND PLAY AUDIO FROM BOTH SIDES

since your drummer and bassist left, you've had to do most of the bidding yourself. luckily, the EP–35 is quite good at filling in the gaps. in the beginning, this meant a lot of heavy lifting, but since you got hold of the EP–35, it's been a walk in the park. the built-in fx, along with the K.O.–PEDAL and the USB DRIVE, have allowed you to play most parts yourself. theydon't complain about your solos going on for too long and never accuse you of stealing drink tickets.

EP–35 has allowed you to take your show to new grounds. you can traverse between big stages and alleyway jams, children's birthday parties and roadside busking. no staircase is too steep and no alley is too narrow for you and your EP–35.

it has satisfied all your rock-related requirements.

ENCORE

do you have a problem with your band getting tired in the middle of your solos? the USB DRIVE allows you to jam to loops of your own choice. add flair to your guitar control via the fx dial and control the loops on your drive through the K.O.–PEDAL to ensure an encore that will never stop!











EP—35
UNDER THE HOOD

on top you'll find eight genre-based guitar presets. turn one dial to choose a style, then use the amount dial to decide how far you want to take it, from 0 to 11. instead of spending the afternoon adjusting a row of traditional tone controls, pick a character and start playing. the ep–grid system lets you attach one full-size EP device, like K.O. II, or two half-size devices, like K.O.–SIDEKICK, directly to the side of EP–35.

K.O. DOCK KIT includes everything you need to attach an EP device into place and connect it to the speaker. put EP–35 on its side and the speaker becomes a stand for your EP setup.

inside you'll find mic and guitar gain controls, 48V phantom power for condenser microphones and hi mode for hotter guitar signals or external pedals. there's also a camp light switch, a tone knob for fine tuning between bass, treble and mids, speaker mute for headphones, line-in gain and a USB-C PD charging port.

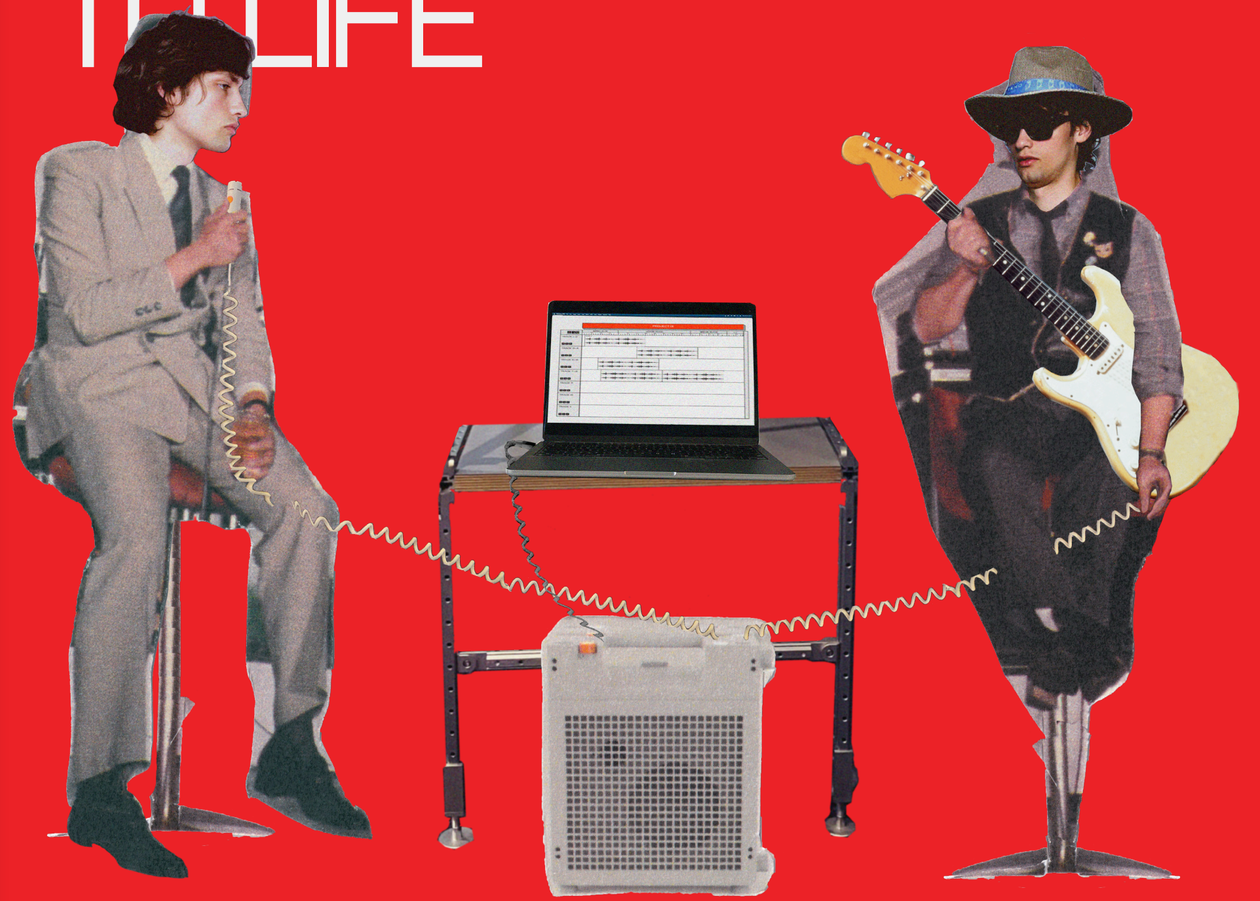
GUITAR AND MICROPHONE FX PRESETS AND AMOUNT DIAL





48V PHANTOM POWER, MICROPHONE AND GUITAR GAIN

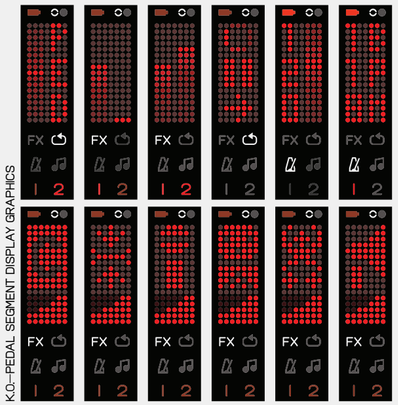
BRING YOUR DAW TO LIFE



THINGS GET MORE INTERESTING ONCE YOU ADD THE K.O.–PEDAL. IN FX MODE, THE TWO BUTTONS BECOME EXTRA CONTROLS FOR WHICHEVER GUITAR PRESET YOU'RE USING. EVERY PRESET HAS ITS OWN EXPRESSION SETUP, THE BUTTONS DO DIFFERENT THINGS DEPENDING ON THE PRESET. ONE MIGHT GIVE YOU A REVERB SWELL, ANOTHER A PULSING TREMOLO, WHILE TEMPO–BASED EFFECTS LIKE DELAY, CHOPPER AND TREMOLO CAN BE MATCHED TO THE SONG. JUST TAP THE TEMPO AND KEEP PLAYING.







K.O.–PEDAL SEGMENT DISPLAY GRAPHICS

set the amount dial on the EP–35 before you start, whether you're keeping things at 0 or going all the way to 11. the extra controls stay under your feet, so there's no need to bend down and start adjusting things in the middle of a song. both hands are probably busy anyway.

then there's the looper. record a phrase and the K.O.–PEDAL takes care of the repeating part, useful when the rest of the band has mysteriously stopped showing up. add a bass line, some chords or whatever else your two hands can manage before it's time for the solo.

plug in the USB DRIVE to give those loops a beat to follow. start one of the prepared drum loops and the pedal reads its bpm along with the preconfigured start and end points.

that keeps your recorded phrase locked to the beat, even if you hit the pedal a little early or late. K.O.–PEDAL works with a lot of things, hopefully things you already own.

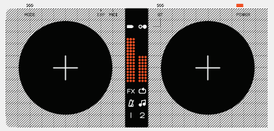
USB-C or bluetooth LE MIDI provides additional control for devices in the teenage engineering field series, as well as compatible synth apps, DAWs and other gear. a 3.5 mm MIDI output covers synths and pedalboards, while the expression pedal input controls the volume of the selected channel on EP–35.

HID mode lets the two buttons send four preset keyboard commands for your computer, capable of controlling video playback, navigating presentations or triggering shortcuts mapped in your software. controlling your phone or DAW with your feet has never been this easy.



K.O.–PEDAL
コントローラー

UNLOCK NEW POSSIBILITIES WITH THE K.O.–PEDAL, A WIRELESS GUITAR AND VOICE PEDAL CONTROLLER FOR EP–35. UNLOCK MORE CONTROL OVER THE BUILT–IN FX AS WELL AS A POWERFUL AND EXPRESSIVE LOOPER AND A METRONOME. YOU CAN ALSO CONNECT IT TO A COMPUTER AND USE IT AS A MIDI OR HID CONTROLLER.





becoming a master of shredding is no easy task
only the strongest will survive
the only way is the way of the EP–35
use the EP–35 to become your instrument

BECOME THE AMP



INTERVIEW: SOUND DESIGN OF THE EP—35

ONE OF INPUTS ON EP—35 IS INTENDED FOR A USB DRIVE THAT TURNS THE BOREDOM OF PRACTICING SCALES INTO AN ENGAGING EXPERIENCE. COMBINING IT WITH K.O.—PEDAL UNLOCKS EP—35'S TRUE POTENTIAL. TOGETHER THEY TURN IT INTO AN INSPIRING PART OF YOUR CREATIVE WORKFLOW. WE SPOKE TO OUR SOUND DESIGNER, TENGAN, WHOSE JOB WAS TO ENSURE THAT ABOVE ALL TECHNICAL ASPECTS, IT'S ALSO FUN TO PLAY.

USING K.O.—PEDAL IN HID MODE



TENGAN, SOUND DESIGNER



WHAT IS THE USE CASE FOR THE USB DRIVE?

we wanted to create an easy way for EP–35 users to interact with their own material, enabling people to upload their own loops, and songs, either for practicing or just to play along with. it comes loaded with a bunch of drum loops and songs to get you started, but the intention is for people to use it as a tool and to populate it with their own tracks and creations. whatever you put on the drive will loop automatically. you could load the verse of a song you're working onto the a-side and practice a tricky bass part or guitar solo; or put your favorite breakbeats on the b-side and work on your rhymes, or opera scales.

it has two sides, an a-side and a b-side. the a-side has some fun instrumentals to jam or solo over, and the b-side comes with a number of drum loops, live breaks as well a straighter electronic stuff, that go from 65 to 199 bpm. you skip tracks and navigate using the mode button on EP–35. the USB DRIVE also has an autoplay function; as soon as you connect it to EP–35, audio starts playing right away. the idea was always that the USB DRIVE should feel like a part of the EP–35, not just another technical device.

another feature is how the USB DRIVE interacts with the loop mode on the K.O.–PEDAL. when you start a drum loop on the EP–35, the K.O.–PEDAL knows the bpm of that loop. it also reads preconfigured start points and end points within the drum loop. this makes it so the EP–35's pedal looper function is always in sync with the current loop playing. so, if i for example record a phrase and accidentally end the recording a little early, i'm still fine since the in- and out-points in K.O.–PEDAL's loop mode are locked to the drum loop. you don't need to worry about hitting the in and out points perfectly in fear of creating a loop that starts drifting away from its original tempo.

we're developing a simple web tool that enables users to gain further control over their loop metadata. this will, for example, enable you to add your own in/out points and set them to a different length than your actual recording. this means you could record yourself playing along with a 32-bar drum loop with loads of fills and variations, but set the K.O.-PEDAL loops to be four bars. i know this sounds quite confusing. i promise it's really cool, though.



EP–35 TWANG EFFECT



EP—35 AND K.O.—PEDAL IN PAIR MODE



K.O.—PEDAL FUNCTIONING AS AN EXPRESSION PEDAL IN FX MODE

WHAT SOUNDS ARE PRELOADED ON THE USB DRIVE?

we wanted to make the drum loops on side b feel a little bit like a '90s sample CD, where sort of anything can happen. some of the drums are leftover material from studio recordings we did for other projects that i've tweaked and edited into loops, while others were recorded or programmed specifically for the USB DRIVE. it's organized chaos, basically. but all of them are simply just solid beats to play along to.

the process behind the instrumentals on the a-side was a little different. the goal was to make a few background tracks with some nice chord progressions that people could solo over for all eternity since the tracks would be played on loop. then it spiraled a bit. a few of the tracks were created inside the office where we have a surprising number of talented musicians and players. then we reached out to some of our excellent producer and artist friends who came back with some crazy tracks.

we knew we didn't want to make the kind of 'blues in a-minor' type of jamtrack you might find on youtube but something that felt more like us. we wanted a collection of different genres and styles without it feeling too messy or like a bunch of random music we had lying around. i wanted the tracks to live up to some form of standard while still maintaining a feeling of that teenage idiocy. some of these tracks are deliberately pretty stupid. others are a bit more serious and just simply good tracks. i think we've achieved a good balance and that the end result turned out real nice; they're all great tracks to jam along to.

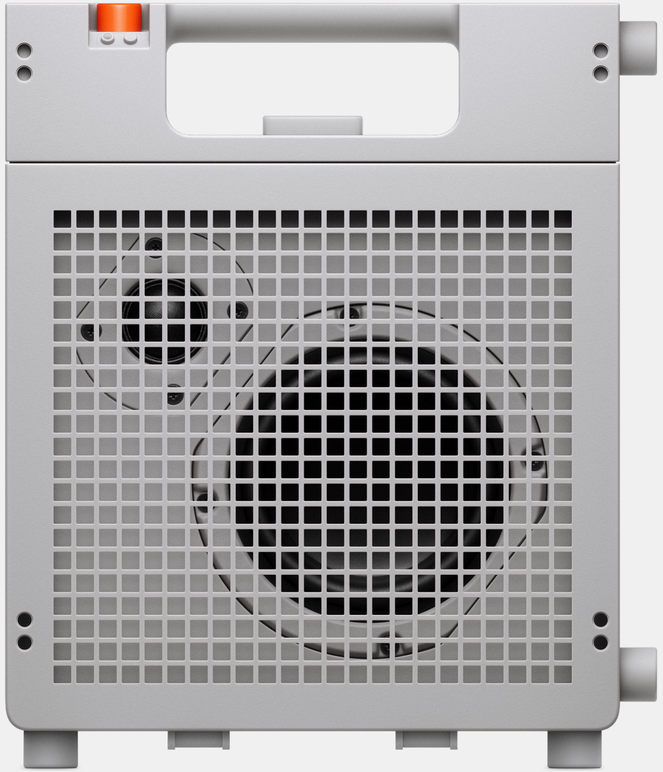
WHAT CAN YOU TELL US ABOUT THE AMPS BUILT–IN EFFECTS?

there are eight genre-type effect presets you can dial in on one of the black wheels on top of the amp. they were all originally designed by özum itez, here in sweden and from his place in türkiye. oscar, dylan and i came in a bit later and helped out in the finishing stages when it came to organizing the amount dial settings and pedal parameter motions. a lot of effort went into tweaking the behaviour of the amount dial and evaluating what happens on level 0 versus what happens on level 11.

to me the EP–35 really comes alive once you get the K.O.–PEDAL involved. if you switch it to fx mode, you can control a couple of different parameters that are unique to each of the presets. this gives the user a few more expressive tricks to work with when playing live for instance. all tempo-based effects, like the delay, the chopper and the tremolo, can have their tempo adjusted in real time with the tap tempo function. just tap the tempo of the song you're working with and your effect syncs up. some presets might have a reverb swell on pedal a and a tremolo on b. all presets have their own dedicated expression settings.

there's been a lot of back and forth within the team to get here, a lot of testing, playing, listening and pestering developers to get a last-second feature included, that might make the EP–35 a bit more musical and intuitive. this is really the core of this whole project. we haven't created functions just for the sake of it. they are all there to be inspiring to actually play with. that's the part i'm most happy with. and the USB DRIVE became something more than just a stick with music and beats on it. it became a big part of the whole experience of the product.

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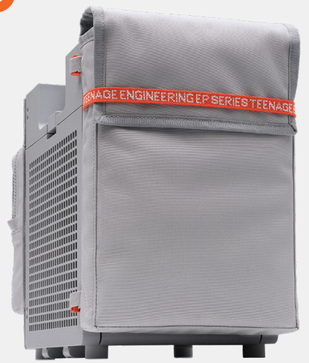
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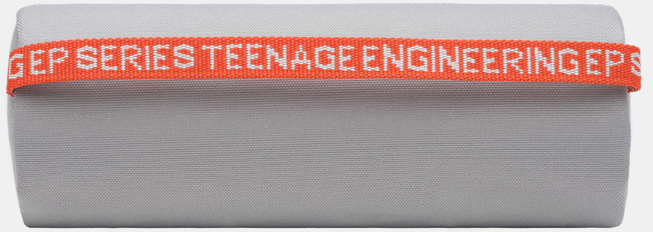
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9



10



11



1 EP—35

a portable instrument amplifier, bluetooth speaker and usb audio interface. connect guitar, microphone, line-in, bluetooth and usb audio at the same time, with eight built-in fx presets for both guitar and microphone. use it for playing, practicing or listening. broadcast bluetooth audio to multiple EP–35's for stereo or larger setups. it has a built-in handle, storage compartment and even a camp light

$399

2 K.O.—PEDAL

expressive foot pedal controller with two pressure-sensitive buttons for hands-free guitar and mic effects on EP–35. it also handles live looping, metronome and audio playback, with a 3.5 mm expression input for volume adjustments. the pedal also works with other gear, hopefully things you already own.

$99

3 USB DRIVE

the 16GB usb drive comes preloaded with two sides. side A holds instrumental backing tracks, while side B has drum loops, live breaks and electronic beats ranging from 65 to 199 bpm.

$29

4 AMPTENNA

fm radio receiver for EP–35. connect it to the ep-plug port to turn it into a portable radio.

$29

5 HANDY MIC

compact XLR electret condenser microphone with a push-to-talk button and curly cable for extra reach. plug it into EP–35 for vocals, karaoke or whatever needs saying a little louder. the cable extends up to 1.5 m and the mic rests neatly on the handle when not in use.

$29

6 K.O. DOCK KIT

includes 4 clips and a 90mm 3.5mm cable to attach one full-size or two half-size EP devices directly to EP–35 with the ep-grid system™.

$15

7 STRAP

with two locking attachments that snap onto the handle of EP–35, this handy strap lets you carry EP–35 it while keeping your hands free.

$19

8 POCKET BAG

the pocket bag snaps directly onto the side of EP–35 with four clips. designed to carry your gear, the main compartment holds one full-size or two half-size EP series devices, with a zip pocket in the cover for storing cables or other small accessories. detach it from the EP–35 to use it as a standalone bag.

$79

9 CYLINDER BAG

the cylinder bag fits inside the storage compartment of EP–35. made to hold USB drives, cables, pens and other small items, it features a zip closure and webbing handle for easy access.

$35

10 EYELET BAG

the eyelet bag attaches to the side of EP–35 by slipping the eyelets over the four silicone feet. it features multiple compartments for the pedal, mic, cables and other small accessories, and closes with a zip. concealed front pocket behind the logo webbing.

$79

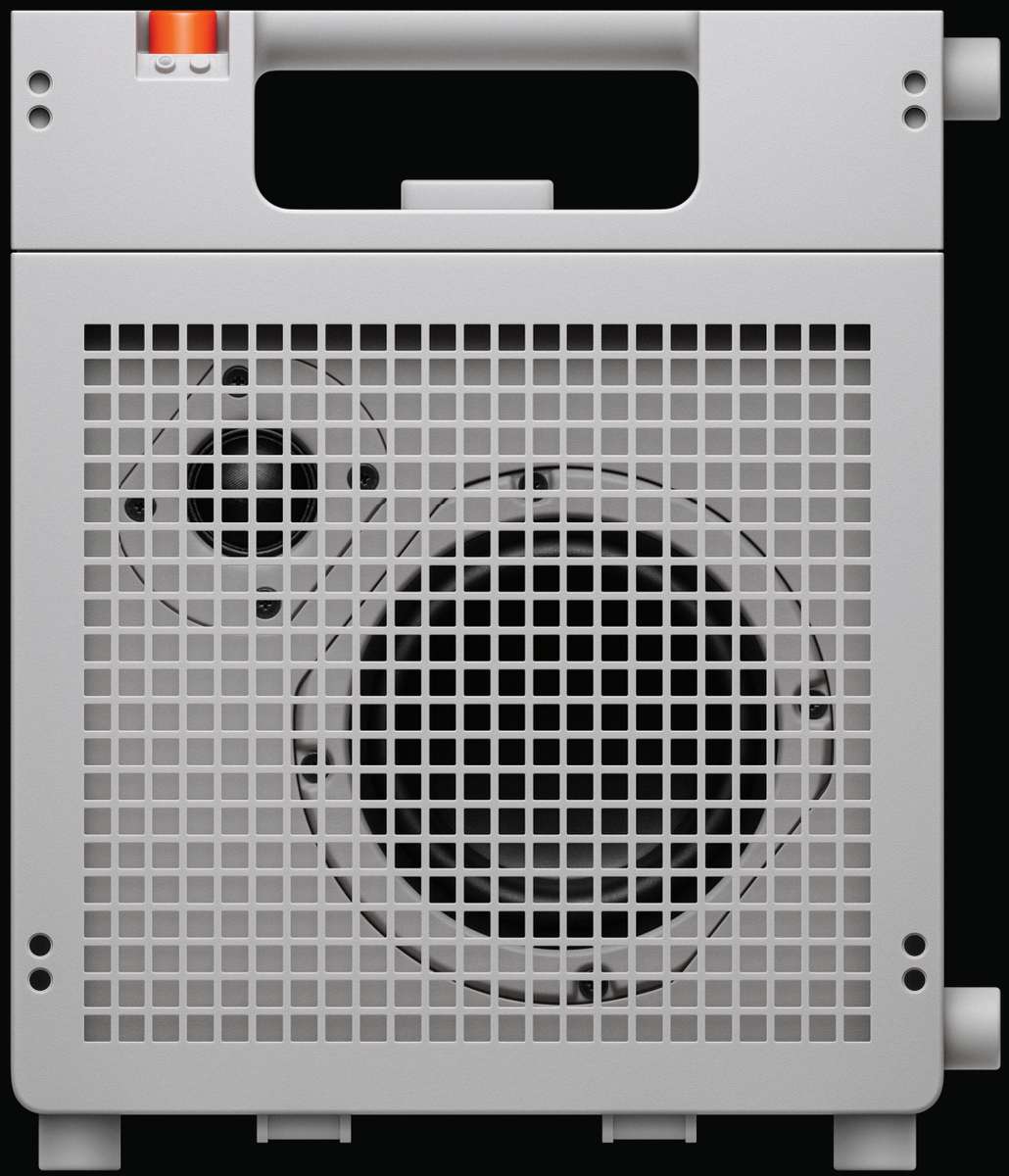
11 GUITAR CABLE

a 3 meter long, grey 6.35 mm textile cable for connecting your guitar to EP–35 or any other standard guitar setup.

$29

explore more at:
teenage.engineering/store

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