

SPRIT NANO SERIES

THE SPIRIT OF LEGENDARY TONE

SPRIT OF
Vintage



SPRIT OF
Rock



SPRIT OF
Metal



Hughes & Kettner
TECHNOLOGY OF TONE



THE SPIRIT OF LEGENDARY TONE

Sparkling clean tone that chimes like a glockenspiel. Smoky blues tones with the snarl of a junkyard dog. Lead sounds that wail as seductively as Siren's song. Expansive, enveloping arena rock tones. The malevolent grind of a chainsaw gnawing on heavy metal: Iconic sounds such as these have been giving voice to new modes of musical expression and shaping the sound of entire genres for more than 60 years now. The new Spirit Nano Heads from Hughes & Kettner capture the spirit of each era of legendary guitar sounds in three amps with distinctive personalities.

At the heart of the Spirit Nano amps is the Spirit Tone Generator, a novel bionic design developed by Hughes & Kettner to replicate the analog processes of a tube circuit. This miniature masterpiece distills the essence of tube amps' magical physics and incomparable tone into a compact, strictly analog circuit that promises unbridled playing pleasure.

SMALL BOX, MIGHTY PUNCH

Don't be fooled by the miniature format. The Spirit Nano belies its diminutive dimensions with the impressive power of full-fledged power amp rated for up to 50 watts. That's enough to rock even a 4x12" cab. Developed specifically for the Spirit line, the Ultra Response power amp behaves exactly like its tube-based cousins. It always sounds great at every volume and never grates at level, even at full tilt. Waste not, want not: This little beastie sends every single watt to the speaker. All those delicious dynamics remain intact and every watt is translated into impressive sound pressure. These petit powerhouses pack a punch as mighty as any tube power amp with a similar output.



SPIRIT: THE STUFF OF 'BIONIC' SOUND

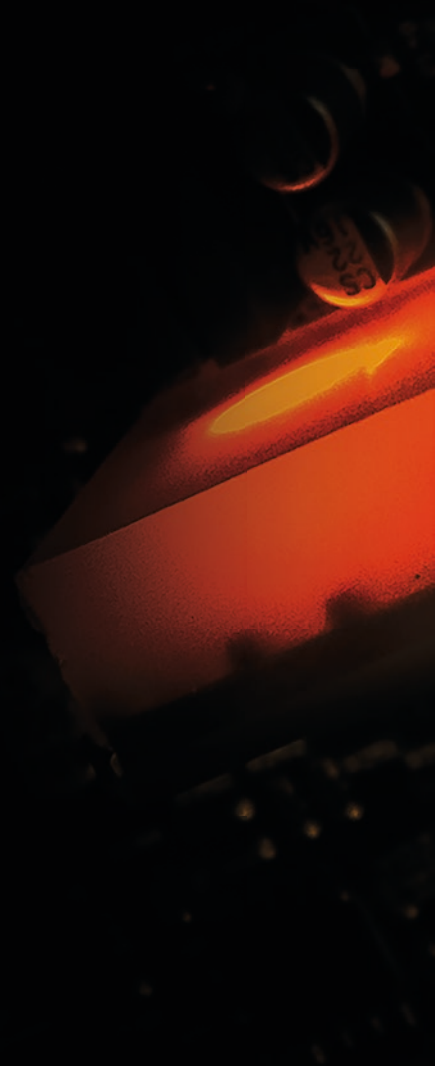
The secret behind the Spirit Nano series' fascinating tone is the Spirit Tone Generator. So what's this groundbreaking technology all about?

Our mission hasn't changed since we set out to build the best-sounding amp ever in 1984. Our aim was certainly high and perhaps a bit naïve back then, but our expectations compelled us to ask ourselves the one question that really matters: What is that makes a particular tone magical? Or more precisely: What's happening at the physical level for an amp to hit that sonic sweet spot?

It didn't take us long to figure out that it's not just a single component such as a tube that transforms an electrical signal into a soulful experience in thrilling sound. Instead, it's the complex interactions among the various components that populate tube amps.

The richness, feel and energy of all those spine-tingling sounds are very much down to give-and-take that goes on when the input stage, preamp, power amp, transformers and even the speaker carry on a conversation with one another. All that cross-talk throws another pinch of ferry dust into this near-mystical mix that is too-die-for tone.

Spirit is a technology that generates the same physical phenomena in a 'bionic' way. We use the term loosely because a tube amp is not found in nature, but we did manage to get in touch with the true nature of tube-driven tone. And we did this with a miniaturized, purely analog module – the Spirit Tone Generator – rather than with large, heavy components.



A close-up, low-angle shot of a circuit board. A bright, glowing orange light source, possibly a resistor or a small lamp, is positioned diagonally across the frame, casting a warm, golden glow over the surrounding components. The circuit board is densely packed with various electronic components, including integrated circuits, capacitors, and resistors. The text "SPIRIT™ TONE GENERATOR" is visible on a component in the foreground. In the background, the name "Hughes" is partially visible on another component. The overall atmosphere is one of precision and high-tech craftsmanship.

SPIRIT™ TONE GENERATOR

MADE IN GERMANY

The Spirit Tone Generator is made in Germany to our uncompromising standards and sealed in a protective housing.

We're talking about a soulful circuit imbued with the spirit of great amp sounds here, so we simply had to call this tech "Spirit."

THE SAGGING CONTROL. FOR UNBRIDLED PLAYING PLEASURE!

You have to drive a conventional output stage very hard for the sound to acquire that magical energy that can not only be heard, but also felt. The Spirit Tone Generator lets you dial in that oh-so-sweet power amp saturation as easily and effectively as on a classic tube amp, but in a far more manageable way. That makes this a creative sound-shaping tool to rival any gain knob.

Twist it to dial in the tone and feel of classic power amps driven to saturation at extremely high volume levels. The Sagging knob on the Spirit Nano Heads gives you total control over power amp saturation regardless of volume. Sagging Spirit-style delivers that the awesome sound of a vintage power amp driven to the point of meltdown. A very sensitive tool, it dials in everything from the hair-trigger response you need for lean, mean rhythm tone to the powerful compression you need to broadcast your musical statements out into the world with in-your-face attitude.



RECORDING WITH THE GOOSEBUMP GUARANTEE

These petite powerhouses never fail to impress. Paired with any speaker, they always deliver sensational performance. But Spirit Nano Heads are also real tone-sculpting tools that produce big studio sound even with the smallest recording setup – no speaker or microphone required.

This is where the inconspicuous Line Out on the back of the amps enters the picture. They feed the Spirit Tone Generator's unfiltered, purely analog signal to the audio interface's line input via a standard instrument cable.

This is why Spirit Nano heads do not need an FX loop or frequency-compensated DI out to take full advantage of all the speaker emulations, microphone modeling, room simulation and effects the digital world has on offer.

All that adds up to inspiring sound with a built-in guarantee to raise goosebumps and tingle spines.



SPIRIT OF *Vintage*

Single-channel amps with no master knob are the holy grail of tone for some, reigning supreme in many guitarists' amp pantheon. No other circuit creates such a direct connection between human and machine. And no other amp responds with such immediacy, feels as alive, or serves up such a sensuous experience in sound. This type of amp was the wellspring from which all those iconic sounds of the '60s and early '70s flowed; the weapon of choice for the rebels who created the blueprint for rockin' tone.

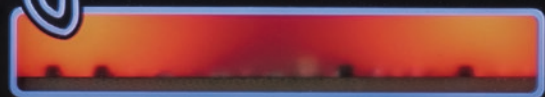
The Spirit of Vintage is the rightful heir to those amps in terms of sound design with its sweeping dynamic range and touch-sensitive response to your phrasing. Best of all, it delivers those goods even with the Master rolled back. The Sagging control lets you wail with wanton abandon, ripping it up with raw but beguilingly beautiful tone, albeit without alienating the neighborhood. Turn it up and you'll have no choice but to dig in!

Rolling back the Gain and Sagging knobs cleans up the Spirit of Vintage's sound when you pick with a light touch. Then, when you hit the strings harder, it breaks up just like the tube amps of yore to crank out warm, wooly distortion oozing with overtones. Higher Gain settings put a touch more grit at your fingertips with kind of distortion you need to play single-note lines with bluesy authenticity. Anything from sweet to snarling goes.

The Tone knob is your all-access ticket to the entire spectrum of less feral tone from early Californian clean to classic British crunch. It's all right there for you to enjoy at the nudge of a knob.



Highs & Mtns



SPIRIT™ NANO SERIES

SPIRIT OF
Vintage

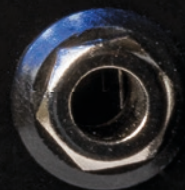
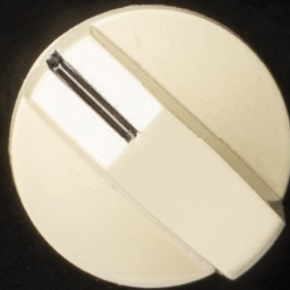
ER

SAGGING

TONE

GAIN

INPUT



SPIRIT OF *Rock*

What would the guitar heroes of the arena rock era have done without the trademark sound of a full stack blasting away to lend wings to their lead lines? We'll never know, but that wall of sound certainly inspired a lot of melodic soloing and virtuoso tapping.

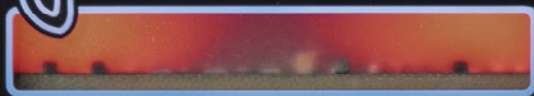
The Spirit of Rock is as dynamic as the Spirit of Vintage, but with added attitude and aggression. It purrs when you pick softly, snarls when you dig in, and roars when you punish those strings. It is so touch-sensitive and responsive that your guitar's volume knob puts the full range of tones from crunch to lead at the beck and call of your pinkie.

The Sagging knob works like a variable turbocharger, welcoming you to the world of brown sound. It is so articulate that every chord note rings out clearly – and we're not just talking about power chords here. Dime the Sagging knob and the amp behaves like a cranked non-master tube amp. It invites you tap into all that sound and fury to let your emotions fly off your fingertips. And if you nudge up the Gain knob, the amp will greedily siphon every drop of sound out of those pickups even at the softest touch of a string. Tapping suddenly seems effortless. And it has more gain than you would expect from a rock amp: From 12 o'clock upwards, it behaves like an amp with an upstream booster.

Do you prefer Californian or British lead tone? Why settle for one when the Tone knob sweeps smoothly from the Pacific to the Atlantic to give you both – and all points in between.



Highs & Watts



SPIRIT™ NANO SERIES

SPIRIT OF
Rock

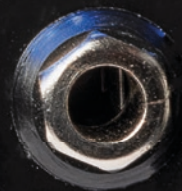
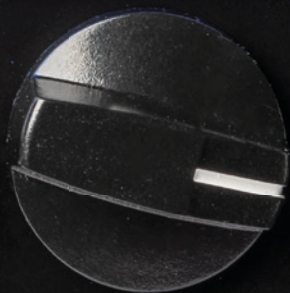
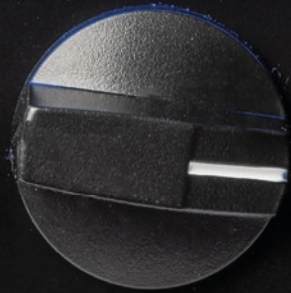
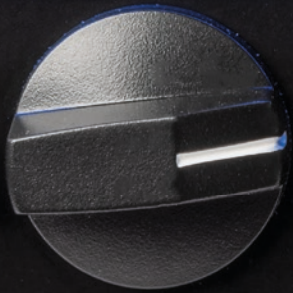
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SAGGING

TONE

GAIN

INPUT



SPIRIT OF *Metal*

Gain isn't everything. But sometimes some is just not enough. The Spirit of Metal offers tons of it. You can go ahead and mothball your booster – you won't be needing for anything beyond the 12 o'clock position. And if you require a little less gain here and there, you can dial it back without a care in the world. Your tone won't get wimpier, just more dynamic and responsive to your attack, choice of pickup, and volume settings.

The Sagging knob greases the gears so that tone just oozes from your fingers with the kind of endless sustain and creamy overtones it takes to let your lead lines soar. Less is sometimes more for riffing, so you may want to dial it back for rhythm work. Laying down a groove generally requires a tighter tone and hair-trigger response from the amp. The Spirit of Metal delivers both with flying colors. Roll back the Sagging knob, and the power amp will respond with the suddenness of a cobra strike. Also, the tipping point into compression will come very late, even when you play chords in a drop tuning.

The Tone control takes you on a tour of the tones that define entire genres of metal, from modern scooped sounds to that classic macho midrange. Incorporating the Gain knob into your tone-sculpting arsenal affords you instant access to all style-defining high-gain sounds, be they of British, German or Californian origin or flavor.



Highs & Watts



SPIRIT™ NANO SERIES

SPIRIT OF
Metal

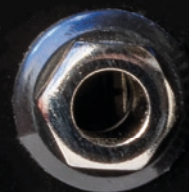
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SAGGING

TONE

GAIN

INPUT



REAR PANEL

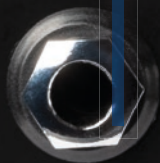
The unfiltered Line Out delivers an unadulterated signal to the computer that your plug-ins are sure to love. And when the Spirit's pure analog signal meets software cab sims, microphone emulations and effects, you're sure to get great studio sound even with the smallest home recording setup.

The Aux In jack is your friend 24/7. Plug in your audio source and there's nothing to stop you from jamming to backing tracks with a refreshingly authentic tone any time, day or night. You won't have to fuss with any outboard equipment. The amp blends the Aux In signal with your guitar's signal and then routes the composite to the front-panel Phones jack in full stereo.

Don't be afraid to plug into big speakers. The pint-sized Spirit packs plenty of punch for a full stack. It delivers bona fide 50 watts at 4 ohms, 25 watts at 8 ohms, and 12.5 watts at 16 ohms. A word of caution: These watt ratings correspond to those of a tube amp, so a Spirit Nano head is a very loud beast indeed. ! You can even operate the Spirit Nano without a speaker, say for practicing or recording.

Designed and engineered in Germany • Made in China

Hughes & Kettner
TECHNOLOGY OF TONE



LINE OUT



AUX IN

POWER

on
off

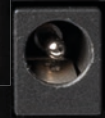
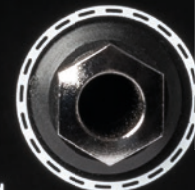
AES



Caution: Connect to speakers and cabinets only! Connection with grounded devices (e.g. power soak or DI Box) will cause serious damage!

SPEAKER

4 – 16 ohms
25 W @ 8 ohms



24 VDC/2.0 A

(PS E) パール楽器製造株式会社

MATCHING CABINETS

We'll make this easy for you: The Spirit Nano Head can drive any type of speaker, no matter how small or large. You want to spend less time agonizing over choices and more time enjoying the amp, so we'll make the decision even easier for you:

Tuned to serve up crisp, extremely dynamic vintage sounds, the 8-ohm Celestion TEN 30 in the TM 110 gives the power amp free rein to do what it does best.

Loaded with a 16-ohm, 12" Celestion Vintage 30, the TM 112 strikes the best balance between crisp and fat sound. It's the perfect vehicle for both vintage and rock tones.

The TM 212 awes and inspires with two 12" Celestion Vintage 30s. Set it upright or on its side, it works the same sonic magic. That versatility comes in

handy when you want to place the head within easy reach, say in the rehearsal room. Ideal for rock and metal, this cab is also great for vintage sounds when it's about to get loud.

The TC 412 may look a bit oversized, but size doesn't matter—when its four 12" Rockdriver Classic 60s pump out this kind of sound pressure. It serves up that stellar 4x12" wall-of-sound experience with all three models.

A mighty mite of a cab, the TS 112 Pro shoehorns a Celestion G12H-75 Creamback into a Thiele Small Enclosure. The sound of a 4x12" stack packed into this tiny housing is perfect for metal and an intriguing option for rock and vintage sounds.



TM 110

TM 112

TM 212

TC 412

TS 112 Pro

Hughes & Kettner



SPIRIT™ NANO SERIES

MASTER

SAGGING

TONE

GAIN

TECHNICAL DATA

Power output:

50 watts @ 4 ohms, 25 watts @ 8 ohms, 12,5 watts @ 16ohms

Aux In: 3,5mm, stereo

Line Out: 6,35 mm

Phones Out: 6,35mm, stereo

Dimensions: Approx. 9 x 9 x 19 cm

Weight: Approx. 1.1 kg incl. power supply

(725 grams without power supply)

