

# LIKE NO AMP BEFORE.

## *Black Spirit 200*



## BLACK SPIRIT 200. LIKE NO AMP BEFORE.

For more than 30 years now, Hughes & Kettner has been all about freedom of expression.

We want you to enjoy the boundless freedom to conjure inspiring sound any way you want; the freedom that comes with versatility and user-friendliness. That is why we pursue every tonal avenue with open-minded, unbiased curiosity.

Our tube amps, transistor amps, hybrid amps and modeling amps have all earned a reputation for being among the best of their breed. And exciting new possibilities emerged when we combined all of this experience and totally rethought what a 'guitar amplifier' could be.

Black Spirit 200 amps are based on an entirely new way of generating world class guitar tone – the technology we call Spirit. This 'bionic' technology has blazed the way to a bunch of new and fascinating benefits for you – in tonality as well as in usability – that really do have the power to change your life.



### **Freedom of tone**

Four channels – Clean, Crunch, Lead and Ultra – that take you on a trip through all the iconic guitar sounds of the last 60 years

### **Power amp sagging**

The world's first true power amp sagging control lets you easily adjust any trademark tone at any volume

### **For any size of venue**

Always world-class tone – from bedroom whisper to insane arena impact

### **Independent**

Play through any cabinet and always experience great tone

### **Feather-light head**

Diminutive size and weight to easily fit your hand luggage

### **Ultra-realistic DI out**

The latest generation Red Box for authentic cabinet tone direct to desk

### **Intuitive**

Trusted analog and direct control of all settings helps to keep focus on what it's all about: inspiration and expression



# SPIRIT: THE BIONIC TONE GENERATOR

Since 1984, we've spent countless hours pouring our hearts and souls into creating tonal masterpieces for discerning players.

Over the years, we've been exploring the origin of the tonal magic of tube amplifiers more and more deeply. And what became obvious is this: it's about way more than just the tube. The true tonal magic emerges from all the 'weird' dynamic interactions between the single circuit sections and the amp stages, the transformers and the speakers.

Together, these highly complex and dynamic physical phenomena create that rich, organic and tactile sound experience guitar players are looking for.

The Spirit Tone Generator technology faithfully recreates the natural yet wildly complex interactions of traditional tube amp circuits on a digitally controlled but strictly analog working platform.

This miniature masterwork houses the essence of the physics behind tube amplifiers, with all of the intensity – hereby creating the rich and responsive tonal behavior that gives you an unbridled joy of playing. Put simply, Spirit is made to inspire guitarists to perform at their best.





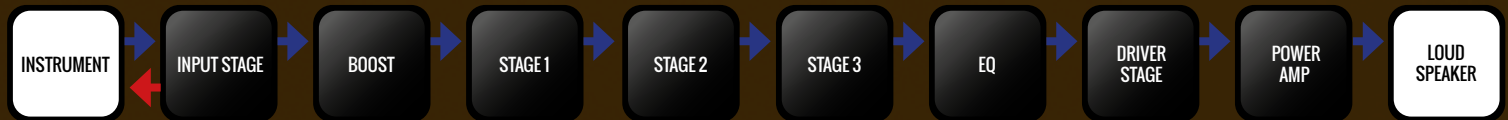
The Spirit Tone Generator is crafted in Germany and housed on a sealed PCB. Distilled from the world's most famous amp tones, it's the pure essence of what makes guitar tone great. That's why we named the technology Spirit.

# SPIRIT TECHNOLOGY: HOW IT WORKS

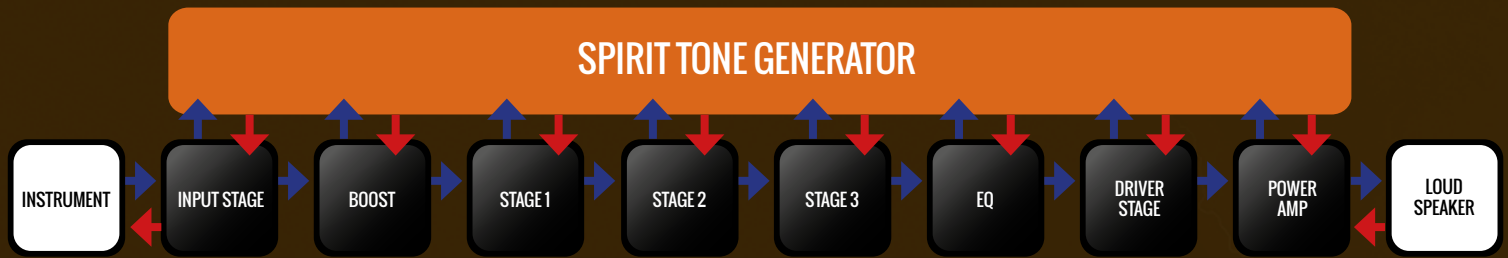
## TYPICAL TUBE AMP WORKINGS



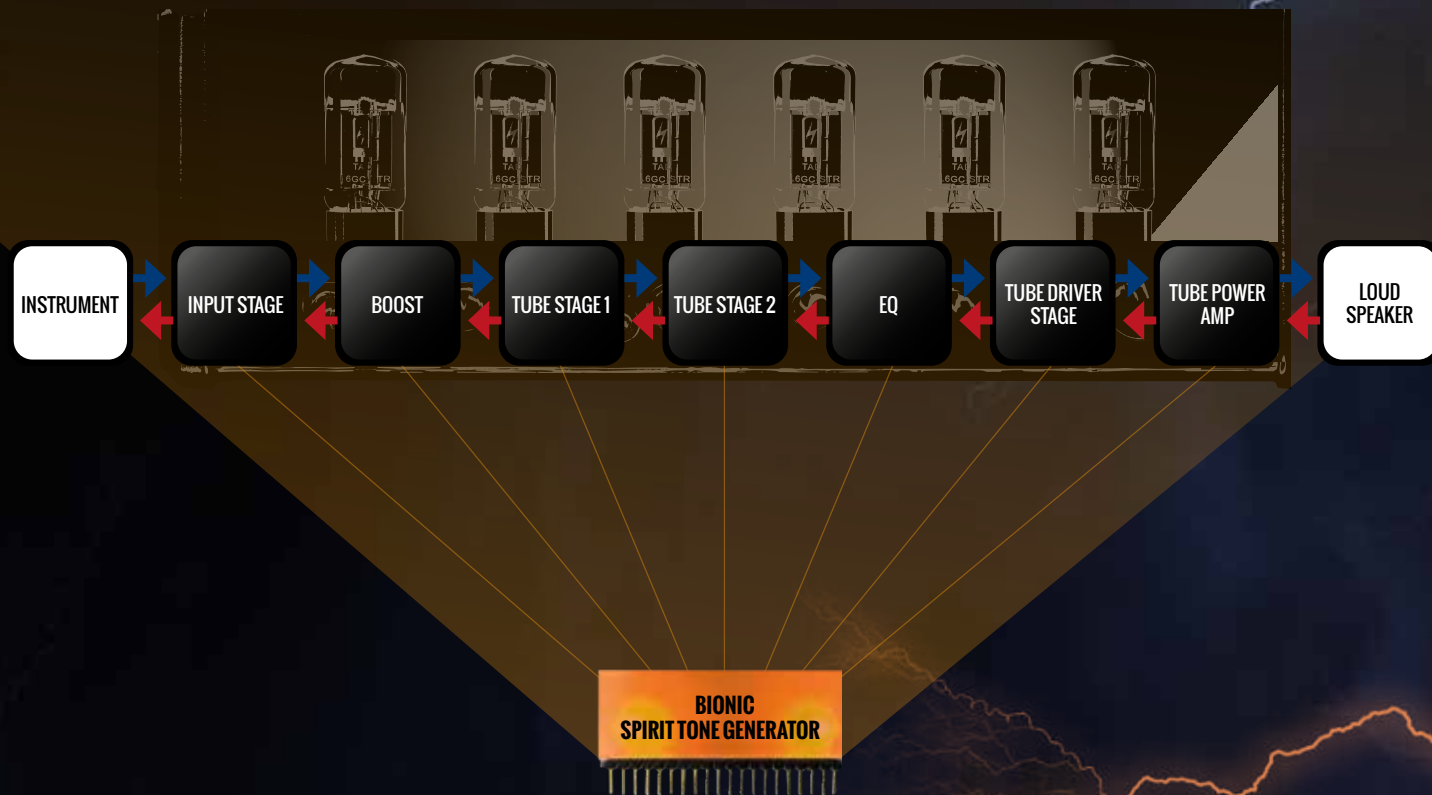
## TYPICAL NON TUBE AMP WORKINGS



## SPIRIT TECHNOLOGY WORKINGS



# THE ALL NEW BIONIC SPIRIT TONE GENERATOR



# ALL YOUR TONAL DREAMS

Black Spirit 200 amps feature four channels – Clean, Crunch, Lead and Ultra – that take you on a trip through all the trademark tones of the last 60 years.



The **Clean** Channel offers endless pristine headroom, and way more besides: engaging the Boost and tweaking the gain and sagging controls will give you access to an awe-inspiring array of sounds that still fall under the Clean remit!

**Crunch** delivers classic overdrive sounds at their most assertive! From light levels of breakup to thickly compressed, turbo-charged all-out distortion, the Crunch Channel delivers a knockout tonal punch.

The **Lead** Channel celebrates the unique sound produced by cascading tube gain stages. With oodles of gain on tap, classic hard rock riffs and licks will fly off your fingertips courtesy of this channel's painstakingly tweaked compression!

Perfect for modern metal and high-gain sounds, the **Ultra** Channel delivers sumo-sized low end and an ultra-fast response up to the highest volume levels.

### **Channel-tailored boosts**

Like four external stomp boosts: depending on the channel, engaging the boost will give you an even more assertive, creamier, or punchier tone.

### **Innovative power amp sagging control**

Much of the fascinating tone of the great clean, crunch and lead guitar sounds is down to a drop in power supply voltage when spiking transient signals hit the output stage hard. Now, for the first time in an analog amp, Black Spirit 200 lets you adjust the amount of power amp sag regardless of the volume level.

### **8 ultra-realistic speaker emulations**

The integrated Red Box AE+ direct output offers you a selection of eight cabinet models. Each captures the sweet spot of that particular cab with remarkable authenticity and serves it with zero latency. This option is not only more convenient than miking up a cab. In most cases, it sounds a whole lot better!

### **Play through any cabinet**

Black Spirit 200 amps are the world's first guitar amps that let you also play directly into a passive full range PA cabinet or monitor wedge without losing the sweet character of a high-class guitar cabinet.

### **Power**

With 200 watts of output power, Black Spirit 200 is one of the loudest guitar amps ever. You'll probably never need this kind of volume, but you'll always love the dynamic headroom. What's more, the unprecedented Spirit technology delivers that great sound even at whisper quiet levels.



# EASE OF USE

Black Spirit 200 amps offer a more than comprehensive set of features, all accessible directly and with the trusted handling you expect from a real guitar amplifier.

Four inspirational, strictly analog channels plus a complete range of built-in digital reverb, delay and modulation effects make them a perfect all-in-one solution, while a serial FX Loop lets you connect external FX units.

All parameters apart from the Master Volume can be stored in up to 128 presets and recalled any time you want! Black Spirit 200 amps are the perfect solutions on stage and for your sound library in the studio or at home.

## PHONES/LINE

The headphone output provides a stereo signal for audio streaming, and also offers you access to the Red Box's beautiful 'ambience emulated' sounds. You can play along to your favorite backing tracks using Bluetooth this way too – it all makes for very pleasurable 'silent' practice sessions!

## MASTER

Master defines the overall volume level (for the power amp and the headphones out, too). It's the only knob that is not programmable, so handle it carefully: it puts up to 200 watts of power at the command of your thumb and index finger!



## PRESENCE RESONANCE

Presence controls the amount of silky harmonic overtones generated by the power amp circuitry.

Resonance controls the interaction of power amp and speaker. Twisting this knob counterclockwise dampens the speakers' and the cabs' resonance, while turning it clockwise intensifies resonance for extra low-end punch.

## SAGGING CAB TYPE

Sagging gives you full control over the power amp's sagging and saturation behavior.

With FX Access button engaged: choose one of the Red Box AE+'s eight carefully selected and emulated cabinets.

# Hughes & Kettner

## Black Spirit 200



### NOISE GATE REVERB

The world's most musical Noise Gate guarantees you a noise-free yet natural sound experience. This control knob determines its sensitivity.

With the FX Access button engaged, this knob controls the amount of Reverb.

### EQ DELAY CONTROLS

The settings of the passive 3-band EQ are also savable, which means you can store different EQ settings for each of your sounds, or do things like using the Mid knob to create a mid-boosted sound for a specific song or tone.

With FX Access button engaged: the EQ controls work as delay effects controls.

### VOLUME MOD TYPE GAIN INTENSITY

The gain and channel volume knobs open up a world of sonic tweaking capabilities. Anything goes, so let the muse take you where it will, and remember: the gain and volume knob settings can also be saved in all your presets!

With FX Access button engaged: control the Chorus, Flanger, Phaser or Tremolo effects, and set their intensity.

### CHANNEL SELECT

This chicken head knob doesn't just switch between the amp's four channels; it also switches the characteristics of all the amp's parameter controls so they perfectly match the voicing of the selected channel.

### BOOST

Kick in the Boost to target specific frequency ranges in your tone and kick them up a notch. Depending on the channel, it will yield an even more assertive, creamier, or punchier tone. The Boost is tailored to each channel's character, meaning that it works like four individual external boost pedals.

# THE STEEL FIST IN A VELVET GLOVE

## TS 112 PRO CABINET

Challenging conventional guitar cabinet wisdom, we pursued the vision of building a readily portable 1x12" format that delivers the same wall-of-sound vibe as a mighty 4x12" cab. It took a radical reinvention of a time-honored design to realize it, but the result is simply stunning: meet the TS 112 Pro. Every joint of this closed-back plywood housing is glued, and Thiele/Small ports grace its front panel. Painstakingly tuned, they deliver the brawny low-end punch that, until now, was the sole preserve of 4x12" cabs.

Only a true 'best of the best' speaker would do, so we opted for a powerful Celestion G12H-75 Creamback. This made-in-the-UK monster

delivers the goods in the TS 112 Pro.

The cabinet's precision-tuned dimensions make the most of the Creamback by damping its deflection, yet leaving enough room for this premium speaker to breathe. Striking the perfect balance between restraint and abandon, this tuning lets the speaker perform to its full tonal potential yet deliver more sound pressure than it could in any other enclosure. Every single watt is converted into impressive sound pressure that cuts through the din of even very loud rehearsal room and stage situations.

Rated for 16 ohms, this speaker tames the power amp's unruly 200-watt output, bringing Black Spirit 200 down to around 100 watts. But that doesn't mean you have to settle for less when you want it all: simply connect a second cab to your setup via the TS 112 Pro's parallel output to tap the full 200 watts at 8 ohms.



# ONE-HAND WALL OF SOUND

## BLACK SPIRIT 200 COMBO

Designed to be the 'largest' sounding 1x12" combo ever produced, the Black Spirit 200 Combo delivers a true wall of sound playing experience that players can carry in one hand.

To achieve the punchiest yet most-balanced frequency response ever in a combo of this size, we built the Black Spirit 200 Head's electronics into the TS 112 Pro's sophisticated Thiele/Small enclosure, including the same speaker: the Celestion G12H-75 Creamback.

Of course, this means the TS 112 Pro is a perfect match for the Black Spirit 200 Combo in terms of tone, hardware and visuals. Plug one into the Combo's additional Speaker Out to create a ferocious 200-watt stack, and let that savage beast roar!



# EVERYTHING YOU LOVE ABOUT THE FLOOR FORMAT, REDEFINED

## BLACK SPIRIT 200 FLOOR

What we love about all-in-one floor devices is the speed and ease of use on stage. Just one product, no cables from your complicated pedalboard to your amp, just your guitar plugged into your floor unit and your unit connected to FOH and monitoring. Everything is in its right place, and nothing can get lost.

The only limitations up to now have been the digital feel of processors, and the lack of integrated power amps.

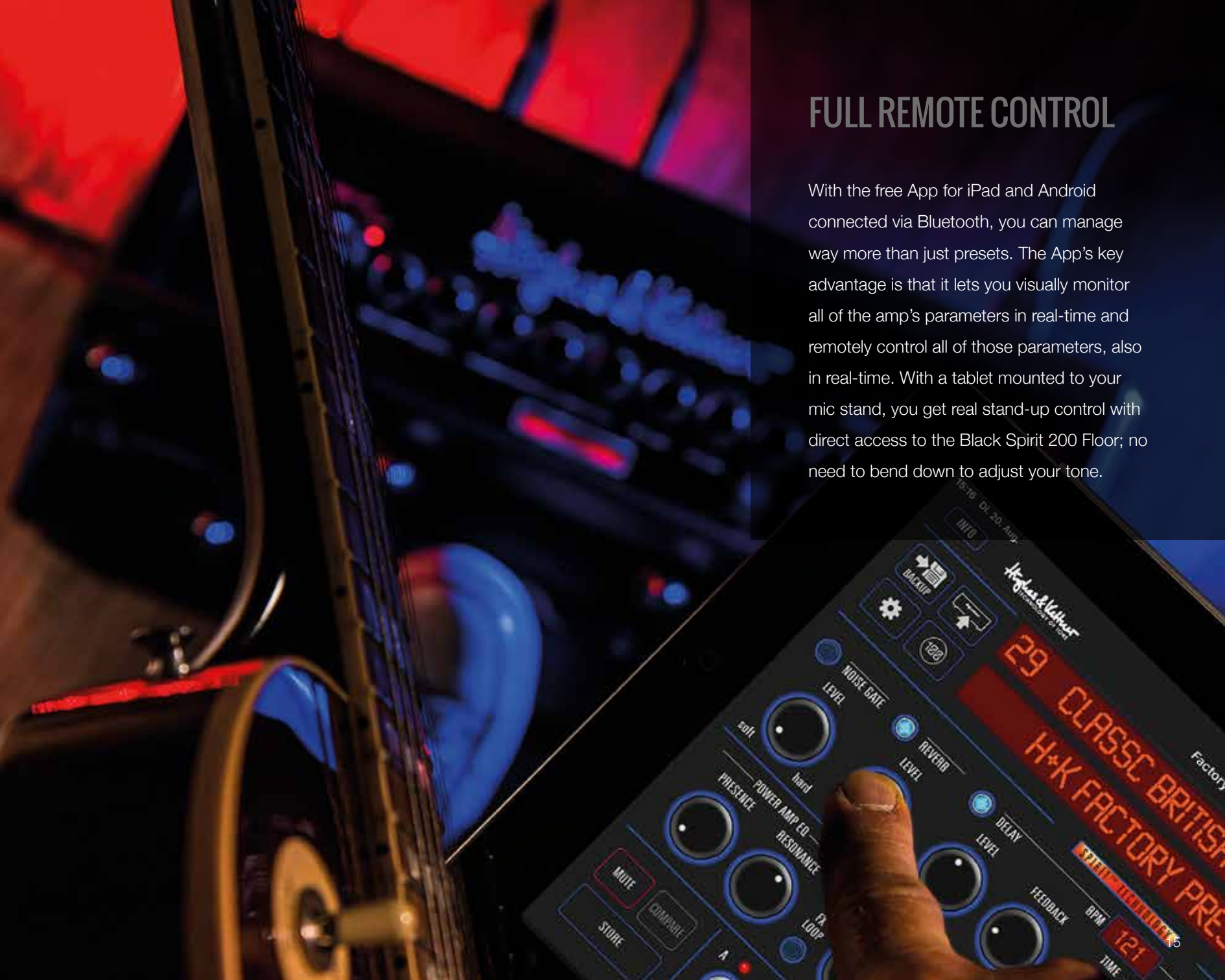
The Black Spirit 200 Floor is way more than just a pedal: it combines everything you love about the electronics of the Black Spirit 200

Head, including the immense power of 200 watts, with an integrated, perfectly matched MIDI Board. What's more, it offers two additional pre-loops you can use to integrate your favorite stompboxes, and an adjustable XLR Monitor Input to control your own monitor signal without the need for additional mixers.



## FULL REMOTE CONTROL

With the free App for iPad and Android connected via Bluetooth, you can manage way more than just presets. The App's key advantage is that it lets you visually monitor all of the amp's parameters in real-time and remotely control all of those parameters, also in real-time. With a tablet mounted to your mic stand, you get real stand-up control with direct access to the Black Spirit 200 Floor; no need to bend down to adjust your tone.





## BLACK SPIRIT 200 HEAD

### SUPERIOR CONNECTIVITY

Black Spirit 200's Aux In allows you to connect any kind of music player, and it can also be used to connect drum machines or additional instruments.

The serial FX Loop can be activated or deactivated as a part of every preset. This means you can always have all your external FX connected and switched on, and simply activate the FX Loop when you need them in

play! Black Spirit 200 will bypass them for you when they are not needed.

Black Spirit 200 amps integrate into any MIDI setup. Using the Hughes & Kettner FSM-432 MK III MIDI board, you can control the amps just as you would with an ordinary footswitch without having to first bone up on MIDI. For remote control of any knob, simply connect an expression pedal to the FSM MK III and

adjust controls like gain, EQ or reverb in real time. Of course, any other MIDI gear will connect and work as well.

Hughes & Kettner's award-winning Red Box cabinet simulator has been the music industry's go-to device for recording guitars without microphones for decades.

Black Spirit 200 features the most highly evolved Red Box ever: Red Box AE+. It's the simplest, easiest and flat-out the best sounding way of sending your tone to a mixer, a PA or a recording device. But what truly sets Red Box AE+ apart is its versatility: choose from eight different cabinet types – from monstrous 4x12 stacks to compact 1x12 cabs, and anything in-between –

to truly personalize your tone. You can switch the output level from Mic to Line, so whatever you want to connect your amp to, the level will match.

Black Spirit 200 amps also feature a truly new kind of speaker output. With the cabinet type switch you decide if you want to play through a guitar speaker or a Full Range

Flat Response (FRFR) cab. The Output Power switch limits the wattage according to the location or the power capacity of the cab you're using. And they're the perfect amps for world tours: Black Spirit 200 amps run on every voltage between 100 and 240 volts without affecting the output power or sound consistency!

The Black Spirit 200 Combo offers an extra connection for an additional cabinet, e.g. the Hughes & Kettner TS 112 Pro, which - just like the combo - is fitted with a 16-ohm Celestion G12H-75 Creamback speaker.



# BLACK SPIRIT 200 FLOOR AMP: ADDITIONAL CONNECTIONS



With the XLR Monitor In, you're free to dial in the balance of monitor and amp sound as you see fit, and you don't need to fuss with an outboard mixer to do so.



The two programmable pre-loops let you use your favorite pedals selectively, dropping them into the signal path only when you activate certain presets. When deactivated, these loops are removed from the signal path altogether so they cannot color your amp's tone.



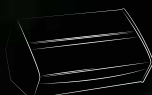
You can connect expression pedals or footswitches to Control 1 and 2. This lets you control volume or any other programmable function of the Black Spirit 200 Floor in real time.



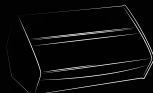
# HOOKING UP YOUR BLACK SPIRIT 200

Your personal connection to Black Spirit 200 is matched only in its totality by the amp's connectivity to the musical world outside!

Here's how to get your Black Spirit 200 heard:



Recording devices, mixing desks, in-ear systems,  
powered PA speakers, powered studio monitors



Guitar cabinets, non-powered PA and hi-fi speakers  
(in full range mode)



Stereo headphones , studio monitors, Aux inputs  
of hi-fi systems



Any kind of stereo line level source



Bluetooth audio streaming, remote control

# THE AWARD-WINNING BLACK SPIRIT 200!

Black Spirit 200 has scooped pretty much every prize going since its launch.

The amp has already won a Premier Guitar Premier Gear Award, Guitar World's Gold Award and Guitarist Magazine's Guitarist Choice award, and in 2019 the Black Spirit 200 head beat off a host of strong global competition to secure the prestigious MIPA Award for Best Guitar Amplifier!



# ALL THE SOUNDS YOU COULD EVER NEED, HANDS-FREE!



Saving and recalling all your favorite Black Spirit 200 tones couldn't be simpler: just use the optional Hughes & Kettner FSM-432 MK III MIDI board, where every one of your presets is the tap of a toe away!

But the FSM-432 MK III has way more tricks up its sleeve. For example, you can use the control inputs to connect more footswitches or expression pedals. This opens the door to a bunch of awesome additional functions like reverb volume swells, gain swells, or even power amp sagging level swells!

You can also use the FSM-432 MK III to set and adjust your delay time (using the Tap button) on the fly – perfect for live work.

And if Preset Mode is not for you, the FSM-432 MK III also has a Stompbox Mode, where the board operates more like a traditional footswitch, toggling between the amp's four channels and switching the built-in FX and Boost on and off. When you change channels in Stompbox Mode, Black Spirit 200 will automatically save your settings (gain, EQ, etc.) for next time.

With the FSM-432 MK III, up to 128 Black Spirit 200 presets are accessible via 32 banks, each of which features 4 presets. The Bank Up/Down buttons toggle between banks; your sound only changes when you select your chosen A, B, C or D preset button within a bank.



# THE BLACK SPIRIT 200 APP FOR IPAD AND ANDROID

Create, edit, save and share all your favorite sounds via Bluetooth using the Black Spirit 200 Remote App, available for iOS and Android. The App, which you can download for free at the Apple App Store and Google Play and runs on all iPads running iOS 10 or later, lets you:

- Store and backup all your favorite sounds
- Manage an unlimited number of presets in as many libraries as you need
- Visually monitor all of the amp's parameters in real time
- Remotely control all of those parameters in real time
- Load/send presets via email

With the Black Spirit 200 Remote App, you'll never lose a great tone again!





# AMPLI FIGHTER





**“Black Spirit 200 was not only a huge surprise to me when I plugged it in but I believe it is also the beginning of a complete reform in the way that future amplifiers will be made.**

**We have seen technology in all other fields shrink in size and become more efficient, but in the amplifier world we have tried to recreate the sounds we love with unconventional methods that don't follow our usual mindset as a species. It's amazing that no one else has thought of this, or if they have, they haven't applied it. Take the tube amplifier and shrink it down in size to follow our current technology. Genius really!**

**Black Spirit 200 really is the future of what we as guitar players love: the feel and the response of what we grew up loving. It's like being in your home and you've just redecorated it to what you like now. It's fresh and fulfilling but with the foundation of what made you originally fall in love with it.”**

## **JOHN BROWNE**

John 'Browne' Browne is guitar player and composer for the metal band MONUMENTS and Flux Conduct. He's been playing guitar for 19 years and has been developing the inimitable style he's known for since 2002-2003.

**[tinyurl.com/johnbrownemonuments](http://tinyurl.com/johnbrownemonuments)**

**[youtube.com/user/MONUMENTSONLINE](https://www.youtube.com/user/MONUMENTSONLINE)**



## JOSS ALLEN

**“BLACK SPIRIT 200: THE ONLY AMP YOU WILL EVER NEED!”**

A terrifyingly quick shred demon, Joss is one half of Guitar Bros Demos alongside producer Tom, and you'll also know him from various other online musical adventures.

In his own words:

“Guitar Bros Demos. We don't give a FUUUUUZZZZZZZ!”

[tinyurl.com/guitarbrosdemos](http://tinyurl.com/guitarbrosdemos)



## JACK FLIEGLER

**“BLACK SPIRIT 200 PACKS SUCH A HEAVY SOUND IN A SUPER LIGHTWEIGHT PACKAGE! HELL YEAH DUDE.”**

Jack Fliegler is the guitarist and producer for Arizona-based Technical Black Metal band Singularity and mastermind behind the wildly popular ToxicxEternity YouTube channel where he makes weekly metal covers of video game songs.

[youtube.com/ToxicxEternity](https://youtube.com/ToxicxEternity)



## JAY LEONARD J

**“WANT AN AMP THAT THINKS LIKE A TESLA BUT GROWLS LIKE A ‘67 SHELBY? YEAH... I THINK THESE GUYS GOT SOMETHING FOR YA.”**

Jay Leonard J's rich and diverse musical technique has led to numerous worldwide tours and recording scores for Netflix, television, and film. Jay also performs with in-demand session band Trilokay and operates a recording studio in Vancouver, Canada, while simultaneously hosting his own awesome YouTube channel!

[youtube.com/user/JayLeonardJuatco](https://youtube.com/user/JayLeonardJuatco)



## MICHAEL WAGNER

**“BLACK SPIRIT 200 IS AN AWESOME ALL-ROUNDER - FROM JUICY BLUES CLEAN TONES TO NASTY METAL SOUNDS. I’VE NEVER HEARD SUCH A GREAT PACKAGE IN AN AMP THIS SMALL!”**

The award-winning German blues-rock sensation Michael Wagner is a top tutor over at Jam Track Central, as well as playing with a bunch of top bands and contributing his expertise to guitar magazines.

[michaelwagnerguitar.com](https://michaelwagnerguitar.com)



## HENNING PAULY

**"YOU KNOW AN AMP IS GREAT WHEN YOU JUST DON'T WANT TO STOP PLAYING IT. I PLUGGED INTO THE AMP AND SPENT AN HOUR PLAYING THE CLEAN CHANNEL ALONE! I HAD NO IDEA HOW MUCH TIME HAD PASSED!"**

Henning Pauly's EytschPi42 YouTube channel is infamous in the music community: he's known for immature jokes that are not very funny, wearing ridiculous shirts and sweaters and living with 10 animals that always show up at the end of his videos! But he's also a serious producer and musical talent as well as being the brainchild behind pioneering YouTube events like Gearhead University.

[youtube.com/user/EytschPi42](https://youtube.com/user/EytschPi42)

## ARENA SETUP

Black Spirit 200 can drive any size and number of guitar cabinets with a total impedance of 8 to 16 ohms. Here, John Browne used a double full stack with four 4x12 cabinets to unleash his earthshaking drop-tuned arena metal roar!



## FRFR SETUP

Use Black Spirit 200 to drive any kind of passive or powered Full Range Flat Response speaker! Here, Michael Wagner replaced the 2x12 cab with a passive PA speaker connected directly to the Black Spirit 200's speaker out, so he could enjoy the different Red Box AE+ cabinet emulations on stage.





## JAM SETUP

Black Spirit 200 doesn't just offer a room emulated stereo headphones out, so you can enjoy great tone in the still of night; you can even use it to jam to your favorite tracks! Just connect your music player to the built-in Aux Input or stream music from any Bluetooth-enabled device direct to your amp!



## RECORDING SETUP

The Red Box AE+ makes life in the studio so much easier: you have instant access to constant great tone direct to desk, with no need for micced cabs. And, if you also use the free App for iPad, you don't even need to physically touch your amp to tweak your tone. Take your seat in the studio's speaker sweet spot and dial in your tone exactly how the track needs it. Plus, you can save all your settings for the next session without overwriting your stage presets in the amp.



# BUILD YOUR OWN STACK!

The TS 112 Pro cabinet is a perfect match for the Black Spirit 200 Head, Combo and Floor.





Back row (l-r): Tom from Guitar Bros Demos, Steve From Boston, Jack 'ToxicXEternity' Fliegler, Phil 'Know Your Gear' McKnight, Peredur 'Perry' ap Gwynedd from Pendulum.

Middle row (l-r): Romain from GuitarCook TV, Jay Leonard J, Rockloé, Henning 'HP42' Pauly, Kfir Ochaion, Isaac from Gear Gods, Vladimir 'CatPick Studios' Halinen, Harry from HarryAndAGuitar.

Front row (l-r): Trey from Gear Gods, Joss Allen from Guitar Bros Demos, Steve Stine, Mika 'Mr. Fastfinger' Tyyskä, Michael Wagner.

# COMPLEMENTARY PRODUCTS & ACCESSORIES



## BLACK SPIRIT 200 COMBO SOFT COVER

The Black Spirit 200 Combo soft cover doesn't just offer optimum protection during transport and storage: it also features a handy cable pocket and a compartment for the Hughes & Kettner FSM-432 MK III MIDI Board.



## SOFT BAGS FOR BLACK SPIRIT HEAD AND FLOOR

Travel light and protect your amp on the go with this padded bags. Their padded interior keeps your amp safe from harm and looking like new! With the handle and a removable shoulder strap, you have hands-free carry options.



## RACK MOUNTS

Due to the high demand from touring artists who want to mount their amps into roadworthy racks, we've designed an easy to install solution! The RM-BS rack mounts are screwed to the side of your Black Spirit 200 head to turn your amp into a ready-made 19" rack unit.



## FSM-432 MK III MIDI BOARD

Full description on page 22.



## BLACK SPIRIT 200 REMOTE APP

Full description on page 23.

# TECHNICAL DATA

| MODEL                       | BLACK SPIRIT 200 HEAD  | BLACK SPIRIT 200 COMBO  | BLACK SPIRIT 200 FLOOR   |
|-----------------------------|--|---|--|
| Power Output                | 2, 20, 200 Watts (switchable)  |   |  |
| Speaker                     | –  | 1 x 12" Celestion G12H-75 Creamback   | –  |
| Channels                    | Clean, Crunch, Lead, Ultra   |   |  |
| Noise Gate                  | IDB (Intelligent Dual Breakpoint) Noise Gate   |   |  |
| Integrated Effects          | Reverb, Delay, Modulation (Chorus, Phaser, Flanger, Tremolo)   |   |  |
| Enclosure                   | Metal, molded PE   | Birch Plywood, faux leather   | Metal  |
| FX Loop                     | Serial   |   |  |
| Pre Loop 1 & 2              | –  | –   | Serial, true bypass  |
| Red Box AE+                 | 8 cabinet emulations, XLR balanced   |   |  |
| Fully Programmable Controls | Channel, Gain, Volume, EQ, Sagging, Presence, Resonance, Noise Gate, FX Parameters, FX Loop On/Off, Cabinet Type |   |  |
| Remote Control              | Bluetooth, MIDI  |   |  |
| Aux Input                   | Mini jack, 3.5 mm stereo   |   |  |
| Monitor Input               | –  | –   | XLR, balanced  |
| Audio Streaming             | Bluetooth  |   |  |
| Phones/Line jack            | 6.3 mm (1/4") stereo, 50 Ohms  |   |  |
| Speaker Out                 | 1 x 8-16 Ohms, switchable from guitar cab to fullrange speaker   | 2 x (1x internal speaker, 1x external speaker) 8-16 Ohms, switchable from guitar cab to fullrange speaker | 2 x 8-16 Ohms, switchable from guitar cab to fullrange speaker   |
| MIDI In                     | 7-pin, 20 V DC phantom power (150 mA), 5-pin compatible  |   |  |
| MIDI Out/Thru               | 5-pin  |   |  |
| Max. power consumption      | 300 W  |   |  |
| Power supply                | 100-240 V, 50-60 Hz  |   |  |
| Integrated MIDI Board       | –  | –   | Preset Mode: 32 banks, 4 presets per bank, Tap Delay<br>Stomp Box Mode: Clean, Crunch, Lead, Ultra, Mod on/off, Delay on/off, Boost on/off<br>Direct 7 Mode: direct access to 7 out of 128 presets |
| Control 1 & 2               | –  | –   | TRS jacks for footswitches and expression pedals   |
| Dimensions (W x H x D)      | 410 x 155 x 150 mm   | 450 x 445 x 290 mm  | 470 x 70 x 255 mm  |
| Weight                      | 3.6 kg / 7.8 lbs.  | 14.9 kg / 32.9 lbs.   | 4.1 kg / 8.9 lbs   |



*Hughes & Kettner*  
TECHNOLOGY OF TONE

english  
MS D-3109, 9880950  
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[www.hughes-and-kettner.com](http://www.hughes-and-kettner.com)