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NEUTRON
FIRST CONTACT LITE
CORE AMP & FX PACK



Neutron Core NC-NFC-LITE-NDX Amp Profile Pack for NAM & Convology XT

User Guide

Introduction

Neutron Core amp pack for Neural Amp Modeler

Thank you for downloading **Neutron First Contact Lite**, our free, curated introduction to the Neutron Core ecosystem. It has been designed to let you evaluate the unique things Neutron Audio offers: NDX Gen2 dynamic profiling realism, pickup-optimised sounds, modular AIO / DI / PRE profile formats, Quantum Speaker integration, and our full creative advanced convolution FX presets for Convology XT.

The profiles in this pack are full-quality NAM A1 Standard architecture compatible and should work in all plugins and devices that load that format.

What You Will Need

You will need the Neural Amp Modeler plugin or standalone app, or a compatible device or plugin capable of loading standard architecture NAM A1 full-quality files.

The official NAM plugin for PC and Mac can be obtained for free here:

<https://www.neuralampmodeler.com/>

The Convology XT plugin is also free and available here:

<https://wavearts.com/products/plugins/convology>

To get your free lifetime serial key for Convology XT, read the FAQ here:

<https://wavearts.com/support/faq#how-do-i-get-a-convology-xt-serial>

About

Neutron Core is a profiling ecosystem for NAM, designed to provide guitarists and producers with exceptional tonal and dynamic realism, practical flexibility, and a coherent modular workflow.

Neutron Core products can be used individually or combined with each other and with our Quantum Speaker, pedal and PowerPack profiles to create a fully integrated mix-and-match environment.

Our profiles and presets use the best tools available, including NAM for profiling and Convology XT for advanced convolution effects. Each pack is built to deliver realistic, professional results, capturing not only the sound of the source equipment, but also the way it behaves under dynamic playing conditions.

Importantly, we avoid applying stylistic pre-EQ to our profiles. This allows users to tailor the sounds to their own music without destructive EQ baked in. We use simple high-pass and low-pass filtering only where appropriate on AIO full-rig profiles to help get closer to a finished sound. DI, PRE and Quantum Speaker profiles remain untouched for maximum modular versatility.

This manual focuses on **Neutron First Contact Lite**, the free entry point into Neutron Core.

Neutron First Contact Lite

This pack is built to demonstrate that Neutron Audio is not simply offering another folder of amp captures. First Contact Lite introduces the unique Neutron approach: profiles designed as part of a behaviourally consistent system, built by audio professionals for real music production and performance. This pack is built from widely available, modest amplifiers by design. It demonstrates that excellence is not determined only by the rarity or value of the gear captured, but also by the knowledge, capture methodology, advanced modelling tools, and professional product design we employ.

Neutron Audio operates under two internal hallmarks:

- **True to the source**
- **Technology fused with expertise**

First Contact Lite exists to demonstrate both.

What Makes Neutron's approach Different?

Neutron Core has been designed around several key Neutron technologies and workflow ideas.

1. Pickup-Optimised Sounds

Most profile packs assume one sound suits every guitar.

We KNOW that is not the case.

The Neutron Core range includes sounds created specifically for:

- **Humbucker-equipped guitars**
- **Single-coil-equipped guitars**
- **Universal use cases**

This matters because pickup type fundamentally affects how the signal chain behaves and how the amp or pedal (or both!) is set. A sound optimised for a Strat or Tele does not necessarily react correctly to a Les Paul or other humbucker guitar, and vice versa.

First Contact Lite includes both humbucker and single-coil optimised sounds so you can hear the difference for yourself. Of course, there is nothing to stop you from using either type with ANY guitar, but knowing the intention of the sound's design can really help you to get more quickly to what you want based on the instrument you are using at the time.

2. AIO, DI and PRE Profile Formats

Neutron Core gives you multiple ways to work.

AIO profiles are All-In-One full-rig sounds. They include the complete amplifier and speaker system and are designed for instant load-and-play use.

DI profiles remove the speaker stage, allowing you to pair the amp with Quantum Speaker or another external speaker solution.

PRE profiles contain only the preamp section, allowing deeper modular rig building with power amp and speaker profiles or using with real power amps and speakers.

First Contact Lite includes examples of all three formats so you can evaluate the Neutron Core workflow.

3. Quantum Speaker

Complete speaker and microphone behaviour, captured at the source.

Quantum Speaker is Neutron's source-captured non-linear speaker profiling system. It is designed to preserve speaker and microphone behaviour in a way that maintains more of the feel, response, and dynamic continuity of a real recorded guitar rig.

In First Contact Lite, a Quantum Speaker QuickStart profile is included so you can evaluate how Neutron's modular amp and speaker workflow behaves beyond conventional IR-based cabinet simulation.

DI + Quantum Speaker preserves full dynamic behaviour without the compromises commonly associated with linear IR workflows.

You are no longer required to choose between modularity and feel.

4. Full Convology XT Advanced Convolution FX Workflow

Each Neutron Core pack includes curated Advanced Convolution FX presets for Convology XT.

They are a core part of the Neutron workflow, designed to move you quickly from raw amplifier tone to more complete, production-ready sound.

First Contact Lite includes the **full First Contact FX preset set**.

This gives you the complete creative FX workflow from the paid pack and lets you experience one of the most unique parts of the Neutron Core ecosystem in its full glory.

5. NDX Gen2 Dynamic Realism

NAM was already one of the most accurate profiling solutions available in terms of frequency content.

NDX, or **Neutron dyNAMix**, is Neutron Audio's bespoke NAM training process, developed to capture an additional layer of time-based dynamic realism within standard full-quality NAM profiles.

NDX is designed to prioritise:

- time-domain accuracy

- transient envelope preservation
- clearer separation of compression and saturation behaviour
- gain-dependent response consistency
- stability under dynamic extremes
- realistic tactile response under the fingers

The result is improved articulation, dynamic fidelity and feel, particularly in circuits operating under complex saturation, compression, or time-dependent behaviour.

6. Neutron Inductor and Impedance-Sensitive Capture

Vintage fuzzes, treble boosters, and certain other analog circuits depend heavily on pickup loading and impedance interaction.

The **Neutron Inductor** recreates correct pickup loading conditions during capture.

Without correct impedance interaction, these circuits behave differently. With it, they respond as intended.

This is especially important for effects such as octave fuzz, where the octave generation, harmonic movement, and touch sensitivity are strongly affected by guitar, pickup type, guitar volume and playing dynamics.

First Contact Lite includes an octave fuzz profile to demonstrate this type of complex non-linear behaviour. Use your neck pickup and play high on the neck to unlock real, analog octave fuzz behaviour in a profile.. this demonstrates the unique abilities of the Neutron Inductor to capture real device behaviour that it is traditionally very difficult to do so accurately.

More Than EQ: Why Feel Matters

Neutron profiles are about more than EQ. They are about behaviour.

The difference is often most obvious when you play dynamically: rolling the guitar volume back, digging in harder, changing pick attack, moving between clean and driven amp settings, or comparing fast transients against sustained chords.

There are always arguments around A/B listening and blind tests when it comes to amp and speaker simulation. Those comparisons can be useful, but they do not tell the whole story.

What matters is not only how something sounds in isolation, but how it feels when you play through it.

That matters because feel connects the player to the sound. When the response is more natural, the instrument feels more alive. You play differently. You phrase differently. You push and pull against the sound in a more musical way and it reacts to your playing like the real gear.

That connection inspires better performances.

And a great performance IS heard in the mix. It IS heard in the room and it IS heard from the back of the venue when playing live.

That is why Neutron focuses on dynamic realism.

What's Included

Inside **NC-NFC-LITE-NDX First Contact Lite** you will find:

11 NDX NAM Profiles

These include:

- 6 AIO full-rig profiles
- 2 DI no-speaker profiles
- 2 PRE preamp-only profiles
- 1 Quantum Speaker QuickStart profile

16 FX Presets for Convology XT

The full First Contact FX preset set is included for you to try.

6 Filter IRs

These include:

- 3 standard SSL-style HPF / LPF filter IRs
- 3 enhanced filters using Pultec-style EQ shaping

The product is packaged as:

NC-NFC-LITE-NDX

The included NAM profiles retain their original **NC-FC-NDX** and **QS-G12H150-NDX** filenames so they remain clearly identifiable as selected sounds from the First Contact NDX and Quantum Speaker ranges.

Included NAM Profiles

AIO Full-Rig Profiles

AIO profiles are complete amp and speaker sounds designed for instant load-and-play use.

NC-FC-NDX-HB-02-CLN-LD-AIO

Optimised for: Humbuckers

Description: Edge-of-breakup lead sound using the TSA15H. Push it hard and it will start to bark!

NC-FC-NDX-HB-03-CRN-RHY-AIO

Optimised for: Humbuckers

Description: Classic rock crunch using the SV20H.

NC-FC-NDX-HB-11-DRV-RHY+TS-AIO

Optimised for: Humbuckers

Description: Heavy modern metal sound using the TH30H and a Tube Screamer type pedal.

NC-FC-NDX-SC-01-CLN-RHY-AIO

Optimised for: Single-Coils

Description: Clean rhythm sound using the TSA15H.

NC-FC-NDX-SC-07-CLN-RHY+CS2-AIO

Optimised for: Single-Coils

Description: TSA15H with a Boss CS-2 compressor.

This profile demonstrates NDX handling compression behaviour inside the captured amp chain. It is included to show sustain, transient response, dynamic recovery, and the way compression affects feel when you play.

NC-FC-NDX-SC-10-CRN-LD+OCTFUZZ-AIO

Optimised for: Single-Coils

Description: SV20H with a Foxx Tone Machine style octave fuzz in octave mode.

This profile demonstrates complex non-linear effect behaviour, octave generation, impedance-sensitive interaction and dynamic response. It is one of the key “you did not know NAM could do this” sounds in the pack.

DI No-Speaker Profiles

DI profiles remove the speaker stage. Use these with Quantum Speaker, another cabinet simulation, or your preferred speaker workflow.

NC-FC-NDX-HB-05-DRV-RHY-DI

Optimised for: Humbuckers

Description: TH30H with modern-style EQ.

This profile gives you a humbucker-optimised driven amp sound without the speaker stage, making it ideal for pairing with Quantum Speaker.

NC-FC-NDX-SC-07-CLN-RHY+CS2-DI

Optimised for: Single-Coils

Description: TSA15H with Boss CS-2 compressor.

This profile allows you to use the compressor-based single-coil lead sound with your choice of speaker solution.

PRE Preamp-Only Profiles

PRE profiles contain only the preamp section and are intended for modular use with power amp and speaker profiles.

NC-FC-NDX-HB-05-DRV-RHY-PRE

Optimised for: Humbuckers

Description: TH30H preamp with modern-style EQ.

NC-FC-NDX-SC-07-CLN-RHY+CS2-PRE

Optimised for: Single-Coils

Description: TSA15H preamp with Boss Cs-2 compressor.

Quantum Speaker QuickStart Profile

QS-G12H150-NDX-01-BALANCED

This Quantum Speaker QuickStart uses a pre-blended microphone setup on our Marshall 1936 2x12 cabinet fitted with Celestion G12H-150 “Redback” speakers.

It is included to demonstrate Neutron’s non-linear speaker profiling and to give you a direct way to pair the included DI profiles with a Neutron Quantum Speaker cabinet.

The full **QS-G12H150-NDX** pack is available separately from the Neutron store, and the full First Contact pack includes 5 QS quickstarts in total. You can also check out more Free Quantum Speaker Quickstarts on our store in the QS-SAMPLE-NDX free Quantum Speaker Quickstart Sample pack.

Why These Profiles Were Chosen

The included profiles were chosen to demonstrate:

- humbucker-optimised sounds
- single-coil-optimised sounds
- clean, crunch and drive categories
- AIO full-rig convenience
- DI no-speaker modularity
- PRE preamp-only modularity
- Quantum Speaker integration
- NDX compressor behaviour
- octave fuzz / impedance-sensitive circuit behaviour
- modern high-gain usefulness
- real-world recording-chain design

The full paid First Contact pack provides the complete profile set, including the broader single-coil and humbucker ranges, universal profiles (all amp knobs on 5), full AIO / DI / PRE profiles for every sound, 4 additional Quantum Speaker QuickStarts and the complete product workflow.

First Contact Lite gives you enough to understand the system, and hopefully to want to dive deeper!

Now... Let's meet the amps...

Ibanez TSA15H



The Clean Amp

The Ibanez TSA15H is a highly underrated Fender Princeton-style valve amplifier circuit built around a 6V6 power section with solid-state rectification.

Although widely associated with its integrated Tube Screamer circuit, at its core this is a compact American clean platform designed specifically to take pedals exceptionally well (it even has one built in!). The preamp topology and headroom make it capable of classic American clean amplifier behaviour — articulate, controlled, and dynamically responsive.

For *Neutron First Contact*, the Tube Screamer stage is not used.

The TSA15H is captured purely as a clean amplifier and forms the foundation for all clean sounds in this pack — from pristine headroom to controlled edge-of-breakup.

It demonstrates a key principle of Neutron: when a circuit is understood and captured correctly, even modest, widely available hardware can deliver authoritative, studio-ready results.

Marshall SV20H



The Crunch Amp

The Marshall SV20H has established itself as more than just a “mini Plexi.”

Designed as a compact reinterpretation of the late-’60s Super Lead architecture, it delivers authentic British valve crunch in a manageable format without sacrificing circuit integrity.

Often viewed as the smaller sibling to full-size vintage heads, the SV20H proves otherwise when recorded correctly. Its preamp and power section interaction produce the harmonic structure, midrange authority, and dynamic bite associated with classic 1960s and 1970s Marshall recordings. These amps are made in the UK on the same line as the current flagship Marshall amps.

In *Neutron First Contact*, the SV20H provides the role of “crunch” amp:

- Classic British midrange focus
- Power-stage driven breakup
- Defined pick attack and upper-mid cut
- Dynamic response that tracks playing intensity

Captured with our tools and methods and pushed correctly into output stage interaction, it stands comfortably alongside larger vintage counterparts in recorded applications, showing that size, rarity or vintage alone does not determine authority of sound.

Orange TH30H



The Drive Amp

The Orange TH30H is one of the most misunderstood modern valve amplifiers in production.

At its core is a contemporary high-gain topology comparable in structure to designs such as the SLO or 5150 — but implemented with a fundamentally different philosophy. The Dirty channel replaces a traditional multi-band tone stack with a single **Shape** control that defines the midrange contour, while a tube-buffered effects loop is positioned specifically to allow external equalisation.

In other words, the amplifier was engineered to be paired with outboard EQ — effectively allowing the user to define the final frequency architecture rather than locking it into a fixed internal stack.

This design is rarely exploited to its full potential. Most players see a cheaper model and assume that makes it inferior.. This is very misunderstood. The TH30 was designed from the ground up to be factory made, harnessing those methods for an ideal and robust result and the lower complexity of its design allows for a cheaper manufacturing cost..

In *Neutron First Contact*, only the Dirty channel is used. The TH30H is profiled both:

- In its raw configuration, using the Shape control alone
- With external EQ in the loop, as originally intended

When understood and implemented correctly, the result is extremely authoritative modern high gain — tight low-frequency control, aggressive upper-mid articulation, and high saturation density without loss of clarity.

The TH30H has remained in continuous, unrevised production longer than almost any other modern valve amplifier — a testament to the design and execution.

Used as intended, it is capable of serious modern high-gain brutality.



The Speaker

The Quantum Speaker QuickStart included in First Contact Lite is based on our Marshall 1936 2x12 cabinet fitted with Celestion G12H-150 “Redback” speakers.

This speaker and cabinet combination provides a focused, powerful and balanced closed-back 2x12 voice that works across clean, crunch, drive and high-gain sounds.

The full **QS-G12H150-NDX** Quantum Speaker pack expands this into a complete speaker/microphone profile system with additional QuickStarts, discrete microphone captures and further creative control.

Profiles File Structure

The pack is organised into a clear folder structure to help you navigate the included content.

Main Pack Folder

Profiles

Contains all included NAM profiles.

Filters

Contains the filter IRs, designed to be loaded into the NAM IR slot if desired.

FX

Contains Convology XT presets for this pack in two formats:

- .SFX EXE for Windows

- .ZIP for MacOS

Profiles Folder

Inside the Profiles folder, you will find subfolders for the profile types included in this Lite pack:

AIO

All-In-One profiles designed as full rig sounds.

DI

Profiles without speaker simulation, intended for use with Quantum Speaker or another cab solution.

PRE

Preamp-only profiles for modular rig building.

QS

Quantum Speaker QuickStart profile.

Within the AIO, DI and PRE folders, profiles are organised by pickup type where applicable:

- Humbucker
- Single-Coil

Pack Design Principles

Neutron Core profiles are designed around decisions that affect circuit behaviour and therefore amp settings.

1. Pickup Type

Profiles are separated by guitar pickup type where appropriate:

- HB = humbucker
- SC = single-coil
- UV = universal

This reflects the way real guitar signals interact with real circuits.

2. Drive Level

Profiles are categorised by the amount of drive:

- CLN = clean
- CRN = crunch
- DRV = drive

3. Playing Function

Profiles identify their intended musical role:

- RHY = rhythm
- LD = lead

4. Profile Format

Profiles identify their workflow format:

- AIO = All-In-One full rig
- DI = no speaker
- PRE = preamp only

5. Additional Circuit or Pedal

Where a profile includes a pedal or special circuit, this is shown with a suffix such as:

- +TS
- +CS2
- +OCTFUZZ

Profile Naming Example

Example:

NC-FC-NDX-SC-10-CRN-LD+OCTFUZZ-AIO

This means:

- **NC-FC-NDX** = Neutron Core First Contact NDX profile
- **SC** = optimised for single-coil guitars
- **10** = profile number
- **CRN** = crunch
- **LD** = lead
- **+OCTFUZZ** = octave fuzz circuit included
- **AIO** = All-In-One full rig profile

First Contact Lite is packaged as **NC-NFC-LITE-NDX**, but the included profiles retain their original source filenames.

FX Presets for Convology XT

First Contact Lite includes the full First Contact FX preset set for Convology XT.

The FX selection is made with a mixture of guitar and studio gear as well as real acoustic spaces. The pack includes single and multi-effect presets for Convology XT. These presets can contain combinations of modulation, delay and reverb for a complete sound in a single preset.

They are designed to enhance your playing experience and quickly move from amplifier-only tones to studio-quality finished sounds.

Notice the suffix of **-M**, **-MS** or **-S** in the preset name:

- **-M** = mono
- **-MS** = mono in / stereo out
- **-S** = stereo in / stereo out

Place mono or mono-in effects before stereo effects. Otherwise, a mono preset may collapse stereo content before applying its processing.

FX Presets List

Default mix levels are shown in brackets.

1. **NCFX-EMT-Plate-S**
Classic real plate reverb with a bright sound.
Default mix: 10%
2. **NCFX-Brick-Delay-S**
TC 2290 style delay.
Default mix: 50%
3. **NCFX-Stereo-Tank-S**
Dual spring reverbs in stereo.
Default mix: 10%
4. **NCFX-Nashville-Room-S**
Real studio live room ambience.
Default mix: 15%
5. **NCFX-Metal-Chamber-S**
Real echo chamber with a bright, aggressive sound.
Default mix: 25%
6. **NCFX-M7-Deep-Hall-S**
Huge long-decay modern rack reverb.
Default mix: 10%
7. **NCFX-Space-Flanger-M**
Thick, greasy flanger.
Default mix: 25%
8. **NCFX-Symphonic-Hall-S**
SPX-style symphonic chorus with Lexicon-style reverb.
Default mix: 30%
9. **NCFX-Ultimate80s-S**
When the hair was big and the FX were even bigger.
Default mix: 40%
10. **NCFX-ADT-MS**
Vintage double-tracking simulator made with tape.
Default mix: 80%
11. **NCFX-Live-Blues-S**
Live at the Regal vibes.
Default mix: 15%
12. **NCFX-Rotary-Spring-MS**
Vintage rotary speaker with spring reverb.
Default mix: 40%
13. **NCFX-Guitar-Polish-S**
Instant produced sound.
Default mix: 20%

14.NCFX-Daves-Wall-S

Famous 80s-style effect chain.

Default mix: 35%

15.NCFX-Doubler-MS

For when you want to make it huge.

Default mix: 20%

16.NCFX-Blue-Dream-S

Guitar hero worthy effects.

Default mix: 20%

Installing the FX Presets

Windows

Run the included .SFX EXE installer to install the FX presets into your Convology XT library folder. Then reload any instances of Convology XT for the presets to appear.

MacOS

Unzip the contents of the included .ZIP file in the FX folder to a location on your system, for example:

Documents/Neutron/FX/NEUTRON NC-NFC FX

Then open Convology XT, click the settings icon, and in the preferences section set your custom library location to the parent folder containing your extracted files.

Reload any instances of Convology XT for the presets to appear.

Filter IRs

First Contact Lite includes 6 filter IRs:

- 3 standard SSL-style HPF / LPF filter IRs
- 3 enhanced filters using Pultec-style EQ

These can be loaded into the NAM IR slot on the same instance as the profile.

After loading a filter IR, you may need to increase the NAM output level to compensate for level loss, typically around **+8 to +10** on the output control.

Gain Control and NDX Amps

Due to the extended dynamic range present in NDX profiles, the NAM gain control can be used to access a wide range of realistic sound options from each profile.

NAM gain acts as input level into the model. It does not invent synthetic gain behaviour. For this reason, increasing or decreasing gain can behave very much like changing the level hitting the real circuit.

Do not be afraid to experiment with the full range.

Useful results can often be found from around **-20** up to about **+10**, depending on the profile, guitar and playing style.

Input / Output Calibration

All profiles in this pack contain input and return level calibration information where relevant.

If your chosen plugin or device does not read this information, do not worry. The profiles will still work.

To enable calibration in the NAM plugin, enable Calibrated mode in the NAM settings, enter your own input calibration level, and turn on Input Calibration.

We create our sounds at:

+6 dBu = 0 dBFS

If your plugin or device does not support auto-calibration, a practical starting point is:

- Humbucker guitar: set interface input so peaks are around **-6 dB**
- Single-coil guitar: set interface input so peaks are around **-12 dB**

Add or remove gain from there to taste.

We recommend setting output calibration mode to **Normalized** where available.

NAM Input Meter: Avoiding Clipping

To maintain the most accurate and authentic reproduction of the captured gear, monitor your input levels carefully in NAM.

- Keep levels below 0 dBFS at all times.
- Avoid clipping, as it can cause unnatural behaviour or distortion.
- If chaining NAM instances, adjust the output of one instance to avoid overdriving the next.
- If the sound becomes brittle, broken or unnatural, check gain staging before making tonal decisions.

Using First Contact Lite

AIO Workflow

For the simplest experience, load one of the AIO profiles into NAM and play.

AIO profiles are designed as full rig sounds and are the best starting point for quick evaluation.

Suggested first profiles:

- NC-FC-NDX-SC-01-CLN-RHY-AIO for single-coil clean rhythm
- NC-FC-NDX-HB-03-CRN-RHY-AIO for humbucker crunch rhythm
- NC-FC-NDX-SC-07-CLN-RHY+CS2-AIO for compressor feel
- NC-FC-NDX-SC-10-CRN-LD+OCTFUZZ-AIO for octave fuzz behaviour
- NC-FC-NDX-HB-11-DRV-RHY+TS-AIO for heavier boosted drive

DI + Quantum Speaker Workflow

Load a DI profile in NAM, then load the Quantum Speaker QuickStart as the speaker stage.

Example:

NC-FC-NDX-HB-05-DRV-RHY-DI → QS-G12H150-NDX-01-BALANCED

This lets you evaluate modular amp and speaker behaviour without relying on linear IR speaker simulation.

PRE Modular Workflow

PRE profiles are intended for deeper modular rig building.

A typical modular chain might be:

Pedal → Preamp → Power Amp → Quantum Speaker

First Contact Lite includes PRE profiles so you can evaluate the concept, while the full Neutron Core ecosystem expands the modular possibilities further.

Mix & Match Ecosystem

The Neutron Core system is designed as a modular platform that allows you to mix and match profiles to suit your creative needs.

Core pedal and amp packs scale from simple setups, such as a single AIO profile, to full modular chains that rival the realism of multi-instance plugin rigs or complex studio workflows.

Neutron Core profiles are built to combine predictably in both serial and parallel configurations, enabling users to recreate real-world recording setups with natural, believable results.

Combining Profile Types

1. Pedal Profiles

Place at the front of the signal chain to add compression, gain shaping or special effect behaviour before the amp stage.

2. Preamp Profiles

Found in Neutron Core amp packs. Combine with PowerPack profiles and Quantum Speaker captures to recreate rich, realistic behaviour and gain additional control.

3. Power Amp Profiles

Available separately via Neutron PowerPack. These simulate output stage saturation and speaker interaction, completing modular rigs.

4. Quantum Speaker Profiles

Quantum Speaker profiles provide the speaker and microphone stage.

- QuickStart profiles provide ready-to-use blends.
- Discrete mic profiles in full Quantum Speaker packs allow custom mic blending.

Signal Chain Examples

Simple AIO

Guitar → NAM AIO Profile

Modular DI + Speaker

Guitar → NAM DI Amp Profile → Quantum Speaker

Full Modular Rig

Guitar → Pedal Profile → Preamp Profile → Power Amp Profile → Quantum Speaker

What Is Neutron Core?

Neutron Core is the foundation layer of Neutron Audio's profiling ecosystem.

It provides accurate, modular profiles of individual components in the signal chain, including amplifiers, pedals, power stages, speakers and more. These profiles are captured with an emphasis on preserving both detail and musical responsiveness.

Neutron Core profiles are designed to be mixed and matched. A user may choose a single All-In-One profile for simplicity, or build a modular rig using multiple components.

The goal is to provide an authentic recorded guitar sound: the kind of result you would expect if you walked into a professional studio and worked with skilled engineers using great equipment and clear design intent.

Every profile reflects Neutron Audio's core philosophy:

True to the source. Technology fused with expertise.

What Is NDX?

NDX, or Neutron dyNAMix, is Neutron Audio's bespoke NAM training process.

NAM was already one of the most accurate profiling solutions available in terms of frequency content. NDX adds an additional layer of time-based dynamic realism, allowing profiles to capture more of the behaviour that affects how real gear feels and reacts over time.

NDX allows the authentic profiling of more complex compression, transient recovery, saturation bloom, and level-dependent time-based changes. These are the responses that affect how real gear feels and reacts, not just how it sounds in the frequency domain.

Historically, this type of dynamic behaviour has often required custom architectures with increased CPU demands and limited compatibility. NDX is designed to encode this additional dynamic information directly into standard format NAM profiles.

That means these profiles work on plugins and hardware that natively load full NAM profiles while still benefiting from Neutron Audio's enhanced capture and training process.

All profiles in this pack are created using the NDX Gen2 system.

Support

If you need support or have questions about Neutron First Contact Lite, you can:

Submit a request on our website:

<https://www.neutronstudios.com/>

Join our dedicated Facebook customer group:

<https://www.facebook.com/groups/1712386306166179>

Our Facebook group is the ideal place to ask questions, get updates on our products, and connect with other Neutron Audio users.

We Are on YouTube

This manual covers the essentials of using First Contact Lite, but we have also made a video that explains the Neutron Core concept in detail here:

<https://www.youtube.com/watch?v=kkE-U04qo2U>

We also invite you to watch the other videos on our channel:

https://www.youtube.com/@neutron_audio

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Neutron Audio is not affiliated with, endorsed by, or sponsored by any of the brands, manufacturers, or companies referenced. All Neutron Audio content is the result of original recording, profiling, processing, and engineering work.

By downloading and/or using this product, you agree to the following:

- The profiles and associated files are licensed to the original downloader / licensee for personal use only. This license applies to the profiles themselves, not to any audio or music created using them.
- You are free to use these profiles in any musical or audio production, including commercial recordings, releases, performances, and client work.
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Thank you for respecting the work and integrity behind Neutron Audio products.

Neutron Audio

True to the source. Technology Fused with Expertise.