DRAFT - Torpedo Captor X + User's Manual

Compact reactive load box, tube amp attenuator, miked cab simulator, IR loader and stereo expander

The complete electronic version of this manual, as well as the Two notes Audio Engineering software and hardware products, are subject to updates. You can download the most recent versions of the products on the Two notes Audio Engineering website.

This manual describes the Torpedo Captor X + and provides instructions for its operation. It is highly recommended that you read this document before using the product. The contents of this manual have been thoroughly verified and it is believed to accurately describe the product at the time of shipment from the factory or downloaded from our website.

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Foreword

1. Safety instructions

Before using the product, it is necessary to carefully read and to bear in mind the following information. Keep this document in a safe place as it is important for the protection of both user and product. Should you suspect any malfunction of the device, always seek the assistance of a qualified technician.

1.1 Reader warning

	The triangle with an exclamation mark highlights important messages concerning the correct use of the device.

1.2 Power adapter

Before connecting the unit, please ensure that the voltage required by the mains power adapter matches the voltage standard in your country. If it does not—or if you are uncertain—do not connect the unit to a wall outlet. Doing so may cause damage to the power adapter or the unit, and could result in personal injury.

Do not use this product during thunderstorms. In the event of lightning or severe weather, unplug the power adapter to reduce the risk of electric shock or fire.

The mains power adapter supplied with this product complies with the electrical standards of the country where it was purchased. If a replacement is required, use only a mains power adapter that meets the same local standards.

1.3 Safety use conditions

The Torpedo Captor X + must not be used near heat sources, open flames, in rain, in damp environments, or near any type of liquid. Ensure the unit is kept away from moisture at all times.

When transporting the unit, handle it with care to avoid physical shock or impact that could result in damage requiring inspection or repair by a qualified technician.

Always keep the unit dry to prevent electrical failure or permanent damage.

1.4 Cleaning

Always use a dry and soft cloth with no alcohol or solvents for cleaning. Please keep the unit clean and free from dust.

1.5 Maintenance

All maintenance and repair operations must be performed only by service centers authorized by OROSYS SAS. Do not attempt to repair or modify the unit yourself.

2. Contents of the package

The shipped package contains:

- 1 x Torpedo Captor X + unit in a protecting sleeve
- 1 x Mains power adapter with interchangeable plug
- 1 x USB-C to USB-A cable
- 1 x Mini jack to 5 pin MIDI (DIN type A) cable adapter.
- 1 x Quickstart guide
- 1 x Welcome card

The complete electronic version of this manual, as well as the Torpedo Remote software are subject to updates. You can download the most recent versions of this software on the Two notes Audio Engineering website.

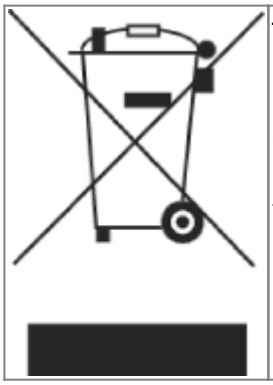
3. Declaration of conformity

Manufacturer: OROSYS SAS
Category of product: digital audio signal processor
Product: Torpedo Captor X
Test Manager: Guillaume Pille
The Two notes Torpedo Captor X is certified to be compliant to the CE and FCC standards:

- EN 55103-1 : 1996 and EN 55103-2 : 1996.
- EN 60065 05/2002 + A1 05/2006.

- EMC directive 89/336/EEC and Low Voltage Directive 73/23/EEC.
- FCC Part 15 : 2008.
- ICES-003 : 2004.
- AS/NZS 3548 class B for Australia and New Zealand.
- IEC : 2008 - CISPR 22 class B.

4. Disposal of Waste Equipment by Users in Private Households in the European Union



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

5. Warranty

OROSYS SAS warrants that this TWO NOTES AUDIO ENGINEERING product shall be free of defects in parts and workmanship when used under normal operating conditions for a period of two (2) years from the date of purchase. This warranty shall apply to the original purchaser when purchased from an Authorized TWO NOTES AUDIO ENGINEERING dealer.

IMPORTANT: PLEASE RETAIN YOUR SALES RECEIPT, AS IT IS YOUR PROOF OF PURCHASE COVERING YOUR LIMITED WARRANTY. THIS LIMITED WARRANTY IS VOID WITHOUT YOUR SALES RECEIPT.

Defective products that qualify for coverage under this warranty will be repaired or replaced, (at OROSYS SAS's sole discretion) with a like or comparable product, without charge. In the case that warranty service is required, Please contact your authorized TWO NOTES AUDIO ENGINEERING dealer in order to obtain a Return Merchandise Authorization (RMA) to return the complete product to the Authorized TWO NOTES AUDIO ENGINEERING Service Center closest to you, with proof of purchase, during the applicable warranty period.

Transportation costs to the service center ARE NOT INCLUDED in this limited warranty. OROSYS SAS will cover the cost of standard ground return transportation for repairs performed under this warranty.

This limited warranty becomes void if the serial number on the product is defaced or removed, or the product has been damaged by alteration, misuse including connection to faulty or unsuitable ancillary

equipment, accident including lightning, water, fire, or neglect; or if repair has been attempted by persons not authorized by OROSYS SAS. Any implied warranties, including without limitation, any implied warranties of merchantability or fitness for any particular purpose, imposed under state or provincial law are limited to the duration of this limited warranty. Some states or provinces do not allow limitations on how long an implied warranty lasts, so the above limitations may not be applicable.

OROSYS SAS ASSUMES NO LIABILITY FOR PROPERTY DAMAGE RESULTING FROM ANY FAILURE OF THIS PRODUCT NOR ANY LOSS OF INCOME, SATISFACTION, OR DAMAGES ARISING FROM THE LOSS OF USE OF SAME DUE TO DEFECTS OR AVAILABILITY OF SAME DURING SERVICE.

In case you have to send your TWO NOTES AUDIO ENGINEERING product to any other location, it is of vital importance to retain the original packing materials. It is very difficult to avoid damage if shipping the product without these materials. OROSYS SAS is not responsible for damages to the product due to improper packaging and reserves the right to charge a reboxing fee for any unit returned for service without the original packing materials. THE FOREGOING CONSTITUTES THE ONLY WARRANTY MADE BY OROSYS SAS WITH RESPECT TO THE PRODUCTS AND IS MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED

Recommendations for the Correct use of a Load Box with a Tube Amplifier

1. What is a Load Box?

A load box is a device that safely replaces a speaker cabinet by providing an electrical load to your amplifier. Instead of producing sound, it converts the amplifier’s output power into heat.

The most important specification of a load box is its impedance, measured in Ohms (Ω). For example, an 8-Ohm load box must be connected to the 8-Ohm speaker output of the amplifier.

Because the power is dissipated as heat, adequate cooling and ventilation are essential. Overheating can damage both the load box and the amplifier.

1.1 Why You Need a Load Box

When using a tube amplifier, you must always connect its speaker output to a load — either a speaker cabinet or a load box — before powering it on. Running a tube amp without a load can cause serious, even irreversible, damage to its output stage.

While many tube amplifiers include fuses or protection circuits, some do not provide sufficient protection. It’s impossible to predict how every amplifier will behave if powered on without a proper load.

1.2 The Torpedo Captor X +

The Torpedo Captor X + is a reactive load box, designed to safely replace a speaker cabinet while emulating the complex impedance of a real speaker. This ensures your amplifier operates and sounds as it should, even without a physical speaker connected.

The Torpedo Captor X + does not need to be powered on to function as a load. It safely absorbs the amplifier's output and converts it into heat, preserving tone and protecting your gear.

1.3 Safe Operation

To use the Torpedo Captor X + correctly and safely:

- Always connect your amplifier's speaker output to an appropriate load — either a speaker cabinet or the Torpedo Captor X +.
- The Torpedo Captor X + functions as a load even when switched off.
- The maximum supported power is 100W RMS.
- Do not operate your amplifier above this level.
- If your amplifier exceeds 100W RMS, refer to the official documentation or support articles for safe usage recommendations.

2. Which Output Volume for my Amplifier?

Using your amplifier with a load box requires some extra care. Because there's no sound coming from a speaker cabinet, it's easy to accidentally push the amplifier beyond its safe operating limits. Doing so can cause premature tube wear or, in extreme cases, serious damage to the amplifier.

2.1 Monitor Your Amplifier Carefully

When testing your amplifier at high volumes for the first time, watch the tubes and overall condition of the amp closely.

- Red-glowing tubes, smoke, or unusual smells are clear signs of overheating or electrical stress.
- If any of these symptoms occur, power down immediately to avoid partial or complete destruction of the amplifier.

2.2 Understanding the "Sweet Spot"

The sweet spot—where your amplifier delivers its best tone—is rarely at maximum volume. Most amplifiers sound harsh, compressed, or unpleasant when pushed to their absolute limits.

Keep in mind:

- Most amplifier volume controls are logarithmic, meaning that the majority of volume increase happens in the first half of the knob's rotation.
- In many cases, the amplifier is already operating at full power by 12 o'clock, even if the knob

can turn further.
- Reaching maximum output power often results in excessive distortion and stress on the output stage, not necessarily better tone.

2.3 Safe Volume Practices

Running a tube amplifier at very high volume for extended periods can cause:

- Premature tube wear
- Overheating
- Possible output stage failure

Remember: Even if your volume knob isn't at maximum, your amplifier may already be running at full output. A reliable approach is to use the same volume levels you normally would during rehearsals or live performances, rather than relying on the knob position alone.

In Summary

- Avoid running the amplifier at full power for long periods.
- Watch for visual signs of stress (glowing tubes, smoke, heat).
- Your amplifier's best tone usually occurs below maximum volume.
- Treat the amplifier with the same care you would when connected to a real speaker cabinet.

3. Is the use of a Load Box Totally Silent?

The term "silent recording" is often used when describing load boxes — but in reality, the process is not completely silent. Compared to a traditional speaker cabinet and microphone setup, a load box setup is several orders of magnitude quieter, yet you may still notice a few minor sounds during use.

3.1 Instrument Noise

You will still hear the acoustic sound of your guitar or bass strings. This is perfectly normal, but in a quiet environment it can feel more noticeable, especially when monitoring through headphones.

3.2 Mechanical Noise from the Load Box

You may hear a faint buzzing or humming coming from the Torpedo Captor X + itself. This is completely normal. The sound is produced by the reactive load's internal coil as electrical current passes through it. The vibration varies with your playing dynamics and frequencies, meaning you're actually hearing your amplifier's power section working — often for the first time without a loudspeaker masking it.

Similarly, your amplifier's output transformer can emit slight mechanical noise, which normally goes unnoticed when a speaker is connected.

3.3 Cooling Fan Noise

The Torpedo Captor X + contains an internal fan to dissipate the heat generated by the load. Although we use a low-noise, high-speed fan, it is not completely silent. In normal operation, however — whether you're listening through studio monitors or headphones — the fan noise is barely audible and should not interfere with recording or playing.

In Summary While the Torpedo Captor X + enables near-silent operation, a few residual mechanical sounds are inherent to the way amplifiers and reactive loads function. These are normal, harmless, and part of the authentic physical behavior of your gear.

About the Torpedo Captor X +

1. Introducing the Torpedo Captor X +

Meet Captor X +, the next milestone in Two notes' critically-acclaimed loadbox lineage. Featuring an all-new Virtual Load Shaper for sculpting a custom tonal response and a leading-edge True Stereo DynIR™ Engine to surgically position your mics or static IRs across the stereo field, Captor X + builds on the revolution Captor X started, pushing direct-to-PA and recording workflows to new levels of control and creativity.

Reactive load box. Tube amp attenuator. Cab sim. Static IR loader. Stereo expander. Studio-grade FX powerhouse. Whatever your rig demands, Captor X + delivers with uncompromising authenticity and player-focused versatility. From silent practice to stage-ready stereo immersion and precision-grade studio capture, Captor X + puts the full force of your tube amp under your command.

Captor X + Key Features

- Compact Reactive Load Box (Available in 8Ω or 16Ω, 100-watt RMS) with built-in Attenuator: Home (-38dB), Club (-20dB), Stadium (0db)
- Powered by DynIR™ technology for DSP-powered True Stereo Dual-miked Virtual Cabinets; Twin-channel Stereo static IR Loader with 512 memory slots for custom IR files
- Global Virtual Load Shaper for a custom tonal response
- Pre-loaded with 32 DynIR™ premium virtual cabinets
- 128 preset locations; Instantly select your favorite preset from 6 user-configured slots directly from the front panel
- Choose from 8 microphones per cabinet and 12 studio-grade room simulations
- USB / MIDI / Wireless Torpedo Remote connectivity for effortless control of all editable parameters
- XLR DI Outputs with 3 routing options: STEREO, DUAL MONO, Dry/Wet
- Silent playing with an Immersive Headphone Experience
- Stereo Post FX Suite including REVERB, Semi-Parametric EQs, a TWIN TRACKER Virtual Guitarist, an ENHANCER and a NOISE GATE
- Quick-access SPACE and VOICING controls for switching up your sound on-the-fly
- Audition 900+ official brand and artist-series Virtual Cabinets via the Torpedo Remote online library

- USB-C connectivity & rugged, metal case: future-proofed, road-ready and portable
- Includes GENOME - the carrier-class plugin software ecosystem for studio-grade cabinet simulation and more

2. Only A Speaker Simulator?

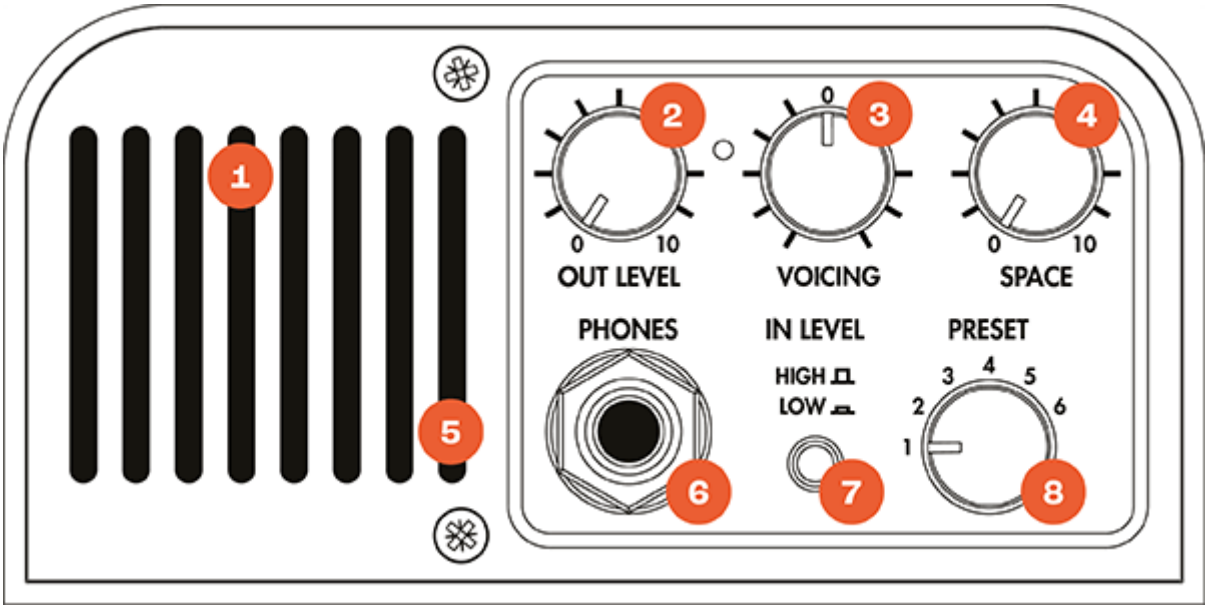
The Torpedo Captor X + is a fully standalone unit you can take anywhere — perfect for silent playing or when you want precise control over your cabinet's output level.

Its purpose is to replace key elements of a traditional guitar or bass setup, including:

- The speaker cabinet
- The microphone
- The microphone preamplifier and selected outboard effects

By combining these elements in one compact device, the Captor X + delivers a signal that faithfully replicates the sound of a professionally miked amp in a world-class studio.

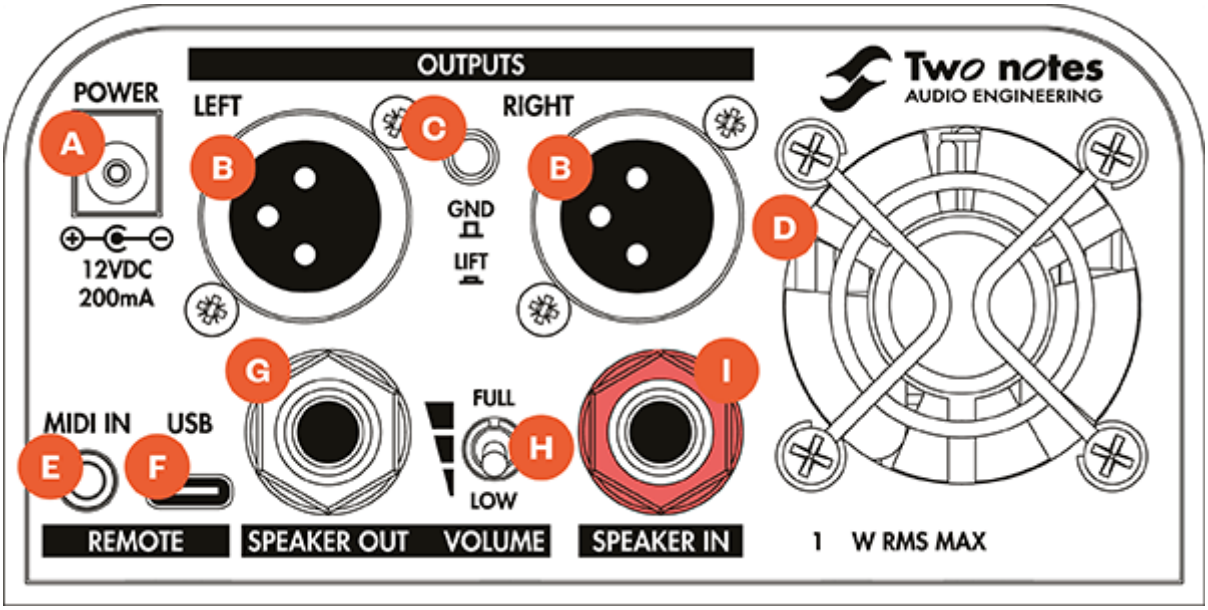
3. The Front Panel Control Arsenal



By combining these elements in one compact device, the Captor X + delivers a signal that faithfully replicates the sound of a professionally miked amp in a world-class studio.
1 - **Monitor levels** – The grille LED indicates input and output activity (with red illumination indicating clipping)
2 - **Control output volume** – Adjust the headphone and XLR DI output level
3 - **Fine-tune your global tone** – Adapt your sound to match your amp type and playing environment.
4 - **Add spatial depth** – Enhance the stereo field of your headphone and XLR DI outputs with adjustable room ambience
5 - **Keep it cool** – Ensure the vent remains clear to allow proper airflow and cooling
6 - **Headphone connection** – Plug in for silent, immersive playing

7 - **Set input level** – Adjust to prevent signal clipping and maintain optimal headroom
8 - **Quick preset switching** – Instantly access your favorite saved presets with a single control

4. The Back Panel Control Arsenal



The Torpedo Captor X + rear panel offers all the essential connections and controls for studio, stage, and home use:

A - **Power Input** – Connect the supplied power adapter (use only the correctly rated power supply)
B - **XLR DI Outputs** – Send Stereo, Dual Mono, or Dry/Wet signals directly to your mixer, interface, or PA system
C - **Ground Lift Switch** – Eliminate unwanted hum caused by ground loops
D - **Cooling Fan** – Keep the vent area clear to ensure proper airflow and cooling
E - **MIDI Input** – Use the supplied ⅛” jack-to-MIDI adapter cable for external MIDI control
F - **USB Port** – Connect to your computer (Windows or macOS) for remote control via Torpedo Remote software. USB cable included
G - Speaker Output – Connect your speaker cabinet here using a ¼” SPEAKER cable
H - **Cabinet Volume Level** – Choose your cabinet’s output level:

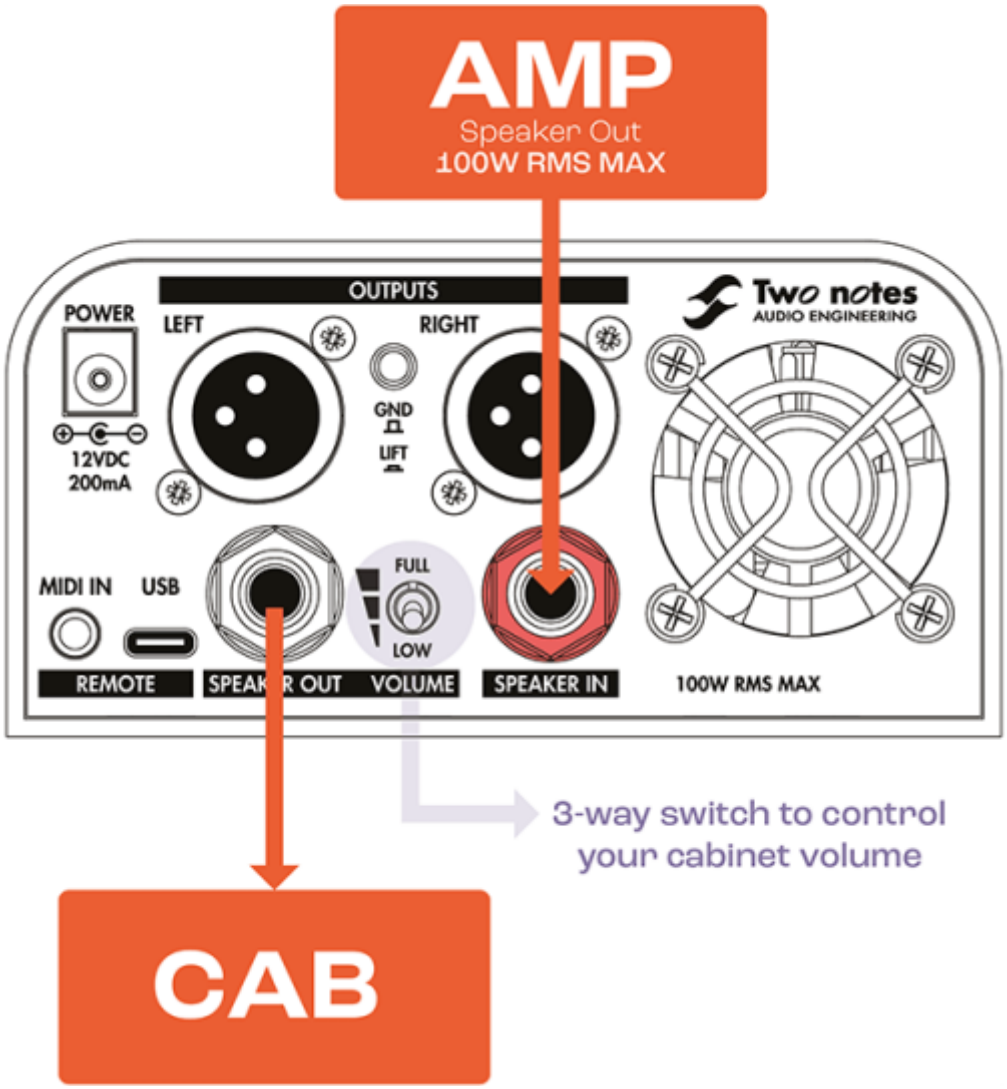
- Low - “Home” level
- Mid - “Club” level
- High - “Stadium” level

I - **Amplifier Input** – Connect your amp’s speaker output here using a ¼” speaker cable (100W RMS max admissible power)

5. Use Cases & Connecting the Torpedo Captor X +

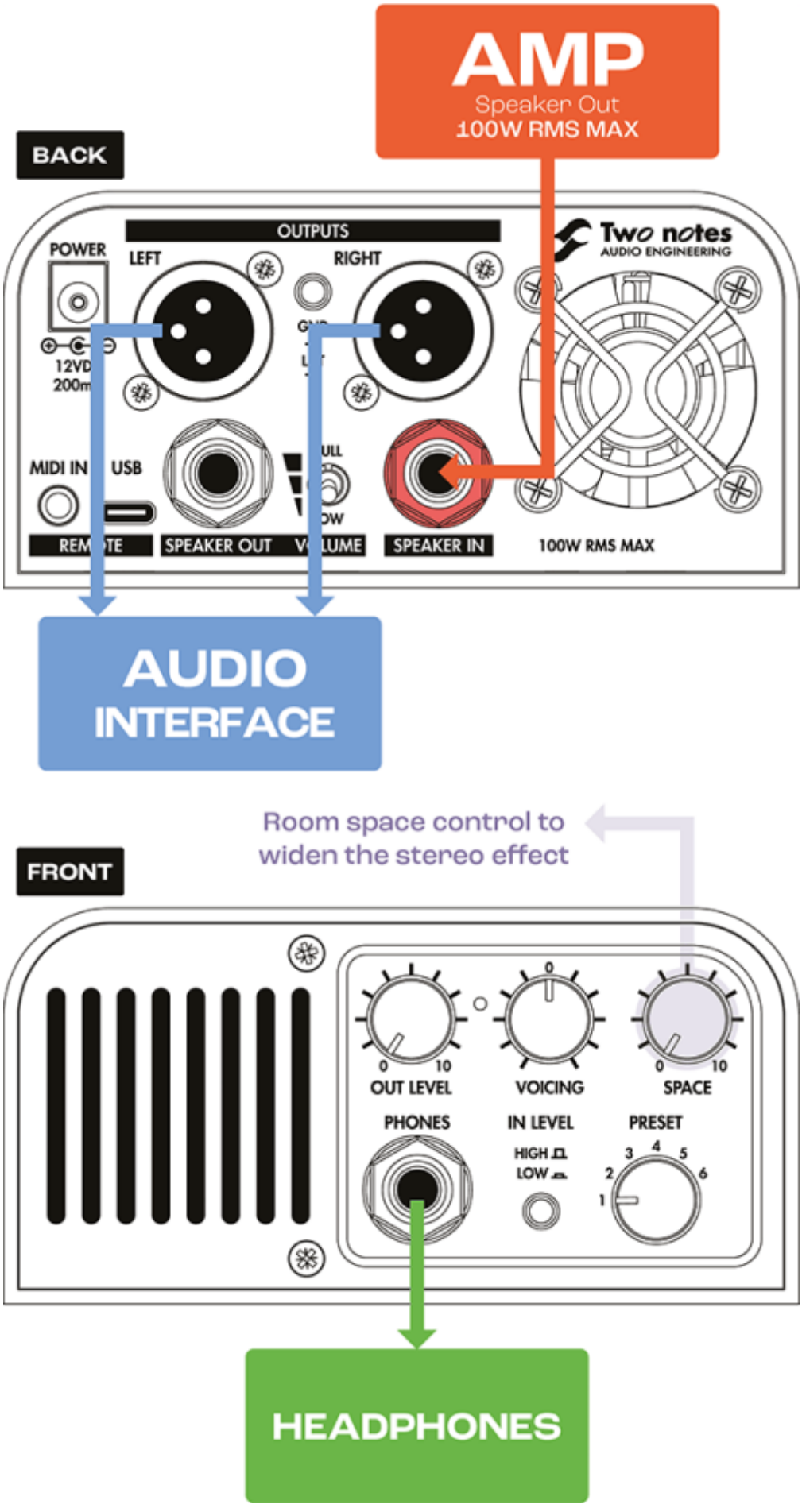
The following examples illustrate the most common ways to set up your Captor X + with the rest of your equipment.

5.1 Using the Attenuator With Your Cabinet



- Connect your amplifier's speaker output to the **SPEAKER INPUT** on the Captor X + (marked with a red bolt); Use only a speaker cable for this connection
- Then, connect your speaker cabinet to the **SPEAKER OUT** of the Captor X + — again, use only a speaker cable
- Set your preferred cabinet volume using the **VOLUME LEVEL** switch
    - **Note**: The Torpedo processing (cabinet simulation and effects) is applied only to the direct outputs and is not heard through the physical cabinet.

5.2 Using Your Amp Silently in Stereo

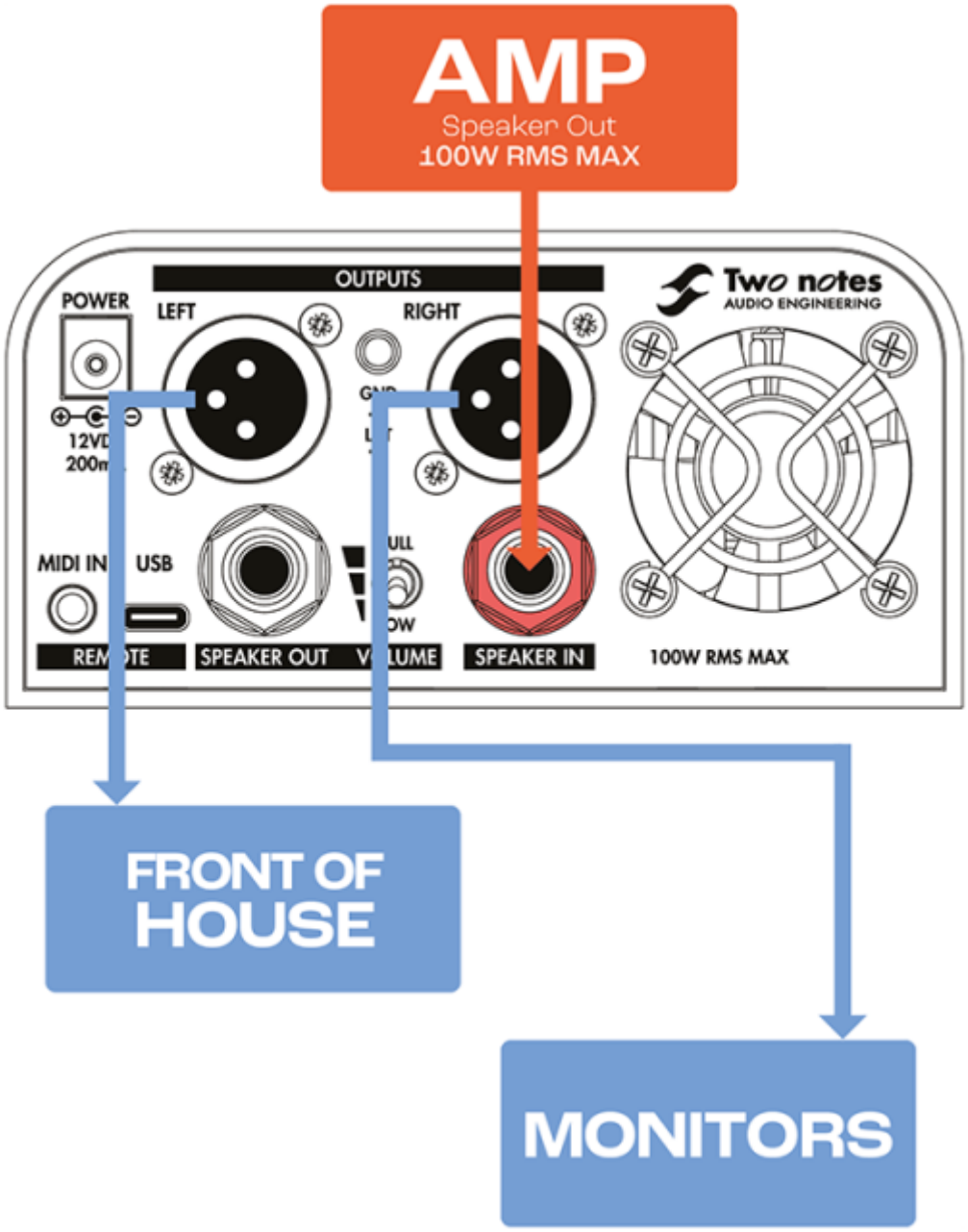


- Connect your amplifier’s speaker output to the **SPEAKER INPUT** of the Torpedo Captor X +, identified by a red bolt. Always use a speaker cable for this connection — never an instrument

cable.

- Connect your headphones to the **PHONES** output and use the **OUTPUT LEVEL** control to adjust the headphone volume.
- To listen through studio monitors, active speakers, or an audio interface, connect the XLR outputs of the Captor X + to your target device.
    - **Note**: You can also use XLR/TRS jack cables from the Captor X + outputs to the monitoring device. This may be necessary depending on the input specifications of your audio interface, mixer, or monitors, particularly regarding line-level signal compatibility.
- Use the **OUTPUT LEVEL** control to adjust the volume for both the headphones and the XLR outputs.

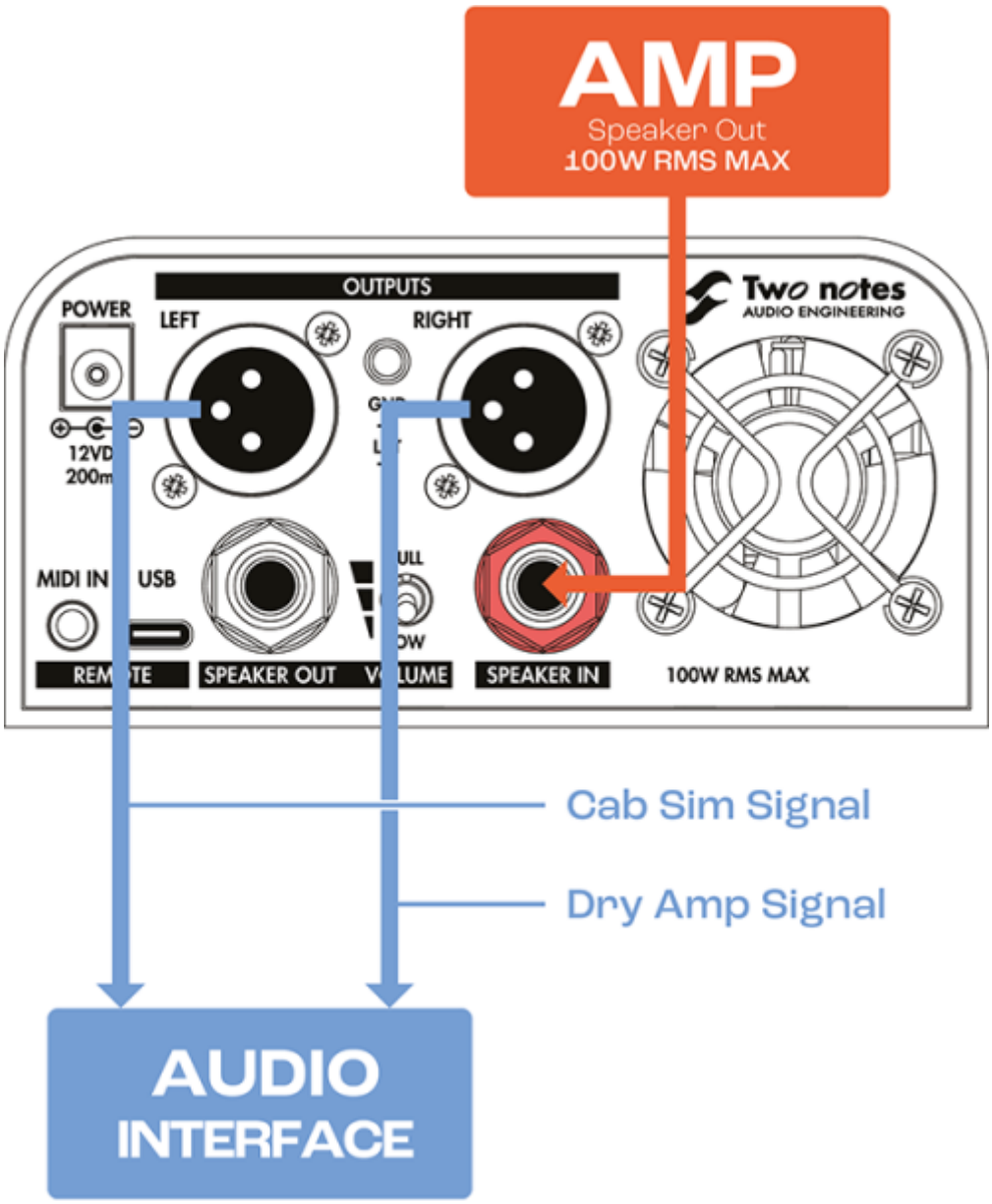
5.3 On Stage With Dual/Mono Routing



- Connect your amplifier’s speaker output to the **SPEAKER INPUT** of the Torpedo Captor X +, identified by a red bolt. Always use a speaker cable for this connection — never an instrument cable.

- In Torpedo Remote, select the **DUAL/MONO** routing mode to send two independent signals from the Captor X +'s XLR Outputs — for example, one to the Front of House (FOH) and one to the stage monitors/stage monitors' mixing desk. Use balanced microphone cables (XLR) for these connections.
    - **Note:** The Torpedo Captor X +'s **DUAL/MONO** output routing mode, provides two microphone routing behaviors. These are selected using the "**MIC A/B MIXDOWN**" switch - see 3.2 DUAL/MONO Routing for more information.
- If you want to hear your amplifier's dry sound on stage, connect your speaker cabinet to the **SPEAKER OUT** jack on the Captor X +. Always use a speaker cable for this connection — never an instrument cable.

5.4 Recording Your Amp Silently



- Connect your amplifier's speaker output to the **SPEAKER INPUT** of the Torpedo Captor X +, identified by a red bolt. Always use a speaker cable for this connection — never an instrument cable.
- In Torpedo Remote, select the **DUAL/MONO** routing mode and bypass the Torpedo processing

on the right output. This configuration sends the full processed Torpedo signal from the left XLR output, and the dry amplifier signal from the right XLR output to your audio interface.
- You can then apply cabinet simulation using **GENOME** within your DAW

Configuring & Using Torpedo Captor X +

The Torpedo Captor X + features several quick-access knobs designed for easy, on-the-fly adjustments.

- **OUT LEVEL** controls the overall output level of the unit.
- **VOICING** provides a quick global EQ adjustment.
- **PRESE**T gives you direct access to six user presets from the front panel.

For complete control over all parameters, use the [https://www.two-notes.com/en/torpedo-series/torpedo-remote/ | Torpedo Remote software] — available for Mac/PC (via USB connection) and mobile devices (iOS & Android, via wireless Bluetooth connection). The following sections explain how to connect the Torpedo Captor X + to Torpedo Remote using either a USB or a wireless connection.

1. Torpedo Remote: Your all-in-one Gateway to Edit & Control Every Parameter Within Torpedo Captor X +

Torpedo Remote is available as a desktop and mobile application, facilitating access to every editable parameter within Captor X +'s DSP architecture. Within Torpedo Remote you can:

- Manage Your Preset Arsenal
- Configure DynIR/IR Settings
- Configure Post FX settings per preset
- Select global Output Routing options
- Manage Captor X +'s internal storage options
- Configure the Virtual Load Shaper
- Define MIDI preferences and Audio Performance settings

1.1 USB connection

To connect the Torpedo Captor X + to your computer, use the supplied USB cable. Plug the USB-C end into the Captor X + and the other end into your computer's USB port.

1.1.1 Connecting to Your Computer

Download the Torpedo Remote software from the Torpedo Captor X + product page. Choose the appropriate version in regards to your OS (Windows or macOS). Select the version that corresponds to

your operating system (Windows or macOS).

After launching Torpedo Remote, you'll be prompted to either register your unit to your Two notes account or continue as a Guest. We recommend registering your Torpedo Captor X + to access firmware updates, exclusive presets, and three additional cabinets.

- **Note:** The three free cabinets are available only to the original owner of the Torpedo Captor X +. Once the unit has been registered, these cabinets cannot be transferred or redeemed on another account (for example, if the unit is purchased second-hand).

When using Guest Mode, you can still operate the Torpedo Captor X +, but you cannot import cabinets from your personal Two notes license or remove cabinets from the device.

1.2 Wireless Connection

1.2.1 Connecting to Your Phone or Tablet

You can connect your mobile device to the Torpedo Captor X + via Bluetooth. Follow the steps below to establish the connection:

- Launch the Torpedo Wireless Remote app on your mobile device.
- Allow all requested permissions — these may vary depending on your device and operating system.
- When the connection window appears, follow the on-screen instructions to begin pairing.
- Enter the PIN code when prompted to complete the Bluetooth pairing process.
    - **Note:** The PIN code is a six-digit number starting with 000, followed by the last three digits of your Captor X +'s serial number. For example, if your serial number is 11123456, your PIN code will be 000456.

TROUBLESHOOTING

If, after entering the PIN code, the Torpedo Captor X + does not appear in the Devices list within Torpedo Wireless Remote, follow these steps:

- Unpair the Torpedo Captor X from your phone's list of paired Bluetooth devices.
- Restart the pairing process using the steps outlined above.

Important Considerations:

- The Torpedo Captor X + must be paired through the Torpedo Wireless Remote app, not through your phone or tablet's Bluetooth settings.
- Some mobile devices require Location (GPS) to be enabled for Bluetooth pairing. If you are unable to connect with Bluetooth alone, try activating Location Services on your phone or tablet before attempting to pair again.
- Wireless connectivity is reserved for Mobile and Tablet devices only — Torpedo Remote's desktop application cannot be used to connect wirelessly to Captor X; similarly, Torpedo Remote's Wireless Application for Phone or Tablet devices cannot connect to Captor X via a wired USB connection using an adapter or similar — only a Bluetooth connection is permitted/possible.

2. Creating a Preset

2.1 VIRTUAL CABINET / IR LOADER Modes

When designing your Presets, Captor X +'s Torpedo Remote software operates with two distinct environments: the "**VIRTUAL CABINET**" and "**IR LOADER**" modes.

- **VIRTUAL CABINET** mode is designed for use with Two notes DynIR Virtual Cabinets.
- The **IR LOADER** mode allows you to use third-party impulse responses (IRs) in .wav format.

Note: Both modes provide access to the same Post FX and share the same Output Routing configuration options (**STEREO** or **DUAL/MONO**) for the XLR outputs.

2.2 Creating a Preset in Captor X +'s VIRTUAL CABINET Mode

Within Captor X's **VIRTUAL CABINET** Mode, a preset includes the following elements:

- A DynIR Virtual Cabinet
- Two microphones (selected from a choice of eight) with adjustable positions within the virtual mic'ing area
- Configurable Output levels for the left and right channels
- Post effects and their related settings; inclusive of:

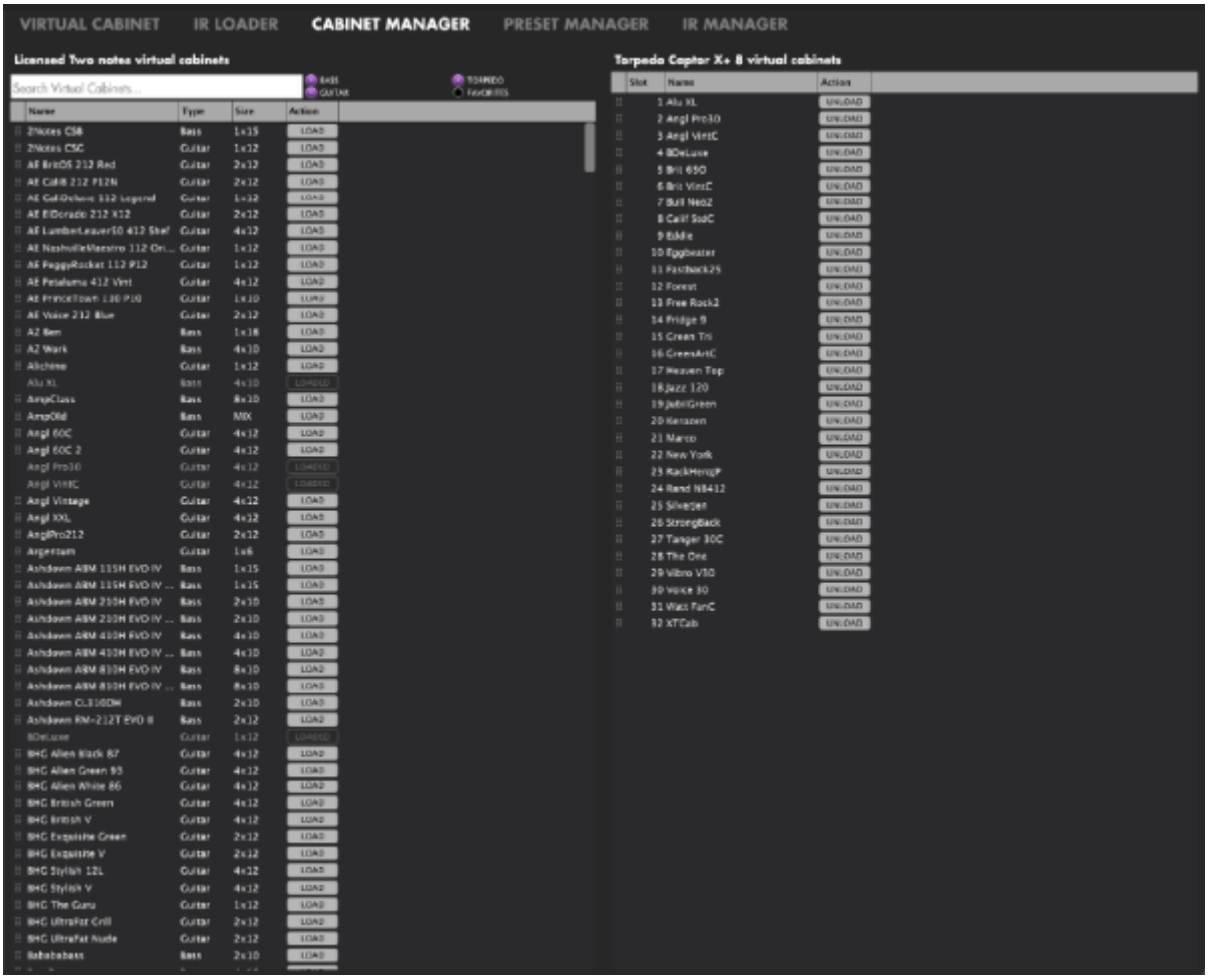
- MIC FX **EQ**
- OUTPUT FX **EQ** (**DUAL/MONO** Mode Only)
- **ENHANCER**
- **REVERB**
- **TWIN TRACKER** (**STEREO** Mode Only)

2.2.1 Managing Virtual Cabinets in the Torpedo Captor X +

Important: To import or remove cabinets in the Torpedo Captor X +, your unit must be registered to your Two notes account via Torpedo Remote. You cannot import or remove cabinets when using Torpedo Remote in Guest Mode.

Important: Cabinet Management in Captor X + can only be actioned via the Desktop Variant of the Torpedo Remote Application using a wired USB connection

2.2.2 Cabinet Management in the Torpedo Captor X +



Open the **CABINET MANAGER** tab to manage the Two notes Virtual Cabinets stored in your Captor X.

- The left panel displays the cabinets available on your computer.
- The right panel shows the cabinets currently stored in the unit.

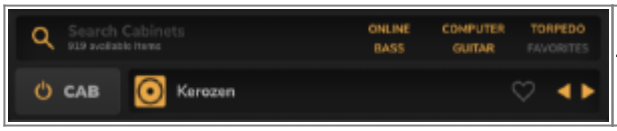
The Torpedo Captor X + ships with its internal memory fully loaded — 32 DynIR cabinets are preinstalled. To import a new cabinet from your computer, you must first free space by removing one or more cabinets from the right panel.

- **Note:** Removing a cabinet only deletes it from the Captor X +'s internal memory. It remains part of your Two notes license and can be reimported at any time using Torpedo Remote.

To import a cabinet, drag and drop it from the left panel to the right panel, or click the Load button to transfer it to the unit.

Within the **CABINET MANAGER**, you can also rearrange the order of the DynIR cabinets stored in your Captor X +. Simply select a cabinet and move it up or down the list to change its assigned slot.

2.2.3 Cabinet choice

	To create a preset, start by selecting a cabinet.

In the **VIRTUAL CABINET** window, click on the instantiated cabinet's name or the arrow next to it to open the list of available cabinets. In the same pane of the Torpedo Remote Interface, you'll find several filtering options to help refine your search:

- **GUITAR / BASS:** Filter the list to display only guitar or bass cabinets.
- **TORPEDO**: View the cabinets currently stored in your Captor X +.
- **COMPUTER**: Access the cabinets linked to your personal Two notes license and stored on your computer.
- **ONLINE**: Browse and audition additional cabinets available from the Two notes Store.

2.2.4 Microphone choice

Each Two notes Virtual Cabinet includes a dedicated collection of eight microphones, carefully matched to that specific cabinet. To access the microphone list, click the field located above the fader of the desired Mic Channel in the Microphone Mixer.

Microphones are categorized by type:

- **DYN** — Dynamic microphone
- **CND** — Condenser microphone
- **RBN** — Ribbon microphone

2.2.5 Microphone Positioning

You can position the microphones freely within the highlighted trapezoid area, either in front of or behind the cabinet. Select **MIC A** or **MIC B** using the corresponding switch, then move the microphone by clicking and dragging (on a computer) or touching and dragging (on a mobile device) the mic or mic stand.

	You can position the microphones freely within the highlighted trapezoid area, either in front of or behind the cabinet.

Select **MIC A** or **MIC B** using the corresponding switch, then move the microphone by clicking and dragging (on a computer) or touching and dragging (on a mobile device) the mic or mic stand.

2.2.6 Microphone Mixer

Within the **Microphone Mixer** pane, use the following controls to adjust each microphone independently:

- **Fader** – Sets the microphone's volume level.
- **FRONT/BACK switch** – Positions the microphone in front of or behind the cabinet.
- **Bypass (B)** – Sends the unprocessed signal.
- **Mute (M)** – Silences the microphone channel.
- **Phase (Ø)** – Inverts the microphone's phase.
- **DISTANCE** and **AXIS** knobs – Adjust the microphone's position relative to the speaker.
- **Pan** - Available only in **STEREO** mode, the Pan control positions each microphone within the stereo field, allowing precise spatial placement for the left and right channels.
- **MIC A/B MIXDOWN (Switch)** — Available only in **DUAL/MONO** mode, the **MIC A/B MIXDOWN** switch blends the two microphone channels after their individual **MIC EQ** and **ENHANCER** Post FX stages, producing a single mono summed signal. This summed signal is then routed to the **OUTPUT FX LEFT/RIGHT** processing blocks, where it passes through output-specific FX (including the OUTPUT FX **EQ** and **REVERB**) before being sent independently to the Left and Right XLR outputs

2.3 Creating a Preset in IR LOADER Mode

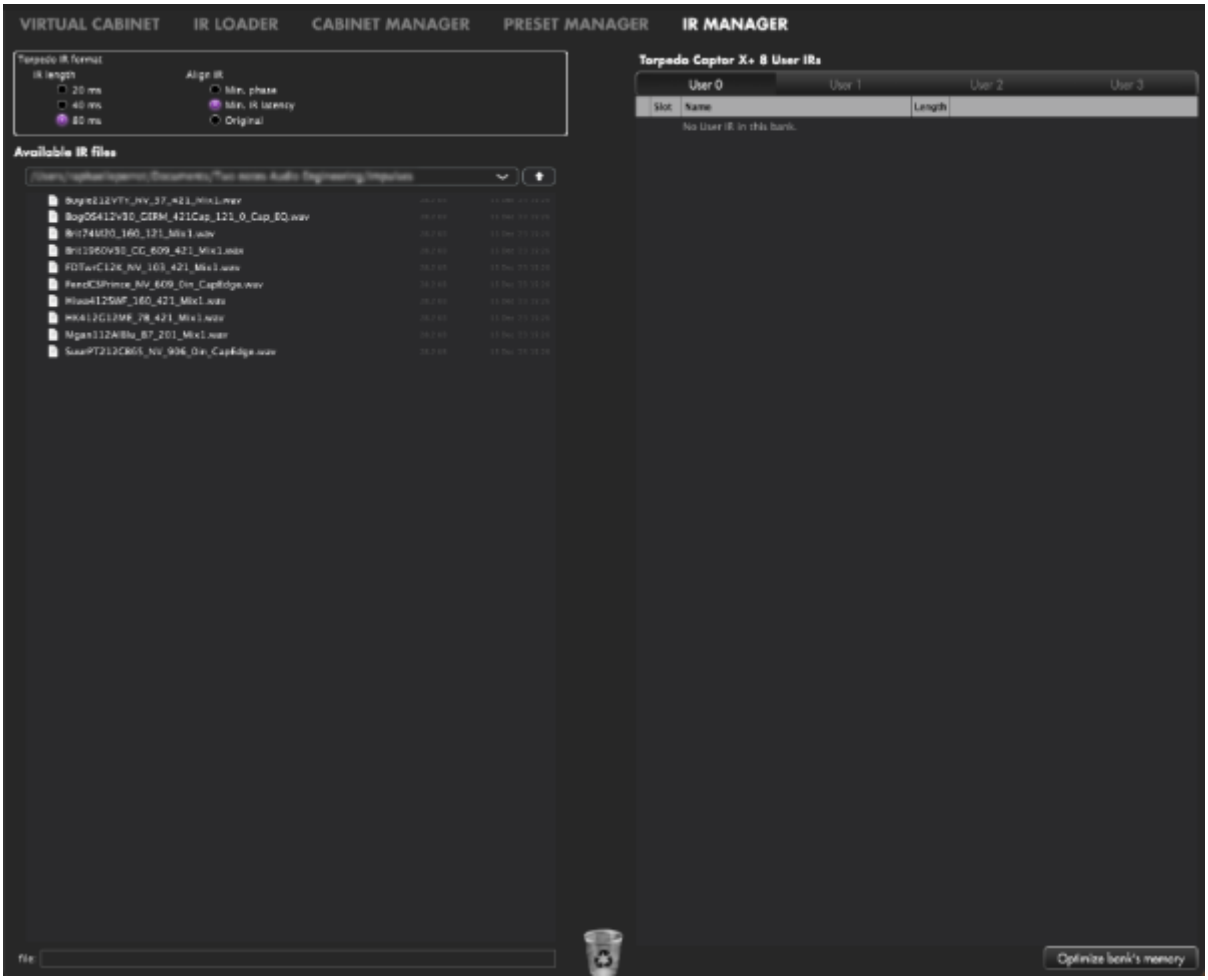
Within Captor X +'s **IR LOADER** Mode, a preset includes the following elements:

- Up to 2 static Impulse Responses in **IR SLOT A** and **IR SLOT B**.
- Output levels for the left and right channels
- Post effects and their related settings; inclusive of:
  - MIC FX **EQ**
  - OUTPUT FX **EQ** (**DUAL/MONO** Mode Only)
  - **ENHANCER**
  - **REVERB**
  - **TWIN TRACKER** (**STEREO** Mode Only)

2.3.1 Importing Static Impulse Responses into Captor X +

Important: To import or remove third-party IRs in the Torpedo Captor X +, the unit must be registered to your Two notes account via Torpedo Remote. You cannot import or remove IRs when using Torpedo Remote in Guest Mode.

2.3.1.1 Static Impulse Response Management in the Torpedo Captor X +



To load an IR file into the Captor X's internal memory, first open the **IR MANAGER** window in Torpedo Remote.

- The left panel displays the IR files stored on your computer, allowing you to browse the folders where your IRs are located.
- The right panel shows the IR files currently loaded into the Torpedo Captor X +.
- You can drag and drop IRs from the left panel (computer) to the right panel (Captor X +) to import them.
- To free up memory slots in the unit, drag and drop IRs to the bin at the bottom of the window.
    - **Note**: Removing an IR only deletes it from the Captor X +'s memory — it remains in your collection on the computer.

The Torpedo Captor X + can store up to 512 impulse responses (IRs). When you upload an IR to the Captor X +, you choose the IR length; Available memory depends on the IR length you select. The internal memory allows:

- 512 slots for 20ms IRs (4 banks of 128 slots)
- 256 slots for 40ms IRs (4 banks of 64 slots)
- 84 slots for 100ms IRs (4 banks of 21 slots)
- 44 slots for 200ms IRs (4 banks of 11 slots)

When transferring IRs, you can adjust several parameters to optimize Captor X +'s performance:

- **IR Length** – Increasing the IR length improves the resolution and low-end accuracy of the Torpedo's processing; available options include 20ms, 40ms, 100ms, or 200ms.
    - If the original IR is longer than the selected length, Torpedo Remote will truncate it to that

length.
    - If the original IR is shorter, Torpedo Remote will pad it with silence (zeros) to match the selected length.
    - Keep in mind that a 40 ms IR occupies two memory slots in the Captor X +.
- **IR Offset** – Determines how the IR file is aligned and processed during transfer.
    - **Min Phase** – Re-aligns samples to ensure the IR remains in phase with others (recommended when using multiple IRs processed the same way).
    - **Min IR Latency** – Removes any silence before the first sample, minimizing latency. This may slightly alter the tone.
    - **Original**- Leaves the IR unchanged. This preserves the file exactly as it is, but may result in phase issues when mixed with other IRs.

2.3.2 Preview Mode

You can also use IRs stored directly on your computer's hard drive without importing them into the Captor X +. When doing so, the unit operates in Preview Mode, which allows you to load one IR at a time (in the **IR SLOT A** only). Presets using a previewed IR can be saved on your computer, but not stored in the Captor X. To access the full functionality of the unit, import your IR files into the Captor X +'s internal memory.

2.3.3 IR Mixer

Within the IR Mixer pane, use the following controls to adjust each Impulse Response independently:

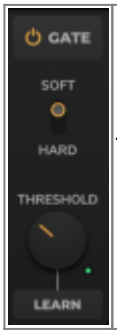
- **Fader** – Sets the IR's volume level.
- **Bypass (B)** – Sends the unprocessed signal.
- **Mute (M)** – Silences the microphone channel.
- **Phase (Ø)** – Inverts the microphone's phase.
- **Pan** - Available only in Stereo mode, the Pan control positions each IR within the stereo field, allowing precise spatial placement for the left and right channels.
- **IR A/B MIXDOWN (Switch)** — Available only in **DUAL/MONO** mode, the **IR A/B MIXDOWN** switch blends the two IR channels after their individual IR **EQ** and **ENHANCER** Post FX stages,

producing a single mono summed signal. This summed signal is then routed to the **OUTPUT FX LEFT/RIGHT** processing blocks, where it passes through output-specific FX (including the OUTPUT FX **EQ** and **REVERB**) before being sent independently to the Left and Right XLR outputs

2.4 Shaping Your Tone in the VIRTUAL CABINET and IR LOADER Modes

The Torpedo Captor X + provides a range of powerful tools to refine and shape your tone before sending it to a public address (PA) system or audio interface. These tools are available in both the **VIRTUAL CABINET** and **IR LOADER** Modes

2.4.1 Noise gate



The Noise Gate (**GATE**) is particularly useful when using a high-gain amplifier or vintage-style single-coil pickups, as it helps keep your signal quiet when you're not playing.

The **THRESHOLD** control determines the level at which the gate becomes active:

- When your signal is above the **THRESHOLD**, the gate is open (signal passes through).
- When your signal is below the **THRESHOLD**, the gate is closed (noise is reduced and the closed status indicated by the illuminated green LED adjacent to the **CLOSED** label).

The **LEARN** function automatically sets the optimal **THRESHOLD** level. To use it:

- Set your guitar's volume to maximum.
- Mute your strings with your hand.
- Click **LEARN** — the Noise Gate will analyze the input signal and set the **THRESHOLD** automatically.

2.4.2 MIC/IR EQ

In the both the **VIRTUAL CABINET** and **IR LOADER** modes, the Torpedo Captor X + provides channel-specific **EQ**s for each DynIR microphone (**VIRTUAL CABINET** Mode) or loaded Impulse Response (**IR LOADER** Mode), allowing precise tonal shaping of individual channels.

Access the independent Mic A/IR A and Mic B/IR B EQs via the **MIC A/MIC B** (**VIRTUAL CABINET** Mode) or **IR A/IR B** (**IR LOADER** Mode) Switch above the Channel EQ interface.

The EQ section offers three operating modes: **GUITAR**, **BASS**, and **CUSTOM**.

- The **GUITAR** and **BASS** modes each provide a 5-band EQ with a gain range of –20 dB to +20 dB.
- The **CUSTOM** mode gives access to a 5-band semi-parametric EQ and an additional high-pass filter for precise tonal control.

The EQ section allows you to fine-tune your tone across multiple frequency ranges. Each mode offers a different set of center frequencies optimized for its application.

- **GUITAR** mode: 120Hz, 360Hz, 800Hz, 2000Hz, 6000Hz (listed from lowest to highest).
- **BASS** mode: 50Hz, 120Hz, 360Hz, 800Hz, 4000Hz (listed from lowest to highest).
- **CUSTOM** mode: the bands are as follow:
  - Low Cut: 10 - 500Hz, 12 dB per octave slope
  - Low: low shelf, 60 - 240 Hz, +/-20dB
  - LMid: peak, 180 - 720 Hz, +/-20dB
  - Mid: peak, 400 - 1600 Hz, +/-20dB
  - High Mid: peak, 1 - 4 kHz, +/-20dB
  - High: peak, 3 - 12kHz, +/-20dB

2.4.3 Enhancer

The **ENHANCER** combines dynamic processing and tone-shaping tools, specifically designed to optimize the sound of your guitar or bass.

- In the **DUAL/MONO** output routing mode (only), the Torpedo Captor X + provides a dedicated **ENHANCER** for each active DynIR microphone or IR channel, selectable via the **MIC A/MIC B** (**VIRTUAL CABINET** Mode) or **IR A/IR B** (**IR LOADER** Mode) Switch.
- In **STEREO** mode, a single stereo **ENHANCER** block is available for unified processing across both channels.

The **GUITAR** and **BASS** modes automatically adapt the **ENHANCER**'s internal processing to the specific frequency range and tonal response of your instrument — ensuring optimal clarity, balance, and punch for each application.

The **DRY/WET** control adjusts the balance between the cabinet simulation signal and the **ENHANCER**-processed signal:

- At 0% (fully counterclockwise), only the cabinet simulation is heard.
- At 50%, the cab sim and **ENHANCER** signals are mixed equally.
- At 100% (fully clockwise), only the processed signal from the **ENHANCER** is heard.

The **BODY** parameter acts as a compressor with a high-pass filter, targeting the low-mid and higher frequencies to add fullness and presence. The high-pass filter cutoff differs by mode:

- 100 Hz in **GUITAR** mode
- 150 Hz in **BASS** mode

The **THICKNESS** and **BRILLIANCE** controls further refine the tone by emphasizing the low and high frequency ranges respectively:

- **THICKNESS**: Centered at 400 Hz (Guitar mode) and 150 Hz (Bass mode)

- **BRILLIANCE**: Centered at 1.5 kHz (Guitar mode) and 2 kHz (Bass mode)
- **Note**: Both **THICKNESS** and **BRILLIANCE** offer a gain range of 0 to +15 dB.

2.4.4 Reverb

The Torpedo Captor X + includes 12 room reverbs and one fully customizable reverb.

In all output routing modes, the Torpedo Captor X + provides dedicated **REVERB** processing tailored to each configuration:

- In **DUAL/MONO** mode, each Output features its own mono **REVERB**, selectable via the **OUTPUT FX LEFT/RIGHT** Switch above the **REVERB** interface
- In **STEREO** mode, a single stereo **REVERB** block processes both channels together for cohesive, unified spatial effects.

When using the **CUSTOM** REVERB mode, you can adjust the following parameters:

- **DRY/WET**: Balances the direct signal and the reverb. At the midpoint, both levels are equal.
- **SIZE:** Controls the perceived size of the acoustic space — from small and intimate to large and spacious
- **ECHO:** Adjusts the level of reflections within the reverb.
- **COLOR:** Shapes the tonal character of the reverb, from dark and warm to bright and airy.
- **WIDTH** (Only Available in **STEREO MODE**): This control allows the reverb to be configured anywhere between mono and full stereo. Setting the knob fully to the left produces a mono reverb, centered in the mix, while turning it fully to the right creates a wide stereo reverb with an expansive spatial image. The reverb's width is therefore customisable to the Stereo DynIR or IR settings configured in the Microphone Mixer or IR Mixer panes, allowing precise integration with the selected cabinet or IR setup for both mixing and live performance applications.

The **ROOM/AMBIENCE** Switch allows you to change the acoustic profile of the reverb:

- **ROOM**: Produces a bright sound with plenty of early reflections.
- **AMBIENCE**: Creates a subtler response with fewer early reflections and enhanced low-end presence.

2.4.5 OUTPUT FX EQ

In the **DUAL/MONO** output routing mode, the Torpedo Captor X + provides a dedicated **OUTPUT EQ** for each XLR output.

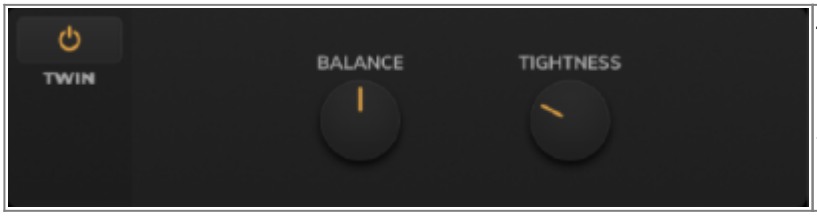
- Each output's EQ can be selected via the **OUTPUT FX LEFT/RIGHT** Switch above the **REVERB** interface
- Positioned after the Reverb module in the signal chain, the **OUTPUT FX EQ** allows independent tone adjustments for each output channel.

- This feature is designed for quick tonal fine-tuning, enabling adaptation of your sound to a specific live venue, monitoring system, or recording setup, without affecting your main Channel Specific EQ.

The **OUT EQ** shares the same controls and behavior as the standard EQ module allowing you to fine-tune your tone across multiple frequency ranges. Each mode offers a different set of center frequencies optimized for its application.

- **GUITAR** mode: 120Hz, 360Hz, 800Hz, 2000Hz, 6000Hz (listed from lowest to highest).
- **BASS** mode: 50Hz, 120Hz, 360Hz, 800Hz, 4000Hz (listed from lowest to highest).
- **CUSTOM** mode: the bands are as follow:
  - Low Cut: 10 - 500Hz, 12 dB per octave slope
  - Low: low shelf, 60 - 240 Hz, +/-20dB
  - LMid: peak, 180 - 720 Hz, +/-20dB
  - Mid: peak, 400 - 1600 Hz, +/-20dB
  - High Mid: peak, 1 - 4 kHz, +/-20dB
  - High: peak, 3 - 12kHz, +/-20dB

2.4.6 TWIN TRACKER



The **TWIN TRACKER** is only available in Captor X +'s **STEREO** Mode and is an automatic double-tracking processor that enhances your sound by creating a realistic double-tracked stereo spread.

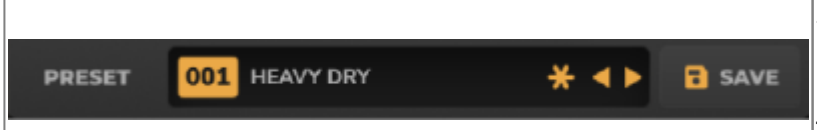
When engaged, the DynIR or IR-processed signal is sent to the left output, while **TWIN TRACKER** generates a second, virtual performance on the right channel in real time. Subtle variations in timing and attack between the two signals create a fuller, wider, and more powerful tone.

The **TWIN TRACKER** offers two adjustable parameters:

- **BALANCE** – Controls the level of the TWIN TRACKER signal. Turning it fully down outputs only the left (original) signal.
- **TIGHTNESS** – Adjusts the timing offset of the virtual guitarist. Latency can reach up to 70 ms.

Note: When enabled, the **REVERB WIDTH** parameter is automatically set to 100% for optimal stereo depth.

2.5 Saving & Loading Presets in the Torpedo Captor X +



The Preset Rack, located at the top of the **VIRTUAL CABINET** and **IR LOADER** windows, allows you to save and load presets within the Torpedo Captor X +. The unit provides 128 memory slots for storing your custom presets.

Use the **PRESET MANAGER** tab to manage the presets on your Torpedo Captor X +. The left panel displays the preset folders available on your computer, while the right panel shows the presets currently stored in the unit.

- You can reorder presets in the Torpedo Captor X + by moving them up or down in the list.
- The first six preset slots are directly accessible using the **PRESET** knob on the front panel of the unit.
- To remove a preset, drag and drop it into the bin below.
- To import a preset, drag and drop it from the left panel (your computer) to the right panel (the Captor X +'s internal memory).

3. Output Routing

	The Torpedo Captor X + offers multiple routing modes for its XLR outputs, which can be configured as either **STEREO** or **DUAL/MONO**.

To change the routing mode, click the **DUAL MONO / STEREO** Switch located above the **OUTPUT LEVEL** knob.

3.1 STEREO Mode

In **STEREO** mode, both outputs deliver the DynIR Virtual Cabinet simulation (**VIRTUAL CABINET** Mode) or Dual Static Impulse Response (**IR LOADER** Mode) signal as configured in the Microphone Mixer / IR Mixer panels respectively, inclusive of all pan settings. In this mode, you also have access to the **TWIN TRACKER**, the Stereo **ENHANCER** and Captor X +'s Stereo **REVERB** Post FX.

Troubleshooting: * If only the right XLR output is connected and excessive latency occurs, check Torpedo Remote to confirm that **STEREO** routing with **TWIN TRACKER** is not enabled, and ensure that the **TIGHTNESS** parameter is not set to its maximum

3.1.1 SPACE Knob Assignment in STEREO Mode

	On the Captor X +'s front panel, the **SPACE** knob provides quick, on-the-fly control of a selected pre-defined parameter. The function of the **SPACE** knob can be assigned in Torpedo Remote by clicking the purple button located below the **SPACE** control in the software interface.

In Captor X +'s **STEREO** Mode, the following **SPACE** Knob Assignments are available:

- **ST. EXP. (Stereo Expansion)** - The **SPACE** knob can operate in two ways depending on the **TWIN TRACKER** status:
- When **TWIN TRACKER** is off, the **SPACE** knob controls the **WIDTH** of the **REVERB**.
- When **TWIN TRACKER** is on, the **SPACE** knob controls the **TIGHTNESS** parameter of the **TWIN TRACKER**. In this case, the **REVERB WIDTH** is automatically set to 100%.
- **D/W (Dry Wet)** - The **SPACE** Knob is assigned to the **DRY/WET** level of the Stereo **REVERB**.

3.2 DUAL/MONO Routing

This routing mode allows each XLR output to carry an independent signal. There are two selectable **DUAL/MONO** behaviors selected via the **MIC A/B Mixdown** (**VIRTUAL CABINET** Mode) / **IR A/B Mixdown** (**IR LOADER** Mode) switch).

- In standard **DUAL/MONO** operation (with the "**Mic/IR A/B Mixdown**" switch disengaged), Microphone 1/IR 1 is routed to the Left XLR output, and Microphone 2/IR 2 to the Right XLR output. Each Mic/IR Channel and related output includes its own **MIC/IR EQ** and **ENHANCER**, configurable per Channel (via the **MIC FX/IR FX MIC A/MIC B / IR A/IR B** switch); in addition, a Mono **REVERB**, and **OUTPUT FX EQ** are available per output (Selectable via the **OUTPUT FX LEFT/RIGHT** switch) allowing fully independent processing for the Left and Right outputs.
- When the "**Mic/IR A/B Mixdown**" switch is engaged, both microphones/IRs first pass through their individual **MIC/IR EQ** and **ENHANCER** stages (via the **MIC FX/IR FX MIC A/MIC B / IR A/IR B** switch), after which they are summed into a single blended signal. This blended mic signal is then delivered to both XLR outputs, where it is processed by independent **REVERB** and **OUT EQ** modules assigned to each output, selectable via the **OUTPUT FX LEFT/RIGHT** switch.

For parameter specific details for all **MIC FX/IR FX** and **OUTPUT FX**, please see 2.4 Shaping Your Tone in the VIRTUAL CABINET and IR LOADER Modes.

3.2.1 SPACE Knob Assignment in DUAL/MONO Mode

	On the Captor X +'s front panel, the **SPACE** knob provides quick, on-the-fly control of a selected pre-defined parameter. The function of the **SPACE** knob can be assigned in Torpedo Remote by clicking the purple button located below the **SPACE** control in the software interface.

In Captor X +'s **DUAL/MONO Mode**, the following Space Knob Assignments are available:

	**D/W (Dry/Wet)** - The SPACE knob controls the DRY/WET REVERB level for both XLR outputs.
	**D/W L (Dry/Wet Left)** - The SPACE knob controls the DRY/WET REVERB level for the Left XLR output.
	**D/W R (Dry/Wet Right)** - The SPACE knob controls the DRY/WET REVERB level for the Right XLR output.

3.2.2 BYPASS Torpedo Processing

	Activating the **BYPASS** button on the right output channel disables all Torpedo processing for that channel, sending the dry, unaffected amplifier signal directly to the right XLR output. This configuration is ideal for recording, as it allows simultaneous capture of the full cabinet simulation from the Left XLR output and the unprocessed dry signal from the Right XLR output.

4. VIRTUAL LOAD SHAPER

The **VIRTUAL LOAD SHAPER** introduces a powerful new way to refine Captor X +'s direct outputs. By applying carefully designed post-load impedance curves, it reshapes the tonal character of your amp's signal after the load stage. The result is instant flexibility: add warmth, tighten lows, or

highlight upper-mid bite, all tailored for your XLR and headphone feeds while your companion cabinet connection remains completely unaffected.

	The **VIRTUAL LOAD SHAPER** is accessible from both the **VIRTUAL CABINET** and **IR LOADER** windows, and operates as a global parameter, with its settings applied across all presets on the Torpedo Captor X +.

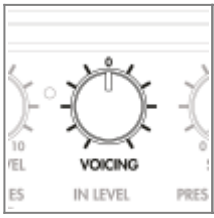
Within the **VIRTUAL LOAD SHAPER**, the following parameters are available to configure the processing engine:

- Left Arrow / Right Arrow: Navigates through the available **VIRTUAL LOAD SHAPER** presets. These arrows step backward or forward through the predefined curves.
    - Note: For Captor X +'s predefined **VIRTUAL LOAD SHAPER** Presets, editing of the response is unavailable. To create a bespoke **VIRTUAL LOAD SHAPER** response, please use the **CUSTOM MODE** (see below)
- **CUSTOM MODE** (Switch): Engage to unlock all **VIRTUAL LOAD SHAPER** controls and create a bespoke **VIRTUAL LOAD SHAPER** response curve. When instantiating the **CUSTOM MODE**, the following parameters are available to configure the **VIRTUAL LOAD SHAPER**
- **RESONANCE**: Adjusts the strength of the simulated speaker resonance at low frequencies. To configure the **RESONANCE** portion of the **VIRTUAL LOAD SHAPER**, the following controls are available:
    - **GAIN**: Controls the level of the low-frequency **RESONANCE** peak being applied. Use this to add weight or reduce boominess.
    - **FREQ**: Sets the center frequency of the low-end **RESONANCE** peak.
    - **Q**: Controls the width/bandwidth of the low-frequency **RESONANCE** effect. Higher Q values create a narrow, more pronounced peak; lower Q values create a smoother, broader lift.
- **PRESENCE**: This collection of parameters enhance articulation, definition, and pick attack, configured via the following controls:
    - **GAIN**: Controls the intensity of the **PRESENCE** boost.
    - **FREQ**: Defines the center frequency of the **PRESENCE** shaping. Lower frequencies add body and aggression; higher frequencies add sparkle and air.

5. Tuner

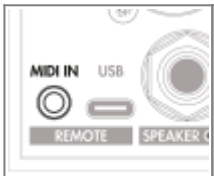
Access the **TUNER** by clicking the fork icon located next to the mic selection in the Room image. The tuner is fully chromatic, and its reference pitch can be adjusted in the SETUP MANAGER from 410 Hz to 490 Hz, with a default of 440 Hz.

6. VOICING Knob



On the front panel of the Torpedo Captor X +, the **VOICING** control shapes the overall tonal balance of the signal routed to the XLR outputs. It operates as a single-band EQ centered at 900 Hz, offering a –12 dB to +12 dB adjustment range.

7. MIDI Control



The Torpedo Captor X + supports full **MIDI** control using any standard MIDI controller. To activate MIDI functionality, connect your controller using the supplied MIDI-to-mini-jack adapter cable. All Captor X + parameters can be adjusted via Control Change (CC) messages, and presets can be recalled using Program Change (PC) messages. For complete mapping details, refer to Specifications / 1 MIDI

8. Flashing Red LED Indicator

The Torpedo Captor X + includes a red status LED within the illuminated grille that provides visual feedback for specific conditions:

- Input or output stage clipping
- Active file transfers between the unit and Torpedo Remote
- System errors unrelated to the incoming audio signal

8.1 Rectifying Clipping in Captor X +’s Input or Output Stages

It is possible to overload either the input or output stages of the Torpedo Captor X +. When clipping

occurs, the red LED will illuminate.

To determine where clipping is taking place:

- Reduce the Output Level on the Captor X + front panel or in Torpedo Remote.
- Play your instrument and observe the red LED:
  - If the LED stops lighting, the clipping was occurring at the output stage.
  - If the LED continues lighting, the clipping is occurring at the input stage.
- If input clipping is confirmed, set the **IN LEVEL** switch (front panel, element N°7) to LOW to activate the –15 dB input pad
- If input clipping persists even with the pad engaged, lower the amplifier's volume until the red LED no longer illuminates.

Note: Input and output levels can also be monitored using the VU meters in Torpedo Remote.

8.2 Communication with Remote

When a file transfer is in progress between the Torpedo Captor X + and Torpedo Remote, the red LED functions as a progress indicator. It flashes in proportion to the percentage of data transferred, allowing verification that the process is proceeding normally and not stalled.

This occurs during the transfer of Virtual Cabinets, IR files, and Firmware Updates.

8.3 System Error

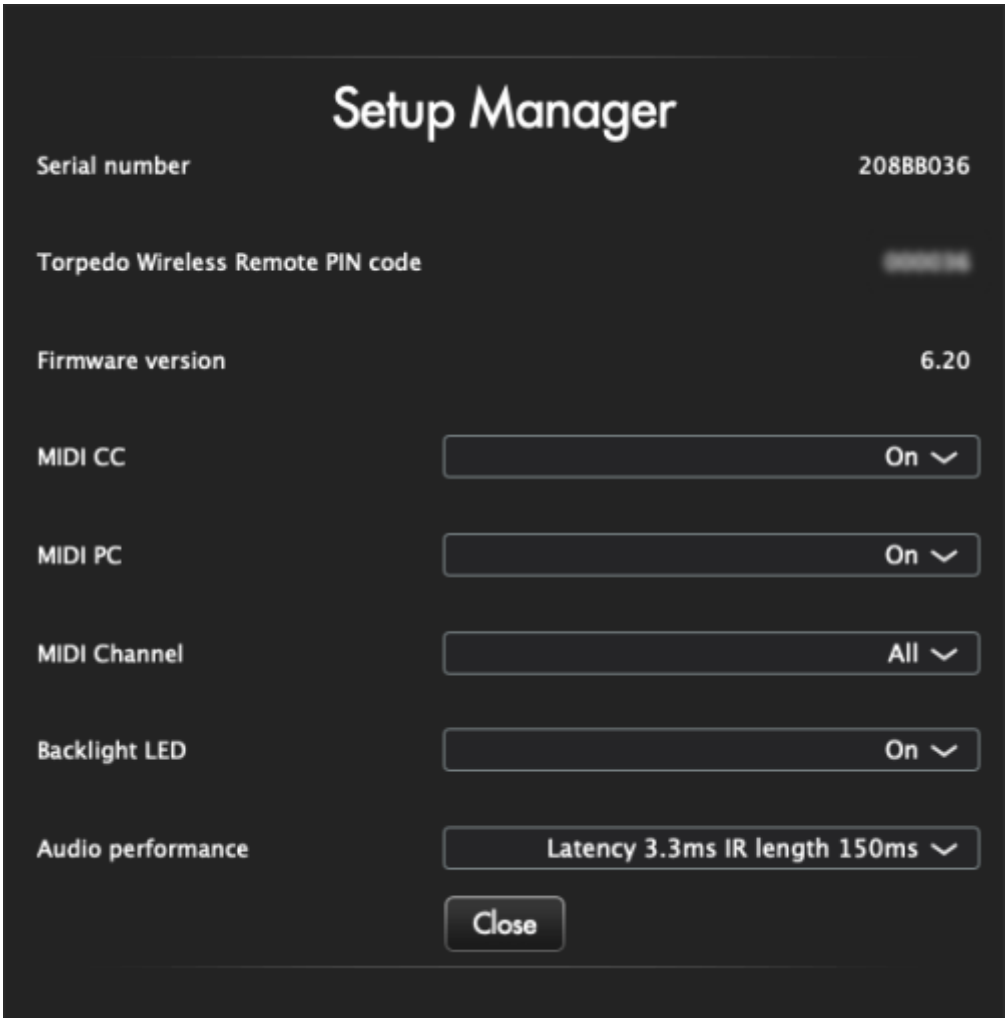
The red LED on the Torpedo Captor X + flashes when a firmware or system error is detected.

To distinguish a system error from input or output clipping:

- Turn off the amplifier and disconnect it from the Captor X +.
- If the LED continues to flash while the unit is unplugged from the amplifier, a system error is present.

Refer to the LED report guidehere for instructions on interpreting the flash pattern. Once the LED sequence has been identified, please submit a support ticket through the Two notes Helpdesk including the transcribed LED report.

Setup Manager



The **SETUP MANAGER** in Torpedo Remote provides access to the hardware configuration of the Torpedo Captor X +. This menu allows adjustment of key parameters such as:

- Audio latency
- MIDI mapping and behavior
- White LED behavior
- The tuner reference frequency (default value set at 440 Hz)

It also displays important device information, including the serial number and firmware version.

1. MIDI

The Torpedo Captor X + supports both Program Change (PC) and Control Change (CC) MIDI commands. This enables full interaction with the unit’s parameters from any standard MIDI controller, such as a MIDI pedalboard or keyboard. In the **SETUP MANAGER**, the following MIDI settings can be configured:

- **RECEIVE TYPE** – Select whether the Captor X + is configured to receive Program Change Messages, Control Change Messages, or both.
    - Example: If only preset switching is required, CC Receive can be set to Off.
- **MIDI CHANNEL** – Define the channel on which the Captor X + will receive MIDI commands, or select All Channels if the transmitting channel is unknown.
- **MIDI MONITOR** – Use this feature to verify that the Captor X + is correctly receiving incoming

MIDI commands.

Note: Refer to Section Specifications / 1 MIDI for a detailed breakdown of all available Program Change and Control Change assignments.

2. Audio Performance

The Audio Performance section displays the total system latency of the Torpedo Captor X +, measured from input to output. Even at the highest setting, latency remains extremely low and imperceptible during normal playing.

Note: When multiple digital devices are used in the same signal chain, their individual latencies can accumulate and become noticeable. In such cases, reducing the latency setting may improve overall system response.

Selectable Latency Values

- **1.27 ms** – with IR length set to 20 ms
- **1.94 ms** – with IR length set to 40 ms
- **3.27 ms** – with IR length set to 150 ms

Note: The factory default latency setting is 3.27 ms, corresponding to an IR length of 150 ms.

Expanding the DynIR Virtual Cabinet Library

The Torpedo Captor X + supports the use of Two notes DynIR Virtual Cabinets, which can be previewed and managed through the Torpedo Remote (Desktop) software. When browsing cabinets in Remote, the list may appear larger than the number of cabinets currently owned or installed on the Captor X +. This is because all available DynIR cabinets can be previewed before purchase.

Cabinet Iconography

The DynIR Virtual Cabinet list displays three icon types, indicating the cabinet's source:

TORPEDO	Cabinets installed on the Torpedo Captor X +
COMPUTER	Cabinets included in the user license (stored on the computer)
ONLINE	Cabinets not yet owned, which can be previewed before purchase through the Two notes Store

1. Previewing Licensed Cabinets

When previewing a licensed cabinet stored on the computer, the Remote software must first load it

before parameters can be adjusted. During preview, only one microphone is available for editing. Audio continues to pass through the Captor X +, allowing normal operation while previewing.

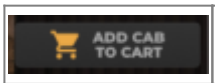
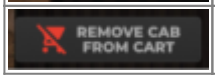
2. Transferring Licensed Cabinets

	Use this function to transfer a previewed cabinet from the computer to the Captor X +, provided there are available memory slots in the unit.

3. Previewing Unlicensed Cabinets

When previewing a cabinet not included in the user's license, random silences are inserted, and only one microphone is available for use. This feature allows evaluation of the cabinet before purchase.

4. Purchasing Unlicensed Cabinets

	Cabinets can be added to the Store Cart by clicking the "**ADD CAB TO CART**" Icon with the plus sign. Repeat this process to add multiple cabinets.
	To complete a purchase, click the "**OPEN CART**" Icon which opens the online Two notes Store.
	To remove a cabinet from the cart, click the "**REMOVE CAB FROM CART**" Icon.

Note: For security reasons, no billing or payment information is stored within the Torpedo Remote software.

Impedance selection guide

The effective impedance of the combined system—amplifier, Torpedo Captor X +, and connected speaker cabinet—that is, the impedance seen by the amplifier, varies depending on the position of the 3-position Cabinet Volume Level switch:

Setup Scenario	Volume Level Setting	Impedance Seen by the Amplifier
Speaker cabinet connected to SPEAKER OUT	LOW or HALFWAY	Impedance of the Torpedo Captor X +
Speaker cabinet connected to SPEAKER OUT	FULL	Impedance of the speaker cabinet

1. Impedance Matching and Safety Notes

Throughout this manual, it is assumed that the amplifier's output impedance matches the input

impedance of the Torpedo Captor X + (for example, connecting an 8Ω amplifier output to an 8Ω Captor X +).

An impedance mismatch can occur in two common situations:

- When using a Captor X + with an impedance rating that differs from the amplifier's output tap (for example, a 16Ω Captor X + connected to an 8Ω amplifier output)
- When the Volume Level switch is set to FULL, and the connected speaker cabinet has a different impedance than the amplifier's output tap

If operation with a mismatch is unavoidable, follow these precautions:

- Limit mismatches to small ratios only (e.g., 4 vs 8Ω or 8 vs 16Ω).
- Avoid large mismatches such as 2 vs 8Ω, 2 vs 16Ω, or 4 vs 16Ω.
- Start at low amplifier volume and carefully monitor performance—tone, output tube color, and general stability.
- If any abnormal behavior is observed, stop immediately.
- Refer to the "Recommendations for the Correct use of a Load Box with a Tube Amplifier" in this user manual for additional safety guidance.
- For further information, consult the Two notes article on impedance mismatches which explains safe operating practices in greater detail.

2. Notes for Solid-State Amplifiers

Solid-state amplifiers are designed differently from tube amplifiers. They typically specify a minimum load impedance rather than requiring an exact match. This means any speaker or load box with an impedance equal to or greater than the stated minimum can be used safely. For example, an amplifier rated at "8Ω minimum" can safely drive 8Ω or 16Ω loads.

3. Important Safety Notice

	When the Volume Level switch is set to **FULL**, inserting a cable into the **SPEAKER OUT** of the Torpedo Captor X + automatically disconnects the internal load. At this point, the amplifier is connected only to the external device attached to the other end of that cable.
	If a cable is inserted into the **SPEAKER OUT** without a cabinet or load connected at the other end, the amplifier will not be connected to a proper load. This can result in serious damage to the amplifier's output stage, especially in tube amplifiers.

Technical Specifications

1. MIDI

1.1 MIDI cable

The Torpedo Captor X + is supplied with a MIDI 5-pin DIN (Type A) to 3.5 mm (1/8”) TRS jack adapter cable. The wiring of this cable follows the MIDI Manufacturers Association (MMA) standard for the use of TRS connectors with MIDI devices.

Wiring configuration:

- Tip is connected to pin N°5
- Ring is connected to pin N°4
- Sleeve is connected to pin N°2

For complete specifications and technical details on the MMA TRS-MIDI standard, visit the MIDI Manufacturers Association website.

1.2 Program Change Messages (PC)

Each preset on the Torpedo Captor X + corresponds to a unique MIDI Program Change (PC) number. Preset 001 is triggered by MIDI PC #1, and so on up to MIDI PC #128, allowing direct access to all 128 available presets. This mapping enables instant recall of any preset by sending the corresponding MIDI Program Change command to Captor X +.

1.3 Control Change Messages (CC)

The following table lists the Control Change (CC) numbers assigned to each Captor X + parameter, along with their corresponding value ranges and response behaviors.

Name	CC	Value Range	Comment
Cab Mic			
On / Off	6	[0, 1]	0 = Off ; 1 = On
Cab	8		0 = Cab #0 ; 1 = Cab #1...
File A	9	[0, x]	0 = File #0 ; 1 = File #1...
File B	10	[0, x]	0 = File #0 ; 1 = File #1...
Folder A	11	[0, 3]	0 = User 0 ; 1= User1; 2 = User 2 ; 3 = User 3
Folder B	12	[0, 3]	0 = User 0 ; 1= User1; 2 = User 2 ; 3 = User 3
Mic A	13	[0, 7]	0 = Mic #1 ; 1 = Mic #1...
Distance A	14	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Center A	15	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Position A	16	[0, 1]	0 = Back : 1 = Front
Level A	35	[0, 107]	0 = -95dB ; 95 = 0dB ; 107 = 12dB
Phase A	36	[0, 1]	0 = Normal ; 1 = Invert
Mute A	37	[0, 1]	0 = Off (no mute) ; 1 = On (mute)
Mic B	38	[0, 7]	0 = Mic #1 ; 1 = Mic #1...
Distance B	39	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Center B	40	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Position B	41	[0, 1]	0 = Back : 1 = Front

Level B	42	[0, 107]	0 = -95dB ; 95 = 0dB ; 107 = 12dB
Phase B	43	[0, 1]	0 = Normal ; 1 = Invert
Mute B	44	[0, 1]	0 = Off (no mute) ; 1 = On (mute)
Bypass A	51	[0, 1]	0 = Off (Mic on) ; 1 = On (Mic Bypass)
Bypass B	52	[0, 1]	0 = Off (Mic on) ; 1 = On (Mic Bypass)
Pan A	28	[0, 127]	0 = 100 % Left ; 127 = 100% Right ; 64 = Center
Pan B	29	[0, 127]	0 = 100 % Left ; 127 = 100% Right ; 64 = Center
Mic EQ			
On / Off	17	[0, 1]	0 = Off ; 1 = On
Mode	18	[0, 2]	0 = Guitar : 1 = Bass ; 2 = Custom
Gain: Low A	19	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: Low Mid A	20	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: Mid A	21	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: High Mid A	22	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: High A	23	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Freq: High Pass A	45	[0, 127]	Specific mapping to Hz
Freq: Low A	46	[0, 127]	Specific mapping to Hz
Freq: Low Mid A	47	[0, 127]	Specific mapping to Hz
Freq: Mid A	48	[0, 127]	Specific mapping to Hz
Freq: High Mid A	49	[0, 127]	Specific mapping to Hz
Freq: High A	50	[0, 127]	Specific mapping to Hz
Gain: Low B	105	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: Low Mid B	106	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: Mid B	107	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: High Mid B	108	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: High B	109	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Freq: High Pass B	110	[0, 127]	Specific mapping to Hz
Freq: Low B	111	[0, 127]	Specific mapping to Hz
Freq: Low Mid B	112	[0, 127]	Specific mapping to Hz
Freq: Mid B	113	[0, 127]	Specific mapping to Hz
Freq: High Mid B	114	[0, 127]	Specific mapping to Hz
Freq: High B	115	[0, 127]	Specific mapping to Hz
Reverb			
On / Off	25	[0, 1]	0 = Off ; 1 = On
Room	26	[0, 7]	0 = Room #0 ; 1 = Room #1...
Type	56	[0, 1]	0 = Room ; 1 = Ambience
Width	57	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Size L	53	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Echo L	54	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Color L	55	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Size R	116	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Echo R	117	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Color R	118	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Dry-Wet Mix L	27	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Dry-Wet Mix R	72	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Enhancer			

On / Off	61	[0, 1]	0 = Off ; 1 = On
Instrument	62	[0, 1]	0 = Guitar ; 1 = Bass
Body L	63	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Thickness L	64	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Brilliance L	65	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Dry-Wet Mix L	66	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Body R	30	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Thickness R	31	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Brilliance R	32	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Dry-Wet Mix R	33	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Noise Gate			
On / Off	58	[0, 1]	0 = Off ; 1 = On
Room	59	[0, 1]	0 = Soft; 1 = Hard
Threshold	60	[0, 80]	0 = -80dB ; 80 = 0dB
Twin Tracker			
On / Off	67	[0, 1]	0 = Off ; 1 = On
Room	68	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
On / Off	69	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Monitor EQ			
On / Off	73	[0, 1]	0 = Off ; 1 = On
Mode	74	[0, 2]	0 = Guitar : 1 = Bass ; 2 = Custom
Gain: Low R	75	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: Low Mid R	76	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: Mid R	77	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: High Mid R	78	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: High R	79	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Freq: High Pass R	80	[0, 127]	Specific mapping to Hz
Freq: Low R	81	[0, 127]	Specific mapping to Hz
Freq: Low Mid R	82	[0, 127]	Specific mapping to Hz
Freq: Mid R	83	[0, 127]	Specific mapping to Hz
Freq: High Mid R	84	[0, 127]	Specific mapping to Hz
Freq: High R	85	[0, 127]	Specific mapping to Hz
Gain: Low L	94	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: Low Mid L	95	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: Mid L	96	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: High Mid L	97	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: High L	98	[0, 40]	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Freq: High Pass L	99	[0, 127]	Specific mapping to Hz
Freq: Low L	100	[0, 127]	Specific mapping to Hz
Freq: Low Mid L	101	[0, 127]	Specific mapping to Hz
Freq: Mid L	102	[0, 127]	Specific mapping to Hz
Freq: High Mid L	103	[0, 127]	Specific mapping to Hz
Freq: High L	104	[0, 127]	Specific mapping to Hz
Output			
Mode	70	[0, 2]	0 = Stereo ; 1 = Dual Mono ; 2 = Dual Mono, R Bypass

Space Pot Assign	71	[0, 1]	Stereo: 0 = Stereo Expander ; 1 = Dry/Wet ; Dual Mono: 0 = Dry/Wet ; 1 = Dry/Wet L ; 2 = Dry/Wet R ; Dual Mono, R Bypass: 0 = Dry/Wet
General - Preset			
Mode	34	[0, 1]	0 = Stereo ; 1 = IR Loader
General			
Out Level	87	[0, 107]	0 = -95dB ; 95 = 0dB ; 107 = 12dB
Mute	88	[0, 1]	0 = Off (no mute); 1 = On (mute)
Preset Number	90	[0, 127]	0 = Preset #1 ; 1 = Preset #2 ...
Voicing	91	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Space	92	[0, 127]	0 = 0% ; 63 = 50% ; 127 = 100%
Mono Downmix	93	[0, 1]	Enable downmix to mono after the enhancer (only available in dual-mono mode).
General			
Preset L	87	[0, 107]	Level of Left channel output (available only in dual-mono mode)
Preset R	87	[0, 107]	Level of Right channel output (available only in dual-mono mode)

2. Included DynIR Virtual Cabinets

The following DynIR Virtual Cabinets are pre-installed on the Torpedo Captor X +:

Designation	**Inspired by**
GUITAR cabinets	
Angl Pro30	Engl® 4×12 Celestion® Vintage 30
Angl VintC	Engl® 4×12
BdeLuxe	Fender® Blues Deluxe
Brit 65O	Marshall® 1965A 4×10 Celestion® G10L-35 open back
Brit VintC	Marshall® Slash Signature 4×12 with Celestion® V30
Calif StdC	Mesa/Boogie® Rectifier® Standard 4×12 Celestion® V30 closed back
Eddie	Peavey® 5150 2×12 Sheffield 1200
Eggbeater	Egnater® Tourmaster cabinet
FastBack	4×12 cabinet with Celestion® Pre-Rola G12M Greenback
Forest	Elmwood® 2×12 cabinet with Celestion® V30
Free Rock2	VHT® Deliverance 2×12 Eminence® P50E
GreenArtC	Marshall® 4×12 for JMP Amplifier
GreenTri	Hughes&Kettner® Triamp 4×12 with Celestion® Greenback
Jazz120	Vintage Roland® JC120 2×12”
JubilGreen	Marshall® 2556AV 2×12 Celestion® Greenback
Kerozen	Diezel® 4×12” Celestion® G12K-100
RackHeroJP	Custom Audio Amplifier 2×12 with Celestion® G12T-75
Rand NB412	Randall® Signature Series 4×12 angled with Celestion® Greenback
SilverJen	Fender® Twin Reverb® 2×12 with Jensen® speakers
StrongBack	VHT® Fat Bottom series cabinet P50E speaker
Tanger 30C	PPC112HP© 1×12 Orange® with Celestion® Vintage 30
The One	Brunetti® Neo1512 1×15” + 1×12”
Vibro V30	Vintage 1961 Fender® Vibrolux® 1×12 Celestion® V30

Designation	Inspired by
Voice 30	Original Vox® AC30 JMI 2×12 Celestion® “Silver Bell”
Watt FanC	Hiwatt® 2×12 Fane closed back
XTCab	Bogner® 4×12” Celestion® V30

BASS cabinets	
AluXL	Hartke® XL 4×10”
Bull Neo2	2×10” cabinet
Fridge9	Ampeg® 9×10”
Heaven Top	David Eden® 4×10 Markbass® 2×10
Marco	Markbass® 2×10
New York	Markbass® 4×6”

2.1 Additional Cabinets for First-Time Registration

The following DynIR Virtual Cabinets are granted to the first registered owner of the Torpedo Captor X + upon successful product registration:

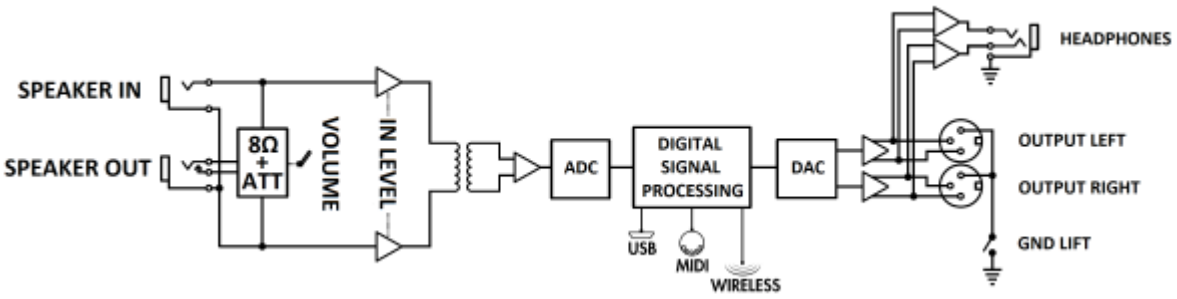
Designation	Inspired by
Rand RD112	Randall® 1×12
Romanum2	Cicognani® 2×12
Calif C90	Mesa Engineering® 1×12

2.2 Cabinets Included with GENOME Lifetime License

The following DynIR Virtual Cabinets are unlocked when activating the complementary lifetime GENOME license bundled with the Torpedo Captor X +, following product registration:

Designation	Inspired by
JPTR FX Stack 612 Vint	JPTR FX® 6×12
AE BritOS 212 Red	Marshall® 2×12
AE CaliB 212 P12N	Fender® 2×12
AE PeggyRocket 112 P12	Ampeg® 1×12
AE PrinceTown 110 P10	Fender® 1×10
AE ElDorado 212 X12	Soldano® 2×12
AE NashvilleMaestro 112 Origin	Gibson® 1×12
AE LumberLeaver50 412 Shef	Peavey® 4×12
AE Petaluma 412 Vint	Mesa Engineering® 4×12
AE Voice 212 Blue	Vox® 2×12
AE CaliDeluxe 112 Legend	Fender® 1×12
Watt FanC	Hiwatt® 2×12 Fane closed back
Brit VintC	Marshall® 4×12
Vibro V30	Fender® 1×12
Brit VintO	Marshall® 4×12
Fridge 9	Ampeg® 8×10

3. Block diagram



4. Technical Data

Input / Output	
Speaker Input	1/4″ (6.35mm) jack unbalanced (TS: Tip/Sleeve)
Speaker Output	1/4″ (6.35mm) jack unbalanced (TS)
Headphone Output	1/4″ (6.35mm) jack balanced (TRS: Tip/Ring/Sleeve)
Left / Right Outputs	XLR Balanced Maximum output level: 15 dBu Impedance: 600 Ohms
MIDI Input	1/8″ jack balanced TRS Jack to MIDI cable adapter supplied.
USB Connector	USB-C USB-C to USB-A cable supplied.
Load Box	
Maximum Admissible Power	100W RMS
Impedance	2 variants — 8Ω or 16Ω
Attenuation Levels	-38dB, -20dB, 0dB
Digital Audio	
AD/DA Converters	Sampling frequency: 96 kHz Resolution: 24 bits
Bandwidth (-1dB)	30 Hz - 19 kHz
Signal to Noise Ratio	95dB
Internal Processing	32-bit floating-point
Minimum Latency	1.27ms (Speaker Input to Left/Right Outputs)
Dimensions & Weight	
Width x Depth x Height*	12.8cm x 17.5cm x 6.4cm – 5″ x 6.7″ x 2.5″ * Including connectors and knobs
Weight	1300g / 2.9 lbs
Power	
Power Input Connector	DC connector, 2.1mm x 5.5mm, center negative
Supplied Adapter	100-240v AC to 12v DC 2A

Technical support

If any issues arise with your product, or if technical assistance is required, Two notes Audio Engineering provides comprehensive online support through the Two notes Help Desk.

Browse the Knowledgebasefor detailed articles and troubleshooting guides, or submit a support ticket if further assistance is needed with any Two notes product.

1. Two notes Website

The Two notes Audio Engineering website provides a wide range of resources and information, including:

- Latest news and product updates on the homepage
- Comprehensive information about the Torpedo Captor X + and its applications (see the FAQ section)
- Firmware and software downloads for the Captor X + (under Products → Torpedo Captor X + → Downloads)
- Access to the Two notes Store to purchase additional virtual cabinets
- An official user forum where Torpedo owners can exchange tips, advice, and experiences

Visit www.two-notes.com for all available resources.

Social Media

Stay connected with Two notes Audio Engineering on Facebook, Instagram (@twonotesaudio) and X (@twonotesaudio) for the latest updates, product news and new cabinets releases.

We love seeing how artists use our gear — share photos of your Two notes–powered rigs using the #mytwonotes hashtag for a chance to be featured on our channels.

Join our vibrant Two notes Community Group on Facebook where users and team members share ideas, tips, and inspiration (and occasionally a bit of gear obsession!).

To receive early news about new products, firmware updates, and special releases, be sure to subscribe to our newsletter.

2. E-mail

We do not offer technical support via e-mail. Please contact us via the Help Desk for any technical support related enquiries.