

ORRA AUDIO - PRODUCT MANUAL

Version 1.1.0

ORRA PRESS

MULTI-MODULE SERIAL COMPRESSOR

Six dynamics engines. Six reorderable slots.

One waveform at a time.

Orra Audio LLC - 2026

Welcome

Orra Press is a serial compressor plugin built around a single idea: that every stage of a dynamics chain deserves its own character. Rather than forcing you to insert separate plugins to shape dynamics, Orra Press gives you six reorderable slots, each of which can host one of six dynamics engines:

- Classic - VCA-style feedforward compressor
- Optical - opto-style dual-release with program-dependent behaviour
- FET - aggressive FET grab with saturation and an all-buttons-in mode
- Multiband - linear-phase FIR 4-band split with per-band compression
- Spectral - FFT-domain per-bin dynamic reduction for resonance taming
- Limiter - mastering-grade brick-wall with ISP-aware true-peak detection and LUFS metering

Every slot can hold any of the six types - duplicates allowed. Chain a Classic into a Spectral into a Limiter if the song wants it. Compare four arrangements with the built-in A / B / C / D snapshots, save whole chains as user presets, and give every module its own recallable preset.

Orra Press is a first-class citizen of the Orra Link 2 ecosystem. Its companion sender plugin, Orra Link, streams audio from any track in your project into a cross-DAW sidechain channel, and each card in Orra Press can pick its own sidechain source - internal off, the host's external SC bus, a numbered Link channel, or a live Link track picked by name. See the Sidechaining chapter for details.

New in this release: sidechain sources selected by track name with the LISTEN auditioning button and a source level meter; a zero-latency LIVE mode for tracking; a per-module preset system; a rebuilt factory bank of multi-module chains; a Multiband masking overlay; and a rewritten Multiband crossover that is roughly 18x faster.

This manual is organised front-to-back: start with the Interface Tour to orient yourself, then skim the module chapters for the engines you plan to use. The later sections cover sidechaining, LIVE mode, module and factory presets, the oscilloscope, the LUFS meter, the A / B / C / D comparison system, a workflow tips section, and a latency appendix.

System Requirements

Formats	VST3, Audio Unit (AU), AAX
Platform	macOS 10.13 or later (Universal 2: Apple Silicon + Intel). Windows 10 or later (64-bit).
Latency	In normal mixing mode, each enabled Classic / Optical / FET adds about 33 samples of constant oversampling padding, and one host block is reserved for Orra Link time-alignment. Multiband adds 511 samples (linear-phase FIR); Spectral adds 2048 samples (FFT overlap-add); the Limiter adds its lookahead time. Engage LIVE mode to drop the added latency on Classic / Optical / FET to zero for tracking. All latency is reported to the host for delay-compensated routing - see the LIVE Mode chapter and the Latency appendix.

Interface Tour

The window is organised top-down into four horizontal regions:

1. Header

Spans the top of the window. Contains the plugin title; the global BYP (bypass) button; the LIVE toggle (zero-latency tracking mode); four A / B / C / D comparison snapshots with the RESET button; the factory-and-user preset menu; the SAVE button; the preset LIBRARY button; the UI scale selector (100-200%); and the ? tips toggle on the far right.

2. Chain Strip

Six cards laid out left-to-right - one per slot. Each card shows the slot's current module type (a dropdown), an enable checkbox, a pair of < / > arrow buttons that move the slot earlier or later in the signal chain, a PRESET control for saving and recalling that module's own presets, and a live read-out of gain reduction plus stereo correlation. A coloured left stripe indicates the type-accent colour of whatever engine is loaded. Click anywhere on a card's body to select it - the controls panel below updates to show that slot's parameters.

3. Controls Panel + Analyzer

The wide middle region splits into two: the left side holds the selected slot's parameter knobs (grouped into rows), the right side holds the analyzer for that slot. Above the knobs sits the SIDECHAIN source picker (Off / External / numbered Link channels / live Link tracks by name), a LISTEN button with a source level meter beside it, and a small live GR read-out in dB. The analyzer has its own tab strip at the top - tabs vary by module type:

Type	Tabs	Notes
Classic	Scope	Envelope waveform. Meters = transfer-curve plot + GR + I/O.
Optical	Scope	VU = analog needle GR meter + I/O strips.
FET	Scope	VU = analog needle GR meter + I/O strips.
Multiband	Spectrum	4-band overlay with draggable handles. GR = per-band spectrogram.
Spectral	Spectrum	Per-bin curves with focus handles. GR = per-bin spectrogram.
Limiter	Scope	LUFS = loudness history + integrated readouts.

4. Footer

A pair of knobs for global INPUT and OUTPUT gain (-24 to +24 dB), sitting in the bottom-left and bottom-right corners. The bottom strip also holds the tips panel (visible when the ? button is on) which displays contextual help for whatever knob, button, or control your mouse is hovering. Hover any control to read what it does and how to use it.

The Modules

Each slot has two layers of parameters: the type (Empty / Classic / Optical / FET / Multiband / Spectral / Limiter), and a per-type parameter set that is independent across types. Switching a slot from Classic to FET does not overwrite your Classic settings - the old values are remembered and return when you flip back. This lets you audition different engines on the same slot without losing your dial-ins.

Most slot types also expose an OS (oversampling) pill row - Off / 2x / 4x / 8x - that runs the detector and gain stage at higher rates for less aliasing on hot transients. The Limiter's equivalent is the QUALITY row (STD / HIGH / ULTRA = 4x / 8x / 16x). While LIVE mode is engaged the OS pills on Classic / Optical / FET dim, and your choices are restored the moment you leave LIVE.

CLASSIC

VCA-STYLE - NEAR-ZERO LATENCY - SEVEN CONTROLS

The workhorse. A feedforward VCA with stereo-linked peak detection, soft-knee static curve, and standard attack / release envelope following. Use Classic for glue on busses, general-purpose track compression, or as the second stage of a fast-then-slow chain. Its behaviour is predictable and transparent - dial it in and it stays there. In normal mode it carries only a small constant oversampling pad; engage LIVE for a truly zero-latency tracking chain.

Control	Range	Purpose
Threshold	-60 to 0 dB	Level above which compression engages.
Ratio	1:1 to 20:1	Amount of reduction applied above threshold.
Attack	0.1 to 200 ms	Time for the envelope to engage on a new peak.
Release	5 to 2000 ms	Time for the envelope to recover after a peak.
Knee	0 to 24 dB	Soft-knee width (quadratic) around the threshold.
Makeup	-12 to +24 dB	Post-compression gain to recover perceived level.
Mix	0 to 100 %	Wet / dry blend for parallel compression.

Use it for:

- Bus glue on a drum bus - gentle 2:1 with slow attack and medium release
- Vocal smoothing - 4:1 with a soft knee for transparent leveling
- Stage two of a chain - tight ratio with 6-12 dB knee for invisible glue after a faster engine

OPTICAL

OPTO-STYLE - PROGRAM-DEPENDENT - FOUR CONTROLS

An opto emulation that trades precision for feel. Its release is a dual-stage envelope - a fast ~120 ms stage layered over a slow ~1.5 s memory envelope that extends release whenever the compressor has been busy. Material with sustained activity releases slowly; isolated peaks recover quickly. The static curve is soft at small over-threshold amounts and climbs toward the user's ratio only as you push harder.

The Optical UI drops the conventional Threshold / Ratio / Attack / Release knobs in favour of the opto's own vocabulary: PEAK RED sets how hard the comp is working, MODE picks between Compress and Limit. Internal timing is fixed because program-dependency is the Optical's character.

Control	Range	Purpose
Peak Red	0 to 100	Drives the compression amount; higher = more reduction.
Mode	Compress / Limit	Compress = ~3:1 gentle. Limit = ~20:1 hard.
Gain	-12 to +24 dB	Output makeup (same role as MAKEUP on other types).
Mix	0 to 100 %	Wet / dry blend.

Use it for:

- Vocal leveling - the slow release smooths dynamics without pumping
- Bass guitar - the soft initial ratio leaves transients alone
- Two-bus glue with Limit mode engaged for a gentle ceiling

FET

AGGRESSIVE GRAB - ALL-BUTTONS-IN MODE

A fast-attack FET-style compressor with input-driven engagement. Drive the INPUT knob to engage more compression; the hotter input also feeds a tanh saturation stage that scales with the amount of gain reduction, giving you the FET's characteristic harmonic glow when you push it. A separate THRESH knob sets the level the FET reacts to - its default of -18 dB reproduces the classic fixed-threshold behaviour, and you can lower it to engage the comp on full mixes without driving INPUT painfully hot.

Ratio is selected by a five-pill button row - 4 / 8 / 12 / 20 and the ALL all-buttons-in mode. ALL takes the ratio past 20:1, multiplies the saturation drive, and runs the release at half-time - the chaotic British-mode feel, built in. A fresh FET slot opens at 0 dB of drive so loading one never produces a jarring level jump; the hot-input character is one knob-turn away.

Control	Range	Purpose
Threshold	-60 to 0 dB	Level the FET reacts to. Default -18 dB is the classic fixed point.
Input	0 to 40 dB	Pre-compressor drive. More INPUT = more engagement and saturation.
Ratio	4 / 8 / 12 / 20 / ALL	Button-row ratio selector. ALL is the British mode.
Attack	0.1 to 200 ms	Sub-millisecond attack is where the FET character lives.
Release	5 to 2000 ms	ALL mode runs this at half-time internally.
Output	-12 to +24 dB	Post-compression makeup gain.
Mix	0 to 100 %	Wet / dry blend.

Use it for:

- Drum room in parallel with ALL engaged - instant aggression at low Mix %
- Vocals with 8:1 and fast attack for peak control
- Snare top for transient grab - attack at 0.1 ms, release at ~40 ms

MULTIBAND

4-BAND LINEAR-PHASE FIR - 511-SAMPLE LATENCY

A four-band compressor built around a linear-phase FIR crossover network. All four bands share the same group delay, so compressing one band hard does not leak energy into its neighbours - cross-band bleed is eliminated beyond a quarter-octave from each crossover. The price is 511 samples (~10.6 ms at 48 kHz) of reported latency, which the host compensates for via PDC.

The analyzer's Spectrum tab replaces the oscilloscope with a real-time frequency display. Three draggable gold crossover handles sit at the top of the spectrum - grab them to move the crossover frequencies. A draggable red dashed threshold line appears over each band, giving you a visual way to set the engagement point directly against the music's spectrum. The GR tab shows a scrolling spectrogram of compression depth per band over time.

Switch between bands using the four BAND 1 / 2 / 3 / 4 tab buttons above the knob area - each band has its own independent threshold, ratio, attack, release, gain, mix, and enable settings. Clicking a band's region directly in the spectrum view also focuses that band.

Control	Range	Purpose
Crossovers	40 - 15000 Hz	Three draggable handles, interlocked so $xo1 < xo2 < xo3$.
Band Enable	On / Off	Per-band bypass switch.
Threshold	-60 to 0 dB	Per-band. Draggable from the spectrum view.
Ratio	1:1 to 20:1	Per-band.
Attack	0.1 to 200 ms	Per-band.
Release	5 to 2000 ms	Per-band.
Gain	-12 to +24 dB	Per-band makeup.
Mix	0 to 100 %	Per-band wet / dry blend.

Use it for:

- De-essing with only the top band active and a tight threshold
- Full-mix mastering glue with all four bands at gentle 2:1
- Kick / bass separation - tightening the sub-band without squashing the mids

Masking overlay

With a Multiband slot keyed off an Orra Link 2 source and the Spectrum analyzer open, the source's spectrum is overlaid on the display in the source's track colour. Emphasis bands mark where the source's energy crowds within 6 dB of your signal - so you can see exactly where, say, the kick is eating the bass. The overlay uses Link 2's pull-based telemetry: senders only pay the analysis cost while the analyzer is actually visible.

Performance

The linear-phase crossover was rewritten in 1.1.0 as a vectorized block convolution (Accelerate / vDSP), roughly 18x faster than before. It drops from a heavy share of a CPU core to well under one percent, putting Multiband in the same CPU neighbourhood as every other module. The filter response is mathematically identical, and renders null against previous versions to floating-point precision.

SPECTRAL

FFT-DOMAIN PER-BIN - 2048-SAMPLE LATENCY

A frequency-domain compressor that applies per-bin gain reduction based on a 2048-point FFT with 75 % overlap (Hann window, overlap-add). Each of the ~1000 independent frequency bins gets its own envelope and its own dynamic reduction. Stereo detection is linked (per-bin maximum across channels), so stereo image is preserved.

The Resonance control is the engine's defining parameter. At 0 % it behaves like a broadband spectral compressor - every bin above threshold ducks. At 100 % it compares each bin to a smoothed local neighbourhood and only ducks bins that stick up from their surroundings - so narrow resonances (ringing, harshness, feedback tones) get targeted while broadband content passes through untouched.

Two draggable focus handles on the left and right edges of the spectrum view let you limit compression to a frequency range. Bins outside the focus range pass through untouched; the UI dims those out-of-focus zones.

Control	Range	Purpose
Threshold	-60 to 0 dB	Per-bin engagement level.
Ratio	1:1 to 20:1	Per-bin reduction ratio.
Attack	0.1 to 200 ms	Per-bin envelope attack.
Release	5 to 2000 ms	Per-bin envelope release.
Knee	0 to 24 dB	Soft-knee width around threshold.
Makeup	-12 to +24 dB	Output makeup gain.
Mix	0 to 100 %	Wet / dry blend (latency-matched).
Resonance	0 to 100 %	Blends absolute-over (0) with neighbour-excess (100).
Smooth	1 to 32 bins	Half-width of the neighbourhood-averaging window.
Focus	20 Hz - 20 kHz	Frequency range that gets compressed; outside passes through.

Use it for:

- Taming a ringy snare resonance - high Resonance, narrow Smooth
- De-harshing harsh vocal consonants in the 2-6 kHz range
- Killing room modes on recorded material without EQ'ing them away

LIMITER

MASTERING-GRADE BRICK-WALL - TRUE-PEAK / LUFS / ISP

A high-fidelity brick-wall limiter built for the end of the chain. Combines a soft-clip pre-stage, a lookahead envelope follower, parallel fast and slow release, intersample-peak (ISP) prediction, and oversampled true-peak detection per the ITU-R BS.1770 standard. The QUALITY pill row picks an oversampling tier - Standard (4x), High (8x), or Ultra (16x) - with the higher tiers trading CPU for tighter ISP control on aggressive masters.

The STYLE button row chooses the soft-clip curve and the fast-release ballistics: Clean (gentle tanh, transparent), Warm (medium tanh with audible second / third harmonic content), or Smash (cubic soft-knee approaching a hard clip for maximum loudness). Gain reduction is downwards by design; the styles' program-dependent saturation is Orra's take on upwards compression.

Control	Range	Purpose
Input	0 to 24 dB	Pre-limiter drive. Push for loudness; the soft-clip stage shapes overdrive before the brick-wall stage.
Ceiling	-6 to 0 dB	Maximum allowed output level (true-peak aware). -0.3 dB is a safe streaming target.
Lookahead	0 to 8 ms	How far ahead the limiter peeks to anticipate transients. 5-8 ms for transparent mastering.
Release	1 to 1000 ms	Auto-blends with a fast parallel release internally to avoid pumping. 30-100 ms covers most material.
Style	Clean / Warm / Smash	Soft-clip curve + fast-release time.
Quality	STD / HIGH / ULTRA	4x / 8x / 16x oversampling for the clipper and ISP detector.
Output	-12 to +6 dB	Post-ceiling trim for fine A / B level matching.
Mix	0 to 100 %	Parallel blend. Lower mix retains more dynamics.

Use it for:

- Final brick-wall on a master - Ultra quality, -0.3 dB ceiling, 5 ms lookahead
- Loudness boost on a stem - Smash style, drive INPUT until the LUFS hits target
- Transparent peak control - Clean style, gentle Input, watch the GR meter stay below 3 dB

The Limiter's LUFS tab provides full loudness analysis: momentary, short-term, and integrated LUFS readouts; loudness range (LRA); true-peak max. The scrolling 60-second history overlays a horizontal target reference line picked from the dropdown (Off / EBU R128 -23 / Apple Music -16 / Spotify & YouTube -14 / Amazon Music -13 / Loud -9 / Club -8). The RESET button clears the integrated readouts so you can re-measure a fresh take.

Sidechaining

Each slot in Orra Press has its own SIDECHAIN source picker, sitting just above the knob area. It offers four kinds of source.

Off and External

Off - the default. The compressor keys off its own input. Standard compression behaviour.

External - the host's dedicated stereo sidechain bus. Whatever your DAW routes to the plugin's SC input drives detection. Standard ducking-compressor setup - route a kick drum to the sidechain to make a bass duck under every hit, for example.

Orra Link sources by name

With Orra Link running on your tracks, the picker lists live Link sources by their actual track names, each shown in its track colour - including senders in Orra Link 2's drop-and-forget Auto mode, which never appeared in Press before. Your selection is stored by name, so it survives session reloads even though Auto-mode senders do not keep stable channel numbers.

If a named source later disappears, the picker shows it flagged as "! Name" in a dimmed state, and the compressor falls back gracefully to self-detection instead of keying off a stale channel. A "Link channels" submenu still lets you pick a numbered channel directly, and now lists only the channels that are actually live rather than all 36. Original Orra Link 1 senders are fully supported here.

LISTEN

Hold the LISTEN button next to the picker to audition exactly what is keying the compressor. While held, the plugin's monitored output is replaced by the key signal so you hear precisely what the compressor is reacting to; release to return to the processed sound. The meters and the scope keep showing the real processed chain the whole time - only what you hear swaps. LISTEN is disabled when the source is Off.

Source level meter

A small level bar beside LISTEN shows the selected source's live level at a glance - "is the kick actually reaching this card?" is now answerable without pressing anything.

Per-type behaviour

All five compressor types respect the sidechain; the Limiter ignores it by design (brick-wall limiters do not sidechain), so its SC picker is hidden. Multiband splits the sidechain through its own FIR crossover bank so each band's detector keys off the matching SC band. Spectral runs a parallel FFT on the sidechain so per-bin detection keys off the SC spectrum - meaning you can carve spectral space in the main signal wherever the sidechain has energy.

The Orra Link companion plugin

Orra Link is a small sender-only plugin that ships alongside Orra Press. Its job is to broadcast a track's audio onto a shared bus that every Orra Press instance in the project can read from. Drop it on any track or bus, choose a channel (or let Auto mode assign one), and that source becomes available to any Orra Press card in the project - in any DAW, even hosts whose routing will not let you sidechain across busses normally.

Orra Link's controls are a CHANNEL picker, a SEND toggle (mute the broadcast at the source without changing channel assignment), and an OUTPUT gain knob for gain-staging the sidechain feed without touching the source track's fader. A status pip in the header shows whether the channel is broadcasting ("Live") or muted at the source.

Latency: Orra Link introduces one audio block of latency between sender and receiver, which Press reserves for and reports to the host. Sample-accurate alignment is maintained even under host anticipation (Reaper Anticipative FX, Cubase ASIO Guard, Studio One Dropout Protection) because the bus stamps each write with the host's master time and receivers compute their read position from the difference.

Sandboxed hosts: a few DAWs run AU plugins in sandboxes that can block the shared-memory connection. If Orra Link cannot open the bus, its status pip reads "Bus unavailable" instead of "Live". The plugin still passes audio through transparently - only the broadcast is disabled. In that case, fall back to the host's External SC bus.

Sidechain visualisation

When sidechain is active on a slot, the analyzer shows it:

- Scope (Classic / Optical / FET / Limiter) - a thin red SC strip appears above the GR strip showing the sidechain envelope over time. Filled red from the top, taller = louder SC.
- Spectral view - the red top-down per-bin GR bars are replaced by the sidechain's FFT, showing exactly which frequencies in the sidechain are carving the main signal.
- Multiband spectrum - per-band tinting reflects the sidechain's current band-specific GR drive.

LIVE Mode

The LIVE toggle sits next to BYP in the header. Engage it when you are tracking or monitoring through Press and cannot tolerate added latency: it removes the plugin's own added latency for real-time use.

With LIVE on, Classic, Optical and FET run at their base rate and report zero latency - their oversampling pills dim, and the OS choices are remembered and restored the instant you leave LIVE. The Orra Link time-alignment buffer is bypassed, so Press's own added latency drops to 0 samples on those modules.

Spectral and the Limiter keep their inherent latency - the FFT overlap-add window and the limiter's lookahead cannot be removed without changing what the module does - and they continue to report it honestly. If you need a truly zero-latency tracking chain, stick to Classic / Optical / FET while LIVE is engaged.

Latency changes exactly once per deliberate toggle. Flipping LIVE is a config action, like adding a module, so the host sees a single latency update and re-plans delay compensation once - no PDC churn.

When to use it

- Tracking vocals or guitars through Press while monitoring in real time
- Live performance or rehearsal where round-trip latency must stay minimal
- Any situation where the delay-compensation offset would be distracting

For mixing, leave LIVE off. You get full oversampling quality back and your OS choices return exactly as you left them.

LIVE mode and Orra Link

While LIVE is engaged, Link sidechain timing becomes best-effort: the one-block alignment that keeps cross-track keys sample-accurate is part of what LIVE removes. Keyed compression still works, but exact alignment is no longer guaranteed. Turn LIVE off for mixdown when precise Link sidechain timing matters.

The honest numbers

In normal mode Press adds one host block (the Link time-alignment reserve, always present whether or not you use Link) plus about 33 samples of constant oversampling padding for each enabled Classic / Optical / FET module. The constant padding keeps the reported latency stable when you change a module's OS factor, so the host never re-plans PDC mid-stream. As an example, two Classic modules at a 512-sample host block report $512 + 65 = 577$ samples in normal mode, and 0 in LIVE mode. Multiband (511 samples), Spectral (2048 samples) and the Limiter (lookahead) are unaffected by LIVE and keep reporting their real latency.

Module Presets

Every module has its own preset system, independent of the whole-plugin presets in the header. Each slot's panel carries a PRESET control that shows the loaded preset name, or reads "PRESETS" when the slot is running unsaved settings.

Click the PRESET control to open a compact browser scoped to the slot's current module type - a Classic slot only ever shows Classic presets. The browser has a FACTORY section and a USER section. A single click loads a preset; the loaded preset is highlighted and its name appears right on the panel face, so you can always see what a slot is running - no more guessing.

Managing presets

- Save As... - store the slot's current settings as a new user preset. The preset folder is created automatically on first save.
- Rename - rename a user preset. Any slot currently running it updates to the new name.
- Delete - remove a user preset. A slot that had it loaded drops back to showing "PRESETS".
- Set Default / Clear Default - mark any preset (factory or user) as the default for its module type. Insert a fresh module of that type and it lands on your chosen starting point instead of the DSP defaults. The current default carries a DEFAULT tag in the browser.
- Show in Finder - reveal the preset folder in the system file browser.

User module presets live at ~/Library/Application Support/Orra Audio/Press/Presets/Module Presets/, one subfolder per module type.

Factory module presets

Thirty factory module presets ship built into the plugin - five per module type - so there is nothing to install and nothing to lose. They double as reference starting points for what each engine does well.

CLASSIC

Bass Control	Firm 4:1 to lock low-end level.
Broadcast Firm	6:1 leveling for a consistent, present spoken tone.
Drum Bus Glue	Slow 2:1 that hugs a kit together.
Parallel Crush	Hard 12:1 blended at 40% for density under the dry.
Vocal Leveler	Soft-knee 2.5:1 for transparent vocal control.

OPTICAL

LA Gentle Leveler	Light program-dependent ride for a natural feel.
Parallel Opto Thickener	Heavy opto blended at 45% wet for thickness.
Peak Tamer Limit	Limit mode for snappier peak control.
Smooth Vocal Rider	Moderate reduction for a steady vocal level.

Warm Program Glue	Gentle opto glue for busses and program material.
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FET

All Buttons In	The chaotic all-buttons-in British grab.
Bass Grit	8:1 drive for harmonic bass attitude.
Room Crush Parallel	Smashed room-mic tone blended at 40%.
Snare Crack	4:1 grab that keeps the transient intact.
Vocal Attitude	Fast 8:1 for front-of-mix presence.

MULTIBAND

Bass Tighten	Fast low-band 4:1 with the upper bands open.
Broadcast Leveler	Moderate 3:1 across all bands for a consistent tone.
De-Harsh	Upper-band control for harsh or brittle material.
De-Mud	Low-mid reduction to clear congestion.
Mastering Tame	Gentle sub-2:1 per band for mix-bus polish.

SPECTRAL

De-Harsh Smooth	Upper-mid resonance smoothing, blended clean.
Digital Tamer	High-resonance top-end control for digital harshness.
Full Range Smoothing	Broadband frequency-domain leveling.
Resonance Tamer	Surgical narrow-resonance removal.
Vocal Polish	Mid-band polish blended to taste.

LIMITER

Drum Bus Catcher	Fast catch for a drum bus.
Gentle Safety	Transparent safety ceiling, no colour.
Loud And Proud	Smash-style loudness push.
Mastering Ceiling	Clean Ultra-quality brick-wall for masters.
Warm Glue Limit	Warm harmonic cap for glued busses.

Factory Presets

The factory preset bank in the header is built around what Press actually is - a serial dynamics chain. Rather than one module doing all the work, each of these presets stages two to four modules, with each stage taking only about 1 to 4 dB of gain reduction. No single stage is audible on its own, but the chain lands a glued, transparent result. Fast and aggressive detectors sit early, slow and gentle ones late, and a Limiter finishes when loudness is the goal - the chain does the work, not any one squash.

Default loads Slot 1 as a Classic with everything else empty - the feel of a freshly inserted plugin. The remaining entries are the fourteen staged chains below. The single-module starting points from earlier versions now live in the Module Presets browser, where they belong.

Preset	Chain	Intent
Vocal - Radio Ready	FET > Opto > Spectral > Limiter	FET de-peaks, Opto rides level, Spectral de-harshes, a clean Limiter catches strays.
Vocal - Silk Ride	Opto > Spectral > Limiter	Opto leads the level, a gentle spectral polish, a low clean ceiling ride.
Vocal - Aggressive Lead	FET > Classic > Limiter	FET in ALL for attitude and colour, Classic glue, a warm cap.
Drums - Punch and Glue	Classic > FET > Limiter	Slow Classic glue keeps the punch, a parallel FET crush adds density, clean safety.
Drums - Tight Room	FET > Multiband > Limiter	Parallel room crush, low-band tighten, a clean cap.
Bass - Even and Gritty	FET > Opto	FET drive for grit, Opto for a slow evenness ride.
Bass - Low End Control	Multiband > Classic	Multiband locks the sub and low-mid, Classic glues the whole instrument.
Mix Bus - Gentle Glue	Classic > Limiter	Soft wide-knee 1.5:1 glue with a safety ceiling.
Mix Bus - Radio Loud	Classic > Multiband > Limiter	Glue, a broadcast 3:1 balance, warm loudness.
Master - Transparent	Multiband > Classic > Limiter	Sub-2:1 multiband tame, 1.3:1 glue, a clean Ultra brick-wall.
Master - Warm Glue	Classic > Limiter	Warm-leaning glue into a warm harmonic cap.
Master - Modern Loud	Multiband > Spectral > Limiter	Firm 3:1 balance, a digital top-end tamer, Smash loudness.
Serial - Three Stage Leveler	Opto > Classic > FET	Three detectors each shave ~2 dB - the staged-GR philosophy shown off.
Podcast - Broadcast Voice	Multiband > Opto > Limiter	A speech leveler, a close-mic ride, a safe podcast ceiling.

The Oscilloscope

The Scope tab on Classic / Optical / FET / Limiter slots is an envelope-following audio display. Rather than a raw min-max waveform that flickers on busy material, Orra Press uses a smoothed peak envelope (~0.5 ms attack, ~30 ms release) so curves follow musical dynamics rather than sample-level noise. The result reads at a glance even on dense broadband material.

The plot stacks three regions vertically:

- SC strip (visible only when sidechain is active) - a thin red filled envelope of the sidechain signal, hanging from the top of the strip.
- GR strip - a Pro-style red bite that hangs from the top, calibrated to gain-reduction dB. Drag the gold divider below to resize it; double-click the divider to reset.
- Main waveform area - bipolar smooth envelopes. The cool pale outline is the input (the before silhouette); the gold filled envelope is the output (the after); the translucent red fill in the gap between them is your gain reduction made visible. Watching the bite react to transients is the easiest way to dial attack and release by eye.

Zoom controls

- Vertical zoom (1x - 16x): drag the gold pill in the left gutter, or use the scroll wheel anywhere on the scope. Useful when GR is small and the bite would otherwise be invisible. Double-click the left gutter to reset.
- Horizontal zoom (1x - 16x): drag the pill in the bottom gutter to set the visible time window. 1x shows ~8 seconds; 16x narrows to ~500 ms so individual transients resolve clearly. Double-click the bottom gutter to reset.
- Threshold line - the dashed red horizontal line(s) mirror above and below the centerline at your threshold value. Peaks clearly cross it when compression engages.

Both zoom settings persist when you click through slots so your view stays as you left it. The whole scope freezes when the host transport stops, so you can inspect the last captured frame in detail.

A / B / C / D Comparison

The A / B / C / D buttons in the header hold four independent full-plugin snapshots. Each snapshot captures every slot's type and parameters, the chain order, and sidechain routing - the entire plugin state.

Each bank auto-remembers its own state. Click a bank to switch to it, then edit freely - your changes follow that bank automatically. Switching to another bank saves the outgoing one first, so there is nothing to store by hand.

- Click A and dial in a setting.
- Click B to branch. Edit; B now tracks your changes.
- Click A, then B, to compare - recall is instant.
- RESET wipes the active bank back to defaults; the other banks are untouched.
- Opt / Alt-click a bank to copy the current state into it, overwriting that bank.

Snapshots persist with the project and with saved presets, so you can ship a preset that includes four variants of the same starting point. Each bank also remembers its own selected preset name.

Whole-plugin presets

The preset menu in the header lists factory presets and any user presets you have saved. The SAVE button stores the current chain as a user preset with a name of your choice. The LIBRARY button opens a full browser where you can load, rename, or delete saved presets, and reveal the preset folder in Finder. User presets live at:

~/Library/Application Support/Orra Audio/Press/Presets/

Tips & Workflow

Working the knobs

Every rotary knob shares the same gestures: drag to set; Cmd / Ctrl + scroll wheel for a fine 0.1x step; double-click to type a value directly; and Opt / Alt-click to reset to the default. The Limiter's ceiling field auto-negates a typed positive value, so typing 4 sets -4 dB.

Ordering matters

Orra Press is a serial compressor. Fast / aggressive engines before slow / gentle ones generally sounds cleaner - FET first, then Opto or Classic to smooth out what is left. Reversed (slow first, fast last) is valid too and often produces more colour. Use the < / > buttons on each slot card to reorder without losing parameters. End the chain with the Limiter when you are ready to bring loudness up.

Multiple of the same type

Nothing stops you from loading two Classics, two FETs, or three Opticals. Multi-stage compression - small amounts of GR at each stage - routinely sounds better than one big squash. Try a Classic at 2:1 with 2 dB of GR into a second Classic at 2:1 with another 2 dB. Total 4 dB but the signal barely feels touched. This is exactly the philosophy behind the factory chain presets.

Tracking with LIVE mode

If you are recording or monitoring through Press and cannot tolerate delay, engage LIVE. Classic / Optical / FET report zero latency and the Link alignment buffer is bypassed; Spectral and the Limiter still carry their inherent latency. Turn LIVE off for mixdown to get full oversampling quality back.

Latency

In normal mode, Classic / Optical / FET each carry about 33 samples of constant oversampling padding, and one host block is reserved for Orra Link time-alignment. Multiband adds 511 samples; Spectral adds 2048 samples; the Limiter adds its lookahead (3 ms by default = 144 samples at 48 kHz, more at higher quality tiers). All latency is reported to the host so your mix stays in time (PDC). Toggling any slot's bypass - via the BYP header button or the host's external bypass - is delay-matched, so there is no click or phase jump. See the Latency appendix for the full picture.

Mix knob for parallel compression

Every engine has a Mix knob. Setting it to 30-50 % with an aggressive compressor setting gives you parallel compression within a single instance - the classic New York drum trick without needing an auxiliary bus.

The oscilloscope is your friend

When a Classic / Optical / FET / Limiter slot is selected, the scope shows input (cool pale outline) vs output (gold filled) envelopes with the threshold line in red and the gain-reduction bite in red between them. If you cannot see a gap between the input outline and the output fill, the compressor is not doing much. Zoom the vertical axis up if you are on quiet material and want to see subtle GR.

Spectral is not a replacement for EQ

Spectral's Resonance control is powerful but it is a dynamic tool - it only acts when the targeted bins exceed the threshold. For static tonal shaping, use an EQ. For taming peaks that only happen sometimes, Spectral is the right tool.

Cross-DAW sidechaining with Orra Link

If you have struggled with sidechain routing in your DAW - especially trying to send from one bus to another in DAWs that do not support it natively - Orra Link bypasses the host entirely. Drop Orra Link on the source track, pick a channel (or let Auto mode assign one), then on Orra Press select that source by name as the card's sidechain. Works in every DAW we have tested.

See what is masking what

On a Multiband slot keyed off a Link 2 source, open the Spectrum analyzer to see the source overlaid in its track colour, with emphasis where it crowds within 6 dB of your signal. It is the fastest way to find where the kick is eating the bass before you reach for a single knob.

Use the ? tips toggle

The circular ? button at the far right of the header toggles a contextual help panel in the bottom of the window. With tips on, hover any control to read what it does and how to use it - useful while you are still learning the plugin.

Latency and Delay Compensation

Orra Press reports its total latency to the host so every route stays in time under plugin delay compensation (PDC). The current numbers, per enabled module:

- Classic / Optical / FET - about 33 samples of constant oversampling padding each, plus a shared one-host-block reserve for Orra Link time-alignment. The padding stays constant across OS factors so the host never re-plans PDC when you change oversampling. LIVE mode removes both.
- Multiband - 511 samples (linear-phase FIR crossover, ~10.6 ms at 48 kHz).
- Spectral - 2048 samples (2048-point FFT, 75 % overlap-add).
- Limiter - its lookahead time (3 ms = 144 samples at 48 kHz by default; more at higher Quality tiers).

Bypassing a slot - via the BYP header button or the host's external bypass - is delay-matched, so there is no click or phase jump. Engaging LIVE mode reports its single latency change once, like adding or removing a module.

Offline render, bounce, commit and freeze

When you render offline, Press validates each Link sender's time-stamp. If the sender is not rendering alongside the receiver - the common case when you commit, freeze, or bounce a single track whose Press keys off a Link source on another, non-rendering track - Press cleanly falls back to self-detection rather than baking several seconds of stale-keyed compression into the file. Realtime behaviour is untouched.

For a keyed offline render, bounce the sender and receiver together so the sidechain stays live throughout. In hosts that provide no playhead position during offline render, the time-stamp cannot be validated and Press falls back to the last-written audio - a shared limitation with Orra EQ.

Orra Press is a product of Orra Audio LLC.

For support, updates, and documentation: orra.audio