

# DynaRide 2

## Advanced Gain Rider



MANUAL

**TBProAudio**

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# 1 Introduction

Welcome to DynaRide, an advanced gain rider plug-in with multiple detector programs and switchable pre-delay. On top of it DynaRide can enhance the output signal by limiting the riding process to specific audio signals like speech, vocal and bass.

## 2 Features

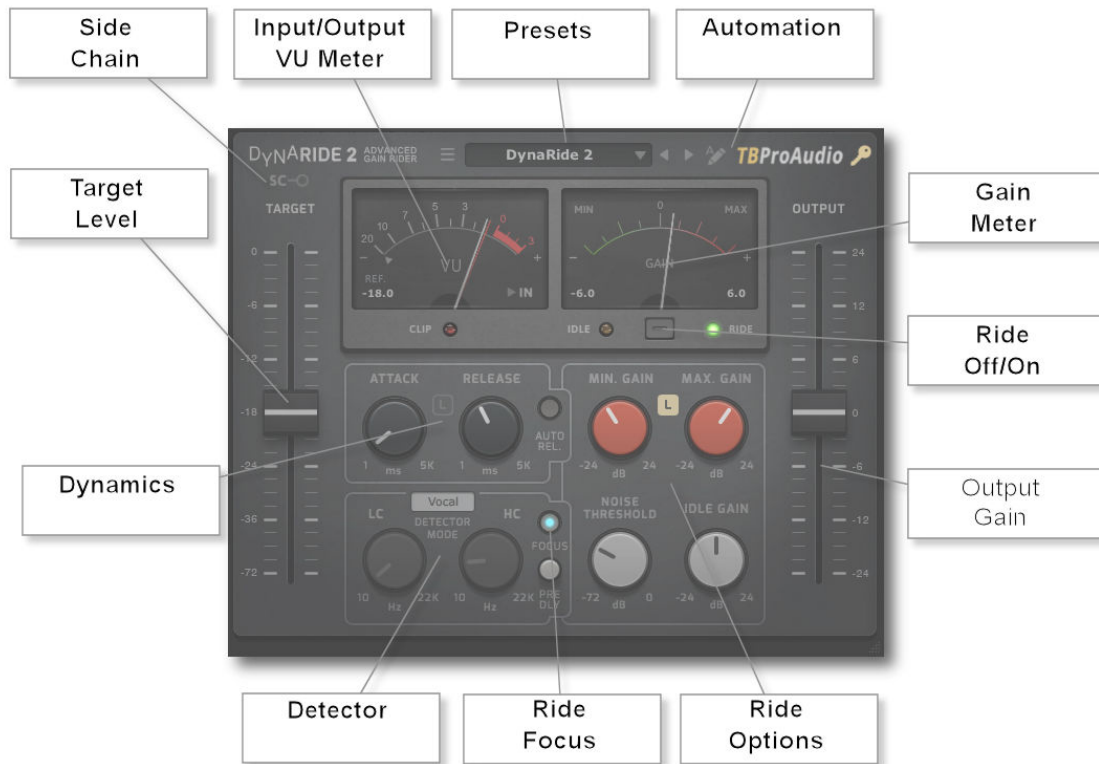
DynaRide offers following features:

- Adjustable attack and release
- Advanced signal detector including programs for vocal, speech and bass
- Vocal, speech and bass enhancer
- Switchable pre-delay
- VU meter for input/output signal and gain
- Read/write gain curve as automation envelope
- Support of side chain
- Preset management
- Large and easy to use GUI
- GUI scaling
- 64-bit internal processing

### 3 Overview

DynaRide keeps consistent vocal/dialog and bass levels automatically with a few clicks in the plug-in. This is a real time saver during the mixing process and lets your fingers off the console fader. All you need to do is to set the proper target level, the plug-in does the rest.

- DynaRide offers several detector modes designed for special tasks like dialog, vocal or bass riding.
- Additionally the riding process can be enhanced by limiting the riding process to specific audio signals like speech, vocal and bass. This avoids riding on unwanted signals like background noise.
- Works either in real time (zero latency) or with a fixed pre-delay
- The gain curve can be written to an automation envelope for further adjustments. Furthermore DynaRide can read automation data to control the gain ride.



#### VU Meter

VU meter shows input or output signal level.

#### Presets

Preset menu manages factory and user presets.

#### Automation

Off, Write and Read. Sends or receives automation data for gain control

#### Gain Meter

Visualize the gain riding process.

#### Ride Off/On

Bypasses riding process.

#### Output Gain

Controls output level.

#### Ride Options

Controls to set min/max gain, noise-threshold and idle-gain.

#### Ride Focus

Button to enable signal enhancement for background signal reduction.

#### Detector

Enables several specific signal detector programs.

#### Dynamics

Controls attack and release of signal detector.

#### Target Level

Sets the desired target level.

#### Side Chain

Enables processing of side chain signal as detector signal, either “fix” or “follow”.

## **4 Minimum System Requirements**

- Windows 7, OpenGL 2 GFX card
- Mac OS X 10.11, Metal GFX card
- SSE2 CPU
- Win: 32/64 Bit VST, 32/64 Bit VST3, 32/64 Bit AAX
- OS X: 64 Bit VST, 64 Bit VST3, 64 Bit AU, 64 Bit AAX
- Tested with: Cockos Reaper, Steinberg Cubase/Nuendo/Wavelab 6+, FL Studio 12+, PT2018+, Reason 9.5+, Studio One, Ableton Live
- For latest information please visit [www.tbproaudio.de](http://www.tbproaudio.de)

## 5 Plug-in Controls

### Mouse usage:

Click and drag horizontally changes parameter value  
Shift click and drag changes parameter value slower  
Ctrl click resets to default value  
Double click opens value edit box, finish with enter.

### **5.1 Presets**

Preset menu loads and saves user presets. Presets stored to %localappdata%/DynaRide for Windows or /Users/xxx/Library/Application Support/DynaRide for Mac OSX are imported as user presets. Prev and next button step through all presets.

### **5.2 Automation**

When set to off, DynaRide uses its internal engine to control gain changes. When set to Write, all gain changes are sent to the host as automation data (parameter Out:Gain). When set to Read, internal engine is bypassed and automation data is used to control the gain changes. Please refer to the manual of your DAW how enable writing of automation data. The gain data are within +/-24dB.

### **5.3 VU Meter**

The VU meter is calibrated to the target level. The value in the left bottom corner shows the target (aka reference) level of the VU meter. The small button in the right bottom corner toggles input and output signal. The clip LED indicates signal above 0dbFS. The small triangle below the scale (input mode only) shows the noise threshold.

### **5.4 Gain Meter**

The gain meter visualizes the gain riding process within the limits shown in the left/right bottom corner. The green LED indicates the gain riding process. If DynaRide is in idle mode that orange LED is active.

### **5.5 Side Chain**

Opens side chain menu: if “fix” or “follow” is selected, side chain is used

Please refer to your DAW manual how to connect side chain signal to DynaRide.

“fix”: compares side chain signal with target level and adjusts the volume of the main signal depending on loudness difference.

“follow”: compares the side chain signal with main signal and adjusts the volume of the main signal depending on loudness difference. As a result, the loudness of the main signal follows the loudness of the side chain signal.

### **5.6 Target level**

The fader sets the target level of the gain riding process (-72 to 0 dBFS).

### **5.7 Output Gain**

The fader sets the additional output gain (-24 to +24 dBFS).

## **5.8 Attack**

This knob sets the attack of the gain follower (1 to 5.000 ms). Shorter values catch more the transients of the signal.

## **5.9 Release**

This knob sets the release of the gain follower (1 to 5.000 ms). Shorter values increase the speed of the riding process.

## **5.10 Link Attack/Release**

The button “L” links attack and release time.

## **5.11 Auto Release**

Enables calculation of program dependent release times.

## **5.12 Min. Gain**

This control sets the lower boundary of the gain change (-24 to +24 dBFS), setting the maximum possible gain decrease.

## **5.13 Max. Gain**

This control sets the upper boundary of the gain change (-24 to +24 dBFS), setting the maximum possible gain increase.

## **5.14 Link Min/Max Gain**

The button “L” links min and max gain settings.

## **5.15 Noise Threshold**

This control determines the level (relative to target level) when the riding process should start (-72 to 0 dB). If target level is set to -18dBFS and noise threshold is -30 dB riding process starts with signal level above -48dBFS. Loudness level below is identified as idle (no gain riding).

## **5.16 Idle Gain**

This control sets the gain during idle time (-24 to +24 dBFS).

## **5.17 Detector Mode**

Off: no specific signal detection

LowCut: filters the detector signal

HighCut: filters the detector signal

LowCut-HighCut: filters the detector signal

Speech: program designed for speech or dialogs

Vocal: program designed for vocals

Bass: program specifically designed for bass guitars (acoustic or amplified), works with fixed release time, auto release is disabled

## **5.18 Low-Cut Filter**

This knob controls the frequency of the low-cut filter (10 to 22k Hz).

## 5.19 High-Cut Filter

This knob controls the frequency of the high-cut filter (10 to 22k Hz).

## 5.20 Focus

If enabled only the detector signal is processed. This could make dialogs or vocals much clearer and suppress background noise. Is not active if detector mode off is selected.

## 5.21 Pre-Delay

Enables fixed pre-delay (10ms/512 smp) to catch unwanted transients.

## 6 Demo mode versus Registered Mode

In demo mode (without activation) the plug-in mutes audio every 90 seconds for a short period. This could be circumvented by clicking on the "TBProAudio" logo within 90 seconds.

## 7 Plugin activation

The plugins needs to be registered/activated to remove demo restrictions. Please go to [www.tb-proaudio.de](http://www.tb-proaudio.de) to purchase the activation key. After purchase you will receive an email from TBProAudio with either the (zipped) activation key file or the activation key in text form. Go to the plugin menu->Activate plugin. Please follow the steps described here: <https://www.tbproaudio.de/support/productactivation>. After successful activation the key symbol shown in the GUI appears in golden colour.



## 8 Additional Notes

DynaRide can “duck” the main signal with the help of the side chain function (sc mode “fix”)

- Select desired preset
- In DynaRide set side chain mode to “fix” and enable side chain processing in the DAW (please refer to the DAW manual)
- Set both range min and max to desired gain reduction, e.g. - 12 dB
- Set noise threshold to the possible minimum (noise threshold determines when DynaRide is in ride or in idle state). So if the signal is above threshold DynaRide is in ride state and uses the fixed gain reduction from range min/max)

DynaRide can make the main signal “ride” on the side chain signal (sc mode “follow”):

- In DynaRide set the side chain mode to “follow” and enable side chain processing in the DAW (please refer to the DAW manual)
- Set both range min and max to desired gain reduction, e.g. +/- 12 dB
- If the sc signal is above the threshold, DynaRide adjusts the volume of the main signal to match the volume of the side chain signal.
- Additionally set the output gain to e.g. +3dB so that the main signal “sits” over the side chain signal

## 9 Conclusion

So finally if you have any questions or suggestions just let us know. And have fun with our tools.

Your team from TBProAudio :-)