

DEFENDER

STARGATE DRIVE

As captain of the Defender, your mission is to protect the galaxy using the awesome power of the Stargate Drive. Blast off from your deep space base and take control of the universe.

Why should you use a digital distortion pedal?

No idea. It sounds pretty horrible. You should probably go buy a Tube Screamer. Actually, you might want to use this pedal if you're tired of sounding like everybody else.

The sonic scientists at Alexander Pedals have been working overtime to cram the most pedal into the smallest box, and we now present the Neo Series!

**NEO
SERIES**

Each Neo Series pedal incorporates an advanced 32-bit microcontroller adding presets, expression, and MIDI capability.

GETTING TO KNOW YOUR NEO



CONTROLS

LEVEL - Adjusts the overall output level of the Defender. The pedal has quite a bit of volume on tap, enough to overdrive your amp even with Drive at minimum.

DRIVE - Controls the amount of drive, saturation, and distortion of the effect.

(WARP) - Adjusts the speed of the WARP control. With this control at minimum the Defender will warp between the red and blue settings instantly. With the control at maximum the pedal will take approximately 10 seconds to warp.

LIGHT - Controls the treble or brightness of the distortion effect or the cutoff frequency of the filter if FLT is selected.

(BLEND) - Mixes the clean signal (fully counter-clockwise) with the distorted signal (fully clockwise). This is a really crucial control for using the Defender with bass or low-tuned guitars, allowing you to dial in some clean signal to increase the articulation.

MATTER - Controls the bass or depth of the distorted tone or the resonance / feedback of the filter if FLT is selected.

(TWEAK) - Adjusts the special effect for each distortion mode. Varies for each effect, check out the descriptions below!

Select Button - Tap to choose a new effect mode or hold to engage the ALT controls: The upper LED shows the distortion effect selection.

OD - Overdrive with a clear midrange character. This mode ranges from transparent to gritty with a sweep of the Drive knob. Try this mode with the Blend control near noon for a great soft-clipping boost.

DST - Distortion with a darker, smoother tone. Gets hairy really quickly and loves to party.

FZ - Splattery, sizzly fuzz tone. Don't even bother trying to get this one to clean up, it sounds kind of like a toy robot being fed into a garbage disposal.

Once you've selected your distortion, you can choose from one of three special effects. Any distortion effect may be combined with any special effect. Please note that the special effects only work on the distorted sound, and not on the clean blend signal.

PIT - Polyphonic octave shifting, applied to the distortion signal only. The Tweak control adjusts the blend between octave down, distortion, and octave up. This effect is killer for sub-octave riffing or screaming fuzz freakouts.

SPC - Space modulation using a short time delay on the distortion signal. Tweak controls the delay time from zero to a short slap-back. Try using the Warp function to sweep the delay time for manual flanger sounds.

FLT - Super-tweakable resonant lowpass filter, ideal for synth or wah textures. Light controls the cutoff frequency and Matter controls the resonance or sharpness of the filter. Tweak mixes between the filtered sound and the unfiltered sound.

Want to get a distortion effect without the special effects? Just select the distortion sound you like (OD, DST, FZ) and select PIT as your special effect. Hold the Select button and turn the MASS / TWEAK knob to its midpoint. The pitch effect will be bypassed and you'll just have dirt.

CONFIGURING YOUR NEO PEDAL

Power on the pedal while holding the Select button to enter configuration mode. Release the button when the main LED turns violet.

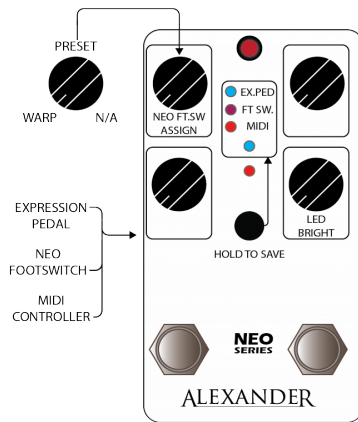
Tap the Select button to choose the MultiJack function. The upper program LED will change colors to indicate the function.

Blue = Expression Pedal, Violet = Foot Switch, Red = MIDI

Connect a MIDI controller to the EXP port and send a program change to set the Neo Pedal's MIDI channel.

Turn the lower right knob to set the main LED brightness.

Hold the Select button to save the configuration and exit.



BYPASS AND PRESETS

Tap the foot switch to toggle the pedal between bypass and active. The bypass signal is buffered and 100% analog. The dry signal path is routed through the DSP to maintain time and phase alignment with the effect signal.

Hold the bypass footswitch to move to the next preset. The Neo Series pedals have 16 presets, four of which are accessible on the pedal itself. The main LED will blink one, two, three, or four times to indicate the current preset.

Hold the Select button down, then hold the footswitch down to save. The pedal will save the current settings to the active preset. The main LED will blink to indicate the preset has been saved.

WARP / IMPULSE AND EXPRESSION

Tap this footswitch to accelerate the Defender into warp drive! While Warp is active, the Defender will move to a second unique setting of your choice. Just turn the pedal knobs while Warp is active to set the Warp tone. Tap the footswitch again to return to the regular sound. ALL knob settings may be changed as part of the Warp mode, but the distortion and effect selections must stay the same.

The Warp speed may be adjusted by holding the Select button and turning the Drive knob. Low settings of Warp will cause the pedal to move into and out of Warp mode instantly, while higher settings will accelerate into and out of Warp mode more gradually.

You can also hold the Warp footswitch to activate Impulse mode, which will enter and exit Warp mode only as long as you hold the footswitch down. Try using Warp to set two different distorted sounds for rhythm and lead, or using the Impulse function to add some filtering or space delay to the climax of a solo! The possibilities are endless, and if you engage it while flying backwards around the sun you may end up saving some whales...

If you connect an expression pedal to the MultiJack, you can use this to manually transit between the Warp and Normal settings of the pedal. The toe down setting behaves like Warp and the heel down setting like Normal.

If you prefer to use MIDI commands to control your pedal, both Expression and Ramp are accessible using MIDI continuous controller (CC) messages. Please consult the MIDI Control section for more details.

Please note that both the main AND alternate knob functions may be controlled by the expression or ramp controls!

MIDI CONTROL

Connect a compatible MIDI controller to the Neo pedal to access its full feature set!

The Neo pedal can accept MIDI over USB from a computer or mobile device, or from a MIDI controller capable of sending data using a 1/4" cable. The Neo pedals are compatible with interface converters made by Disaster Area Designs and Empress.

The following commands are accepted by the Neo pedal:

MIDI Program Change: Load Presets 0-15

0-3 are the four Red presets on the pedal itself
4-7 are the Green bank
8-11 are the Blue bank
12-15 are the White bank

MIDI Continuous Controller 97: Warp

Any value triggers the warp effect

MIDI Continuous Controller 100: Expression Pedal

Value 0 = Heel down, Value 127 = toe down

MIDI Continuous Controller 102: Bypass

Value 0-63 = Bypass, Value 64-127 = Engage

MIDI Continuous Controller 50-57: Pedal Knobs

Value 0 = CCW, Value 127 = CW

| | |
|---------------|--------------------------|
| CC 50 = Mass | CC 54 = Tweak |
| CC 51 = Level | CC 55 = (not applicable) |
| CC 52 = Drive | CC 56 = Warp Speed |
| CC 53 = Light | CC 57 = Mix |

MIDI Continuous Controller 59: Mode Select

Accepts values 0-8:

| | | |
|---------------|---------------|--------------|
| 0 = OD + PIT, | 1 = DST + PIT | 2 = FZ + PIT |
| 3 = OD + SPC | 4 = DST + SPC | 5 = FZ + SPC |
| 6 = OD + FLT | 7 = DST + SPC | 8 = FX + FLT |

MIDI Channel Assignment:

Set the Neo pedal to Config mode by holding Select at boot, then send a MIDI program change on your desired MIDI channel to set the Neo pedal's MIDI channel. Hold the Select button to save the MIDI channel assignment.

ALEXANDER
GREAT TONES. DOING GOOD.

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