BLACK COUNTRY CUSTOMS The Spiral Array User Manual

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INTRODUCTION

The Black Country Customs range of guitar pedals are born out of the desire to achieve the best guitar tone possible.
The result of hours of dedicated testing and listening, each Black Country Customs pedal is built using the highest quality components and engineered to last a lifetime on your board.

What is the SPIRAL ARRAY
The Spiral Array – it's a Chorus pedal with a difference it is actually three distinctly different chorus pedals in one box.
THE SPIRAL ARRAY houses 3 classic chorus sounds, derived from the classic era of Chorus the mid 70's to the mid 80's.
An Analog chorus based on a 1976 Boss CE1, a digital chorus based off the 1979 Roland Dimension D/C and the renowned 1985 Dytronics Tri Stereo Chorus.
All in one box.

FEATURES

Each of the BCC pedals have been designed to incorporate features that really matter :-

- Transparent fully buffered operation at all times.
- Super high output drive provides an excellent interface between bass guitar and effects pedals/amp.
- Much reduced cable loss.
- Consistent bass guitar volume performance at all settings.

- Signal phase integrity.
- Excellent consistent load for passive Volume pedals.
- Ultra-low noise circuitry.
- Silent switching.
- Low battery consumption.

LAYOUT

The layout of your pedal has been ergonomically designed by players, for players, to give you control over all the features you need, quickly and effectively.
The following pages will give you an insight into how the controls on THE SPIRAL ARRAY work and interact with each other.

CONTROLS

1. **DEPTH**

   Adjust the depth of the chorus wave. For a dou-bling effect, set the value to zero
2. **RATE**

   Adjust the Rate of the chorus wave.
3. **MIX**

   Adjusts the amount of the wet signal present when compared to the dry unaffected signal.
4. **MODE.**

   The SPIRAL ARRAY can be configured to run in 1 of 3 modes available

AN-Mode – Orange LED

A thick, lush sounding analog chorus, based around the classic analog sounding chorus of the mid 70's. Can be dialled to give you subtle cho-rus to a chewy, over the top warble – or anything in between.

DIM-MODE – BLUE LED

A "spatial" digital chorus designed to emulate the new breed of digital chorus pedals of the late 70's and early 80's.

Two chorus modules are run 180 degrees out of phase giving a wide, spatially enhanced chorus.

TSC-MODE – PURPLE LED

This is a tri-stereo-chorus option.

3 distinct stereo chorus modules, arranged with a stereo chorus on the left, a stereo chorus on the right and a stereo chorus in the middle.

Based on the classic chorus sounds coming out of the LA studio scene in the mid 80's, a truly iconic chorus sound.

5. **TONE**

   Adjusts the overall tonal response of the Chorus allowing you to dial in more upper frequency content to the chorus sound

6. **FOOTSWITCH**

   Engages the SPIRAL ARRAY.

7. **INPUT**

   Guitar input socket

8. **EXPRESSION PEDAL INPUT**

   The SPIRAL ARRAY features a socket to connect an external expression pedal. This allows you to control the mix control in REAL TIME.

   Simply connect a suitable expression pedal to the EXP input and set the expression pedal up accordingly.

   The expression pedal will now sweep the mix control from zero to whatever the value is set to on the SPIRAL ARRAY when the EXP pedal is pressed from heal to toe.

9. **RIGHT OUT**
   When running in stereo mode connect this output to the right hand amplifier or right hand signal path.
10. **LEFT(MONO) OUT**
    When using a mono set up – use this socket to connect to your amplifier. When using a stereo set-up, use this output to connect to the left hand amplifier or signal path.

SPECIFICATIONS

- **Model :** Spiral Array
- **FX Type :** Chorus engine
- **Input Impedance :** 1MΩ
- **Output Impedance :** 100Ω
- **Recommended Minimum Load Impedance :** 10KΩ
- **Expression Pedal :** Recommended pedal impedance 10KΩ, wired tip wiper ring top
- **Power Supply :** Regulated 9V DC PSU (Not Included), centre negative, 2.1x10mm connector type Internal
- **Current Consumption :** 90mA
- **Unit Dimensions :** 58.5 x 74 x 121.5mm, 2.3” x 2.9” x 4.8”
- **Net Weight :** 0.38Kg, 0.8lbs
- **Carton dimensions :** 78.5 x 114.5 a 158mm, 3.1” x 4.5” x 6.2”
- **Gross Weight :** 0.6Kg, 1.3lbs

In the interest of continued product development Laney reserves the right to amend product specifications without prior notification

FCC

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, that may cause undesired operation.

Warning: Changes or modification to the equipment not approved by Laney can void the user's authority to use the equipment.

Note: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This product conforms to the requirements of the following European Regulations, Directives & Rules:
CE Mark (93/68/EEC), Low Voltage 2014/35/EU, EMC (2014/30/EU), RoHS (2011/65/EU), RED (2014/30/EU), ErP 2009/125/EU
In order to reduce environmental damage, at the end of its useful life, this product must not be disposed of along with normal household waste to landfill sites. It must be taken to an approved recycling centre according to the recommendations of the WEEE (Waste Electrical and Electronic Equipment) directive applicable in your country.

SIMPLIFIED EU DECLARATION OF CONFORMITY
Hereby, Laney Electronics Ltd. declares that the radio equipment is in compli-ance with Directives 2014/53/EU, 2011/65/EU,2009/125/EU
Full text of the EU declaration of conformity is available at the following internet address:
support.laney.co.uk/approvals

Documents / Resources

	BLACK COUNTRY CUSTOMS The Spiral Array [pdf] User Manual The Spiral Array, The Spiral, Array

References

- Approvals