



SPIRAL ARRAY

## 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, painstakingly recreated from the classic era of Chorus the mid 70’s to the mid 80’s.

An analog chorus based on a thick lush 1976 Boss CE1\*. A spatial chorus based off the 1979 Roland Dimension D\* and the renowned uber rich sounding 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 to reduce cable loss.
- Consistent guitar volume performance at all settings.
- Signal phase integrity.
- Excellent consistent output load for volume pedals.
- Ultra-low noise circuitry.
- Tri-coloured LED showing mode of operation.
- Silent switching.



## 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.

FEATURES



## CONTROLS

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### DEPTH

Adjust the depth of the chorus wave, Higher settings = more depth, Lower settings = less depth. For a doubling effect, set the value to zero

2

### RATE

Adjust the speed of the chorus wave.

3

### MIX

Adjusts the amount of the wet signal present when compared to the dry unaffected signal. With the control set to zero there is no wet signal just 100% dry

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### 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 chorus of the mid 70's. Can be dialled to give you a subtle chorus to a chewy, over the top warble – or anything in between.

FEATURES



## CONTROLS

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### MODE cont.

#### DIM-MODE - BLUE LED

A “spatial” digital chorus designed to emulate the new era 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.

FEATURES



## CONTROLS

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### TONE

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

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### FOOTSWITCH

Engages the SPIRAL ARRAY.

FEATURES





## CONTROLS

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### 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 TRS wired 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 via the SPIRAL ARRAY MIX when the expression pedal is moved from heel to toe position.

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### INPUT

Guitar input socket.

FEATURES



## CONTROLS

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### RIGHT OUT

When running in stereo mode connect this output to the right hand amplifier or right hand signal path.

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### 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 :** BCC-SPIRAL

**FX Type :** Chorus engine

**Input Impedance :** 1M $\Omega$

**Output Impedance :** 100 $\Omega$

**Recommended Minimum Load Impedance :** 10K $\Omega$

**Expression Pedal :** Recommended pedal impedance 10K $\Omega$ , 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

**\* BOSS,CE1, ROLAND, DIMENSION C/D & DYTRONIC TRI-STEREO CHORUS**

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FCC COMPLIANCE STATEMENT



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.

SIMPLIFIED EU DECLARATION OF CONFORMITY



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), ErP (2009/125/EU).

Full text of the EU declaration of conformity is available at the following internet address: [support.laney.co.uk/approvals](http://support.laney.co.uk/approvals)



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.



BLACK COUNTRY CUSTOMS<sup>TM</sup>



HANDCRAFTED IN THE UK