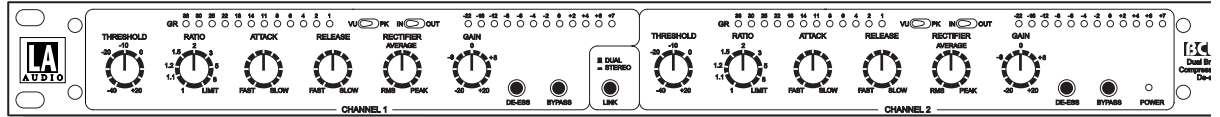


BCL20

Dual/Stereo Broadcast Compressor/Limiter



British
Originals



PRODUCT OVERVIEW

The BCL20 is a broadcast quality dual Compressor/Limiter with a built in De-Esser function, designed for FM transmitter protection and disc mastering as well as PA and studio applications. The unit may be operated as two independent channels or linked for stereo programme processing.

The BCL20 offers full control over Threshold, Ratio, Attack, Release and Gain make up. Each channel has two high resolution twelve segment LED bargraphs, one to display gain reduction and another which can be switched to display input or output level. The I/O meter can be switched between Peak or VU response.

A unique feature of the BCL20 is the inclusion of control over the detection characteristics, which can be mixed between Peak and RMS levels. This enables the compressor to be made sensitive to high energy transients or to wider programme modulations.

The De-Ess function is activated by means of a single switch which inserts a slew rate sensitive filter into the side chain to produce frequency conscious compression in accordance with FM transmission or disc mastering pre-emphasis. A rear panel jack insert point allows the connection of an external equaliser in the sidechain for other frequency conscious processing applications.

The BCL20 is equipped with high impedance balanced inputs and transformer balanced outputs on XLRs. The output stage features a unique Transformer Distortion Cancellation circuit, which reduces transformer distortion to negligible levels.

The BCL20 is manufactured in accordance with directives encompassed within the 'CE' regulations particularly those concerned with RFI protection.

SPECIFICATIONS

ELECTRICAL

Input Impedance: 20k balanced
Output Impedance: < 20R
Load Impedance: > 600R
Max. Input level: +20dBu
Max. Output level: +20dBu, 600R load, 1

Frequency response: 20Hz to 20kHz, +0, -0
Signal to Noise: > 94dB (+4dBu out)
THD: < 0.07% (1kHz, +4dBu, 10dB compression)
IMD: < 0.01%

Ratio control: Variable 2:1 to 20:1
Attack Time (Peak): Variable 1ms to 70ms
Attack Time (RMS): Programme dependent
Typically 12ms 12dB
Typically 4ms 24dB
Release Time (Peak): Variable 100ms to 3s
Release Time (RMS): Programme dependent
Typically 120ms 12dB
Typically 240ms 24dB

Max Gain Reduction: > 50dB
De-Ess Action: +12dB at 8kHz, ref. 1

Power Requirement: 15VA, 115/230VAC, 50

PHYSICAL

Input Connectors: XLR 3 Pin (Pin 2 hot)
Output Connectors: XLR 3 Pin (Pin 2 hot)
Power Connection: Detachable lead. IEC pin socket

Dimensions (mm): 483 (19") W
190 (7.5") D
44 (1.75") H
Weight: 3.9kg, 8.6lbs
Shipping Weight: 4.8kg, 10.6lbs
Temperature Range: Operating: 0°C to 50°C
Storage: -30°C to 75°C

In keeping with our policy of continuous improvement LA Audio reserves the right to alter specifications without prior notice. Manufactured in the UK by LA Audio, 6-24 Southgate Road, London, N1 3JJ.

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ARCHITECTS & ENGINEERS SPECIFICATIONS

The Compressor shall be a dual channel unit with stereo link capability. It shall be capable of operating both as a compressor and a limiter.

The Compressor shall have fully variable Threshold, Ratio, Attack, Release and Gain controls. A twelve segment Gain Reduction Meter and a twelve segment level meter switchable between input and output monitoring shall be provided..

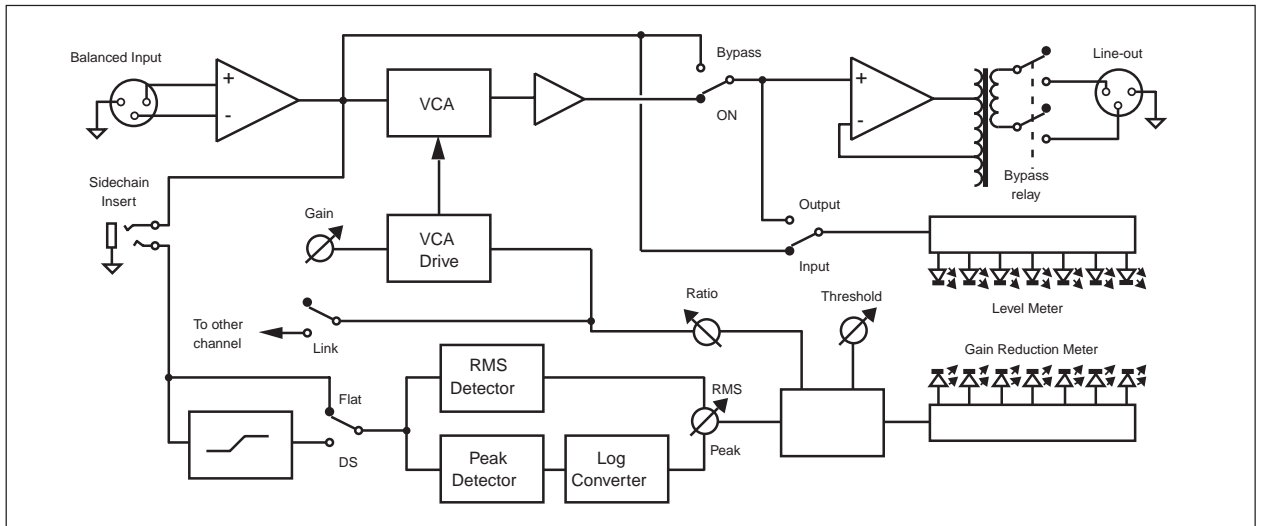
The Compressor's detection characteristics shall be fully variable between Peak and RMS. It shall also incorporate an integral De-Essing function switch.

Inputs shall be electronically balanced on XLR's and the Outputs shall be Transformer balanced on XLR's. The Output stage shall feature Distortion Cancellation circuitry.

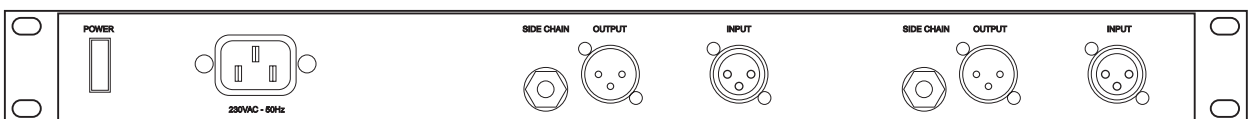
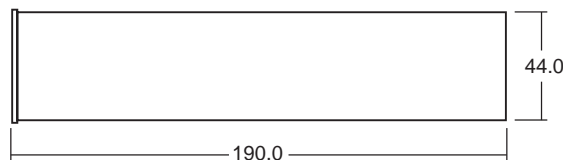
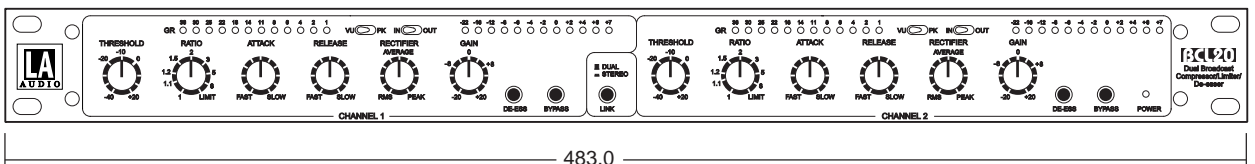
The Compressor shall be designed and constructed in accordance with the directives encompassed within the 'CE' regulations and so marked.

The Compressor shall be an LA Audio BCL20.

BLOCK DIAGRAM



DIMENSIONS



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