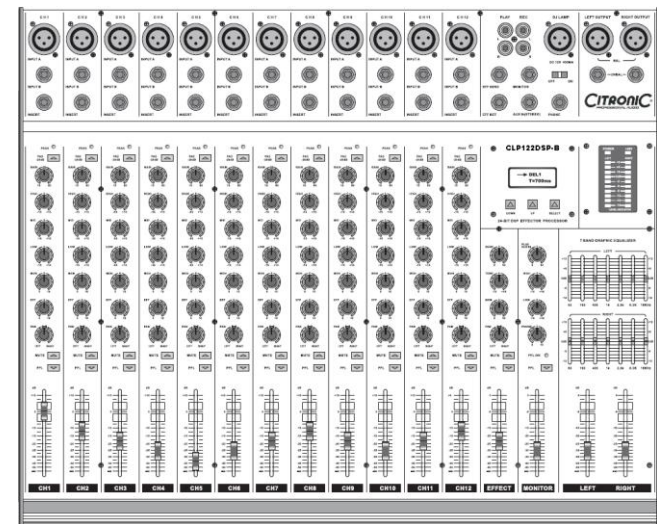


CITRONIC®



CLP122DSP-B

170.958UK

SAFETY INSTRUCTIONS

1.SAFETY FIRST!

CAUTION: to reduce the risk of electric shock, do not remove bottom cover. No user-serviceable parts inside. refer servicing to qualified personnel

WARNING: to reduce risk of fire or electric shock, do not expose this appliance to rain or moisture.

WATER AND ELECTRICITY DO NOT MIX, Keep this unit away from water. If water or other liquids are spilled on or into this unit, unplug the power cord immediately from the wall socket(with DRY HANDS) and get a qualified service technician to check it out before using.

Disconnect the equipment during storms to prevent damage.

Keep this unit away from heaters, radiators and other heat-producing devices.

There are no user serviceable parts inside the unit. Do not attempt to service this unit, Only a qualified service technician should open this unit for servicing. refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty.

2.THE SYMBOL



The lightning fash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION: to reduce the risk of electric shock, do not remove cover(or back) no user-servicing to qualified service personnel.

3.KEEP IT CLEAN

Dust, dirt and debris can interfere with the performance of this product. Make a special effort to keep this unit away form dusty, dirty environments. Cover the unit when it is not in use. Dust it regularly with a soft, clean brush. Careful attention to these details will be time well spent and this product will reward you with years of trouble-free operation.

A. INPUT CHANNEL SECTION

1. BALANCED INPUT (MIC)

Mic balanced inputs accept a standard XLR male connector. +48V Phantom Power is available on XLR inputs.

2. LINE INPUT

The 1/4"TRS jack socket is designed to accept a high impedance input signal.(eg. CD player, Guitar preamp, Keyboard etc.)

3. INSERT JACK

Channel insert to send the channel signal through outboard audio processors such as limiters, EQ etc. This will require a splitter cable that has a TRS 6.3mm jack to connect to the Insert and 2 x mono unbalanced connectors to connect send and return to the processor

4. PEAK LEVEL INDICATOR

Gives a visual indication of when the signal is within 10dB of clipping

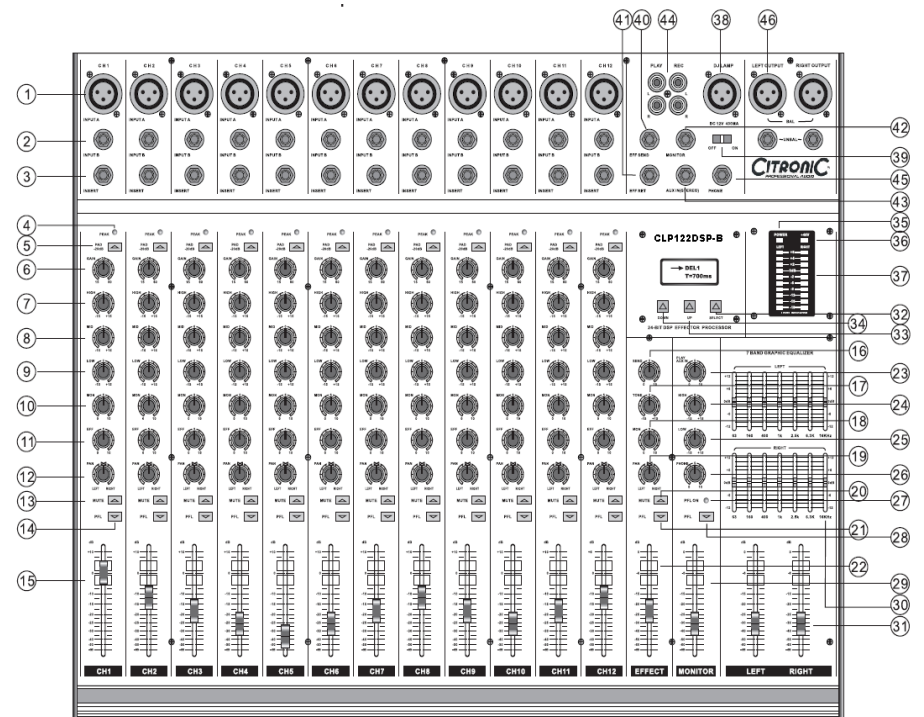


FIGURE 1 MAIN CONTROL PARTS

5. PAD (-20dB)

Attenuates the signal by 20dB when pushed in

6. GAIN

Adjusts the input sensitivity. Too high a value can cause distortion, too low a value can increase background noise

7. HIGH

Provides ± 5 dB of fixed frequency equalization that shelves at 10kHz

8. MID

Provides ± 5 dB of fixed frequency equalization that centres at 2kHz

9. LOW

Provides ± 5 dB of fixed frequency equalization that shelves at 120Hz

10. MONITOR

Adjusts the level of the signal sent to the monitor section and output

11. EFFECT

Adjusts the level of the signal routed to the internal digital delay (or external effects if the effect send and return are connected)

12. PAN

The PAN control varies the balance of the left and right feed of the signal to the master output. This has the effect of positioning the signal at a particular point within the stereo field

13. MUTE

Mutes the channel signal feed to the main mix

14. PFL

Pre-Fader Listen switch. Feeds the signal through to the headphones and level meters for monitoring and isolated signal adjustment

15. CHANNEL FADER

Adjusts the level of channel signal routed to the main mix. Normal full volume is 0dB although up to +4dB gain above this is available

B. MASTER SECTION

16. EFFECT SEND

Adjusts the overall level of the combined effect sends from each channel to help avoid overloading the effects unit

17. TONE

Adjusts the high frequency component of the internal delay by ± 10 dB shelving @12kHz

18. EFFECT LEVEL

Adjusts the level of the effects unit routed to the main mix

19. EFFECT PAN

Adjusts the L + R balance of the internal or external effects fed to the main mix

E. SPECIFICATIONS

INPUT CHANNELS

Input	Electronically balanced/unbalanced XLR or 6.3mm jack
Mic E.I.N.	-120dBu
THD	<0.01% (+4dBu, 1kHz)
Gain Bandwidth	80kHz
Gain Control Range	-5dB to +60dB
Max Input	+22dB
Channel Fader Range	-85dB to +10dB
Monitor Send Range	-85dB to 0dB
Effect Send Range	-85dB to 0dB
EQ - Hi Shelving	± 15 db @ 12kHz, Q fixed at 2 octave
EQ - Mid band pass	± 15 db @ 2kHz centre freq. Q fixed at 1 octave
EQ - Low Shelving	± 15 db @ 120Hz, Q fixed at 2 octave
Channel Insert Max In/Out	+22dBu
Channel Crosstalk	≤ -95 dB (1kHz)

AUX INPUT

Max AUX Input	+22dBu
Max PLAY Input	+10dBu
AUX In Gain Range	-85dB to 0dB

EFFECT

Max EFFECT Send/Return	+10dBu
EFFECT TONE	± 12 dB @ 8kHz
EFFECT SEND Gain Range	-85dB to 0dB
EFFECT RETURN Gain Range	-85dB to 0dB

MONITOR OUTPUT

Max MONITOR Output	+22dBu
MONITOR EQ Hi Shelving	± 15 db @ 8kHz
MONITOR EQ Low Shelving	± 15 db @ 120Hz

MIXER OUTPUT

Max Output	+22dBu (balanced XLR/6.3mm jack)
Master EQ	Dual 7-band Graphic EQ, each band ± 12 dB
SNR	90dB (ref: +4dBu)
THD	0.01%, 2kHz / +4dBu
Frequency Response	20Hz – 40kHz +1dBu, 10Hz – 120kHz +3dBu

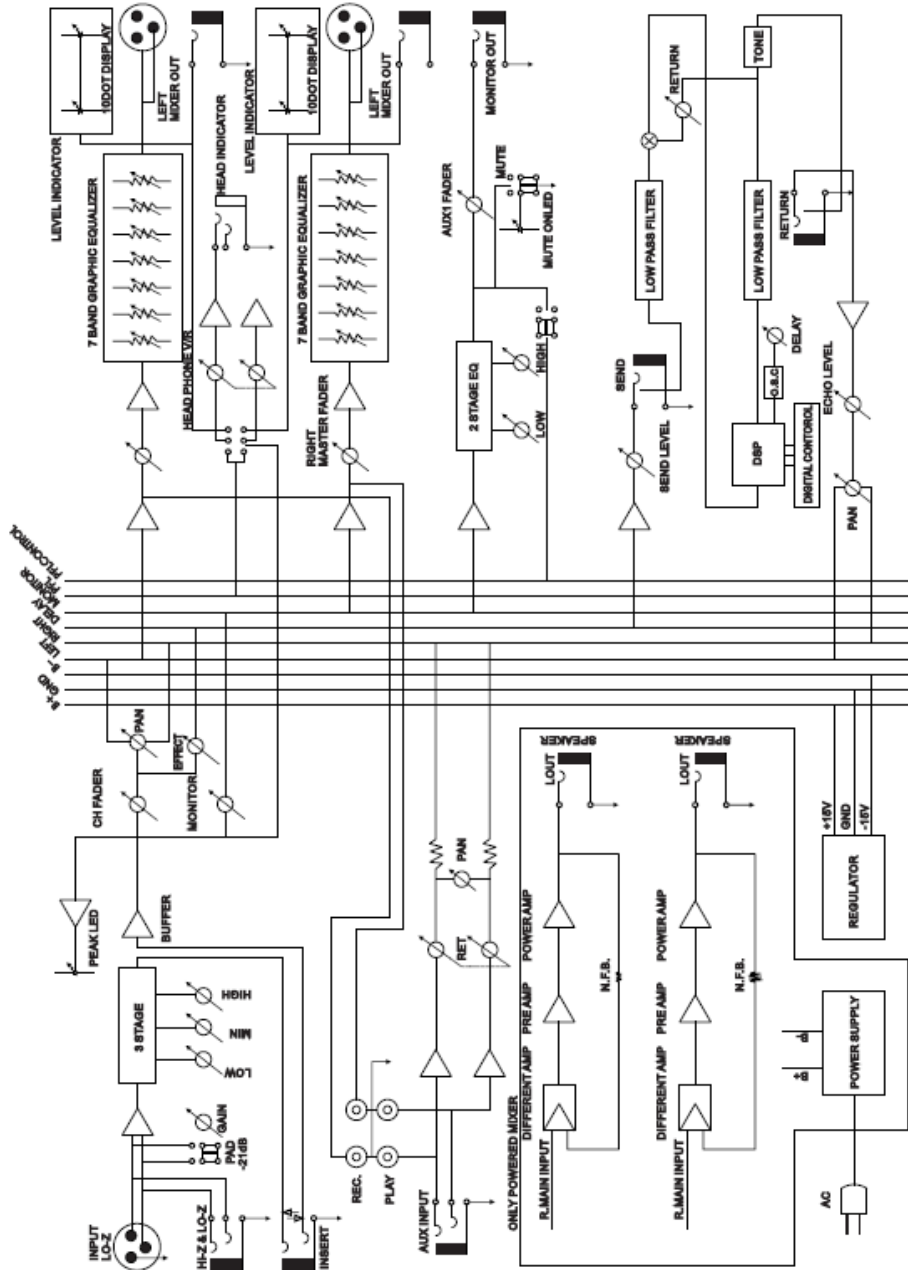
POWER AMPLIFIER OUTPUT

Max Output	2 x 225W @ 4 Ω
------------	-----------------------

PHYSICAL

Dimensions (H x W x D)	513 x 455 x 185mm
Weight	18.1kg

SCHEMATIC



20. EFFECT MUTE

Mutes the effect signal feed to the main mix

21. EFFECT PFL

Pre-Fader Listen for EFFECT signal. Feeds the effected signal through to the headphones and level meters for monitoring and isolated signal adjustment

22. EFFECT FADER

Adjusts the level of internal delay or external effect signal routed to the main mix.

23. PLAY / AUX IN

Adjusts the level of AUX input and/or RCA PLAY input routed to the main mix

24. MONITOR HIGH EQ

Provides ± 15 dB of fixed frequency equalization that shelves at 10kHz

25. MONITOR LOW EQ

Provides ± 15 dB of fixed frequency equalization that shelves at 120Hz

26. HEADPHONE VOLUME

Adjusts the output level fed from the stereo 6.3mm PHONE jack

27. PFL ON Indicator

LED indicates when PFL is in operation

28. MONITOR PFL Switch

Pre-Fader Listen for MONITOR signal. Feeds the monitor signal through to the headphones and level meters for monitoring and isolated signal adjustment

29. MONITOR FADER

Adjusts the signal level of the monitor output

30. MASTER EQ

Dual 7-band graphic EQ for global tone adjustment

31. MASTER FADERS

Adjusts the main mix L + R output

C. DISPLAY SECTION

32. SELECT KEY

Selects Effect type / Time value

33. UP Key

Increment effect type / value

34. DOWN Key

Decrement effect type / value

35. POWER LED

Indicates mains on

36. PHANTOM POWER LED

Illuminates when phantom power is selected , supplying each XLR input with +48Vdc

37. LEVEL METERS

Dual 10-segment LED ladder showing main output or PFLsignal

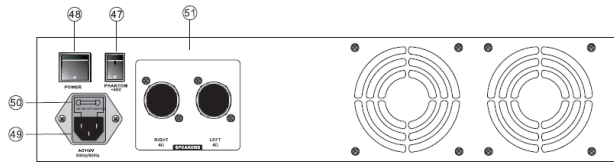


FIGURE 2 OUTPUT SECTION

D. OUTPUT SECTION

38. DJ LAMP OUTPUT

12V 400mA feed for a console lamp

39. DJ LAMP SWITCH

Switches power to DJ LAMP Output

40. EFF SEND

Optional 6.3mm jack feed to external effects processor. Defeats feed to internal effects

41. EFFECT RETURN

Return signal from external effects to mix via 6.3mm jack

42. MONITOR OUT

Output via 6.3mm jack to monitor speaker(s) or as an auxiliary output

43. AUX IN

Auxiliary 6.3mm jack input

44. PLAY / RECORD

Stereo RCA Input and Output for playback and recording equipment

45. PHONE Output

Stereo 6.3mm jack output for headphones

46. LEFT OUTPUT / RIGHT OUTPUT

Main mix signal outputs via balanced XLR or unbalanced 6.3mm jack

47. PHANTOM POWER Switch

Engages +48Vdc phantom power to each XLR input for condenser microphones etc.

48. AMPLIFIER POWER Switch

Switches mains power on/off

49. IEC Mains inlet 230V 50Hz

50. FUSE HOLDER

20 x 5mm fuse holder. Incorporated into IEC mains inlet.

51. SPEAKON CONNECTORS

For speaker outputs. Connect to 1+ and 1- min. 4Ω load

PLUG SOLDERING GUIDE

