



## USER GUIDE

The DC-8 DUAL is a 9 volt DC power supply designed to power multiple keyboards in schools and other teaching environments, and for live use on stage or in the studio. It is capable of driving continuously 8 medium size keyboards. The polarity of the outputs is factory pre-set to the Yamaha and current Casio standard. If needed, this can easily be changed internally to the opposite polarity, please see over.

### IMPORTANT - READ BEFORE USE

Up until 2013, Casio and Yamaha chose to have opposite polarities for their keyboard power supplies - Casio is 'centre pin negative', and Yamaha is 'centre pin positive'. Please be certain that this psu is set to the correct polarity, or damage could occur. For units from 2013 on, the polarity is the same, centre pin positive, which is how this DC-8DUAL is set. Casio use 3 different sizes of DC plug, custom leads are available for each model.

**RED LED = CENTRE PIN POSITIVE (YAMAHA/CASIO). GREEN LED = CENTRE PIN NEGATIVE (OLD CASIO).**

The led fitted to the front panel at the lower left of the outputs, provides an instant indication of the way the polarity has been set. This led is white when the unit is switched off.

Note also that the DC-8 DUAL produces 4.2 amps of power, with each output designed to deliver 1/2 an amp. Very large keyboards with big LCD displays and disc drives can take up to 1 amp each; do not overload this unit, instead connect 4 or 5 keyboards only to each DC-8DUAL.

### CHANGING POLARITY

**Pull out the power plug from the mains socket.**

Remove the lid – two screws, don't loose the small shake-proof (crinkled) washer, this ensures earth continuity between the lid and base.


Near the right hand edge of the circuit board are two links, each with a leg bent at right angles, and soldered to a pin emerging from the board. They are factory-set to the right hand pin, i.e. centre pin +. To the left of each link is another pin. For centre pin negative, unsolder the link, and resolder it to the pin on it's left. Do this for both links, and then refit the lid. The front panel led will change colour.

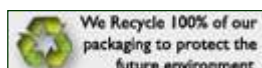


### CONNECTIONS and USE

1. Plug the Eurolead into the rear panel mains socket, and the 13 amp 3 pin plug into a suitable power outlet. Use the eight 3 metre DC leads supplied to connect keyboard's DC power sockets to the 8 front panel outputs. With Casio keyboards, the model no. or psu no. must be specified.
2. If a fault should develop, the current limiting circuitry will shut the unit down, and the 'fault' led on the front panel will illuminate. The rear of the unit will heat up. When the fault is removed, the unit will automatically re-set itself. Examine carefully all DC leads for shorting, and damage to the DC plug. Any suspect leads should not be used again. Remember that if you put this power supply under a bench, you may not be able to see the fault warning led:)

### TECHNICAL SPECIFICATION

Power: 230v AC 50Hz or 110v AC 60Hz DC Output: 9v @ 4.1 amps, or 12v @ 3 amps loading. Single DC out: 0.5 amp max. 



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