

**Clockaudio**  
**ARM-C Control Box**  
**Instructions**



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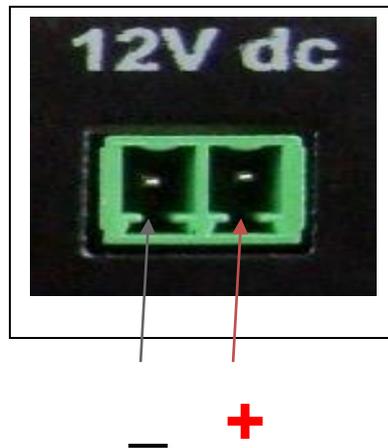
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## ARM Control Box Overview

- Link / DSP (2 x RJ12) control ports allow DSP connection and Link / daisy chain expansion to other control boxes. A single command from a DSP will simultaneously activate all connected ARM motorised microphones.
- Logic input connections to the Link / DSP control ports pin 2 live and 1 Gnd.
- A positive (+2.5V to +12V) signal applied to the DSP control port will simultaneously activate all ARM motorised microphones connected to the control box M1 – M4 RJ45 motor outlet ports.
- M1 – M4 ports allows for fast and easy connection of 4 x ARM motorized microphones.
- Removable Phoenix connector for the connection of an external 12V DC 2A supply (ARM-PSU 1).



- Led power indicator.
- Simple screw fixing of box.

**Warning: Under no circumstances must any equipment be connected to the M1 – M4 motor power outlet sockets of the ARM controller box. Serious damage to equipment and control box will occur which is not covered under the guarantee given.**

## Connections

1. Install the ARM motorised microphone as per separate instructions given with the product.
2. Ensure that the Control box power supply is **NOT** switched on until all wiring and connections have been completed.
3. Connect the ARM motorised microphone plug/s to any of the M1 – M4 motor outlet ports on the Control box. It does not matter which port is used as they are connected in parallel.
4. Connect the DSP logic signal output terminals to the DSP input socket on the Controller box. Use the Link port to connect to other Control boxes.
5. Connect the microphone audio output cable to your mixer / DSP.
6. Power up the DSP and check that the programming has been set for use on the ARM using +2.5V to +12V logic high to raise the microphone. The microphone should be muted whilst in the upward or downward transition to prevent unwanted motor noise pickup (3 second transition).
7. Connect the 12V DC power supply to the DC +/- input terminals of the Controller box observing the correct polarity

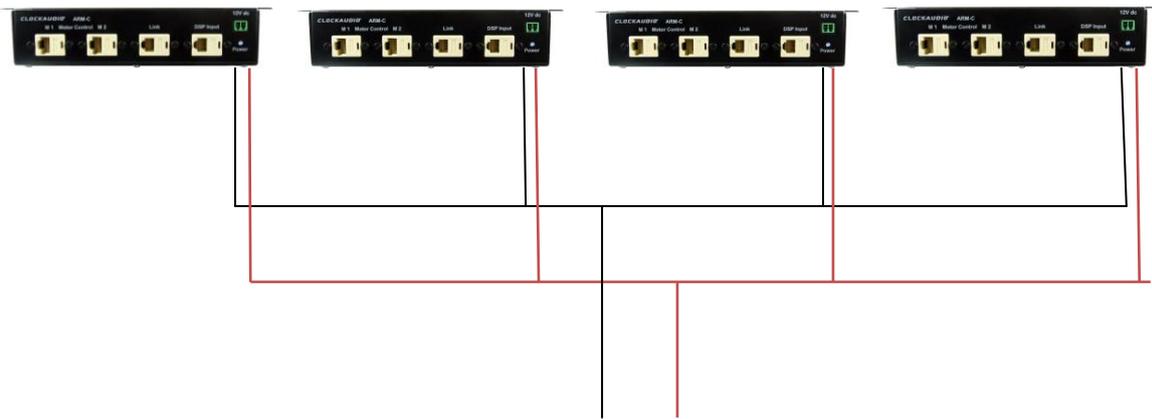
**Warning under no circumstances connect or disconnect an ARM microphone with the ARM C box powered up. Failure to do so may cause erratic operation.**



8. Turn on the DC supply to the controller box. The coloured power indicator will illuminate confirming that a supply is present. The motorised microphone may initially very slowly fully extend and then retract. This is normal as it will be auto-calibrating.

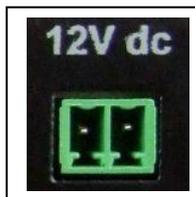
- When a logic high is received from a DSP, the microphone will raise and remain raised until a logic low is received.

### CONNECTING 4 X ARMC CONTROL BOXES USING SINGLE AC ADAPTOR



Negative - Positive + DC Input from AC adaptor:

Ensure correct polarity



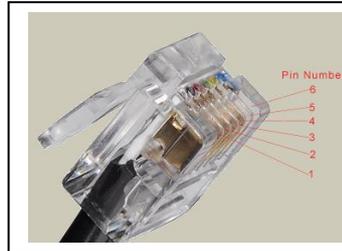
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Connecting 4 ARM-C using single high power AC adaptor (ARM-PSU 4). Connection / termination blocks (not supplied) will be required.

### Rear panel



If the RJ12 cables need to be lengthened readymade / off the shelf extension cables are freely available at your high street electrical retail outlet. If cables are to be handmade then connections are made to pins 2 (Live) & 1 (Ground) shown below all other pins are not used.



### **Troubleshooting Guide**

<p>Microphone does not move up or down</p>	<ul style="list-style-type: none"> <li>• Check that the DSP control signal is present logic +2.5 to 12 Volts is required.</li> <li>• Is the microphone motor cable connected?</li> <li>• Is the DC supply to the Controller box switched on blue power light should be illuminating?</li> <li>• Check logic input cable connections between DSP and DSP control ports on the controller box.</li> <li>• Disconnect and reconnect the power supply to the controller box.</li> </ul>
<p>Microphone is picking up noise as it is being raised / lowered.</p>	<ul style="list-style-type: none"> <li>• This is normal. The microphone must be muted by the DSP during the raising / lowering transitions. Note it takes 3 seconds for the microphone to raise / lower.</li> </ul>

### **Specifications**

Power supply requirements per control box: ARM-PSU 1

Motor activation / trigger input logic level +2.5 to +12V

Dimensions W 198 H 42 D 85mm

### **At the end of the life of this equipment**

### **Dispose of according to local regulations**

