

Clockaudio

ARM-C Control Box

Instructions



www.clockaudio.com

email: info@clockaudio.co.uk

Clockaudio Ltd 22 Arnside Road Waterlooville Hampshire PO7 7UP England

Product Guarantee

Thank you for purchasing a Clockaudio product. We are confident that this product will give you many years of trouble free operation and is backed up with a 2 year guarantee.

Important: Guided Tour systems, Mixers and RF products must have the guarantee activated by completing the registration details on Clockaudio web site. Look for the warranty tab under the Technical Library. Clockaudio will retain the details on their database for future reference.

This product is guaranteed for 24 months from the date of purchase. Any defect that arises due to faulty materials or workmanship will either be replaced, or repaired free of charge by the agent from whom you purchased the unit. Please note charges will be incurred on any products returned for service / repair not in warranty or has been subject to customer abuse or incorrect wiring.

The guarantee is subject to the following provisions:

- The guarantee does not cover accidental damage, misuse, cabinet parts, knobs, batteries or consumable items. Any product returned to Clockaudio failing to meet the terms listed will incur a repair and postage charge.
- The product must be correctly installed and operated in accordance with the instructions supplied with the product.
- Unauthorised modifications and alterations to the original specifications will render the guarantee void
- The product must be used for the sole purpose that it was designed for.
- The guarantee given is strictly with the original owner and becomes invalid if the product is resold or becomes damaged by inexperienced repair.
- Product purchased outside of the countries served by Clockaudio designated / approved Agents are not covered by the warranty.
- Specifications / improvements are subject to change without notice.
- Clockaudio disclaims any liability for incidental or consequential damages.
- The guarantee is in addition to and does not diminish your statutory legal rights.

For more information and advice on Clockaudio products please look on Clockaudio website:
www.clockaudio.com

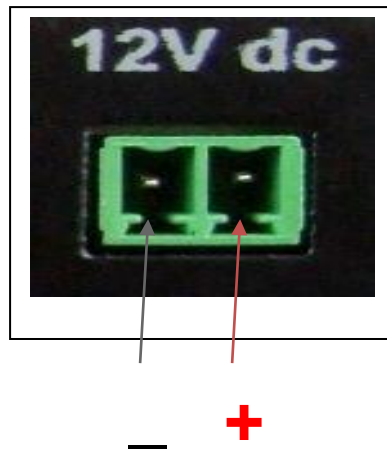
Tel: +44 (0) 23 9225 1193 Fax: +44 (0) 23 9225 1201

Email: info@clockaudio.co.uk

Clockaudio Ltd 22 Arnside Road, Waterlooville, Hampshire, PO7 7UP England

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).



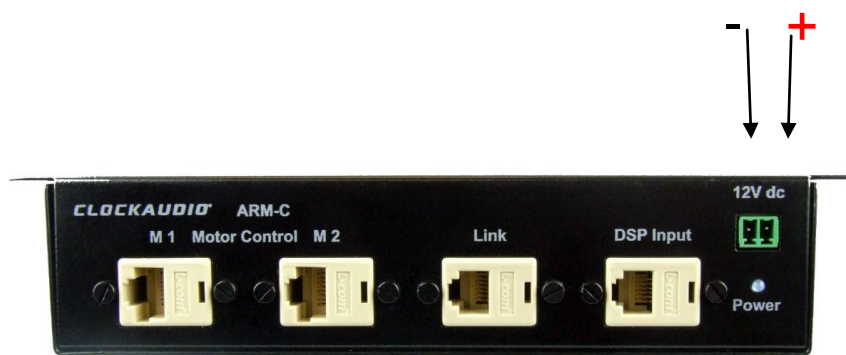
- Led power indicator.
- Simple screw fixing of box.

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

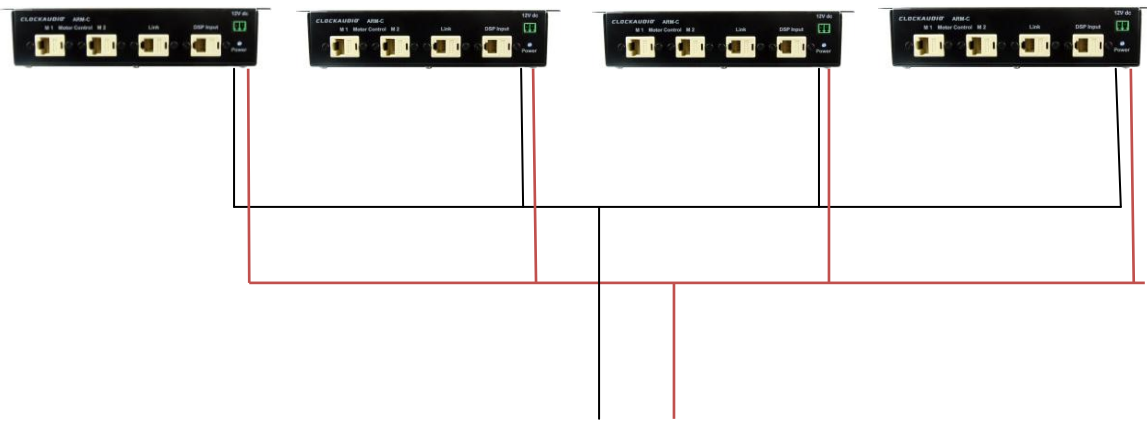
Warning under no circumstances connect or disconnect an ARM microphone with the ARM C box powered up. Failure to do so may cause erratic operation.



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.

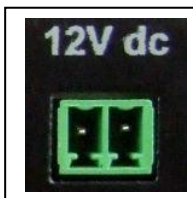
- When a logic high is received from a DSP, the microphone will raise and remain raised until a logic low is received.

CONNECTING 4 X ARMC CONTROL BOXES USING SINGLE AC ADAPTOR



Negative - Positive + DC Input from AC adaptor:

Ensure correct polarity



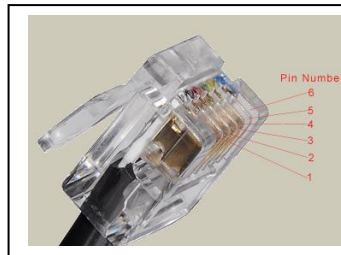
-/+

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"> • Check that the DSP control signal is present logic +2.5 to 12 Volts is required. • Is the microphone motor cable connected? • Is the DC supply to the Controller box switched on blue power light should be illuminating? • Check logic input cable connections between DSP and DSP control ports on the controller box. • Disconnect and reconnect the power supply to the controller box.
<p>Microphone is picking up noise as it is being raised / lowered.</p>	<ul style="list-style-type: none"> • 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.

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

