



# Coral Box AquaLink A1

## Quick Start Guide



### Packing list

AQlink A1 main unit	X1
Quick Start Guide(this document)	X1

### Features

- Direct drive Jebao/Jecod DCT/DCS/DCP-series pumps, CP series cross-flow pumps and compatible 3 phases pump/wave makers.
- High performance fast response with sinusoidal current drive, offer minimized rotor vibration and extra quiet operation.
- Pump Selection : Up to 32 preset pump parameters.
- Control Input : On-board RJ45 socket, using one analog channel can control rotational speed, two analog channel can control clockwise and counter-clockwise direction.
- Continuous firmware upgrade to support new pumps, please contact your sales for arrangement.

### Specification

- DC IN:12 – 24VDC adapter or Pump Extender, current up to 4A.
- Control Voltage: 0 – 10VDC, 2 channels via RJ45 8P connection.
- Pump Output: 24V 3 phases BLDC pump and wave maker.

- Size and weight : Typical 10cm x 10cm x 2.7cm (W\*L\*H), 150g.

Suitable for:

DCA	2000	3000	6000	9000		
DCS	2000	3000	4000	7000	9000	12000
DCP	3000	4000	5000	6500	8000	10000
DCT	3000	4000	6000	8000	12000	15000
CP	CP-25	CP-90	CP-40	CP-120		
GF	150					
DCW	4000	6000	9000	12000		
DCQ	4000	6000	9000	12000		
QP	QP-5	QP-9	QP-16			
Reversed						

### Quick Start

1. Setting of Programming Switch: On the side of the main unit there is a programming switch (Fig.1) with 5 slide levers, please refer to Fig.4, find your pump's model and set the slide levers accordingly. Please visit [www.coral-box.com](http://www.coral-box.com) for latest support list.



Fig.1 Programming Switch

2. Connection to Variable Speed Control Unit : Use a RJ45 cable to connect to the main unit's RJ45 8P socket. The pin definition of the RJ45 socket is as on Fig.2. They are 0 - 10V DC input, applying voltage out of this range will damage the unit permanently. CH1 1-10V corresponding to 10 -100%, and CH2 having no connection or lesser than 2V DC, the pump will be in default/clockwise direction, else if voltage of more than 8VDC, the pump will rotates reversely.



Fig.2 RJ45 Socket

3. Connection to Your Aquarium Pump: As on Fig.3, connect your pump to the AquaLink A1 "PUMP" cable.

4. Connection to Power Supply: Power off your original pump/ wave maker DC adapter, and then connect to AQLink A1 DC jack input, the jack polarity is as below:



Fig.3 Pump and Power

5. Finally, switch on the input power of the DC adapter, the green LED will light up indicating the unit start to operate normally.

(Fig.4 Programming Switch Setting for Supported Pumps sample)

1	DCA2000 DCS2000		2	DCA3000 DCS3000 DCA3000 DCT3000	
3	DCP3000		4	DCS4000 DCT4000	
5	DCP4000		6	DCP5000	
7	DCA6000 DCW6000 DCS6000 DCQ6000		8	DCP6500	
9	DCS7000		10	DCP8000 DCT8000	
11	DCS9000		12	DCP10000	

13	DCS12000 DCT12000		14	DCT15000	
15	CP-25 CP-90		16	CP-40 CP-120	
17	QP-9		18	QP-16	
19	Reversed		20	GF150	

## Warning



### Precaution - Controller Installation

- Please install the controller **AWAY from wet, high humidity and hot environment**, excessive humidity and high temperature operating environment may **DAMAGE THE CONTROLLER PERMANENTLY**
- Please install in an environment with good ventilation. This is to allow the internal electronics working at the desired temperature and operating environment, or else product durability will be affected. Active ventilation is required when the operating temperature is high