



SERIES⁶

— AQUARIUM LED —

SAFETY, INSTALLATION AND MAINTENANCE INSTRUCTIONS



FULL ONLINE INSTRUCTIONS:
www.arcadia.systems



READ AND FOLLOW ALL SAFETY INSTRUCTIONS

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

DANGER- To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt repairs yourself; return the appliance to an authorised service facility or discard the appliance.

This product is designed for indoor use and the illumination of aquariums only and will provide a good and safe service life, provided that these instructions are followed. Failure to do so may result in serious personal injury or property damage.

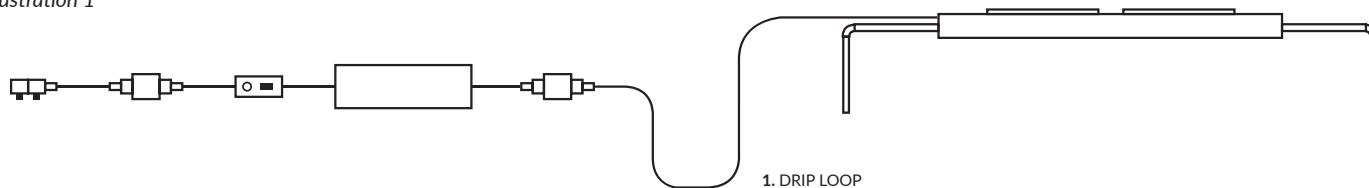
If you are in any doubt about the installation or operation of this product, please consult a qualified and experienced electrician.

Check that the voltage and frequency rating on the product label is the same as your electrical supply before proceeding further.

WARNING- To guard against injury, basic safety precautions should be observed, including the following:

1. Disconnect all appliances in the aquarium from the mains supply socket before putting your hands in the water or maintaining the Luminaire. Never pull on the cord to remove the plug from the socket, instead grasp the plug and pull to disconnect.
2. Always support the Luminaire when fitting to the tank frame, or adjusting the suspension height to physically prevent it from falling into the water.
3. Do not operate the Luminaire less than 20cm above the aquarium water level.
4. Regularly check the security of all your Luminaire legs or suspension mechanism parts.
5. Do not look directly into the light source.
6. Do not touch the light source while it is on. Allow the light source to cool before touching it.
7. The Luminaire can get HOT. Never touch the Luminaire while it is operating, allow adequate time for it to cool before attempting any maintenance.
8. If the appliance falls into water DO NOT reach for it. Disconnect from the power supply before attempting to retrieve it. If electrical components of the appliance get wet unplug the appliance immediately. If the appliance shows any sign of water leakage disconnect from the power supply immediately.
9. To avoid the possibility of the appliance plug or socket getting wet, position it to one side of the wall socket. A 'drip loop' should be arranged for each cord connecting to a power socket. The 'drip loop' is that part of the cord below the level of the socket, or connector, which prevents water travelling along the cord to the socket. *Illustration 1*.
10. Do not use the appliance other than for its intended use. The use of non-Arcadia attachment or accessories is not recommended and may cause an unsafe condition.
12. Do not install or store the appliance where it will be exposed to extremes of weather or temperatures below freezing.

Illustration 1



TECHNICAL SPECIFICATIONS

Code	Model	LED nominal wattages	Dimensions	Suits aquarium sizes
AH30M / AH30F	S6-30	5W x 12, 3W x 6	235 x 205 x 31mm	30 - 60cm
AH45M / AH45F	S6-45	5W x 24, 3W x 12	460 x 205 x 31mm	45 - 60cm
AH60M / AH60F	S6-60	5W x 32, 3W x 16	560 x 205 x 31mm	60 - 90cm
AH90M / AH90F	S6-90	5W x 48, 3W x 24	860 x 205 x 31mm	90 - 120cm
AH120M / AH120F	S6-120	5W x 64, 3W x 32	1160 x 205 x 31mm	120 x 150cm

M = Marine / F = Freshwater

ELECTRICAL SPECIFICATION

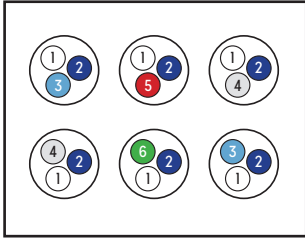
Input voltage	100~240VAC
Input current	2A
Operating frequency	50/60Hz
Output voltage	24VDC
Output current	6.3A

CONSTRUCTION

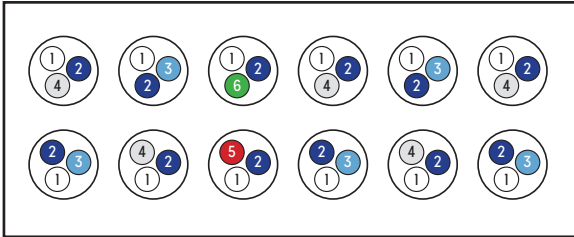
Body	Aluminum
IP rating	IP65
Operating temperature	0 - 40°C
Storage temperature	-10 - 50°C

LED SPECIFICATIONS - MARINE

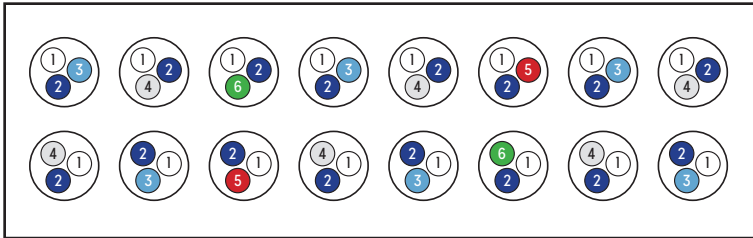
AH30M



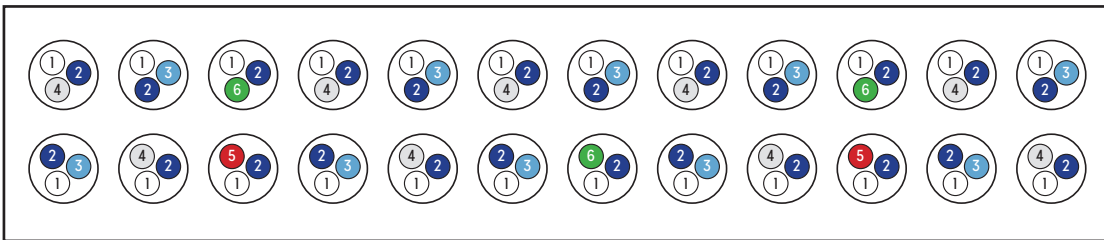
AH45M



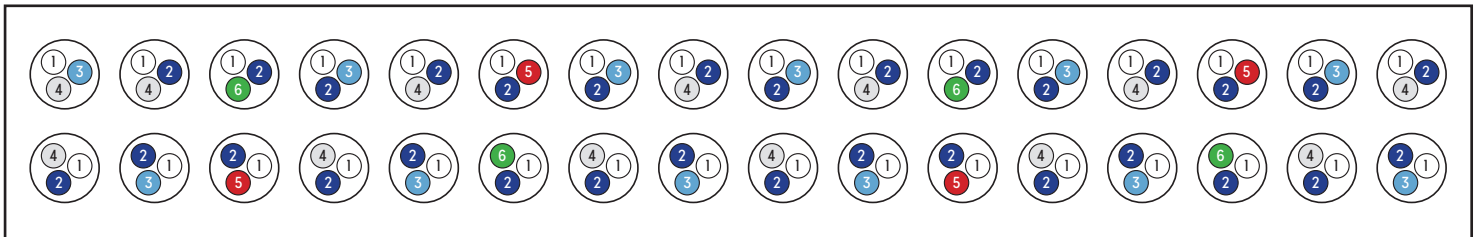
AH60M



AH90M



AH120M

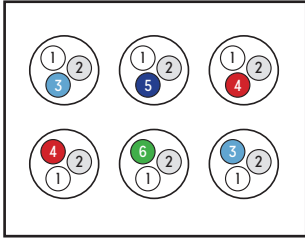


MARINE

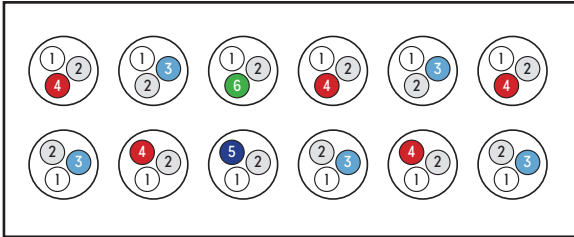
			AH30M	AH45M	AH60M	AH90M	AH120M
Channel	LED	Specification	Qty	Qty	Qty	Qty	Qty
1		CREE WHITE XTE 7000-8300K 5W	6	12	16	24	32
2		CREE ROYAL BLUE XTE 450-460nm 5W	6	12	16	24	32
3		CREE BLUE XPE 465-485nm 3W	3	5	6	10	12
4		UV 400-410nm 3W	1	2	3	4	6
		VIOLET 420-430nm 3W	1	3	3	5	6
5		CREE RED XPE 620-630nm 3W	1	1	2	2	4
6		CREE GREEN XPE 520-535nm 3W	1	1	2	3	4

LED SPECIFICATIONS - FRESHWATER

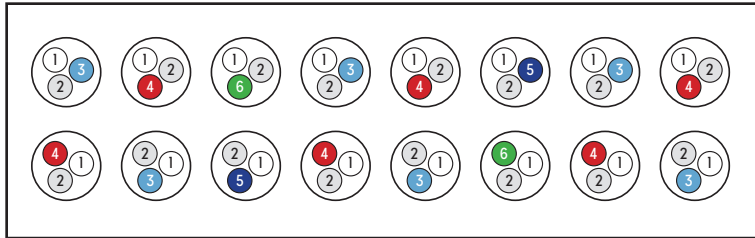
AH30F



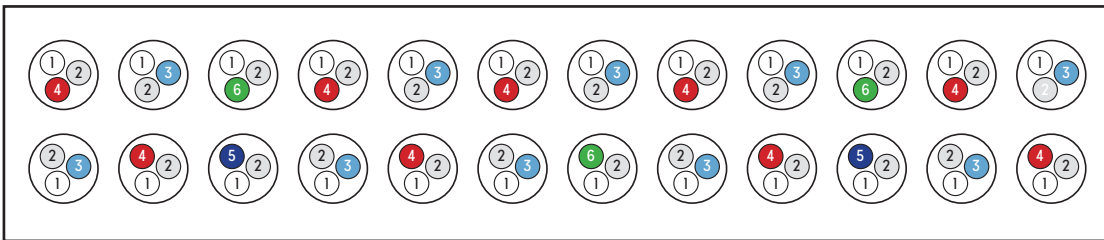
AH45F



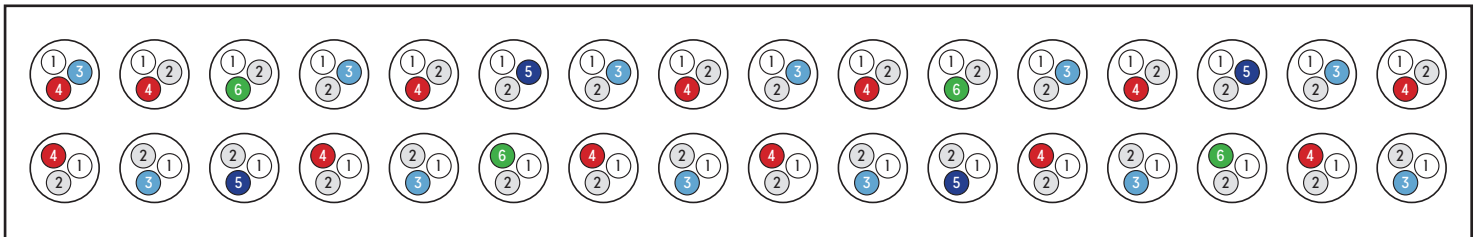
AH60F



AH90F



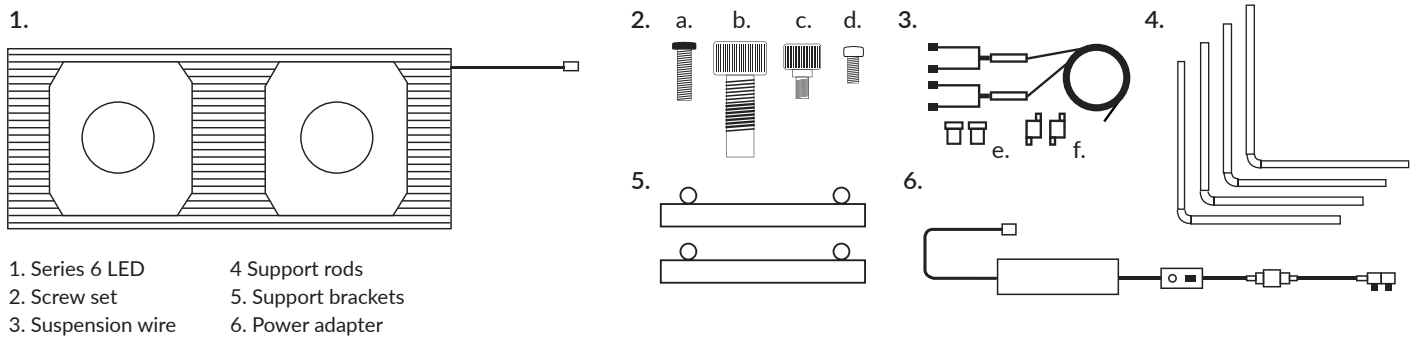
AH120F



FRESHWATER

Channel	LED	Specification	AH30F Qty	AH45F Qty	AH60F Qty	AH90F Qty	AH120F Qty
1		CREE WHITE XTE 7000-8300K 5W	6	12	16	24	32
2		CREE WHITE 4500-5500K 3W	6	12	16	24	32
3		CREE BLUE XTE 465-485NM 3W	2	5	6	10	12
4		CREE RED XPE 620-630NM 3W	2	5	6	9	12
5		CREE ROYAL BLUE XTE 450-460NM 5W	1	1	2	2	4
6		CREE GREEN XPE 520-535NM 3W	1	1	2	3	4

PHYSICAL INSTALLATION



Select a suitable site close to your electricity supply. Do not connect appliance to the mains supply socket during installation. This appliance is for indoor use only. Ensure the appliance is kept in a ventilated area and away from other heat sources. Make sure that the light from the appliance is aimed within the aquarium.

MOUNT USING SUPPORT RODS

NOT PROVIDED

CONSTRUCT IN SEQUENCE

Insert legs into mounting brackets and tighten screws.
 Slide legs into unit and mount on tank.
 Tighten screws to lock legs in position
 Minimum height above water 20cm

MOUNT USING SUSPENSION WIRE

CONSTRUCT IN SEQUENCE

Ensure unit is supported while making connections.
 Ensure all connections are secure before removing support
 Minimum height above water 20cm

ELECTRICAL INSTALLATION

This appliance must be earthed and the circuit must be protected by a suitable fuse!

Before installing, ensure that the rated voltage and frequency of the Luminaire match that of your power supply, and that the mains lead plug is fully compatible with your mains supply socket. If in doubt, please return the unit to the point of purchase for verification.

This appliance should be earthed to minimise the possibility of electric shock. This appliance is equipped with an electric cord having an equipment earth wire conductor and a grounding type plug. The plug must be plugged into a mains supply socket that is installed and earthed in accordance with all appropriate codes and ordinances.

Ensure the mains cable has a 'drip loop' as shown in *illustration 1*.

Connect unit to power supply and mains as *illustration 2*.

Illustration 2



UNIT INTERFACE

Brightness		Displays current light level for each channel.
Power On/Off		Turns unit on/off.
Dimmer		Allows user to set light level for each channel to compare colour combinations and light levels. Unit returns to programmed setting on exit.
Timer	Sunrise	Sets time for sunrise.
	Sunset	Sets time for sunset.
	Sunlight	Sets light levels for sunlight.
	Moonlight	Sets light levels for moonlight.
	Preview	Runs through new settings.
System	System Time	Allows current date and time to be changed.
	Wi-Fi Configuration	Allows change between one to one Wi-Fi connection and connection to Local Wi-Fi for connecting multiple units.
	Load default	Allows loading of default timer settings. SPS and LPS coral settings available.
	Temperature	Displays chassis temperature and fan usage as a percentage.
	Pilot Light	Turns On/Off pilot light.
	Language	Allows language selection. English or Chinese.
	Version	Displays latest version level of unit.

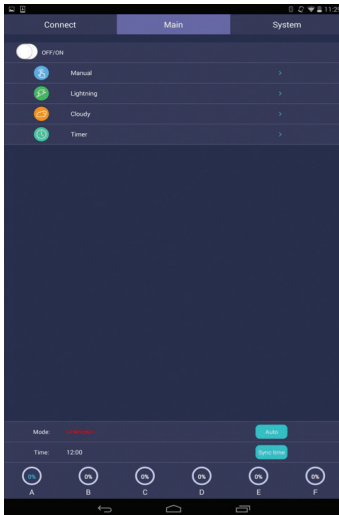
TROUBLE SHOOTING

Indicator Light	Meaning
The light is on but goes out after about 3 seconds.	The lamp WIFI works at Hotspot Mode.
Flicker for two times and go out for one time.	The lamp WIFI works at Access Network Mode, in the status waiting for configuration.
Flicker for three times and go out for one time.	The lamp WIFI works at Access Network Mode, and an error has occurred while connecting to a home router, the reason may be that the password is wrong or the router is turned off.
Irregular flickering.	WIFI is transmitting data.
Goes out.	WIFI has no data transmitted.

FAULT DIAGNOSIS

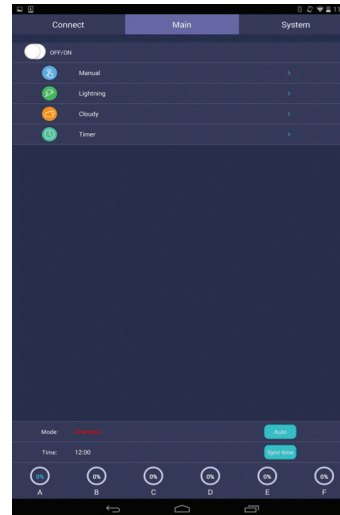
Fault Phenomenon	Cause Analysis	Solution
The screen doesn't display	The power plug is not properly inserted or the switch is not turned on.	Check the plug and turn on the switch.
	Bad connection between unit and power supply.	Check connector.
	Machine fault.	Contact Arcadia.
Buttons failure	There is foreign material on the buttons panel.	Remove the foreign material and keep the panel clean.
	Machine fault.	Contact Arcadia.
The WIFI signal cannot be found	The lamp WIFI is configured to Access Network Mode.	Reconfigure it to Hotspot Mode.
	The device is too far away from the lamp or WLAN is not enabled.	Check the device WLAN and enable.
	Machine fault.	Contact Arcadia.
APP cannot control the lamp	The device is not connected to the lamp WIFI.	Reconnect to the lamp WIFI.
	The network signal is bad or the lamp connection is disconnected.	Reconnect the lamp in the APP.
	Machine fault.	Contact Arcadia.
The light doesn't operate according to the timed set brightness	The timing data set is not successfully saved.	Reset the data and save.
	The time on the lamp is not correctly set.	Reset the time.
	Machine fault.	Contact Arcadia.

DOWNLOAD APPLICATION



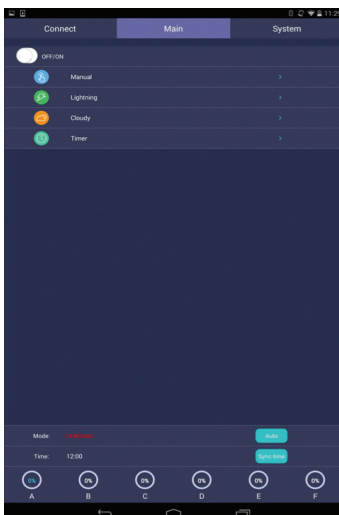
Connect

- Go to connect screen
- Press Change Wi-Fi to find device
- Click on device (number as label on end of unit)
- Enter password 12345678
- Return to Connect screen
- Tick check box for device
- Click Connect at bottom of screen



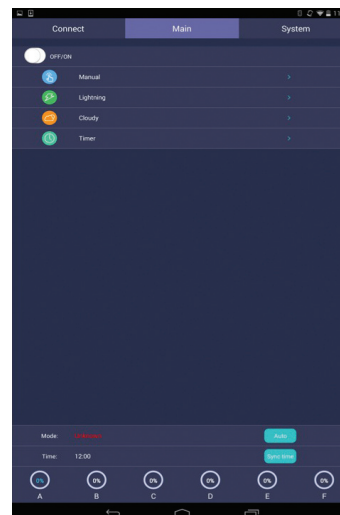
Manual

- Allows user to set light level for each channel to compare colour combinations and light levels. Unit returns to programmed setting on exit
- Tap channel to be changed and use slider to set level



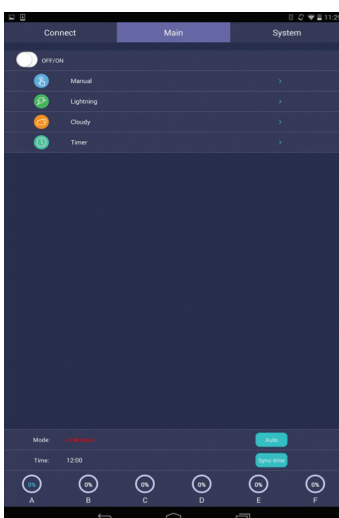
Lighting

- Allows use to set lightning effects
- Tap start and end times to set duration
- Use slider to set intensity
- Tick Run Now check box to preview
- Click Save to retain settings



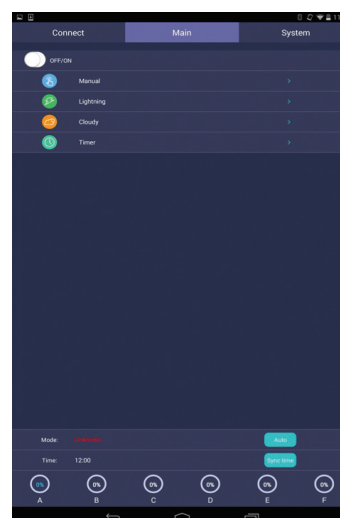
Manual

- Allows user to set cloud effects
- Tap start and end times to set duration
- Use slider to set intensity
- Tick Run Now check box to preview
- Click Save to retain settings



TIMER

- Allows user to program on/off times and % light output for each channel. Up to 24 dimming points can be set. Unit will dim up or down between settings at a rate of 1% per 30 seconds. It is advisable to write down times and percentages required before setting up program. Preprogrammed settings are available for SPS and LPS corals. Programs are displayed graphically and can be previewed.
- Click Timer + to add number of dimming points
- Press and hold time on each dimming point to set time.
- Press and hold channels to alter percentage light out puts
- Press eye symbol or use slider to preview program
- Press Save to confirm program. Program will not be initiated until saved.
- Press Schem to select a preset program



SYSTEM

- Update app
- Update light software
- Restore default - Returns unit to factory defaults
- Novice guide - Provides some basic advice
- FAQ
- Lamp lights- Turns pilot light on/off

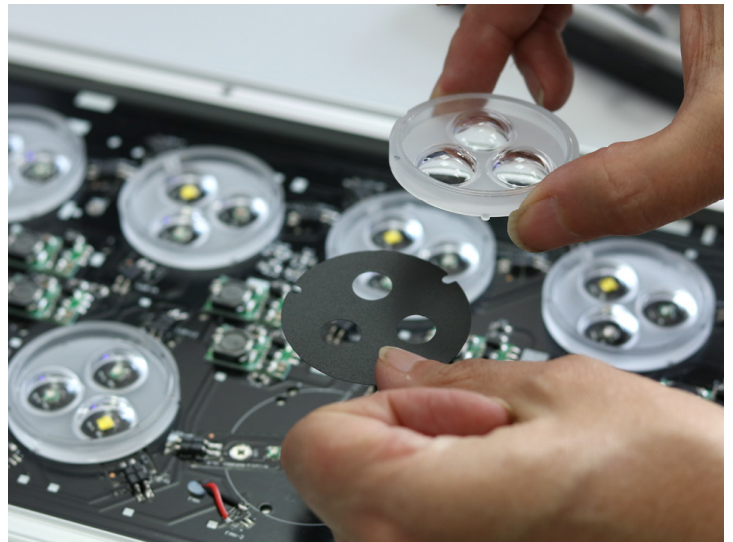
LED REPLACEMENT

Ensure unit is disconnected from the mains before starting. Risk of electric shock or damage to LEDs if the unit is worked on while connected to the mains.

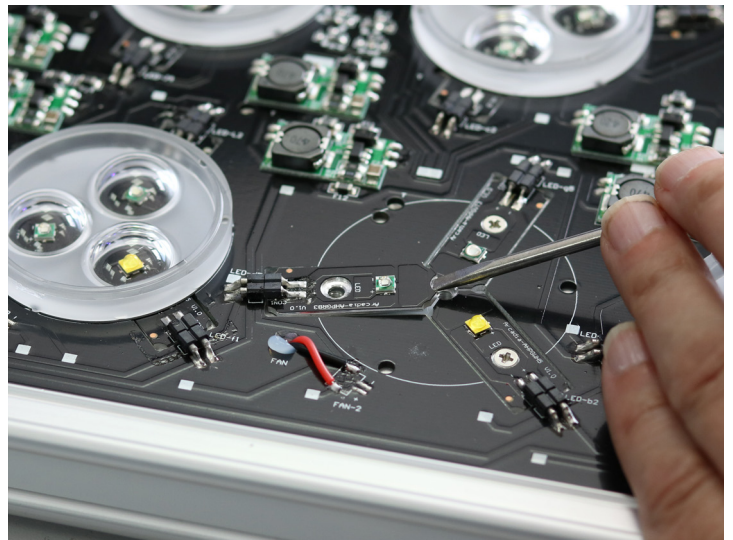
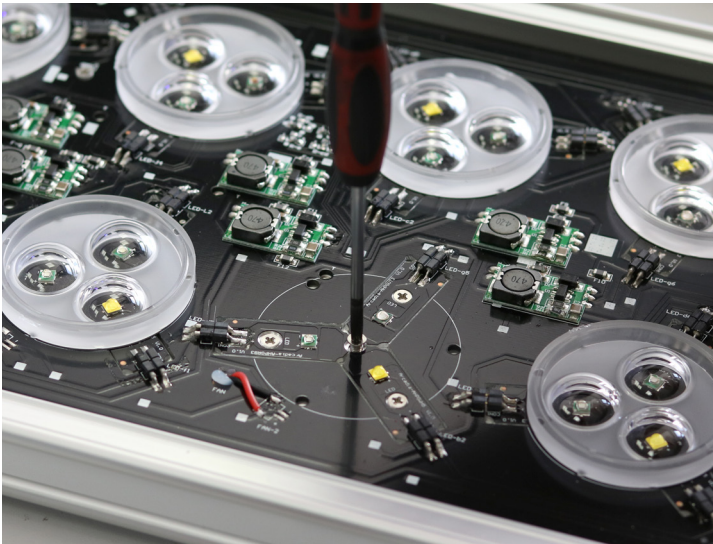
Remove the cover plate and end plates.



Remove lens.

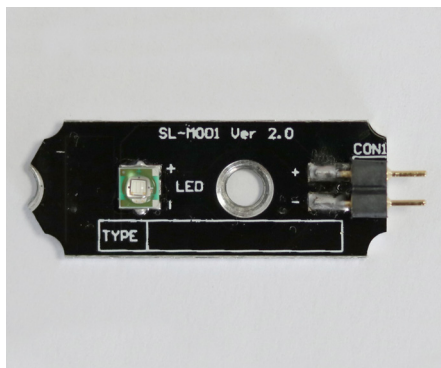


Remove LED to be changed.



Plug in new LED. Ensure it is same wattage as previous LED. Damage may occur if wrong wattage LED is fitted.
Ensure LED is properly seated before replacing lens and covers as above

REPLACEMENT PLUG-IN LED'S



Code	Description	Barcode
AHPGBL3	Blue 465-485nm 3W	844046012883
AHPGGR3	Green 520-535nm 3W	844046012906
AHPGRB3	Royal Blue 450-465nm 3W	844046012920
AHPGRB5	Royal Blue 7000-8300K 5W	844046013347
AHPGRE3	Red 620-630nm 3W	844046012944
AHPGUV3	UV 405-410nm 3W	844046012968
AHPGVT3	Violet 420-430nm 3W	844046012982
AHPGWH5	White 7000-8300K 5W	844046013002
AHPGCW5	Cool White 4500-5500K 5W	844046013422

LED LENSES

Code	Description	Barcode
AHL90	S6 90 degree lens	844046013460
AHL120	S6 120 degree lens	844046013446

For a list of spare items available, please refer to the Arcadia Products website for the most up to date information.
www.arcadia-sales.com

MAINTENANCE

Caution! Disconnect all appliances in the aquarium from the mains supply before putting your hands in the water or maintaining the Luminaire.

Always support the Luminaire when adjusting its height or mountings and physically prevent it from falling into the water.

Regularly check the security of all parts of your hanging mechanism or mountings.

Cleaning: Disconnect from the power supply and wait till the Luminaire is cool before cleaning, this not only avoids smears but also reduces the likelihood of any damage from moisture entering the Luminaire.

Both the appearance and performance of your Luminaire can benefit from regular cleaning. A damp cloth is normally adequate to clean the body. Excessive deposits of salt on the underside can reduce light output and are a sign that the Luminaire is too close to the aquarium. These can be removed with the careful use of a damp cloth ensuring that water does not enter the Luminaire body.

END OF USE RECYCLING INFORMATION

This product is covered by European Directive 2002/96/EC. Please do not dispose of this product or replacement lamps with your normal household waste. To safely and responsibly dispose of the product please ensure all the components are deposited in the appropriate areas of your local civic recycling centre. Proper disposal of this product helps to prevent potential negative consequences for the environment and human health.

All electronic components (this includes the power supply and the lamp holder) should be placed in the electronic waste recycling area.

If a fluorescent lamp is provided with this product it contains mercury, and cannot be disposed of with normal household waste; it should be deposited in the fluorescent lamp recycling area at your local civic recycling centre or taken to any approved recycling point for fluorescent lamps.