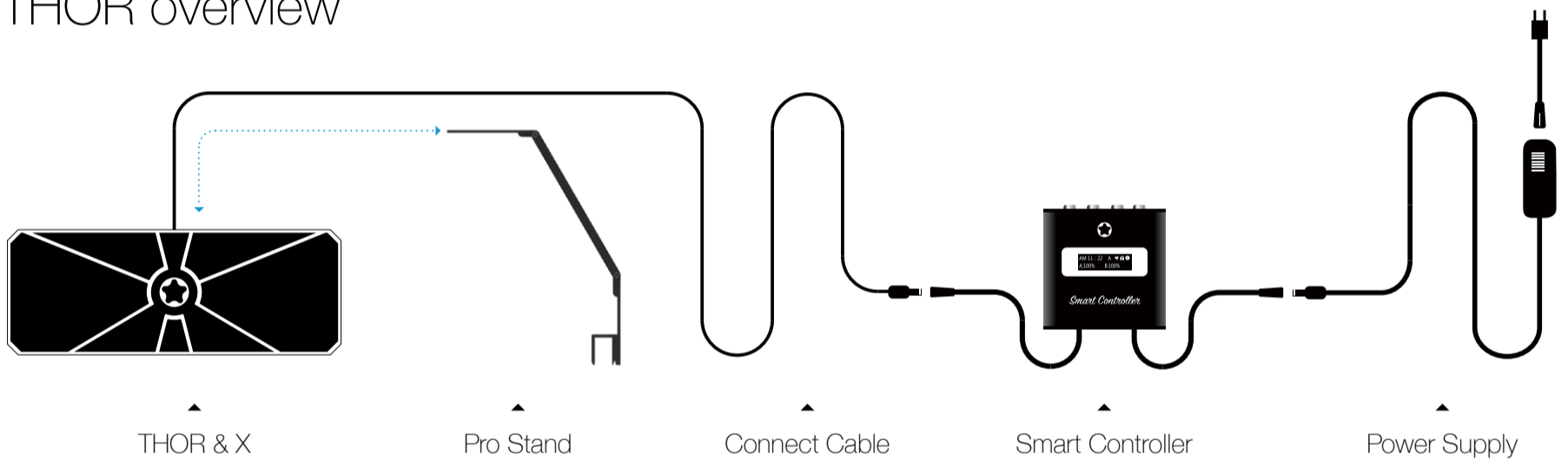# Quick Start Guide

THOR & X
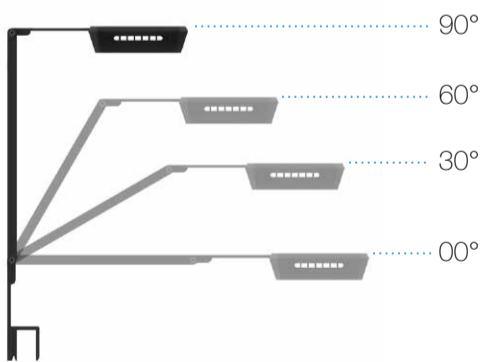
Congratulations on purchasing your THOR
Read this guide to get started to installing and setting your lighting

THOR overview
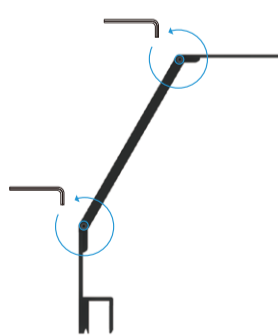
| THOR & X | Pro Stand | Connect Cable | Smart Controller | Power Supply |

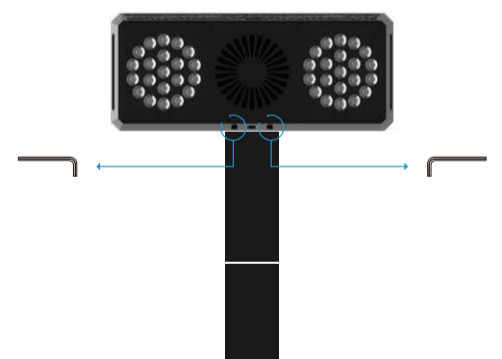## How to install the Pro Stand

❶ There are 4 angles choosable, Make sure the gear is coincide.

90°
60°
30°
00°

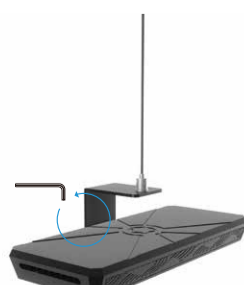❷ Adjust the angle and locked it.

❸ Lock the THOR to the Pro Stand.

How to install the Hanging Kits

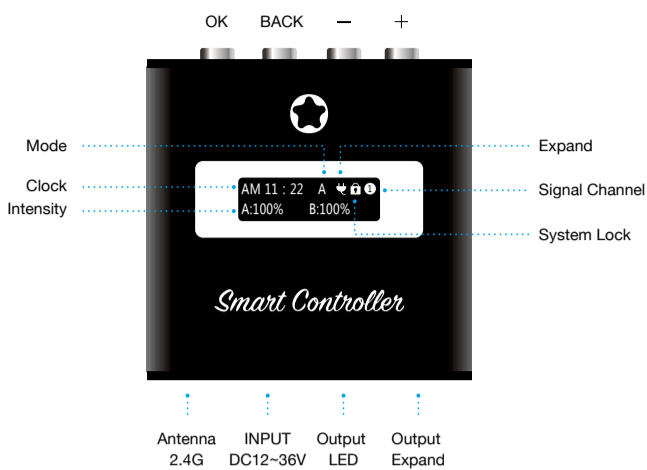❶ Assembly hanging kits

❷ Lock the THOR to the hanging bracket

❸ Hang to the ceiling

IMOS 4.0 Smart Controller

OK   BACK   —   +

Mode
Clock
Intensity

AM 11 : 22   A   🔌🔒❶
A:100%   B:100%

Smart Controller

Expand
Signal Channel
System Lock

Antenna 2.4G | INPUT DC12~36V | Output LED | Output Expand

Special Function 1: Hold on "**OK**" 3 second under locked to switch **Auto** & **Manual Mode** quickly.
Special Function 2: Hold on "**BACK**" 3 second to unlock and lock system.
Special Function 3: Hold on "**OK**" + "**BACK**" turn to the **Receiver Mode** quickly.

Note: "**A**" = Auto Mode, "**M**" = Manual Mode, "**A:100%**" = Intensity for each Channels
" 🔒 " = Locked, " 🔓 " = Unlocked, " 🔌 " = Expand ON, " ❶ " = Channel Signal.

Smart Controller Menu Overview

| Quick Set
Auto Mode | Manual Mode
Broadcaster | Receiver
Expand | Settings |

Quick Set

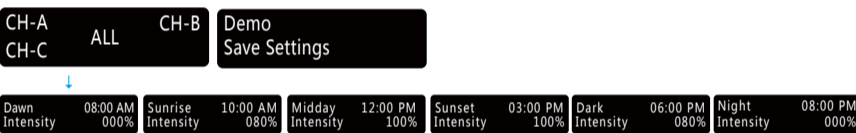| SPS - 20K
LPS - 15K | Mixed Reef
Green Planted | Red Planted
Mixed Planted | Refugium
DIY 1 |

There are 7 presets for quick set your lighting, and prepare 3 DIY presets, you can save the customize settings as you like.

Auto Mode

| CH-A   CH-B
CH-C   ALL | Demo
Save Settings |

| Dawn
Intensity | 08:00 AM
000% | Sunrise
Intensity | 10:00 AM
080% | Midday
Intensity | 12:00 PM
100% | Sunset
Intensity | 03:00 PM
100% | Dark
Intensity | 06:00 PM
080% | Night
Intensity | 08:00 PM
000% |

The Channel A, B, C have 6 time points and can be adjust the intensity for each channels.
Note: If select "ALL" to set, then all the channels will overwrite as the "ALL" settings.
DEMO: The DEMO will show all your settings in 1 minute.
Save Settings: You can save the current settings to the DIY1, 2, 3.

Manual Mode

| A:100%   B:100%
C:100%   ALL |

The Manual Mode is easy to set the intensity from 1~100% for all or separate channels.

Linkage Mode (Broadcaster - Receiver)

| Broadcaster
Receiver | Signal   CH 1
Pairing   YES | Pairing... | → | AM 11 : 22   A   🔌🔒❶
A:100%   B:100% |

Broadcaster (Father): Use one controller as the Broadcaster to control the other controller direclty.
Signal: There are 9 signals optional, so you can setup 9 controller as Broadcaster to pairing.
Note: Eanble the Broadcaster will show the channel signal number on home screen.

| Broadcaster
Receiver | Pairing Mode
Pairing... | → | Receiver
Paired   CH 1 |

Receiver (Child): Switch to receiver will connect automatically when Broadcaster turn on.
Signal: The controller Home Screen will only show "Receiver" and the Pairied Signal number.
Note: The 2.4G antenna signal covers is about 5 square meters, unavailable wall penetrating.

Expand

| Enable   YES
Power   100% | Start Time   08:00 AM
End Time   08:00 PM |

The Expand plug which are adapt for more devices such as Pump, Fan, Valve etc.
You can use the timer to turn the expand devices ON/OFF easily, the power is available to adjust the speed for fan, intensity for lights and energy for valve.

Settings

| Set Clock
Languages | 24 HOUR
Factory Reset |

Set Clock: Set the controller time as your local time.
Languages: There are two languages optional "English" and "Chinese"
24 HOUR: You can switch 24 HOUR or AM/PM mode as you like.
Factory Reset: Reset all settings as default once your system got some chaos.

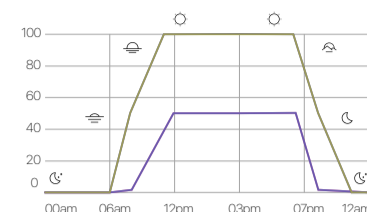### 24 Hours Lighting Cycle Overview
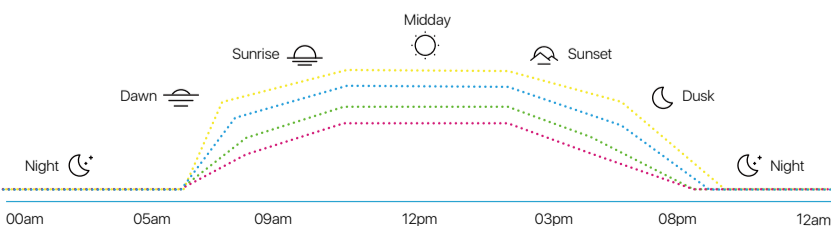
The Control system will gradually ramp the intensity of LED between set points.
The graph below outlines how the LEDs will ramp up and down between settings.
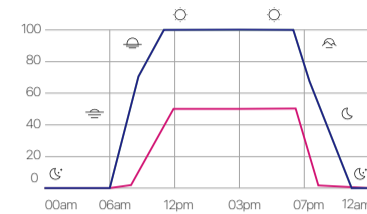
Preset (Quick Set)

SPS 20K - Heavy Blue

	Dawn	Sunrise	Midday	Sunset	Dusk	Night
Channel A	0% @ 6:00AM	1% @ 8:00 AM	50% @ 12:00PM	50% @ 5:00 PM	1% @ 8:00 PM	0% @ 10:00 PM
Channel B	0% @ 6:00AM	100% @ 7:00 AM	100% @ 12:00PM	100% @ 5:00 PM	50% @ 8:00 PM	0% @ 10:00 PM
Channel C	0% @ 6:00AM	50% @ 8:00 AM	100% @ 12:00PM	100% @ 5:00 PM	50% @ 8:00 PM	0% @ 10:00 PM
Channel D	0% @ 6:00AM	1% @ 8:00 AM	50% @ 12:00PM	50% @ 5:00 PM	1% @ 8:00 PM	0% @ 10:00 PM

LPS 15K -White + Blue
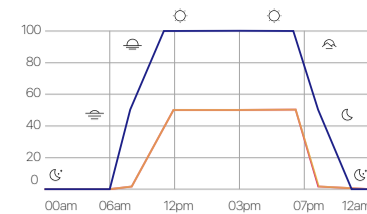
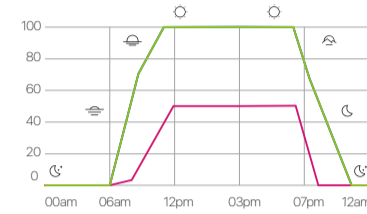|	Dawn	Sunrise	Midday	Sunset	Dusk	Night
Channel A	0% @ 6:00AM	50% @ 8:00 AM	100% @ 12:00PM	100% @ 5:00 PM	50% @ 8:00 PM	0% @ 10:00 PM
Channel B	0% @ 6:00AM	50% @ 7:00 AM	100% @ 12:00PM	100% @ 5:00 PM	50% @ 8:00 PM	0% @ 10:00 PM
Channel C	0% @ 6:00AM	1% @ 8:00 AM	50% @ 12:00PM	50% @ 5:00 PM	1% @ 8:00 PM	0% @ 10:00 PM
Channel D	0% @ 6:00AM	1% @ 8:00 AM	50% @ 12:00PM	50% @ 5:00 PM	1% @ 8:00 PM	0% @ 10:00 PM

Mixed Reef - 10K White + Blue

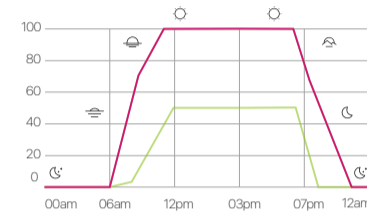|	Dawn	Sunrise	Midday	Sunset	Dusk	Night
Channel A	0% @ 6:00AM	50% @ 8:00 AM	100% @ 12:00PM	75% @ 5:00 PM	50% @ 8:00 PM	0% @ 10:00 PM
Channel B	0% @ 6:00AM	50% @ 7:00 AM	100% @ 12:00PM	75% @ 5:00 PM	50% @ 8:00 PM	0% @ 10:00 PM
Channel C	0% @ 6:00AM	50% @ 8:00 AM	100% @ 12:00PM	75% @ 5:00 PM	50% @ 8:00 PM	0% @ 10:00 PM
Channel D	0% @ 6:00AM	1% @ 8:00 AM	50% @ 12:00PM	50% @ 5:00 PM	1% @ 8:00 PM	0% @ 10:00 PM

Green Planted - WRGB

	Dawn	Sunrise	Midday	Sunset	Dusk	Night
Channel A	0% @ 6:00AM	100% @ 8:00 AM	100% @ 12:00PM	100% @ 5:00 PM	100% @ 8:00 PM	0% @ 10:00 PM
Channel B	0% @ 6:00AM	10% @ 7:00 AM	10% @ 12:00PM	10% @ 5:00 PM	10% @ 8:00 PM	0% @ 10:00 PM
Channel C	0% @ 6:00AM	100% @ 8:00 AM	100% @ 12:00PM	100% @ 5:00 PM	100% @ 8:00 PM	0% @ 10:00 PM
Channel D	0% @ 6:00AM	10% @ 8:00 AM	10% @ 12:00PM	10% @ 5:00 PM	10% @ 8:00 PM	0% @ 10:00 PM

Red Planted - WRGB

	Dawn	Sunrise	Midday	Sunset	Dusk	Night
Channel A	0% @ 6:00AM	90% @ 8:00 AM	90% @ 12:00PM	90% @ 5:00 PM	90% @ 8:00 PM	0% @ 10:00 PM
Channel B	0% @ 6:00AM	80% @ 7:00 AM	80% @ 12:00PM	80% @ 5:00 PM	80% @ 8:00 PM	0% @ 10:00 PM
Channel C	0% @ 6:00AM	20% @ 8:00 AM	20% @ 12:00PM	20% @ 5:00 PM	20% @ 8:00 PM	0% @ 10:00 PM
Channel D	0% @ 6:00AM	100% @ 8:00 AM	100% @ 12:00PM	100% @ 5:00 PM	100% @ 8:00 PM	0% @ 10:00 PM

Mixed Planted - WRGB

	Dawn	Sunrise	Midday	Sunset	Dusk	Night
Channel A	0% @ 6:00AM	80% @ 8:00 AM	80% @ 12:00PM	80% @ 5:00 PM	80% @ 8:00 PM	0% @ 10:00 PM
Channel B	0% @ 6:00AM	80% @ 8:00 AM	80% @ 12:00PM	80% @ 5:00 PM	80% @ 8:00 PM	0% @ 10:00 PM
Channel C	0% @ 6:00AM	80% @ 8:00 AM	80% @ 12:00PM	80% @ 5:00 PM	80% @ 8:00 PM	0% @ 10:00 PM
Channel D	0% @ 6:00AM	80% @ 8:00 AM	80% @ 12:00PM	80% @ 5:00 PM	80% @ 8:00 PM	0% @ 10:00 PM

Refugium Planted - WRGB
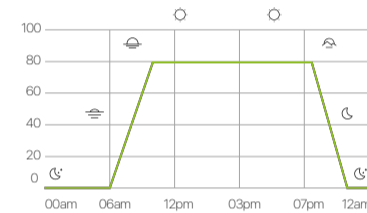
	Dawn	Sunrise	Midday	Sunset	Dusk	Night
Channel A	25% @ 6:00AM	0% @ 8:00 AM	0% @ 12:00PM	0% @ 8:00PM	25% @ 10:00 PM	100% @ 00:00 AM
Channel B	50% @ 6:00AM	0% @ 8:00 AM	0% @ 12:00PM	0% @ 8:00PM	50% @ 10:00 PM	100% @ 00:00 AM
Channel C	25% @ 6:00AM	0% @ 8:00 AM	0% @ 12:00PM	0% @ 8:00PM	25% @ 10:00 PM	100% @ 00:00 AM
Channel D	100% @ 6:00AM	0% @ 8:00 AM	0% @ 12:00PM	0% @ 8:00PM	100% @ 10:00 PM	100% @ 00:00 AM
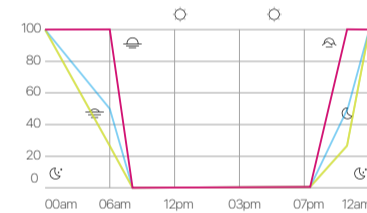
Information

ATTENTION: Never put the light and the smart controller in the water. Doing so will dangerous and damage your light.

WARNING: Do not touch the lights body when it working which will generate heat and may let your hands uncomfortable.

WARNING: Make sure all the cables are connected before plug to electricity or will damage your light.

Important Handling Information

NOTICE: Failure to follow these handling instructions could result in damage to your Light or other property.

Carrying your Light before you move your Light, shut it down and disconnect all cables and cords connected to it. Using power cord Never force a connector into a port. Don't put the power cord into your tank when it connected. When you Setup your Light please make sure that it locate power supply where it will not be exposed to any water or moisture.

Mount your power supply where it won't get wet. Include a "drip loop" - a tied loop of cord hanging down below the level of the electrical outlet. That way, if water happens to run down the cord from the tank, it will drip off onto the floor rather than into the outlet. Drip Loops should always be used to help prevent water from traveling along the cord and coming into contact with an electrical outlet. Drip loops must always be below the level of the outlet. If the plug or outlet does get wet, DO NOT TOUCH the cord.

Storing your Light If you are going to store your Light for an extended period of time, keep it in a cool location (ideally, 71° F or 22° C).

When cleaning the outside of your Light, first shut down your Light and unplug the power cord. Then use a damp, soft, lint-free cloth to clean the lamp exterior. Avoid getting moisture in any openings. Do not spray liquid directly on the lamp. Do not use aerosol sprays, solvents, or abrasives that might damage the finish.

MicMol and the Environment

MicMol. recognizes its responsibility to minimize the environmental impact of its operations and products.

Warranty

MicMol warrants all MicMol products to be free from manufacturing defects for one year from the original purchase date when purchased through an authorized MicMol retailer. This warranty does not cover any damages caused by misuse, neglect, alterations or improper handling / transport / maintenance / installation. Physical damages are not covered by warranty. MicMol does not cover personal injury, personal loss, or other damages associated with the use of our products. In order to request warranty service, please email us at support@micmol.com. A purchase receipt is required for any warranty service. Products requiring warranty service must be returned to MicMol or authorized MicMol retailer. You are responsible for the cost of shipping a warranty claim to MicMol and any damages that may occur during transit. Once a returned product has been inspected, it will be repaired or exchanged at our discretion and returned to you. Thank you very much.

Warranty Card

Product Name: _____
Product Mode: _____
Dealer Name: _____
Dealer Tel: _____
Purchase Date: _____
User Name: _____
User Tel: _____