



**Panoramic Wall Aquarium &
Screen / See-Thru Aquarium
User Manual**

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Overview

1. Please read this instruction manual prior to setting up or operating the aquarium.
2. Failure to follow any of the Safety Instructions below will result in the voiding of any warranty for the product and will release dealer and our company from all responsibility and liability.
3. If you have any questions or require after sales service, please contact your distributor or our company.
4. Please check the product prior to use, our company will not be responsible for the any damage caused during transportation or maintenance cost.

Important Safety Instructions

NEVER TURN ON THE POWER OF THE AQUARIUM BEFORE FILLING THE WATER TO THE DESIGNATED WATER LEVEL. Powering the aquarium on without water may lead to the dry-burning of the water pumps and the heater which may lead to fire or damage to the aquarium or bodily harm

WARNING:

TO GUARD AGAINST INJURY, BASIC PRECAUTIONS MUST BE OBSERVED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING. NEGLECTING FOLLOWING THIS USER MANUAL MAY RESULT IN SERIOUS INJURIES OR DAMAGE TO THIS AQUARIUM. IF YOU HAVE ANY QUESTIONS OR REQUIRE REPAIR, PLEASE CONTACT YOUR LOCAL AUTHORIZED DEALER OR OUR COMPANY.

WARNING:

ANY UNAUTHORIZED REPAIR OR MODIFICATION WILL VOID ANY WARRANTY AND RELEASE THE MANUFACTURER AND DISTRIBUTOR OF ALL LIABILITIES OR ANY DAMAGES CAUSED BY THE PRODUCT. MODIFICATION FISH KEEPING OR SIMILAR APPLICATION

- Never try to modify any parts by any means for this may result in fire, damage, electric shock or injuries. Internal inspection, repair and maintenance should be carried out by local distributors or suppliers.
- Never use this product near inflammable gases which will increase the danger of electric shock.
- Please make sure the tank is securely hung onto the brackets before operating. Do not turn on or operate the aquarium if the electrical components or power supply has gotten water to avoid short circuit and electric shock.
- For the most secure hanging, make sure that the aquarium mounting brackets are safely secured to the wood or cement studs in the wall.
- Always turn off and unplug the aquarium when performing routine maintenance.
- Please follow the operation guide and gradually fill in water from the top of body tank. Avoid splashing the water onto the aquarium controller or control panel.
- Never hang or remove the aquarium when full of water. It is recommended to fill up the aquarium with water after the aquarium has been safely hung and attached to the steel mounting brackets in order to avoid personal body injury.
- Children should not be allowed to play near the aquarium in order to avoid any hitting, injuries, or causing damage to the aquarium.
- Please clean the outer frame gently with soft cloth. Never use an abrasive material or chemical cleaner to clean the surface of the aquarium to avoid scratches. Please use the special sponge to clean the inside aquarium gently.
- If there is any problem with the unit, do not attempt repairs yourself. Please contact the authorized dealer or our company. Repairing the unit yourself may result in potential injury or harm. The Company will not be liable for such responsibility.

- This product comes with a six-month warranty on electric parts (excluding light bulbs and carbon dioxide supplier) and one year on the tank body. (See Product Warranty for details).
- ★ All descriptions and data in this manual are subject to change without prior notice

I. Wall-Mounted Aquarium & Screen Aquarium Overview

NOTE:

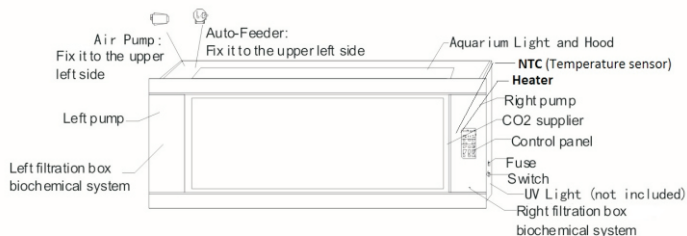
FOR ILLUSTRATION PURPOSES, THE AQUARIUM CONTROL PANEL IN THIS MANUAL WILL APPEAR ON THE FRONT OF AQUARIUM



(Figure 1)

- * LCD Touch screen Control Panel
- * Super-Silent Water Pump
- * Intelligent Thermostat
- * Fluorescent Lighting
- * UV Light (Not Included)
- * Auto-feeder
- * Super-Silent Air Pump
- * Biochemical filtration system
- * Carbon Dioxide (CO₂) Supplier

1. Main Body (With LCD panel)



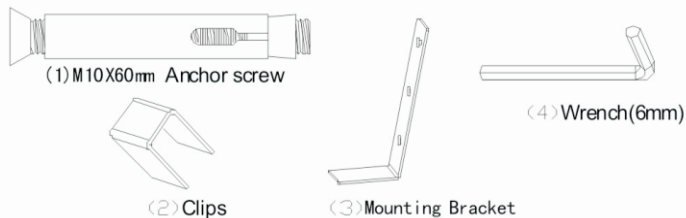
(Figure 2) Main Profile

Important:

The air pump and auto feeder are not water submersible and can not be dipped into the water. The water pumps, CO2 generator, and heater are water submersible and must be operated only underwater in order to avoid dry burning.

II. Accessories for Wall-mount Aquarium

1. Mounting Hardware (Figure 3)



(Figure 3) Mounting Hardware Included

WALL-MOUNTED CEMENT ANCHOR SCREWS: 6PCS

Wall-mounted fixing clips: 2pcs

Steel Mounting Bracket: 2pcs

Wrench: 1pc

NOTE:

THE ANCHOR SCREWS INCLUDED WITH THE AQUARIUM ARE SUITABLE FOR CEMENT WALLS ONLY. If you are securing to wood or metal studs, please use appropriate mounting hardware or consult an expert.

Remarks:

- Not all aquariums will have accessory screws. Screws included will only be suitable for cement wall. If the accessory screws are lost or damaged, please contact the distributor or the agent.
 - If the aquarium size is over 2180mm (or 7 ft), 3 mounting brackets, 3pcs clips, and 9pcs anchor screws are recommended for safe installation.
 - Additional mounting brackets and clips are available for purchase through your local dealer or distributor.
- Fish Care Accessories Included (Actual item sent will be comparable but may be different than pictures)

- Water Siphon (Picture 1)
- Fish Net (Picture 2)
- Extendable Claw (Picture 3)
- Algae Scraper (Picture 4)



(Picture 1) Water Siphon



(Picture 2) Fish Net



(Picture 3) Extendable Claw



(Picture 4) Algae Scraper

III. Wall-Mount Aquarium Installation Guide

IMPORTANT:

Do not hang the aquarium in an area that has large amounts of direct or indirect natural sunlight, as it will promote algae growth in the aquarium.

Step 1: Select the wall you want to hang the aquarium. Make sure that you select a wall that has studs that you can secure the mounting bracket to. Suggested height for hanging the aquarium is eye-level or approximately 1.3-1.4m.

Note: As the aquarium has a side-mounted LCD control panel on the right side, so it is recommended to leave enough room to access the side panel (recommended 12 inches)

Step 2: Figure 4 below provides approximate suggestion for determining the spacing of the mounting brackets.

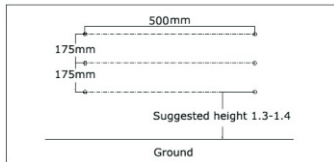


Figure for W1000

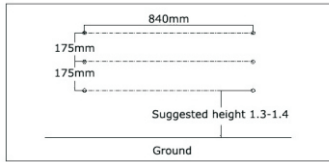


Figure for W1250 W1380
W1680 W1480P W1780P

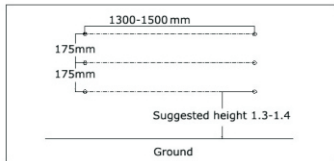


Figure for W1980 W2280
W2080P W3080P

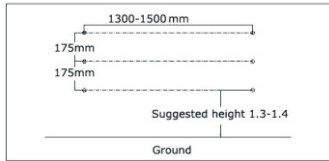
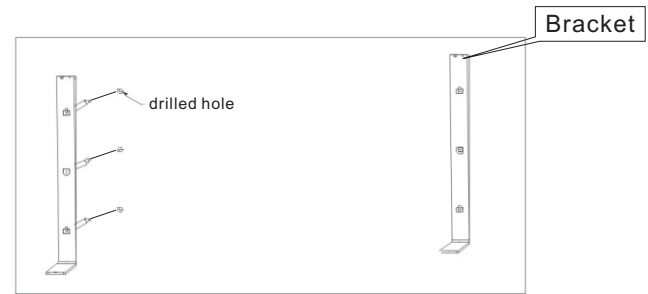


Figure for W2580 W2880
W2680P W2980P

(Figure 4) Suggested Mounting Height and Bracket Position

Step 3:

Locate STUDS in wall: Using a stud finder, identify the most solid portion of the wall, so that you can secure the mounting brackets to the wood studs. [For the cement screws / cement wall only: Drill holes of at least 80mm in depth one by one with a \varnothing 14mm impact drill. Fix the screws through the holes in the brackets, hammer the anchor screws into the wall, fasten the screws (M10*60mm) to the drilled holes with the wrench (Figure 5).] **ALL THREE HOLES IN THE BRACKET SHOULD BE USED AND PROPERLY SECURED.**



(Figure 5) Mounting Brackets (use screws in all six holes)

Step 4:

Use a Leveler to align brackets: Make sure the brackets are level, so that when aquarium is rested and hung onto the brackets, it will sit evenly and flat / parallel.

Step 5:

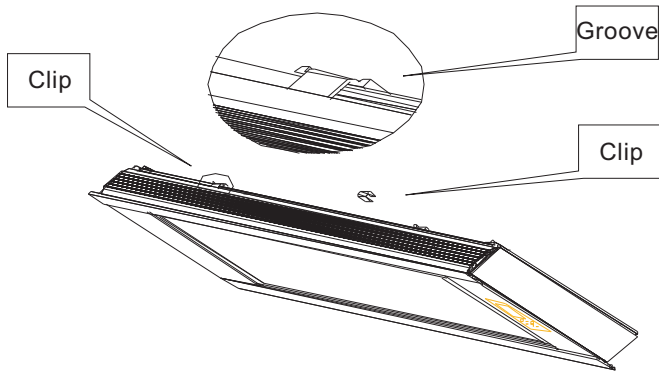
Make sure each screw is secured properly and will be able to bear the weight of the aquarium. **Note:** For walls which do not have enough hardness, first drill holes of 120mm deep and stuff them with high strength cements. When the cements are hardened, drill holes and fix the aquarium.

Step 6:

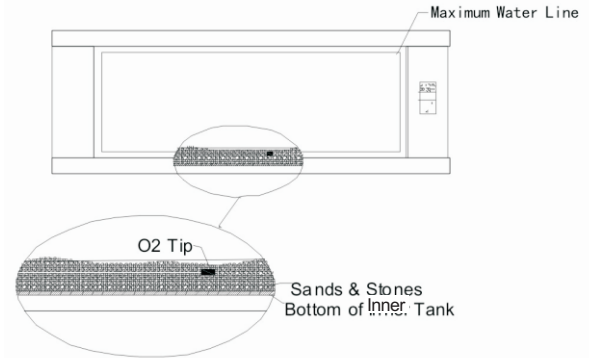
Secure Aquarium onto brackets and clips: Lift the aquarium on to the mounting brackets and fix the clips to the groove at the top of the aquarium and bracket (Figure 5). Make sure brackets are spaced properly apart and the aquarium's weight is properly distributed. The clips attach the aquarium to the mounting brackets and prevent the aquarium from tipping forward and should be fit securely to the top of the aquarium and the mounting bracket.

IMPORTANT:

Clips and Brackets should be parallel and flush to the top of the aquarium so that the aquarium will not tip forward.



(Figure 6) Bracket and Clips Assembly



(Figure 7) Inside Tank

Step 7:

Spread sand or gravel (not included) the bottom of inner tank for 40-55mm in depth (See Figure 7). Make sure you rinse the gravel prior to putting into the aquarium in order to remove excess dust particles.

Step 8:

Set up the Air Pump - Connect the O2 tube to the air stone in the middle of the tank bottom and cover with sands & stones. (Note: The air stone can be found in one of the boxes of accessories included with aquarium. Do not cover the air stone too deep into the sand & stones and be careful not to block the air flow.) (Decorative or other air stones can be used to connect to the air tube as well)

Step 9:

Decorate: Add decorations (live or fake aquatic plants) into the aquarium according to personal taste.

Step 10:

Add Water. Fill the aquarium with water from the upper-left side. Do not fill water from right side where LCD Control Panel and electronics is located to avoid getting any electrical components wet.

(IMPORTANT: Water should not exceed the Maximum water line or it will start to overflow from left side of the aquarium until back to Maximum water line)

NOTE:

We recommend using filtered or spring water when adding water to avoid excess minerals found in tap water. Tap water is acceptable, but typically tends to be harder. If you choose to use tap water, we recommend using aquarium salt to soften the water and add electrolytes that are better for the fish. Water conditioner should be used to remove any trace elements and chloramines found in the water.

Step 11:

Connect Waterproof Connectors: Connect the waterproof connectors, matching the male and female connectors. For your safety, we have intentionally disconnected some connectors.)

Step 12:

Turn on Aquarium Power.

Step 13:

Add Fish: After 48 hours of cycling the water in the aquarium, you can now add fish to build up the natural bacteria for optimal filtration. To cycle the aquarium, we recommend adding no more than 1 – 3 fish to start. Wait 4-6 weeks before adding more fish. Never add more than 2-3 fish at a time. Prior to adding new fish, we recommend changing 15% of the water in your aquarium to remove ammonia and nitrate build up. Maximum number of fish in the aquarium will vary, but we typically recommend no more than the generally accepted rule of 1 inch of fish per gallon of water.

Step 14:

Automatic Feeder: If you choose to use the automatic feeder, please monitor the quantity of food being fed to the fish. The feeder can be programmed to feed the fish multiple times in

the day. In the first week of the automatic feeder, please monitor the quantity of food being dropped into the aquarium to avoid overfeeding.

(Note: How much to feed? Only feed the fish the amount of food they can completely consume in a 3 minute timeframe. It is better to underfeed the fish than to overfeed the fish)

IV Screen Aquarium Installation Guide

1. Installation

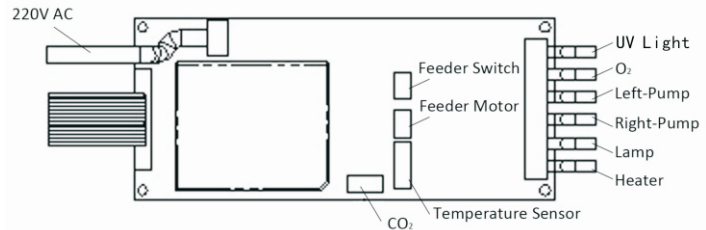
Step 1:

Place the cabinet of the screen aquarium on the smooth floor;

Step 2:

The screen aquarium is fixed with the rubber mats at the bottom. Put the aquarium on the cabinet, and make sure it is fixed to the cabinet firmly.

2. Instructions for Components Connections



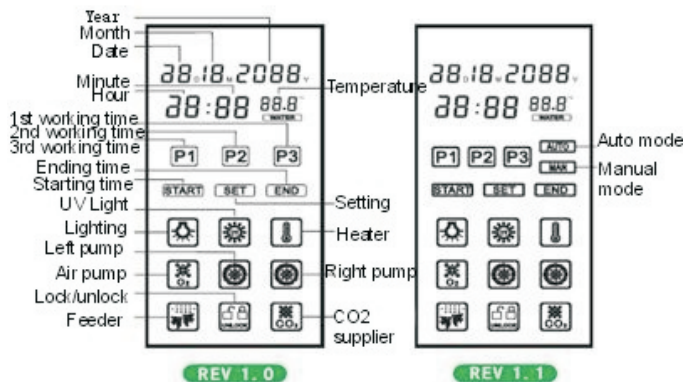
(Figure 8) Component Connection

Note:

The waterproof socket connectors of the fitting lines between controller outlets and component leads are matched and labeled to facilitate the connection of the aquarium's electronics.

V. Functions of the Electronic Panel

1. Icon and Display:



(Figure 9)

	Feeder		Heater		Unlock	WATER	Water temperature
	Left-pump		Air Pump	Y	Year	START	Starting time
	Right-pump		Lighting	M	Month	END	Ending time
	UV light		CO ₂ supply	D	Date	AUTO	Automatic Mode
P1	1 st working time	P2	2 nd working time	P3	3 rd working time	MAN	Manual Mode

2. Programming the Aquarium and LCD Display

2.1 LCD Unlock/Lock

The control panel will automatically LOCK to its default mode to avoid tampering or the settings being unintentionally changed. Any programming requires the LCD Display to be unlocked first.

Operation Instructions:

- The control panel automatically locks to prevent tampering. Prior to programming the aquarium control panel, the control panel must be unlocked.
- To unlock the control panel, touch unlock icon for 3 seconds to unlock the control panel. The control panel is unlocked and can be changed when the icon has changed to .
- All the changes to programming will be effective right away. Do not turn off the power supply before the control locks in order to save setting.
- The automatic function will be temporarily stopped while switching to manual mode.

2.2 Date/Time:

Aquarium must always be unlocked in order to program.

Operation Instructions:

Press the digital number corresponding to the number that you want to change until you have selected the correct figure. For instance :

- Press “year” Icon to adjust the year ;
- Press “month” Icon to adjust the month ;
- Press “date” Icon to adjust the day ;
- Press “time” icon to adjust the hour ;
- Press “minute” icon to adjust the minute.

Press once to increase by one unit, press longer to increase the numbers faster. If you pass the desired unit, keep pressing to start over. The above date and time settings are automatically saved after setting.

Note:






After the programming of date and time, the system will save the setting automatically after 10 seconds.

2.3 Lighting Control

Function description:

There are 3 programmable time cycles for the light. The default settings when the light will turn on are 9:00AM—11:00AM; 14:00PM—17:00PM; and 19:00PM—21:00 PM. Users can adjust the working period according to your need.

Operation Instruction:

- A) Manual Operation: Press lighting icon , when the icon flickers, the lighting function starts.
- B) Programming Instruction:
- (1) Press SET and
 - (2) press lighting icon  the    icon will be displayed,
 - (3) press P1 to set P1 starting time for the light. Press END to set the ending time.
 - (4) P2 and P3 are programmed in the same manner as P1.
- C) Touch SET icon to save the setting and exit the light programming screen

Note:

The light provides illumination for the aquarium and to provide adequate light for the growth of most live plants. It is recommended to keep the light under 6-8 hours per day. Over lighting can lead to increased algae growth and higher water temperature.

Warning:




The lighting system should not touch water and is not to be submerged into the water. Lamps should be above the water at least 15mm, or it may cause injury and damage to the aquarium.

2.4 Air Pump

Function description:

There are 3 programmable periods for the air pump. The default settings are 9:00AM—11:00AM, 14:00PM—16:00PM, and 19:00PM—21:00PM.

Operation Instruction:

- (A) Manual Operation: Press O2 supply icon , the icon flickers, the air pump starts to work.
- (B) Programming Instruction: To change the default setting,
- (1) press SET icon, and then press O2 icon .
 - (2) When P1, P2, P3 icon  display, press P1 to set the starting time.
 - (3) Press the END icon to set the ending time.
 - (4) P2 and P3 programming method is the same as programming P1.
- (C) Press SET icon to save the setting.
- (D) If you need to stop the working period of P1, P2, P3, you can press the END digital for 5 seconds when the P1, P2 or P3 are flickering. Press START for 5 second to re-start and the time of OFF can restore to display.

WARNING:

The air pump supplier cannot be placed in the water; it should be placed at least 15mm above water level.

2.5 UV Light (NOT INCLUDED BUT WILL BE AVAILABLE FOR

PURCHASE AS AN OPTIONAL ACCESSORY) (Please contact your distributor for more information)

Function description:

The ultraviolet lamp sterilizes the aquarium water and can help to kill the pathogen and algae in the water. The default working time is 21:00PM—0 : 00AM.

Operation Description:

Refer to air pump description.

CAUTION:


The UV light should be placed inside the filtration box and kept away from direct exposure to fish and human eyes in order to avoid any injuries.


2.6 Heater

Function description:

- (A) The default temperature is 25°C. When the thermostat of the heater detects that the water is below the preset temperature, the heater will work automatically till the water reaches the preset temperature.
- (B) While the heater is operating, the water pump will work at the same time to cycle the warmed water.
- (C) If you are keeping tropical fish, the recommended temperature setting is between 24°C–27°C. If you are keeping goldfish, the 16°C should be adequate.

Operation Instruction:

- (A) Press heater icon  , the icon of temperature digits flickers; to change the default setting, press SET icon,

then press heating icon  . When the icon and water temperature flicker, touch the temperature to change the parameter; then press SET to save the heater temperature setting.

- (B) Users can adjust the temperature according to the species of fish. The adjustable temperature range is from 16°C to 32°C.

IMPORTANT:

- (A) Heater should only be operated underwater and should never be turned on or powered outside of the water
- (B) Heater should work together with circulation filtration system;
- (C) When the preset temperature is the same or lower than the current temperature display on the LCD panel, the heater will not turn on.
- (D) The heater in the aquarium should keep the water above the set temperature. It does not act as a chiller, so if the water temperature is above the programmed temperature setting, the heater will remain off, and the aquarium temperature may read higher than the programmed temperature. (Note: Most likely, the aquarium water will stay around ambient room temperature (typically a few degrees above).)

2.7 Water Pumps Circulation Filtration/Biochemical Function

The water pump promotes biochemical filtration and has a default program that is set to work for 24 hours every day, sometimes alternating cycles.



IMPORTANT:

The water pump cycle cannot be programmed nor changed by users.

Overview:

- A) The filtration materials include biochemical fiber sponge and biochemical balls. The sponge should be replaced every 3 months; which will enhance filtration and help the survival and reproduction of nitrifying bacteria (converts harmful ammonia to less harmful nitrates / nitrites).
- B) Biochemical balls are inserted into the sponge which help purify the water and provide extra surface area for the nitrify bacteria to produce. They should be taken out and cleaned every 3 months.
- C) The filter pump should never be operated outside of the water. Working beyond the water might cause damage to it or for it to burn out.
- D) If manually turned off, the water pump will temporarily stop for no longer than 30 minutes. After 30 minutes, the water pump will get back to work again.
- E) The pumps will turn off for 10 mins when the automatic feeder is turned on in order to not disturb the food while the fish eat. (Note: The right pump will not stop if the heater is working.)

To Turn the Water Pump On/Off Manually:

The pump is pre-programmed and must stay on factory settings. However, the water pump can be manually turned on or off. To manually  operate a pump, press the pump icon: the icon flickers  while the water pump is working and will not flash if it is turned off.

Please note that the water pumps will both shut off when the automatic feeder operates.

CAUTION:

The water pump must only be operated under water. Operating the water pump outside of water can result to damage to the water pump and possibly lead to electrical shortage or fire.




The water pump should be installed in the filter box and should not less than 15mm deep into the water from the top, or it will affect the working life of the device.

2.8 Auto Feeder

Function Description:

The default feeding time is at 9:00 AM and at 17:00 PM.

Operation Description:

- (A) Manual Operation: Touch icon  , when icon flashes, the function starts;
- (B) Programming Instruction:
 - (1) Touch SET icon, while SET icon flashes;
 - (2) touch icon  , the P1 and P2 icon  will appear,
 - (3) touch P1 to set the starting time of P1, and the same with P2. (The feeder will automatically rotate one time to feed the fish, so there is no need to set the ending time.)

IMPORTANT:

- (A) While the feeder is working, the water pump and heater will automatically stop for 10 minutes, so that the fish food will not be disturbed by the filtration system.
- (B) In order to avoid over feeding, the feeder can be set for maximum 3 times, if you need to set feeding for more than 3 times, please restart the control panel and set again. However, we recommend feeding 1 time per day as adequate.
- (C) Overfeeding can lead to increased nutrients and harmful ammonia and nitrates in the aquarium water which is harmful to the fish.
- (D) Only feed your fish what they can consume in 2 minutes.

2.9 Carbon Dioxide (CO₂) Supplier

The CO₂ supplier should be installed on the right side inside the aquarium below the water pump outflow.









IMPORTANT NOTE: The CO₂ supplier should only be used if you intend to keep live plants in your aquarium. Otherwise, it does not need to be put into the aquarium. If used, the CO₂ supplier should be replaced approximately every 10 – 12 weeks. Replacement CO₂ suppliers can be purchased from your distributor or from our Company.

Function Description:

The Carbon Dioxide (CO₂) supplies CO₂ to live aquatic plants to promote photosynthesis and healthy growth.

IMPORTANT: The CO₂ supplier must work underwater. Operating the CO₂ above water may cause malfunction.

Operation Description:

- (A) Manual Operation: Touch  icon, when the icon flashes, the function starts;
- (B) Programming Instruction:
- Touch SET icon, and touch  icon while SET icon flashes, the P1, P2 and P3 icons    will appear,   
 - touch START to set the starting period. (Carbon-dioxide generator will automatically work together with lighting system, so if the CO₂ turns on, the light will automatically turn on with the programmed CO₂ cycle in order to promote photosynthesis. For best effect, please program CO₂ to match normal programmed lighting cycle.)

IMPORTANT:

- The CO₂ supplier helps the growth of aquarium plants by providing valuable CO₂ for photosynthesis. It does not replace other nutrients that the aquarium plants will need.
- If you do not plan on keeping live plants, the CO₂ supplier can be removed.
- If you want to manually turn off the CO₂ generator, please press END icon while it is operating to stop this function.

2.10 Manual Operation

The aquarium can be manually controlled, so all operations can be started or stopped manually. Any function started manually will run for 30 minutes and then return to automatic state.

Operation Instruction:

- Turn on function: Press the unlock icon for 3 seconds, the icon flickers with buzzing, which means the operation panel have started. Press any function icon, the icon flashing, which means the function has been started.
- Turn off function: Press the unlock icon for 3 seconds, the icon flickers with buzzing, which means the operation panel have started. Press any function icon that is flashing, the icon will stop flashing, which mean the function has been started.

Note:

The control panel will save any setting automatically. If you want to restore the aquarium to default settings, please press SET icon for 5 seconds.

- 11 Selection of Automatic Mode and Manual Mode (For LCD panel with Manual mode)

Function Description:

We provide automatic mode and manual mode for LCD panel with Manual mode; you can choose either mode according to your need.

Operation Description:

- (A) Touch AUTO icon, while icon flashes, automatic mode is selected.
- (B) Touch MAN icon, while icon flashes, manual mode is selected. Under manual mode, all the functions are operated by manual.
- (C) The default setting is in automatic mode, you can choose manual mode according to your needs.

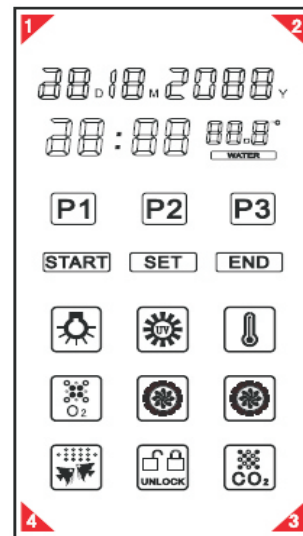
2.12 Calibrating the LCD Touch Screen

If the keypad is not responding properly to your touch, it may be necessary to calibrate the touch screen keypad.

Instruction:

- (A) Step 1: Cycle the aquarium power on and off two times: Turn the power switch on and off two times within 10 seconds. After the second time the power is turned on, the LCD screen will enter the screen calibration mode with flickering and beep continuously.
- (B) Step 2: Calibrate the LCD Screen Keypad: Touch the four corners of LCD screen using your finger, press the four corners of the LCD screen starting with the upper left corner proceeding clockwise (as shown in Figure 10). The screen will flicker with a beep when you touch the correct place in each corner. After touching the four corners, the system will automatically save the new calibration and restore to the normal display after a few seconds.

- (C) If the calibration is not successful, please repeat the above procedures.
- (D) If screen calibrate is not required, do not touch the screen after you enter the screen calibration mode. The system will exit the calibration mode automatically and restore to normal display after 5 seconds.






(Figure 10: The position of four corners of screen calibration)

2.13 Restore to Factory Settings

After unlocking the screen, press SET icon for 5 seconds, the control panel will turn off, and switch on the control panel after 3 seconds, default settings will be restored.

VII. Appendix

1. Malfunction Alarm

Reasons of Malfunction	Malfunction Indication	Solutions for Malfunction
Water Temperature	E3 Alarm sound  with	Malfunction of water temperature thermostat (NTC), please check the wiring of the detector or change a new detector.
	E2 Alarm  per 5 minutes	Heater is damaged or the water temperature is not reaching the programmed value, manually stop the alarm.
	E1 Alarm sound  with	There will be an alarm when the temperature is above 35°C, please notice that the ambient temperature is too high.

2. Technical Parameters

2.1 Wall aquarium Technical Parameters

Item	Unit	Wall-mount Aquarium Model Number							
		1000	1250	1380/1480	1680/1780	1980/2080	2280/2380	2580/2680	2880/2980
Meas.	MM	1000*150*600	1250*150*600	1380*150*600	1680*150*600	1980*150*600	2280*150*600	2580*150*600	2880*150*600
Lighting	W	14*2	6*2+14*2	21*2	28*2	35*2	21*4	21*2+28*2	28*4
Heater	W	300	300	300	300	300	300	300	300
Water Pump	W	1.2M, 1000L/H, 18W						1.4M, 25W, 1200L/H,	
O ₂	W	1.2L/min, 2W							
Feeder	V	DC12V, 30Ma							
CO ₂	V	DC12V, 4W							
Liters	L	110	156	185	204	243	272		
G. W	KG	68	81	98	105	118	134		
N. W	KG	54	66	78	90	102	114		

Liters	L	55	70	76	94	110	129	146	163
G.W	KG	40	46	50	58	69	76	88	99
N.W	KG	36	41	45	53	62	70	79	89

2.2. Screen Aquarium Technical Parameters

Item	Unit	Screen Aquarium Model Number					
		FA/C-1380/1480	FA/C-1680/1780	FA/C-1980/2080	FA/C-2280/2380	FA/C-2580/2680	FA/C-2880/2980
Size	MM	1340*200*700	1640*200*700	1940*200*700	2240*200*700	2540*200*700	2840*200*700
Item	Unit	FB-1380	FB-1680	FB-1980	FB-2280	FB-2580	FB-2880
Size	MM	1400*200*700	1700*200*700	2000*200*700	2300*200*700	2600*200*700	2900*200*700
Lamp	W	21*2	28*2	35*2	21*4	21*2+28*2	28*4
LCD	V	AC85~264					
Heater	W	300					
Fuse	A	10					
Pump	W	1.4M, 1200L/H, 25W					
O ₂	W	1.2L/min, 2W					
Feeder	V	DC12V, 30Ma					
CO ₂	V	DC12V, 4W					
Liters	L	110	156	185	204	243	272
G. W	KG	68	81	98	105	118	134
N. W	KG	54	66	78	90	102	114

3. Maintenance and Trouble Shooting

Item	Cause	Solutions
Algae Growth in Aquarium and/or Water	<input type="checkbox"/> Too much natural sunlight in room where aquarium is located <input type="checkbox"/> Overfeeding or need to maintain <input type="checkbox"/> No live plants but CO2 continues to operate	<input checked="" type="checkbox"/> Make sure aquarium is not hung in direct sunlight or well lit room with lots of ambient sunlight ; <input checked="" type="checkbox"/> Clean algae thoroughly when planting aquatic plants and ; <input checked="" type="checkbox"/> Reduce the lighting time at the same time ; <input checked="" type="checkbox"/> Feed the fish only one time per day and only what they can consume in 2 minutes ; <input checked="" type="checkbox"/> Add plecostamus or other algae eating fish. (Snails are not recommended, as they reproduce too quickly) ; <input checked="" type="checkbox"/> Remove CO2 generator ;
Turbid water in the aquarium	<input type="checkbox"/> Filter sponges need to be cleaned.	<input checked="" type="checkbox"/> Clean the filter (see the structure of the filter) ;
	<input type="checkbox"/> Filtrating pump is not operating	<input checked="" type="checkbox"/> Check connection of waterproof connectors ; <input checked="" type="checkbox"/> Change the component to smaller water pump
Unstable water temperature	<input type="checkbox"/> Heater damaged <input type="checkbox"/> Aquarium temperature reading is high	<input checked="" type="checkbox"/> It is normal for the aquarium temperature to be a few degrees above room temperature ; <input checked="" type="checkbox"/> Inspect heater to make sure it is

No bubbles when the air pump is working.	<input type="checkbox"/> Air pump is not pumping air or pumping very few bubbles	<input checked="" type="checkbox"/> Air stone or tubing is clogged or has kink ; <input checked="" type="checkbox"/> The air stone is buried too deep in water ; <input checked="" type="checkbox"/> Shift sand/gravel to make sure it is not covered too deep ; <input checked="" type="checkbox"/> Replace air pump;
Carbon dioxide not producing bubbles	<input type="checkbox"/> Carbon rod is depleted	<input checked="" type="checkbox"/> Replace CO2 supplier (suggested replacement every 400 hours) ;
Unable to save settings in control panel	<input type="checkbox"/> Backup battery of the main board is used out	<input checked="" type="checkbox"/> Reset control panel to default setting and try again ; <input checked="" type="checkbox"/> Replace battery on control panel
Darkening or dim lighting	<input type="checkbox"/> Light bulb has burned out	<input checked="" type="checkbox"/> Replace light bulb ;

Remarks:

It is strongly suggested that users do not choose electronic components randomly but buy the special waterproof parts from our distributors/agents.

4. Maintenance of Filter

- 1) Switch off power supply, screw off the water-proof connectors of the left and right water pumps, heater, O2 supplier and other electronic spare parts.
- 2) Take out the rubber cover of the left and right filter, and take out the filter, heater, biochemical fiber, UV light one by one.
- 3) Clean the filter.
- 4) Install the filter equipment and rubber cover of the filter one by one and connect to waterproof connector according to the label.

PRODUCT WARRANTY

HIMAT ELECTRICAL APPLIANCE CO., LTD provides a LIMITED WARRANTY of six months on electronic parts and ONE YEAR against tank leakage. Please contact our representatives directly should you need any service or assistance with your aquarium prior to return.

1. WARRANTY COVERAGE

HIMAT warranty obligations are limited to the terms set forth below: HIMAT, as defined below, warrants this HIMAT-branded hardware product against defects in materials and workmanship under normal use for a period of SIX MONTHS/ ONE YEAR from the date of production (Warranty Period). If a hardware defect arises and a valid claim is received within the Warranty Period, at its option, our representative will either (1) repair the hardware defect at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product (under HIMAT discretion). HIMAT may request that you replace defective parts with new or refurbished user-installable parts that HIMAT provides in fulfillment of its warranty obligation. A replacement product or part, including a user-installable part that has been installed in accordance with instructions provided by HIMAT, assumes the remaining warranty of the original product or THIRTY (30) days from the date of replacement or repair, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes HIMAT's property. Parts provided by HIMAT in fulfillment of its warranty obligation must be used in products for which warranty service is claimed. Customer assumes all the shipping and handling cost.

2. EXCLUSIONS AND LIMITATIONS

This Limited Warranty applies only to hardware products manufactured by HIMAT or for HIMAT representatives that can be identified by the "HIMAT" trademark, trade name, or logo affixed to them. The Limited Warranty does not apply to any non-HIMAT hardware products or any software, even if packaged or sold with HIMAT hardware. Manufacturers, suppliers, or publishers, other than HIMAT, may provide their own warranties to the end user purchaser, but HIMAT, in so far as permitted by law, provides their products "as is". Software distributed by any of our dealer with or without the HIMAT brand name (including, but not limited to system software) is not covered under this Limited Warranty. Refer to the licensing agreement accompanying the software for details of your rights with respect to its use.

HIMAT does not warrant that the operation of the product will be uninterrupted or error-free. HIMAT is not responsible for damage arising from failure to follow instructions relating to the product's use.

This warranty does not apply:

- (a) to damage caused by use with non-HIMAT products;
- (b) to damage caused by accident, abuse, misuse, flood, fire, earthquake or other external causes;
- (c) to damage caused by operating the product outside the permitted or intended uses described by HIMAT;
- (d) to damage caused by service (including upgrades and expansions) performed by anyone who is not a representative of HIMAT;
- (e) to a product or part that has been modified to significantly alter functionality or capability without the written permission of HIMAT;
- (f) to consumable parts, such as light bulbs and fuse
- (g) if any HIMAT serial number has been removed or defaced.
- (h) if damage cause by neither installation nor (i) installing procedure. HIMAT is not responsible for installation process, the installation procedure in the manual guideline.

To the extent permitted by law, this warranty and remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, statutory, express or implied. As permitted by applicable law, HIMAT specifically disclaims any and all statutory or implied warranties, including, without limitation, warranties of merchantability, fitness for a particular purpose and warranties against hidden or latent defects. If HIMAT cannot lawfully disclaim statutory or implied warranties then to the extent permitted by law, all such warranties shall be limited in duration to the duration of this express warranty and to repair or replacement service as determined by HIMAT in its sole discretion. No HIMAT reseller, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

Except as provided in this warranty and to the extent permitted by law, HIMAT is not responsible for direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory, including but not limited to loss of use; loss of revenue; loss of actual or anticipated profits (including loss of profits on contracts); loss of the use of money; loss of anticipated savings; loss of business; loss of opportunity; loss of goodwill; loss of reputation; loss of, damage to or corruption of data; or any indirect or consequential loss or damage howsoever caused including the replacement of equipment and property, any costs of recovering, programming, or reproducing any program or data stored or used with HIMAT products and any failure to maintain the confidentiality of data stored on the product. The foregoing limitation shall not apply to death or personal injury claims. HIMAT disclaims any representation that it will be able to repair any product under this warranty or make a product exchange without risk to or loss of livestock.

3. CONSUMER PROTECTION LAWS

FOR CONSUMERS WHO ARE COVERED BY CONSUMER PROTECTION LAWS OR REGULATIONS IN THEIR COUNTRY OF PURCHASE OR, IF DIFFERENT, THEIR COUNTRY OR RESIDENCE, THE BENEFITS CONFERRED BY THIS WARRANTY ARE IN ADDITION TO ALL RIGHTS AND REMEDIES CONVEYED BY SUCH CONSUMER PROTECTION LAWS AND REGULATIONS. Some countries, states and provinces do not allow the exclusion or limitation of incidental or consequential damages or exclusions or limitations on the duration of implied warranties or conditions, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by country, state or province. This Limited Warranty is governed by and construed under the laws of the country of production. HIMAT, the warrantor under this Limited Warranty, is identified at the end of this document according to the country or region in which the product manufactured.

4. OBTAINING WARRANTY SERVICE

Please access and review the online help resources before requesting warranty service. If the product is still not functioning properly after making use of these resources, please contact the HIMAT representatives using the information provided in the documentation. A HIMAT representative will help determine whether your product requires service and, if it does, will inform you how HIMAT will provide it. HIMAT will provide warranty service on products that are tendered or presented for service during the Warranty Period, as permitted by law. You are responsible for shipping and handling charges to ship the product to HIMAT or HIMAT representative for service. In accordance with applicable law, HIMAT may require that you furnish proof of purchase details and/ or comply with registration requirements before receiving warranty service.

**For troubleshooting or questions, please
visit our website or contact:**

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