



NanoLED

Complete aquarium kit

12 litre & 19 litre instruction manual
and aquarium set up guide



CREATE

EVERYTHING YOU NEED TO GET
STARTED WITH YOUR AQUARIUM

Interpet 

NanoLED

Complete aquarium kit

Thank you for purchasing this Nano LED Complete Aquarium Kit. Interpet has applied over sixty years of aquatic experience to ensure every element of the design of this product has been carefully considered to ensure you enjoy aquarium keeping.

Please retain this manual for on-going care and future reference.

We are sure that this aquarium will enable you to fully enjoy the benefits of owning and looking after aquarium fish.

This Nano LED aquarium is supplied with:

- A **Internal back filter cartridge** and **Biomedia** which keep the aquarium water clear and healthy for your fish.
- A **Circulating pump** which effectively circulates the aquarium water and delivers a maximum turnover of 16 times an hour (for the 12 litre) and 10 times an hour (for the 19 litre).
- A **LED light unit** that enhances fish colours and ensures lush plant growth using bright white 0.2w LEDs which are both economical to run and highly reliable.
- An essential Interpet water care treatment:-
 - **Tapsafe** which makes tap water safe for use in aquariums.

Contents

- Getting to know your aquarium
- Setting up your aquarium
- Things you need to know about starting an aquarium
- On-going care of your aquarium
- Top tips
- Troubleshooting
- Guarantee and safety information

Section 1 - Getting to know your aquarium



- 1 Acrylic nano aquarium**
12 & 19 litres
- 2 Internal back cartridge filter:**
12 & 19 litre two month service pack: 51508
- 3 Internal circulation pump**
Pump: 51518
Impellor: 51511
- 4 LED Light Unit**
12 litre: 51520
19 litre: 51521

- 5 Tapsafe (30ml)**
- 6 Glass cover**
- 7 Biological media**
- 8 Plug in transformer**
(not pictured)
12 litre: 51524
19 litre: 51525

Section 2 - Setting up your aquarium

Unpack all of the items in the box and check everything is present against the parts list in section 1.

Ensure the aquarium is placed on a level surface suitable for bearing the weight of a full aquarium (e.g. Nano LED 12 litre will weigh over 15kg when full).

Position the aquarium where you can get maximum enjoyment from watching your aquatic habitat. However, the aquarium should NOT be placed:

- In direct sunlight,
- Areas of extreme temperature variations i.e. next to a radiator,
- Areas subject to loud noise, vibration or a lot of movement e.g. by a loud speaker or in the hall way

Step 1 - Circulation pump

The circulation pump comes pre-installed inside the Internal back cartridge filter. Plug in both the LED unit (4) and circulation pump (3) (but do not turn on) to the low voltage connectors on the supplied transformer (8) for your Nano LED aquarium. Note the LED light unit power in socket is located underneath the clip on bracket.

Top tip...

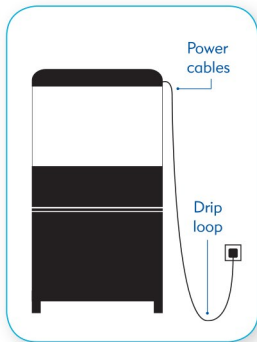
...For planted aquariums it is suggested that the water is diverted away from the surface of the aquarium, in order to ensure beneficial carbon dioxide (CO₂) is not diffused out of the aquarium too quickly.

Important Safety Information

To prevent any drips entering the electric sockets, create a drip loop for the aquarium cable as per the diagram (right).

Step 2 - Adding an optional heater or airpump to your aquarium

If you are adding a Nano heater or airpump please see Section 4 – On-going care of your aquarium.



Step 3 - Adding substrate and décor to your aquarium

Ensure you wash your choice of aquarium substrates (gravel or aquarium base) before adding it to the aquarium as most gravel contains large quantities of dirt which will cloud the water.

Pre-wash or soak any rock, wood or ornaments before adding them to the aquarium. Do not use any soap or cleaning liquids other than plain tap water for this job.

Step 4 - Installing your internal cartridge filter pad

The Nano LED replaceable cartridge pad should come pre-installed inside the filter section as per FIG 1.

If not pre-installed, ensure the cartridge is fully inserted the right way round in the correct slot with the tab facing upwards.

The internal cartridge filter pad filters out the finest particles for crystal clear water and is in a convenient position for replacing every 28 days. Dissolved organic dyes which cannot be removed by the mechanical filtration cause yellow discolouration of the aquarium water. The activated carbon inside the cartridge will effectively remove these dyes but will only last a short period of time and so should be replaced every 28 days to ensure perfect water clarity.

DO NOT SWITCH ON YOUR NANO LED AQUARIUM YET.

Step 5 - Filling your aquarium

Once you have added substrate and decor. You can fill your aquarium with water using a bucket or hose.

FIG 1



Top tip...

...When filling the aquarium, place a plate or bowl in the base to disperse the water flow and prevent the substrate moving and clouding the water.

Dose the water with the Interpet Tapsafe supplied, this removes harmful chlorine and heavy metals (e.g. Copper) from tap water. Tapsafe also adds: Aloe Vera which protects delicate fish membranes; bacteria to boost essential biological processes in the aquarium. Follow the on-pack instructions for using Tapsafe.

Top tip...

...Tapsafe should be used whenever you use tap water to carry out water changes or top up evaporation.

Once your Nano LED aquarium is full you can plug it into the mains supply. The circulating pump should remain operational at all times, apart from when you are carrying out maintenance in the aquarium when it should be unplugged for your safety.

Step 6 – Using your Nano LED light unit

Your Nano LED aquarium is supplied with bright white 0.2w LEDs (Nano LED 12 Litre = 12 x 0.2w & Nano LED 19 Litre = 18 x 0.2w) These are designed to be efficient as well as create bright yet economical lighting from very low wattage LEDs, enabling lush plant growth and a attractive ripple effect.

The LED lighting is controlled via one switch on the top of the LED lighting unit, which is inbuilt and touch sensitive as per FIG 2. The natural photoperiod in a tropical river/lake is approximately 12 hours. It is therefore advisable to run the LED unit for 8 – 12 hours a day. To replicate this natural day/night cycle automatically (10 hours on / 14 hours off), purchase a Interpet Auto Sunrise and Timer which can be simply installed in line with the LED light unit via the transformer. This would ensure your aquarium automatically gets the required 10 hours of light each day, ensuring successful lush plant growth for the aquarium.

FIG 2



Step 7 – Adding plants to your nano aquarium

Your new aquarium should be allowed to settle overnight to allow the temperature to stabilise.

Then, you can start adding live plants; remove any dead or broken leaves before planting directly into the substrate.

Top tip...

...For planted aquariums and brilliant plant growth it is advisable to use a Co2 kit with the aquarium, injecting sufficient Co2 will enhance the plant's ability to photosynthesize increasing the chances of success.

Step 8 - Adding fish to your nano aquarium

Seek the advice of your specialist aquatic retailer when purchasing fish; they will be able to help you select a variety of fish which will create a calm and balanced community. Ensure your retailer knows you have a new aquarium, as it is essential to add fish gradually to a new aquarium over a period of weeks, starting with hardier varieties, and gradually building up to the aquarium's full complement of fish.

Step 9 - Kick start your filter

As soon as you introduce the first few fish, add a Filter Start product which will help establish an effective biological process in the filter for removing harmful fish waste. Follow the on-pack instructions for using Filter Start.

Top tip...

...Add Filter Start every time you add new fish or clean your aquarium and filter to boost essential biological activity.



Step 10 - Filter Flow

The flow of water can be altered to suit the preference of your chosen fish community. Move the flow control on the circulation pump anti-clockwise to reduce the flow and clockwise to increase the flow.

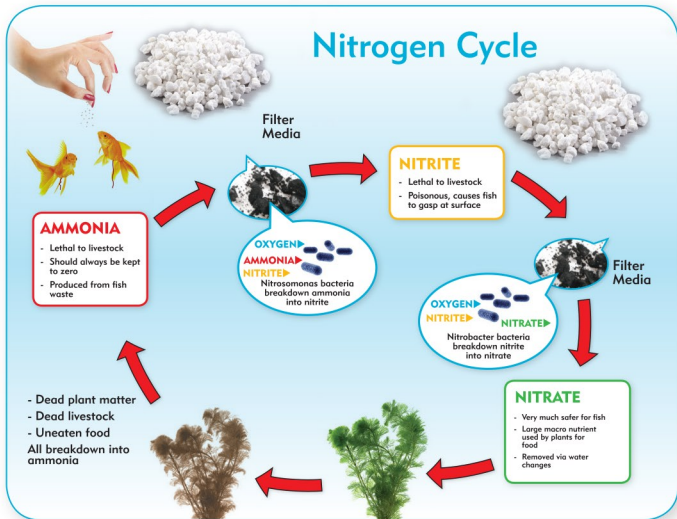


Section 3 - Things you need to know about starting an aquarium

The Nitrogen Cycle

Before adding fish to your aquarium there is some important information to understand about how the aquarium water remains clean and healthy enough for fish to thrive.

The aquarium is a small 'closed' environment; this means harmful waste can build up quickly because there is not enough water volume to dilute the waste, as would happen in a natural lake, nor is there a constant supply of fresh water to wash it away, as would happen in a river or stream. The breakdown of fish waste, excess food, dead plant material and other organic matter will cause invisible toxic compounds to build up in the aquarium water, unchecked this would eventually harm your fish. Fortunately there is a natural process called the "Nitrogen Cycle" which we can recreate in the aquarium to convert the toxic waste into safer compounds (The diagram below shows how this process works).



This Nitrogen Cycle is carried out by essential “Nitrifying” bacteria which set up home in the biological media in the reservoir. These bacteria would naturally take a couple of months to become established in the filter. During this maturing period fish keepers often experience fish losses caused by the build-up of invisible toxic compounds which is referred to as “New tank syndrome”.

New tank syndrome can be avoided by:

- adding Filter Start which speeds up the maturing process
- starting with a few hardier fish varieties and adding more fish gradually over a number of weeks
- feeding sparingly in the early days to reduce biological loading
- monitoring water quality with a test kit which reveals the presence of the invisible toxins
- carrying out weekly water changes of 20% of the tank volume to dilute waste levels for the first 6 weeks.

Section 4 - On-going care of your aquarium

Other items required for on-going aquarium maintenance:

Bucket, net, magnetic acrylic cleaner, thermometer, gravel cleaner, fish food, aquarium test kit and replacement filter service packs.

Daily care routine –

- Feed fish – ideally two or three times per day as much as they will eat in a couple of minutes (remove any uneaten food) – more fish die of overfeeding than underfeeding so take it easy and make sure only one person in the house is feeding them!
- Check fish health – look for differences in appearance or behaviour that may indicate they are unwell – seek advice from your retailer if you spot any problems.
- Clean algae off the aquarium – Ensure you use a cleaner that will not scratch the acrylic material.
- Always remove dead fish and plant matter immediately to avoid water pollution
- Ensure the filter is working and that there is good water flow to oxygenate the water. This is good for both the fish and the bacteria in the filter.
- Check the aquarium temperature is stable at the correct level. Note:- in the summer it is possible for the water temperature to briefly rise above the temperature set on the heater, this should not cause a problem for most tropical fish species.

Weekly care routine –

- Top up any water evaporation – ensure you treat the tap water with Tapsafe before adding it to the aquarium.
- If you have live plants, add a plant food such as Floraboo; trim back excess plant growth and remove any dead leaves.
- Clean the LED unit and the outside of the aquarium with distilled water (steam iron water) and dry them with a clean, soft cloth. Do not use chemical cleaning products, abrasive cloths, sprays or soaps.
- Use an Interpet Test Kit to reveal any water quality problems; these are mostly invisible to the naked eye.

Monthly maintenance routine –

- Carry out a 25% water change.
- Replace the Floss/Carbon filter cartridge as per FIG 3 below with the correct 2 month service pack.



Remove and discard old filter cartridge, replace with a new cartridge – ensure the cartridge is fully inserted the right way round (tab facing upwards) in the correct slot in the Internal back Cartridge Filter.

Three monthly care routine –

- Turn off power to the circulation pump and remove from the aquarium. Then unclip the intake cage see FIG 4 (1) and clean in fresh water, be sure to remove as much plant matter and substrate as possible from around the intake grills otherwise it may start to impact the flow rate of the pump.
- Then remove the impellor cover (2) and impellor (3) from the pump motor. Clean the impellor and the inside of the motor with water and a small brush. Then reverse this process to reassemble and install back into the aquarium.
- Also remove any substrate and plant matter from the internal back cartridge filter intake grills which un maintained could lead to circulation issues and motor failure.

Annual maintenance Routine –

Put a reminder in your diary to help you remember:

- Replace filter impellor to maintain optimum performance. (Code 51511)

FIG 4



Installing optional heater –

The 10w & 25w Nano Stat heater can be installed into the Nano LED aquarium as per FIG 5 below. The Nano Stat heater comes complete with an inbuilt pre-set thermostat which makes it ideal for most small tropical fish and aquarium plants. Ensure the heater is fully submerged up to the power cord, do not run dry. Refer to the separate product instruction booklets for more detailed information.

FIG 5



Installing optional air pump –

The Aquamini airpump can be easily installed onto the side of the Nano LED aquarium using the sucker provided as seen in FIG 6 below. Revolutionary 'electrical oscillation technology' delivers a compact and quiet air pump with plenty of power to aerate a Nano aquarium.

FIG 6



Section 5 - Top tips for a beautiful and healthy aquarium

1. Locate your aquarium in a suitable position for the benefit of the fish and plants, and for your maximum enjoyment.
2. Select the correct amount and correct species of fish for a balanced and calm community.
3. Care for your water; do all the recommended water changes, filter cleaning, tests and feed correctly, taking special care in the early days or when adding new fish.
4. Don't rush the early days, start slowly and carefully for long term success.
5. ENJOY YOUR AQUARIUM!

See online for further information on all aspects of keeping an aquarium and fishkeeping or join others in our Facebook community: www.facebook.com/interpet

Section 6 - Troubleshooting

Problem 1: Filter flow rate drops considerably

Solution 1: Check water level, if water level is low top up using pre conditioned tap water.

Solution 2: Check for dirt and debris around the clip on intake cage of the pump and remove. If this does not resolve the flow rate problem, check the impellor (see problem 3).

Solution 3: Check the filter cartridge pad, it may be prematurely blocked (before 28 days) due to messy fish or excess debris in the water column. Conduct a 20% water change and cut down feeding levels for two to three days as well as replacing the cartridge filter pad. Make a note of the date changed and ensure to replace after 28 days or before if blocked again.

Problem 2: Filter flow is too strong

Solution: Nano LED is designed to allow a variety of species to thrive including species that require high flow, if the flow needs to be reduced see setting up your aquarium, step 8.

Problem 3: Filter is noisy

Solution 1: Refer to problem 1, solution 1.

Solution 2: The pump impellor should be removed and carefully cleaned, see three monthly care routine. Once the impellor has been cleaned it should be inspected for any damage. If the impellor or magnet is damaged in any way, the impellor should be replaced.

Problem 4: Power cut

Solution: Any interruption of more than 2-3 hours of the water supply through the biomedica will cause the bacteria in the filter to die. Should this occur, do not simply re-start the filter. You must thoroughly clean ALL the filter material and start the filter again. In an aquarium fully stocked with fish, this may lead to water quality problems. Use test kits to monitor water, Ammonia Remover & Filter Start products to manage the water quality.

Problem 5: Water will not stay crystal clear

Solution 1: Check to ensure the internal back cartridge filter is working correctly, inspect the white polymer wool cartridge to see it is correctly positioned in the key locator and also if it was replaced within 28 days (if not it must be replaced).

Solution 2: Additionally you may consider using Interpet Filter Aid which clumps together the fine particles and allows them to be removed more effectively by the filter. Additionally cut down on feeding levels for two to three days and ensure you perform monthly water changes.

Problem 6: Why has the internal back cartridge filter stopped working

Check mains power supply has not been interrupted.

Problem 7: Why is the LED light output reducing / failing

Solution: If installed refer to problem 6, if this does not work the LED lighting unit is nearing the end of its life span and will need replacing.

Guarantee

All Nano LED aquariums are guaranteed for 12 months from the date of purchase providing the following conditions are met.

Never place polystyrene under the bottom frame of this aquarium.

Your aquarium must be sited on a surface that is flat and level and able to withstand the weight of the aquarium when filled with water, gravel etc. Note: 1 litre of water weighs 1kg)

IMPORTANT SAFETY ADVICE: Never site your aquarium over electrical appliances.

DO NOT try to lift or move the aquarium when it contains water.

This guarantee covers leakages arising from either faulty materials or workmanship. We cannot be responsible for breakages of the polycarbonate pods.

This guarantee does not apply to any unauthorised modifications or misuse, improper or inadequate maintenance, or operations outside the product specifications. In case of defect within the stated guarantee period, the products should be returned, with proof of purchase, to the point of purchase.

This guarantee does not effect your statutory. Guarantee service includes repair or replacement of the aquarium or filter at Interpet Ltd.'s discretion. Neither Interpet nor the manufacturer are liable for any direct, indirect, special, incidental or consequential damages, including loss of livestock, arising from a defect in this product.

Important Safety Information

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

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 authorized service facility for service, or discard the appliance.

This is for indoor use only – do not use outside. Do not use this unit if the cable or plug are damaged or appear to be malfunctioning, or if it is dropped or damaged in any manner. Do not use this unit if the plug gets wet. Refer to section 2 of this instruction manual to find out how to create a drip loop for both the heater and filter. Dispose of responsibly following instructions from your local authority. Close supervision is necessary when any appliance is used by or near children. Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing point. If an extension cord is necessary, a cable rated with a proper rating should be used. A cable rated for less amperes or watts than the appliance rating may cause the appliance to overheat. Care should be taken to arrange the cable so that it will not be tripped over or pulled.

SAVE THESE INSTRUCTIONS

Disposal of used Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)
This symbol on the product or on its packaging indicates that the product must not be disposed of with normal household waste. Instead, it is your responsibility to dispose of your waste equipment by arranging to return it to a designated collection point for the recycling of waste electrical and electronic equipment. By separating and recycling your waste equipment at the time of disposal you will help to conserve natural resources and ensure that the equipment is recycled in a manner that protects human health and the environment. For more information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you have purchased the product.



Service Packs

Two month service packs available for your internal back cartridge filter inside the Nano LED aquariums.

Easy Test Health Tablet Test Kit

Complete with tablet tests for ammonia, nitrite, nitrate and broad range pH, along with 2 plastic test vials and a tablet crusher. An effective and simple way for you to test your aquarium water, ideal for new aquarium set-ups.



Upgrades



10w & 25w Nano 'DELTAMINI' Heater

Reliably keeps temperature at a tropical 25°C, compact and durable design ideal for the Nano LED aquariums.



Nano 'AQUAMINI' Airpump

Revolutionary 'electrical oscillation technology' delivers a compact and quiet air pump with plenty of power to aerate a Nano aquarium.



Interpet has applied over 60 years of aquatic experience to ensure every element of the design of this product has been carefully considered to help you enjoy aquarium keeping.

e-mail: customer care@interpet.co.uk
Interpet Ltd, Vincent Lane, Dorking, Surrey
RH4 3YX, England
[facebook.com/interpet](https://www.facebook.com/interpet)
www.interpetaquatics.co.uk