

Submergible Cleaner for Fish Farming Nets SENSUI-KUN Mark III <NCL-SE3>

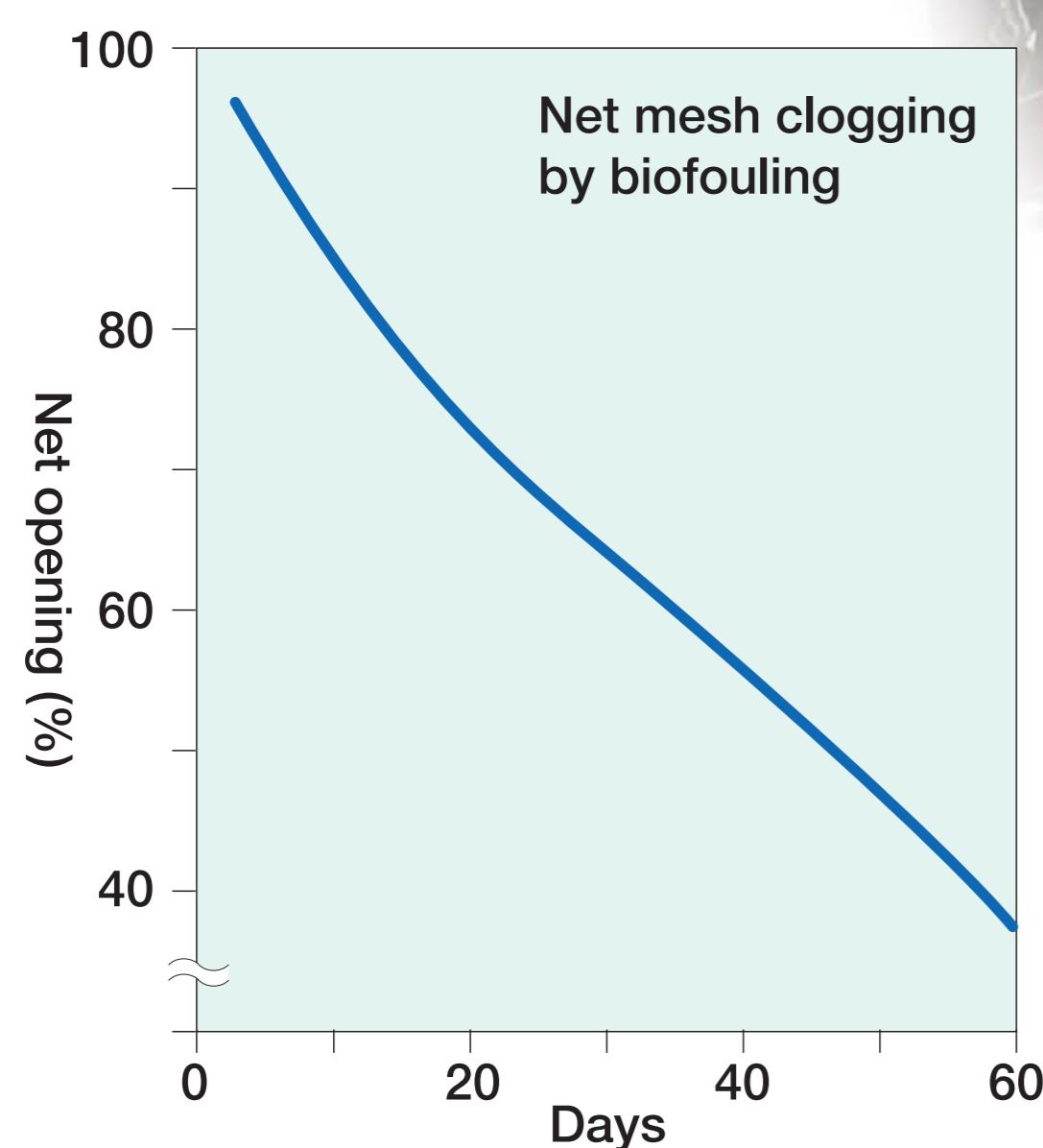


Easily clean your nets with Saving cost, Raising High Quality fish, Easy on Environment.

Fish farming nets need to be cleaned periodically to maintain water quality and protect aquaculture fishes against disease.

Yanmar's Sensui-Kun Mark III submergible cleaner is a self-propelled submergible robot that efficiently cleans underwater netting.

Only one person is needed to control and operate the robot. In just a short amount of time, side and bottom of the fish farm net can be cleaned without raising net, displacing aquaculture fishes or putting people in the water, giving users tremendous labor-savings results.



Video footage during cleaning of fiber net



Video footage during cleaning of wire mesh net



Dual cameras and monitors are available for one robot. (option)
※ Photograph shown is in case of 2 robots.

Merits of efficient net cleaning

- Prevents the proliferation of parasites because fish farming nets are kept clean.
- Anti fouling chemical and medicine for fish use can be reduced.
- Improves the flow of water through the nets and eliminates a drop of oxygen concentration in the fish farming cage, thereby preventing a decrease in feeding activity and an associated reduction in the number of aquaculture fishes in the cage.
- Prevents harm to aquaculture fishes by adhering shellfish.
- Prevents weight increases of farming net caused by biofouling to the net, hence avoiding sinking and damage of farming net cages.
- Cleaning can be done anytime it is needed.
- Reduces use of cleaning agents.

Strong cleaning action, effective cleaning by close contact

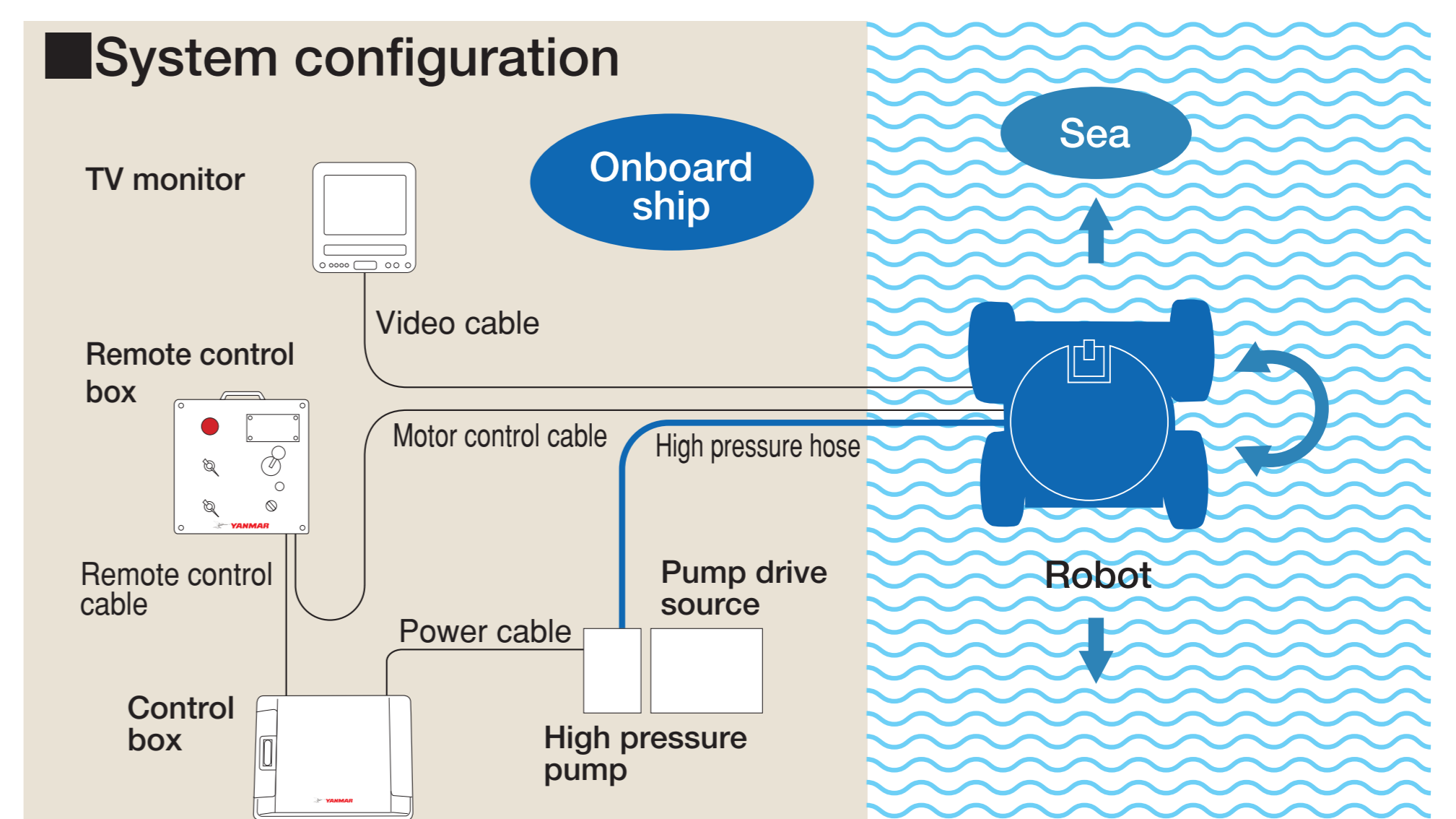
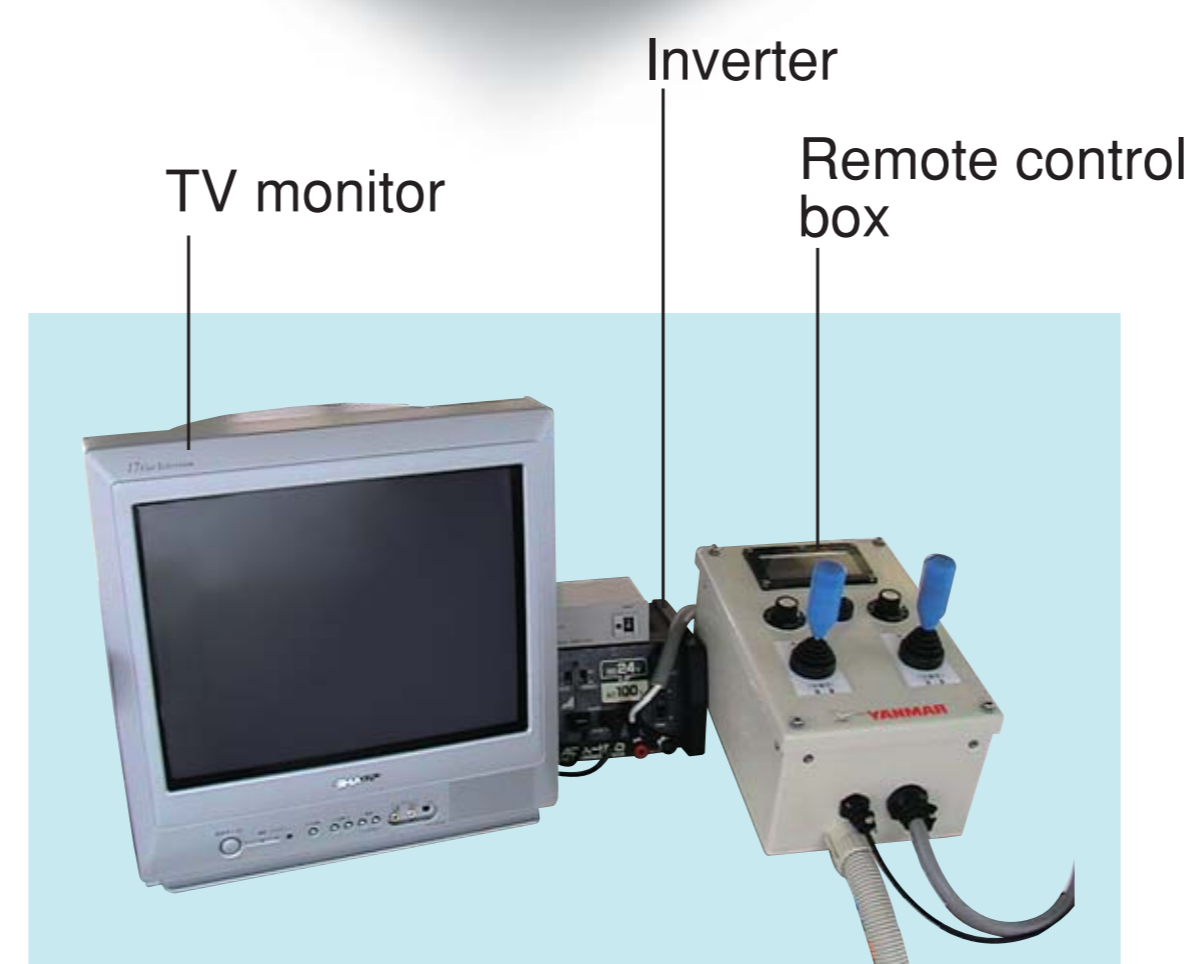
All of the water from a high pressure pump is used to ensure on-the-spot powerful cleaning. The recoil from the water jet is used to turn the propeller and keep the robot pressed against the net. Users will enjoy wonderful cleaning performance.

Easy setup and placement in fish farming cages

Allows the nets to be cleaned anytime it is needed. The robot can be fed through a small opening in bird guarding nets over the fish farming cages and into the water, making it easy to clean netting.

Easy remote control operation and monitoring of underwater operations

The robot can be guided and operated by simply operating the remote control box joysticks. And, underwater operations can be checked in real-time on a TV monitor.



Specifications

Model		NCL-SE3
Robot Unit	External Dimension (m)	L810 x W1003 x H760
	Weight (kg)	Approx. 150
	Max. Traveling Speed (m/min)	12
	Max. Cleaning Speed (m)	6.2 (Practical cleaning capacity : 4.0)
	Max. Submergence Depth (mm)	30
	Propeller (mm)	φ450 (one)
	Wheel	Stainless steel wheel (4 pcs.)
	Motor	DC motor W/ reduction gear (4 pcs.)
	Water Depth Sensor	Pressure type (1 pc.)
	TV Camera	Pantoscope CCD (1 pc.)
	Cord	Twist-proof cord, 40m (1 pc.) Option : Twist-proof cord, 60m, 100m (1 pc.)
	High pressure hose (m)	35 Option : 55m, 70m
Control Box	External Dimension (BWH) (mm)	L200 x W500 x H600
	Power Source	Power input (1 pc.) DC24V, 15A
Remote Control Box	External Dimension (BWH) (mm)	L150 x W200 x H300