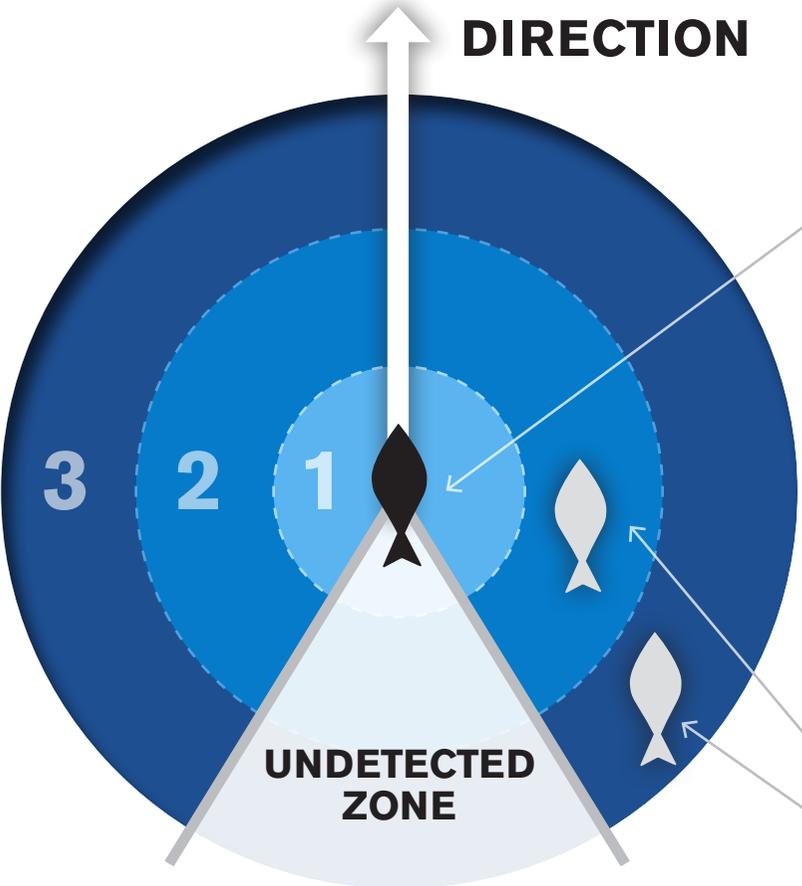


Nissan autonomous Robot Eporo

Eporo simulates a school of fish using three basic rules to maintain a safe distance.

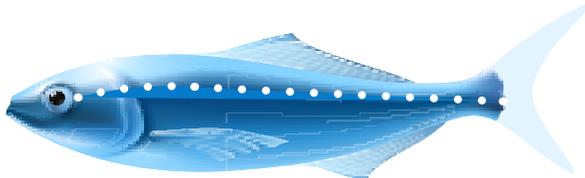


- 1 Collision Avoidance
- 2 Traveling Side-by-side
- 3 Approaching

Fish Sensors

Lateral line sense

A sensory organ extending from the fish's head to tail maintains the distance between the fish and its nearest neighbor.

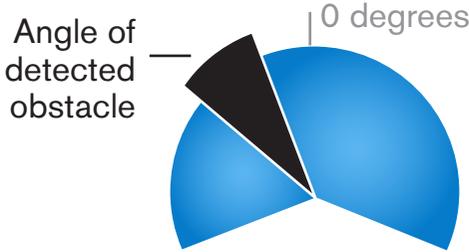


Collision Avoidance

Eporo sensors

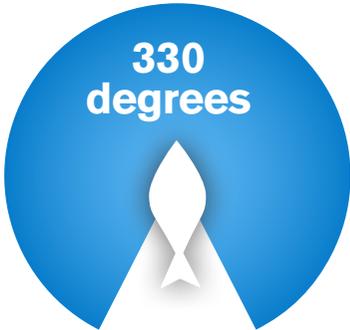
Measurement of Close Objects

Laser range finder receives reflections from emitted lasers, and distance to obstacles is measured from the arrival time.



Sense of sight

A 330 degree field of peripheral vision enables fish to keep constant distance to the surrounding neighbor.



Traveling Side-by-side Approaching

Recognition of Surrounding Objects

Ultrawide band communications detect distance with a high degree of accuracy, receiving and sending data simultaneously.

