

MICRAN

POBLO ARDAR RADAR SECURITY SYSTEM



FishGUARD is a radar system for remote monitoring of commercial fish farms. The system is able to control an area of more than 15 km², simultaneously recognizing multiple targets under any conditions.

How FishGUARD works

The basic purpose of the FishGUARD is to detect intruders before they enter the facility. When the system defines unauthorized entry, it informs an operator by aural alarm about the proximity of the hazard. For visual confirmation the system automatically directs the thermal and video equipment to the target for its identification. After receiving the image, the operator makes a decision on the localization of the object (to dispatch a rapid response team or use additional tools such as guided searchlight, audible warning systems, etc.).









AFFORDABILITY The cost of the system doesn't exceed 5% of the cost of one fish cage.

ALL-WEATHER CAPABILITY The physical properties of radio waves provide 24/7 monitoring waves all the weather conditions.

SAFETY The radar is absolutely safe for people and the environment because of low radiation (up to because of low smartphones. 1 W) that equals two smartphones.

SIMPLICITY The system management is automatic and eliminates human errors.

EMBEDDED INTELLIGENCE FishGUARD records and plays back all input data. This allows to conduct a qualitative assessment of the situation and adjust threat scenarios.









* The actual detection range may vary depending on the specifics of the installation site and surrounding objects.

Specifications

FishGUARD Radar security system

Security system	FishGUARD	FishGUARD	FishGUARD
	Lite	Standard	Active
Maximum detection range, m *			
a hovercraft	1 500	2 000	3 500
a boat/snowmobile	1 000	1 300	2 200
a swimmer	300	350	500
Power consumption without options, W, max.	600	600	1000
AC power supply, V	220	220	220

* The actual detection range may vary depending on the specifics of the installation site and surrounding objects.

SKAT series radar sensors

Sensor type	SKAT	SKAT	SKAT
	Lite	Standard	Active
Operation frequency, MHz	9 400	9 400	9 400
Type of transmit/receive module	solid-state	solid-state	solid-state
Transmitter output power, W, max.	1	1	1
Range resolution, m, max.	3	3	3
Beam width in the vertical plane, °	30	30	30
Beam width in the horizontal plane, $^\circ$	2.3	1	1
Frequency deviation, MHz, max.	96	96	96
Scan rate, rpm	24	24	24
Communication interface	Ethernet 100Base-T	Ethernet 100Base-T	Ethernet 100Base-T
Protection level	IP56	IP56	IP56
Operating temperature range, °C	-40+55	-40+55	-40+55
Dimensions, cm	37 × 40 × 100	37 × 40 × 200	36 × 44 × 200
Weight, kg	25.2	29.2	29.5

Communication unit

Protection level	IP55
Operating temperature range, °C	0+55
Dimensions, cm	40 × 41 × 22
Weight, kg	8

GET YOUR CUSTOM SYSTEM DESIGN AND LAYOUT +7 3822 90-00-29 ext. 1921

Micran, Research & Production Company 51d Kirova Avenue, Tomsk, Russia, 634041 +7 3822 90-00-29 | +7 3822 41-34-03 | +7 3822 42-36-15 fax fishguard@micran.ru

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