



ALERT SYSTEMS INTERNATIONAL, INC.

Rig Operator Alert System

516 Wiseman Ln NW
Edmonton, AB T6T 1N5, Canada
ph 780-299-1174 (Edmonton)
ph 978-893-6347 (Boston)

www.alertsystems.ca



*Our new **Rig Operator Alert System** uses camera vision to give early warning of when the operator needs to take a break, preventing accidents and making rigs safer and more productive.*

Why do we need this?

Did you know that worker fatigue and distractions cause up to 80 % of all accidents on oil and gas rigs? Rig crew work is on average 60 times more dangerous than any other job, and demands the highest level of vigilance and attention to detail. There's often zero margin for error, and a single mistake could cost lives, and economic losses. An early detection and warning system is a vital safety tool that will prevent accidents, and heighten situational awareness.

How does the system work?

The System uses a camera mounted in front of the rig operator which continually monitors the operator's behavior closely, noting any fatigue and distraction signs, or any erratic control actions. By analyzing the visual cues and the ongoing rig operations, the system can judge if the operator's attention level is poor, and quickly initiate a safety checkpoint with the operator to confirm their attention. The unit offers a number of configuration options that control the level of operator interaction and monitoring for easy integration with your HSE and safety policies.



ALERT SYSTEMS INTERNATIONAL, INC.

Rig Operator Alert System

516 Wiseman Ln NW
Edmonton, AB T6T 1N5, Canada
ph 780-299-1174 (Edmonton)
ph 978-893-6347 (Boston)
www.alertsystems.ca

Standard Features

- Drowsiness detection, using visual cues like eye movement, blinking, and yawning
- Data logging, providing pertinent insight into crew planning, safety training, and field audits
- Early warning signal, activating a light, buzzer, siren, or any other user selected interface

Configuration Options

- Safety checkpoints, initiated randomly or periodically, to confirm operator's attention
- Operator authentication, using facial recognition technology
- Operator head and eyes orientation monitor
- Safety interlock for unattended operator, pausing all critical operations in progress

Product Specifications

Parameter	Technical Specifications
Power	12-24V DC NOMINAL, MAXIMUM 30V
Weight	UNIT 4 LBS. CAMERA, CONTROLLER AND MOUNTING HARDWARE
Size	CAMERA : 10 X 6 X 2 CM (3.9 X 2.4 X 0.8 IN.) CONTROLLER : 25 X 20 X 10 CM (9.8 X 7.9 X 3.9 IN.)
Operating Temperature	-20 to + 70° C (-4 to 158° F)