



RADAR SURVEILLANCE

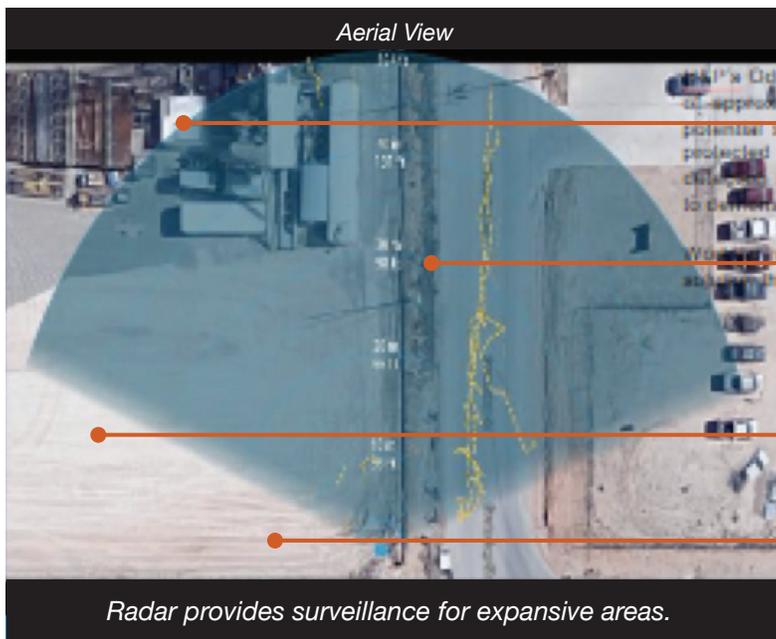
KNOW SOMEONE IS APPROACHING BEFORE THEY ARRIVE

Protection Beyond Fences

PetroCloud's surveillance radar solution identifies potential security breaches, in all weather conditions around the clock – increasing the likelihood of early detection while greatly reducing false events. The solution prevents theft, improves safety, and provides remote visibility during natural disasters and other environmental situations.

Applications

- ▶ Utility substations
- ▶ Oil and gas infrastructure
- ▶ Power plants
- ▶ Petrochemical plants
- ▶ Cell phone towers
- ▶ Mines
- ▶ Natural disaster management
- ▶ Parking lots



Covers wide-area infrastructure with fewer personnel and cameras

Coverage inside and outside of fences

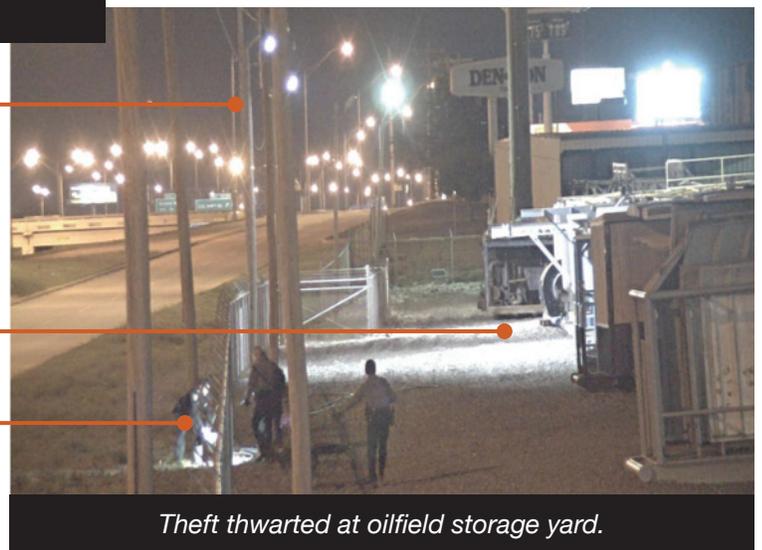
'Dead zone' connectivity even when cellular is weak or absent

Affordable cellular service replaces expensive satellite service costs

Coverage day/night and in all weather conditions

Coordinates visual, thermal and motion detection for never-blind surveillance situations

Automatically notifies security personnel of movement





RADAR SURVEILLANCE

KNOW SOMEONE IS APPROACHING BEFORE THEY ARRIVE

Radar Surveillance

PetroCloud's network radar solution accurately identifies property trespassers and provides immediate notification to security personnel with exact position, angle of movement, and velocity of a moving object.



Product Features

- ▶ Provides 100% coverage in all weather conditions including heavy wind, rain and snow
- ▶ Solar power options enable quick set up when traditional power supplies are unavailable
- ▶ Records only when an event occurs, reducing data storage and associated costs
- ▶ Designed for extreme conditions to reduce in-field failures (withstands extreme temperatures, high EMI and minimizes surge and power supply disruptions)
- ▶ Filtering for distance and customizable detection zones
- ▶ RoHS compliant and CE tested

RADAR SPECIFICATIONS	
Sensor	Phased array FMCW (Frequency Modulated Continuous Wave)
Object Data	Range, direction, velocity, object type
Frequency	24.05 – 24.25 GHz (channels 1 and 2)
RF Transmit Power	100mW (EIRP) License free in USA and Europe No harmful radiation
Detection Range	Min: 4.5 m (15 ft) Max: up to 50 m (164 ft)
Field of Detection	120° horizontal detection and up to 50 meters/164 feet range
Horizontal Positions	0° (default), +/- 25°
Field View	90°
Weight	1.5 lb
Distance Accuracy	+/- 0.5m
Angle Accuracy	+/- 0.5°
Spatial Differentiation	2.5 m
Data Refresh Rate	10 Hz
Temperature Exposure	From -40° to 60°C (-40°F to 140°F)
Coverage	2,500 m ² (27,000 ft.)
Object Classification	Small object, human, vehicle
Analytics	Data with object position and velocity
Map	Reference map calibration
Radar Controls	Filter, multiple detection areas, reference map, grid opacity, color scheme, trail lifetime detection sensitivity

