

WHITE PAPER



## FROM PERIMETER SECURITY TO WIDE AREA SURVEILLANCE



NEW THREATS.  
NEW THINKING.

Historically, perimeter security meant building fences or using guards to patrol a secured area. In such a scenario, security professionals might only find evidence of a break-in, with little to no information upon which to pursue the intruder.

The security officer's job became somewhat easier when a variety of sensors began being installed along a fence as intrusion alarms. Again, the officer was reacting to an intrusion – not preventing it. And still, the guard would not know the location of the intruder.

Cameras with motion detection attempt to give early warning and tracking ability, but when scanning wide areas this is like looking through a straw. Cameras can only detect movement in their field of view. In addition, weather and lighting conditions can degrade performance, resulting in a high number of false and nuisance alarms. A better solution was still needed.

The solution to wide area surveillance was found in ground based radars. By design, radars rapidly and continuously scan 360°, detecting movement in virtually any lighting or weather condition. ICx has made significant advances in radar technology, affordability and operability. Security professionals now have the tools they need.

ICx Radar Systems offers radars which quickly detect and track vehicles in large areas, as well as people running, swimming, walking or even crawling on the ground. They have extremely low false alarm rates and are easy to operate. The days of a highly trained operator, intently watching a radar screen, are over. The key component for wide area surveillance – security radar – has arrived.

The efficient and effective wide area surveillance systems offered by ICx, take advantage of the strengths of multiple technologies. Our radars outperform other sensors in detecting movement (even slow movement of small objects), providing precise location and tracking of intruders. Through command and control software, ICx ties these radars to a set of advanced cameras to assess and identify intruders.

In such an automated wide area surveillance system, software receives the location of intruders from the radar, sounds an alarm for the operator and automatically points a camera at the intruder for assessment – all in a matter of seconds. The operator and response team now have what they need – number of intruders, exact location, direction of travel, visual identification – to determine a safe, effective response without constantly staring at a bank of monitors.

## Portable and Mobile Applications

- Police crash or crime scenes
- Temporary bases or air fields
- Changing terrorist targets
- VIP security
- Police controlled areas
- Border patrols
- Critical infrastructure
- Temporary flight lines

## Fixed Installation Applications

- Power generation facilities
- Ports
- Airports
- Military Bases and Airfields
- Borders
- Any Unmanned High Value Site

## Communications

- Wired (fiber optics, Ethernet, RS-485)
- Wireless

## Benefits

- Quickly scan wide areas
- Detect vehicles, runners, swimmers, walkers and crawlers
- Track intruders before they get to a fence or border
- Work in any lighting or weather condition
- Virtually eliminate false alarms



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