# Vindicator® Security Solutions

EXTEND YOUR SECURITY PERIMETER

# Vindicator Radar Detection System

CENTRA SECURITY SYSTEMS
5 RIVERSIDE BUSINESS PARK
STANSTED
ESSEX.CM24 8PL UK
www.centrasecurity.co.uk
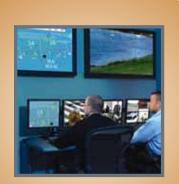TEL +44(0)1279-816485

**Honeywell**

## Extend Your Security Perimeter

Many security solutions today are required to provide advanced detection of potential threats and intruders beyond the fence line. Honeywell's Vindicator® Radar Detection System can extend your security application well beyond its current perimeter, providing advanced warning of potential threats and intruders. We've partnered with leading technology providers that include some of the best sensor manufacturers, software and specialty firms. By integrating those products and technologies with ours at Honeywell Vindicator Security Solutions, we are able to create some of the world's largest and most sophisticated security and control solutions – within your budget.

The Vindicator Radar Detection System is comprised of three components:
- **Command & Control Platform**
- **Detection Options**
- **Integrated Assessment**

**Command & Control Platform**

**Vindicator Radar Detection System
SYSTEM DIAGRAM**

**Detection Options**

## Customer Solutions

Honeywell is focused on providing complete security solutions for your mission-critical site. The Vindicator Radar Detection System ties three areas of perimeter security together to help you detect objects and people at distances up to several kilometers. When it comes to managing and integrating your radar detection system, Vindicator provides adaptable solutions for critically important and high-risk sites.



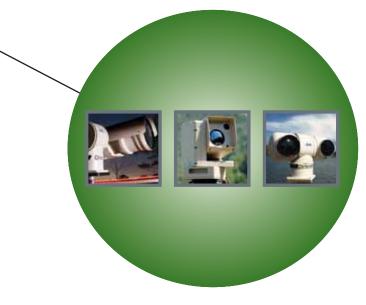Military, Federal and State Government



Industrial



Ports and Critical Infrastructure



Corrections



**Integrated Assessment**

## System Display, Management and Control

Whether you need an ultra-simple operator interface or a robust network configuration and administration platform, the Vindicator Command and Control (VCC) Platform offers all the functionality you require. The VCC Platform can facilitate elaborate command centers and simple operator terminals. It enables users to monitor and manage a single location or multiple, local and remote sites via a powerful yet intuitive interface. Vindicator's Command and Control suite includes four applications that interface directly with the V5 Network Security Appliance.

- VCC Graphical User Interface
- SAW (Security Archive Workstation)
- PC SmartPAK
- Vindicator Badge Manager 2.0



| Intrusion Detection Capacity | Communication Capability | Certifications and Approvals |
|---|---|---|
| • Windows-based graphical display with capability to support maps, images and drawings of your sites<br>• Embedded design delivers extreme reliability<br>• Single or multiple site monitoring capability with available redundancy<br>• Sensor inputs: capable of handling more than 10,000 multi-state inputs from various sources<br>• System has passed the "5-in-5" test (capable of reporting five alarm events in less than five seconds) | • Serial: RS485 and RS232<br>• LAN: 100BaseT with TCP/IP and vXML<br>• Fiber optic: 100FX optical (SM or MM)<br>• Encryption: UHS, DES, TDEA (NIST approved) | • FIPS 46-3, DCID 6/9<br>• UL-1076/294/864<br>• PL1 USAF Certification |

## Scalable and Flexible Solutions

Honeywell leverages the expertise of our partners to create cutting-edge security and control solutions. Whether deploying a single STS-350 or several long range radars, the Vindicator Radar Detection System can be expanded as necessary to cover your entire site. Experienced Honeywell personnel can recommend where additional radar units can be added to expand an existing system or to provide overlapping coverage. Also, sensor inputs from other technologies can be logically combined with radar inputs to further reduce nuisance alarms and provide increased security to your site.

### Detection options include:
- **Short Range**
- **Long Range**
- **Additional Platform Support**



**Short Range Perimeter Surveillance Radar**
**ICx Technologies - STS-350**
The STS-350 is an example of a short range radar solution in the Vindicator Radar Detection System. A portable and low cost system, the STS-350 consists of one or more remotely stationed radar sensors networked to a central control system and one or more display units.
- All weather, all light level capability
- Able to detect moving or stationary targets
- Small, low power and light weight for a quick and automated perimeter security
- Designed to be strategically positioned around perimeter for continuous coverage
- Monitor and secure high value permanent and temporary sites

| Target Types: | Specifications: | Environmental: |
|---|---|---|
| • Personnel running: range 10-250m<br>• Personnel walking: range 10-300m<br>• Personnel crawling (hands and knees): range 10-125m<br>• Personnel crawling (low profile): 10-100m for short grass<br>• Vehicles: 10-250m | • False Alarm Rate Goal: Less than 3 per 24 hours<br>• Scan Rate: 1 revolution / second<br>• Sensor Size: 15" W x 15" D x 35" H and 40 pounds<br>• Power Input: 11-18 VDC, 30 watts | • Temp: -30º to +60º C operating, -40º to +100ºC storage<br>• Humidity: 0% to 90% non-condensing (60º C max)<br>• Altitude: -500 to +14,000 operating, –500 to +40,000 storage (ft. above sea level)<br>• Wind: 60 mph max. Sealed against precipitation, mud, etc. |

## Long Range Perimeter Surveillance Radar
## ICx Technologies - STS-12000

Paired with Honeywell Vindicator's V5 IDS and VCC, the STS-12000 provides sensor technology for securing ports, borders, public infrastructure facilities, and force protection applications. The long range perimeter radar provides automated wide area surveillance, tracking and classification of intruding personnel, vehicles and low flying aircraft.

- Operates in virtually any climate, weather or lighting condition to provide 24/7 security
- 40 square miles radar coverage in short range mode, scans a full 360 degrees
- 170+ square miles in long range mode
- Detect and track intruders as part of a wide area surveillance solution
- High resolution radar accurately detects personnel and vehicles at long range
- Deployed in fixed or mobile configurations

*Additional Platform Support - In addition to products from ICx Technologies, the Vindicator Radar Detection System also supports the XML interfaces of radar products from DRS and Telephonics.*

### Target Types:

- Personnel: 0 – 5,000m
- Vehicles: 10 – 10,000m

### Specifications:

- Range: 0 - 6km in short range mode, 0 - 12km in long range mode
- Range accuracy: 2m
- Scan Rate: 4 revolution / minute
- Azimuth Beamwidth 0.8 degrees (2-way)
- Elevation Beamwidth 4 degrees (2-way)
- Elevation Control ±15°, for terrain following
- Sensor Size: 78" height X 81" diameter and 330 pounds
- Power Input: 24 VDC, 108 watts nominal

### Environmental:

- Radiated power safe for human exposure
- Sealed against precipitation, sand, mud, etc.

## Visual Assessment and Thermal Imaging

Honeywell offers long range, high resolution and thermal imaging products to provide security directors, officers and guards with a visual confirmation of what the Vindicator IDS system has detected. With broad device compatibility, advanced control capability and dynamic prioritization of events, the system can be programmed to display the correct view from the correct camera based on the event or threat situation. Once detected, operators can actively track and assess targets. Visual assessment can help determine whether the target is indeed a potential problem and whether resources should be deployed.

*The Vindicator Radar Detection System uses thermal imaging products from various vendors including ICx Technologies and FLIR.*

## ORDERING INFORMATION

| Part Number | Description | Part Number | Description |
|---|---|---|---|
| 600-33500-01 | V5 and VCC System Server | 571-33576-01 | Sentry II Uncooled IR Camera System |
| 600-33500-02 | V5 and VCC System Server, TDEA | 571-33577-01 | ThermoVision Integrated Camera System |
| 570-33775-01 | PSRS Sensor System Package | 950-00012-00 | On-Site Survey |
| 577-33740-00 | RDTS Remote Detection and Tracking System Package | 950-30659-01 | Program Management |
| 571-33773-01 | Thermal Camera, Mid Range, Fixed | 950-00010-02 | Custom Configuration Support Services |
| 571-33772-01 | Thermal Camera, IR/Low-Light CCD, Long Range, PTZ | 950-30399-01 | System Integration and Testing |
| 571-33771-01 | Low-Light/Hi-Intensity Light Camera, Mid-Range, PTZ | 950-04-01 | System Staging and Testing |

We'll help you develop a plan for mitigating threats and securing your site – within budget. Contact a Honeywell Vindicator Security Solutions representative to discuss your specific application and security requirements.

**Honeywell**

March 2008
© 2008 Honeywell International Inc.

**For more information:**

www.honeywellvindicator.com

**Honeywell Security**

L/VINVRDSB/D
March 2008
© 2008 Honeywell International Inc.

**Honeywell**