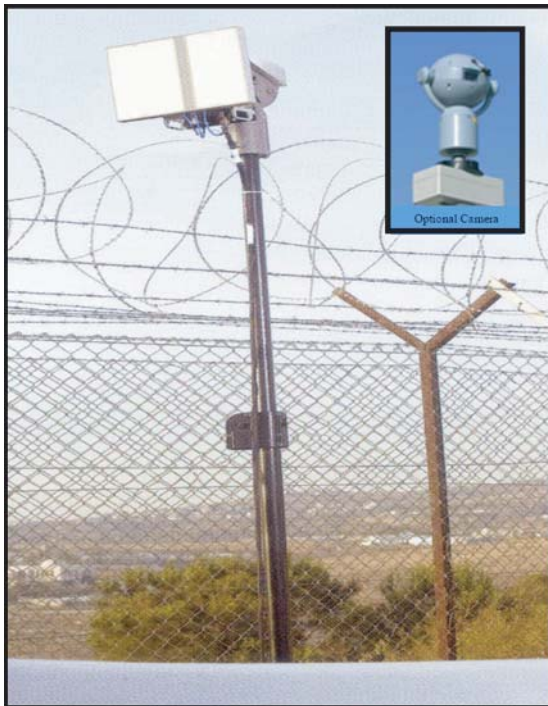


HDS - Human Detection System

The HDS Series 2107P System provides high resolution imaging of moving objects, up to 300 meters in distance based on an Ultra Wide Bandwidth (UWB) waveform and processing logic. Advanced state-of-the-art digital processing and software algorithms are used to perform real time detection of moving objects, measurements, analysis and recognition in accordance with stringent governmental NAR/FAR requirements – thus enabling reliable, real time surveillance and alarms. The HDS consists of an antenna array, a transceiver, connecting cables and an integrated video assessment and tracking system.



Series 2107P
Permanent Mounted

HDS VALUE PROPOSITION

HDS, verified to be accurate, reliable, flexible, cost-effective, and state-of-the-art.

Low Lifecycle Cost	Low power consumption, Easy installation, and Low maintenance
Best Industry Warranty	3 years
Scalability	HDS modular design allows for easy scalability. Zone size can be increased by simply adding units to the system network
High Quality	Solid state MTBF (Mean Time Between Failure): 20,000 Hours (Calculated in accordance with Military Handbook 217F) MTTR (Mean Time to Replace): 30 Minutes (Replacement of Line Replaceable Units, LRU)
Highly Accurate	High Probability of Detection (PD) Regardless of weather conditions (90%) for people and vehicles

HARDWARE

BENEFITS

High range accuracy and resolution doppler radar	The system allows continuous monitoring and detection in all weather conditions
System built-in test	Easy to maintain - isolates 95% of the failures to subsystem module
Modular design	Multi-sensor array and scalability
PC based control unit	Easy installation
Lightweight and low power consumption	Extended operation
Uses RS232 or RS422 interface	Interoperability with other security system technologies through a PC interface
High reliability, low maintenance, no calibration needed	Low lifecycle costs
Hardware includes capability for IP, cellular or microwave networking of multiple units to one PC	The system may be connected in a netted configuration, integrating radars and electro-optical devices to one central computer complying with customer security requirements
Controllable via remote command post	Low exposure of operations personnel

SOFTWARE FEATURES

BENEFITS

Automatic detection of moving targets	Security force reduction
Visual and audio alarms for each detection	High probability of timely response
User friendly Human Machine Interface (HMI)	Simple to operate
Control from a remote command post	Remote control data retrieval
Display background area on actual customer's digital map/picture	Allows radio response to threat area
Programmable according to areas status. (Restricted zones according to time frames, buffer zones, etc.)	Proper priority of response forces

SPECIFICATIONS

HARDWARE

Working Method	high-resolution Doppler radar
Frequency	C band
Detection Range	300m for humans
Horizontal Field of Detection	80°
Range Accuracy	±1m
Azimuth Accuracy	±5°
Power	24v
Power Consumption	20w
Communication	via RS-422/232
MEU Weight	3.5 kg
Operating Temperature	-25°C to +55°C
Storage	-40°C to +85°C
Humidity	Up to 95% relative humidity
Wind	During operation - 50 Knots
Salt Atmosphere	Exposure to salt air atmosphere
Sand and Dust	Exposure to sand and dust particles as encountered in operational areas (11grams /M3, wind 50 knots)
Mechanical Shock	Shock characteristics: half Sine wave 30 G, 11 msec
Solar Radiation	Exposure to solar radiation (105 W/ft2)
Vibration	Sinusoidal vibration in accordance with MIL-STD-810C, method 514.2, proc. VIII

SOFTWARE

Operating System	Windows 2000 Professional
Software Language	C++

APPLICATIONS

Installation Security

Secures the perimeter for facilities such as: power plants, factories, military bases, air and sea ports, correctional facilities, embassies and other governmental facilities

Traffic Control

Tracks non authorized personnel and vehicles within selected areas

Border Protection

Enhances response force capability by real-time monitoring and tracking people/vehicles along the border

ECSI

ECSI INTERNATIONAL, INC.

ISO 9001:2000 REGISTERED

790 Bloomfield Avenue, Building C-1

Clifton, NJ 07012

Tel: (973) 574-8555

Fax: (973) 574-8562

ecsi@anti-terrorism.com

www.anti-terrorism.com