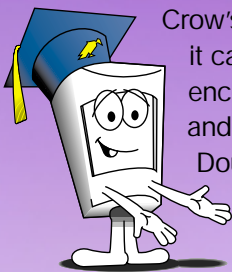


# Genius



Double Dual™ Element  
Motion Detector  
with Advanced ASIC  
Technology

## Double Dual™ Technology Means Virtually No False Alarms



Crow's Genius is so smart that it can actually tell the difference between a small animal and a genuine intruder. It's Double Dual™ optic system simulates 3D stereo vision so it "sees" a wider area and focuses only on real intruders. It's ASIC technology controls the Double Dual™ elements with supreme accuracy and reliability, even in harsh environments.

Focuses on real intruders - not your pet

- Virtually no false alarms
- Ignores cats, mice, birds & insects

Can be installed in harsh environments

- Install almost anywhere
- Automatically adapts to changes in wind, temperature and background noise

Greater security

- Advanced ASIC technology
- Greater EMI and RFI protection

Easy to install • High reliability

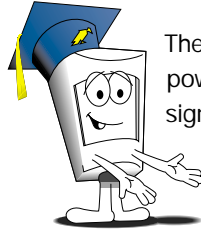


Crow Electronic Engineering

# Genius



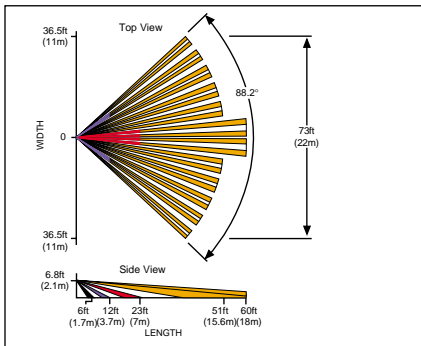
**DOUBLE DUAL OPTIC SYSTEM**



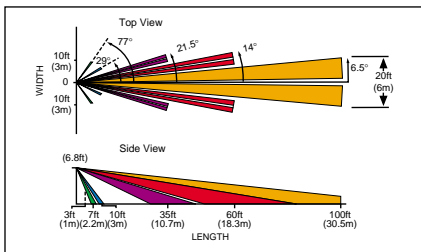
The Genius' **Double Dual™ Optic System** is controlled by a powerful microprocessor which uses Crow's proprietary digital signal analysis to produce a three-dimensional thermal image of the protected area. It remembers this image, and **focuses only on the intruder**. It will automatically adapt to environmental changes in wind, temperature and background noise. When conditions change, the Genius' compensation circuitry automatically adjusts itself to the new conditions, maintaining sensitivity level and detection capability with virtually no false alarms.

The security logic for the Genius is embedded in the ASIC (Application Specific Integrated Chip) component and it can not be violated or decoded, making it perfectly suited for **high security applications**.

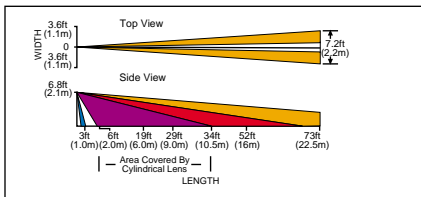
The Genius is available with the standard wide angle lens or optional long range and vertical barrier lenses (see array diagrams); all are interchangeable.



**WIDE ANGLE LENS (Standard)**



**LONG RANGE LENS (P/N GE 02)**



**VERTICAL BARRIER LENS (P/N GE 03)**

## TECHNICAL SPECIFICATIONS

Detection method	2 matching dual elements/optics – Passive infrared
Detection speed	0.5 to 6 ft/sec (0.15 to 1.8 m/sec)
Sensitivity	2°F at 3 ft/sec (1.1°C at 0.9 m/sec)
Warm up period	3 sec
Alarm period	2 sec
Power input	7.8–16 VDC
Current draw	8.4 mA between 7.8 and 16 VDC
Alarm output	N.C 28 VDC 0.1A with 10 Ohm series protection resistor
Tamper switch	N.C 28 VDC 0.1A open when cover is removed
Automatic temperature compensation	Constant gain at -4°F to +158°F (-20° to +70°C)
Humidity	Up to 95% R.H. non-condensing
RFI protection	30 V/m 10–1000 MHz
EMI protection	50,000 V of electrical interference from lightning or power through
Operating Temperature	-4°F to 158°F (-20°C to +70°C)
Visible light protection	Stable against halogen light at 3.3 ft (1 m)
Lenses	Wide angle, long range, vertical barrier (curtain) – Interchangeable
Dimensions	3.8" (97 mm) x 2.5" (63.3 mm) x 1.7" (43.4 mm)
Weight	3.0 oz (108 gr.)

NOTICE: Genius passive infrared motion detectors are designed to detect intrusion and to send an electronic signal to alarm control systems, should intrusion occur. The warranty does not make the manufacturer or the distributor of Genius an insurer nor shall either be liable for consequential damages resulting from any breach of warranty, express or implied, applicable to their use. Specific legal rights may vary from state to state in the United States and from province to province in Canada. Crow reserves the right to change the above specifications without prior notice.



Crow Electronic Engineering

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