



# Access Denied™ SYSTEMS

## Bio SonarSecurity System™ (KBSP)

Automatically locks computer when user leaves, authenticates user upon return

Precise Biometrics



RFIdeas



The Bio SonarSecurity System will:

- secure your data
  - provide a password replacement system
  - authenticate users
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- Removes the "security responsibility" from irresponsible users.
  - Restores system to previously accessed screen when authorized user returns.
  - Identifies user by fingerprint, eliminating the need for passwords and cost associated with lost, stolen or changing passwords.
  - Provides multi-factor security to control threat of insider/employee data theft.
  - Assists with regulatory compliance, i.e., HIPAA, Sarbanes-Oxley Act, Gramm Leach Bliley Act.
  - Enhances customer confidence around securing personal and financial data.
  - Compatible with the BeCrypt Encryption System.

Internal data security threats are no longer just an IT issue, but a business survival issue

Technical Specifications 

## The Bio SonarSecurity System™ Contains:

(Model KBSP)

- Bio SonarSecurity System Software (on CD)
- Bio SonarSecurity System Manual (on CD)
- Access Denied Systems Sonar Transceiver
- Access Denied Systems - Precise Biometric™ 100xs Fingerprint Scanner

## Technical Specifications

### System Requirements

Operating System Requirements: Windows 2000 or XP
Ports: 2 USB Port2
Disk Requirements: 15MB Free Space on C: Drive, CD Drive
Computer: IBM or Compatible
CPU: Pentium III or newer
RAM memory: 256 MB or greater

### Sonar Transceiver

Typical Read Range: Minimum: 14" - Maximum: 36" (Recommended) up to 60" allowed
Dimensions: Reader: 3.900"x2.20"x0.935"
Power Supply: 5.0V via USB Port
Data: USB port
Operating Temperature: 40.F-120.F
Operation Humidity: 0-95% relative humidity (non-condensing)
Transducer Frequency: 40KHz
Certifications: FCC Certification, United States

### Silicon Scanner

Recognition rate: Less than 0.5sec
Resolution (ppi): 192 x 16 pixels @ 500 ppi
Effective Sensing Area: 9.75mm x .081mm
Physical Dimensions: 60 x 47 x 13mm (2.4 x 1.9 x 0.5 inches)
Weight: ~20g
Power supply (via USB port): DC 5V ±5%
Maximum power consumption: 100mA
PC Connection: USB Port
Operating temperature: 0 to 50° C (32 to 120° F)
Fingerprint Technology: Silicon-based image capture
Data size (bytes): 2000 encrypted
FRR (False Rejection Ratio): 1/1,000
FAR (False Acceptance Ratio): 1/100,000
Overall Durability: Scratch and impact resistant (stress-tested to 40,000 psi), Rub-resistant to 10M rubs.
Certifications: FCC Certification (Part 15 Class B), CE

## The Way It Works

The Bio SonarSecurity System™ (KBSP) software is installed on the computer. The proximity distance is set for the particular computer (the distance is software settable from 14 to 36 inches) and each user registers their fingerprint on the Bio SonarSecurity System. The fingerprint minutia points are encrypted and stored. When the system is activated, any attempt to deactivate the Bio SonarSecurity System by means of removing the sonar device or biometric fingerprint scanner renders the computer inoperable (until the devices are reattached).

When no active users are within the sonar range, the system is locked. The keyboard and mouse cease to function and the monitor is blanked out - although programs may be running in the background. As a user approaches the computer, the computer senses movement of a potential user and the Bio SonarSecurity System requests the user authenticate themselves via the Precise Biometrics fingerprint scanner. If the user is authenticated, the user is allowed access to the system.

When the user leaves the proximity of the sonar sensor, the system locks instantly, regardless of any activity on the system (i.e. an unauthorized person accessing the system by typing on the computer keyboard prior to the system locking). When the same user returns, they are returned to the same screen that they left. If a different authorized user logs in, the computer logs the new user in and the previous user is logged out.

This system does not use badges to identify the user or when the user leaves the proximity of the computer. This system is ideally suited for situations where there are many users for each computer such as a shop floor and kiosk applications. The cost savings of not having to badge many users may be substantial.

The Bio SonarSecurity System is compatible with the Mercury Enterprise Software system and the ADS Encryption System.

## Key Benefits

- Fingerprint authentication determines workstation access.
- Computer automatically locks as authorized user moves away.
- Eliminates the need for passwords.
- Ease of computer access results in high user acceptance.
- Compatible with the Mercury Enterprise Software system.
- Compatible with the BeCrypt Encryption system.



**Access Denied**  
SYSTEMS

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