



CryptoVault™

Powerful and Dynamic Software Encryption Application

Secure, Aggressive Data Encryption

An impenetrable data encoder

CryptoVault is a powerful encryption application based on a new algorithm developed by Dr. Frederick J. Foreman, a graduate of Massachusetts Institute of Technology.

The CryptoVault is dynamic. That is, it transmutes with each encryption to change the information into a form that only the person or machine intended to receive the information will understand it. Unless you have the agreed upon multi-level keys, nothing will be able to recover the information that has been encoded by CryptoVault.

A Top Secret Key

Why CryptoVault?

CryptoVault establishes a new era for modern software encryption programs. With Multi-Level Security consisting of an 1 million-bit Secret Key and an 8 million-bit Custom Key, CryptoVault has no equal.

Any file, image, text, numbers, etc. can be used as your secret key with CryptoVault. CryptoVault has a point and Click GUI Interface to support your encryption needs.

The algorithm changes with each encryption. With CryptoVault, information (files, text, numbers, etc.) is encrypted differently with no loss in cryptographic strength. CryptoVault is invulnerable to all Cryptanalytic attacks or being broken.

Your data is the most important asset of your business. It must be protected at all cost from information thieves and others that are out to ruin your livelihood if they get to your private data.

CryptoVault protects your data, keeps others from invading your privacy, and insures that your most coveted assets can never be compromised.

Files and directories can be easily encrypted, decrypted, and shredded using CryptoVault. Even single words, sentences, paragraphs, or portions of a file can be selected, encrypted, or decrypted with ease.

Authorized users can even view Files while they are encrypted. With CryptoVault, encryption or decryption is fast.

Encryption or Decryption speed is 20 megabits per second on a Pentium III 500 MHz computer.

Performance Measures

CryptoVault achieves the highest scores on all standards used to measure the strength of software encryption programs. These measures are:

1. Shannon File Entropy
2. Measure of Roughness
3. Index of Coincidence
4. Measures of Randomness
5. Compression Tests

For a single file of 16k or more, CryptoVault averages 99.99% perfection on the Shannon File Entropy test, Index of Coincidence test, and the Measure of Randomness test, 3×10^{-5} or less on the Measure of Roughness test, and 0% compression on compression tests. This means that CryptoVault produce encrypted files that have no recognized patterns: as perfect as one can get.

With its multi-level encryption strength, CryptoVault cannot be broken by brute force; even if all of the most powerful Quantum Super Computers were to work in parallel for the remaining life of the Universe.



Features

CryptoVault offers the most features of any available software encryption product. These features include:

1. File Encryption/Decryption
2. Directory Encryption/Decryption
3. Speed Encryption/Decryption
4. Selective Text Encryption/Decryption
5. Partial File Encryption/Decryption
6. Hyper-Dimensional Encryption/Decryption
7. Hyper-Dimensional Decryption
8. Text Editing with DynaEditor
9. Action Logging with DynaLog
10. File Cryptographic Analysis
 - a. Plain Text Probability Plots
 - b. Cipher Text Probability Plots
 - c. Shannon File Entropy Analysis
 - d. Measure of Roughness Analysis
 - e. Index of Coincidence Analysis
 - f. Tests for Randomness
11. Complexity Settings
12. Block Size Settings
13. Random Table Settings
14. File Shredding
15. Encrypted File Viewer
16. Pre-Defined Keys Settings
17. Custom Key Input: 0 to 125,000 64-Bit numbers
18. Secret Key Input: 0 to 125,000 characters
19. File Date and Time Stamper
20. Administrative Tools: Add User, Modify User, and View User Database
21. Levels of Encryption: Unclassified, Classified, Secret, and Top Secret
22. Microsoft Office and Adobe PDF Files can be converted to text to support your encryption needs.

Corporate Office:

AP Technology
5973 Avenida Encinas, Suite 140
Carlsbad, CA 92008



www.aptechnology.com

For more information, contact:

Phone: 760.929.4808
Email: sales@aptechnology.com
Fax: 760.930.6281

TRA-0002-9/07