



# Digital Watermark Technology

*Protect your Documents with Founder Digital  
Watermark Technologies and Solutions*



Founder's extensive experience in the security document market has led to the creation of several innovative security print technologies. Presently these technologies are available to OEM solution providers however commercial stand-alone applications are currently under development.

## Founder Hidden Information Technology

This application can embed tracking information invisibly into a background pattern, giving users with high document security requirements a method to track the source of or ensure original integrity of documents. The information is not visible to the naked-eye but can be detected by any supported commercial scanner. Founder's software can then recover tracking or document verification information, giving administrators a way to trace the source of illegal copies.

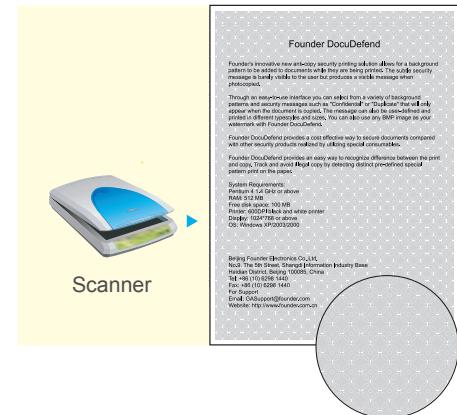
This technology could be utilized in legal, medical or insurance offices requiring a secure document tracking and verification system for printed document control. Additionally, this application could be used for secure ticket or coupon reproduction.

## Embedded Information in Document Background

Using the variable background technology, user-configurable information can be invisibly embedded into a light screen printed into the background of any document. Using a commercially available scanner and Founder software, an administrator can detect embedded information within any document printed with this technology. Using this information, an administrator can trace the source of illegal copies or verify the authenticity of a document.

### Embedded information can include:

- Unique document identity number
- Source printer's IP address
- Printed time and date
- Source computer name/ID
- Other user configurable information

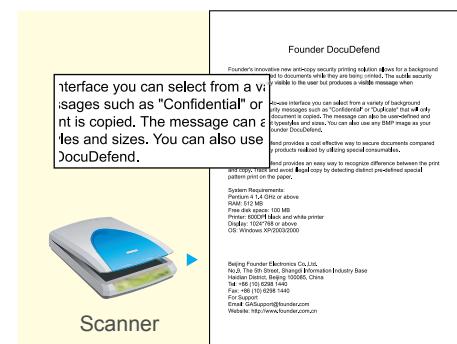


## Embedded Information in Document Content

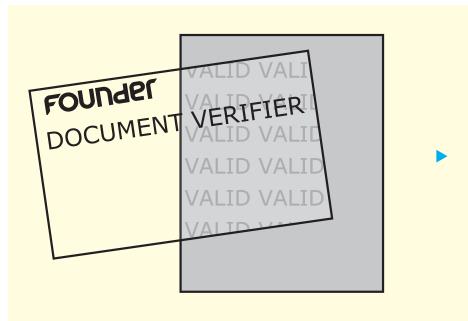
Using the document content technology, user-configurable information can be invisibly embedded into the text of any document. Using a commercially available scanner and Founder software, an administrator can detect the embedded information. Using this information, an administrator can trace the source of illegal copies or verify the authenticity of a document.

### Embedded information can include:

- Unique document identity number
- Source printer's IP address
- Printed time and date
- Source computer name/ID
- Copyright
- Detect document modification
- Other user configurable information



## Lock-Opening



With this security print technology, users can embed an invisible security message into the background of a document.

This information can be revealed by placing a customized verifier over the page enabling a rapid and efficient method of verifying a document's authenticity.

## Embedded Information in Digital Multimedia File

With this technology, invisible information can be embedded into digital multimedia file (such as image, video, audio etc.) which can only be detected by Founder detection software.

## Key Features:

## Imperceptibility:

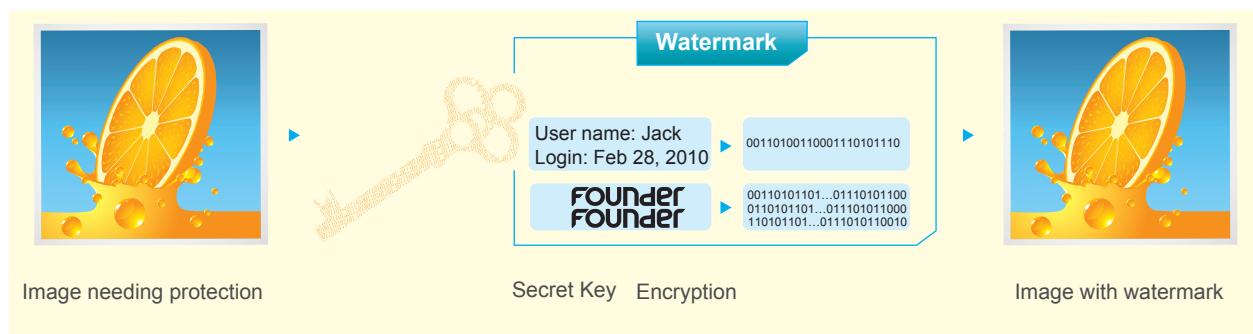
The digital watermark will not cause an obvious decrease in the quality, and will therefore not be easily discovered.

## Robustness:

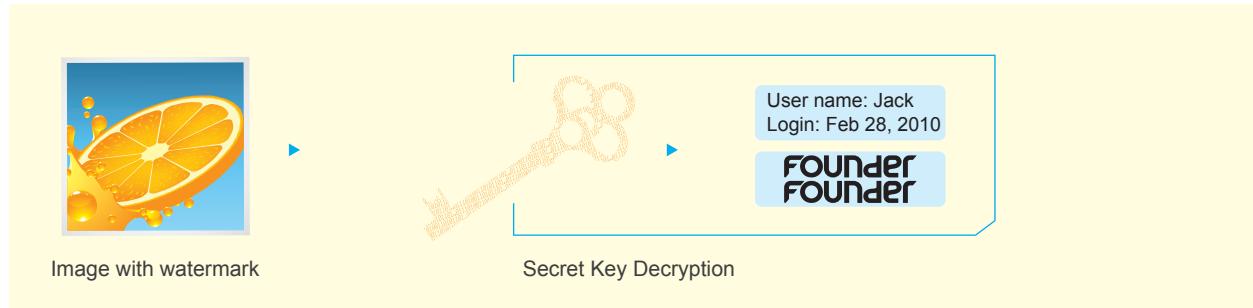
The digital watermark still can be detected correctly or preserved completely after many kinds of intentional or unintentional geometrical attacks such as scaling, clipping, rotation, JPEG compression or partial distortion.

With this technology, the image owner can protect his own copyright and prevent illegal usage.

## Step 1. Embedding the watermark:



## Step 2. Detecting the watermark:



[www.founder.com.cn/en](http://www.founder.com.cn/en)



## **FOUNDER**

**Beijing Founder Electronics Co., Ltd.**  
**No.9, 5th Street, Shangdi Information Industry Base**  
**Haidian District, Beijing 100085, China**

**International Business Division**  
**Fax: +86 10 62981440**  
**Email: [GASales@founder.com.cn](mailto:GASales@founder.com.cn)**

**For more products, sales and technical support information,  
please visit our website at <http://www.founder.com.cn/en>**