

# NLock0.9

Product documentation  
(Draft v0.1)

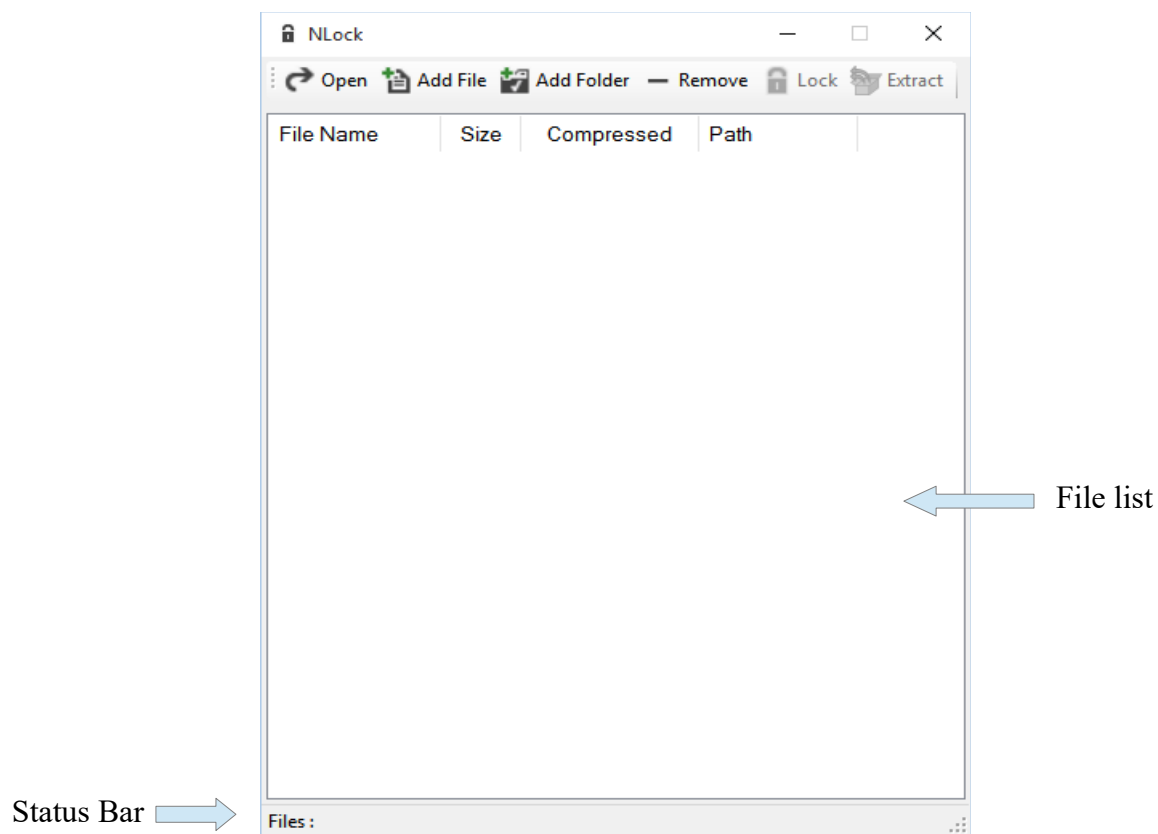
## Introduction

NLock is a experimental software which tries to bridge the gap between biometric modalities and encryption and as a result NLock software can lock your files using a conventional PC webcam. You can lock files and using NLock application you can unlock your NLock files from anywhere.





## When not to use

Don't lock your important files using NLock for still the application is in beta version and security of the NLock application is not yet strong



## Main Windows



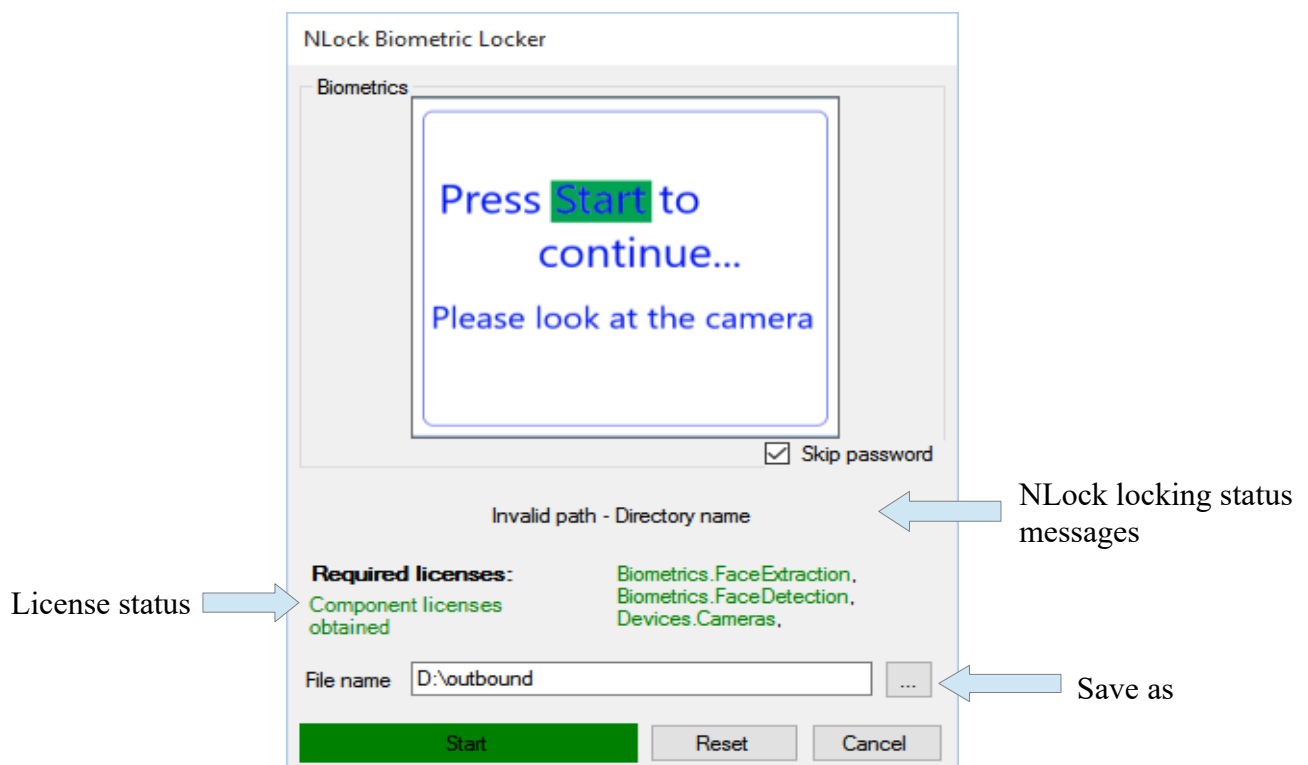
*Illustration 1: Main Window*

- Open  - Open a locked NLock container (.nlk) for editing
- Add File  - Add files to the currently editing NLock container
- Remove  - Remove selected file from the file list area
- Add Folder  - Add a folder to the currently editing NLock container and it will add

the its contents recursive with all the sub-folders and files within sub-folders.

- Lock  - This will lock the currently editing NLock container with details of the users face and save it to a desired location. It will open up the [Illustration 2 : Biometric Locker Window](#)
- Extract  - This will extract an opened NLock container to a desired location. It will open up a folder browser for you to select a location to extract.

## Biometric Locker Window



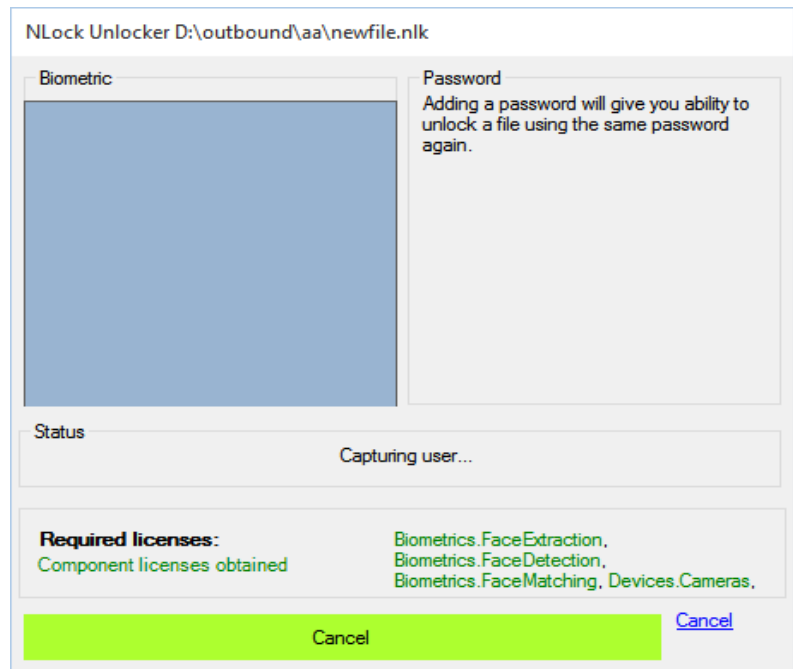
*Illustration 2: Biometric Locker Window*

- Start** – Will start biometric face capturing
- Skip Password** – Will skip the password addition process and save the NLock container (\*.nlk)
- Reset** – Will reset the Biometric locker form to initial status

# NLock File (\*.nlk) Opening Operation

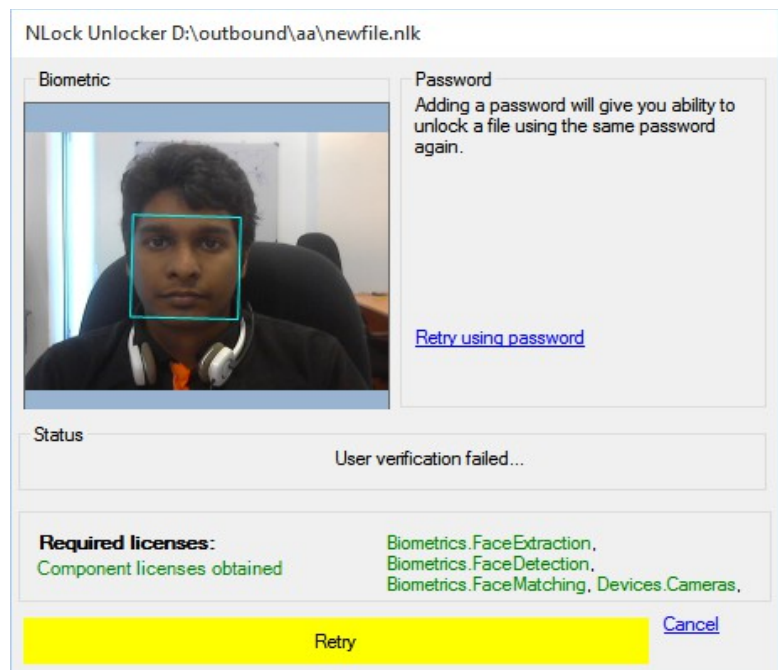
## 1. Capturing Process

NLock is capturing users face details (biometric template) from the camera.

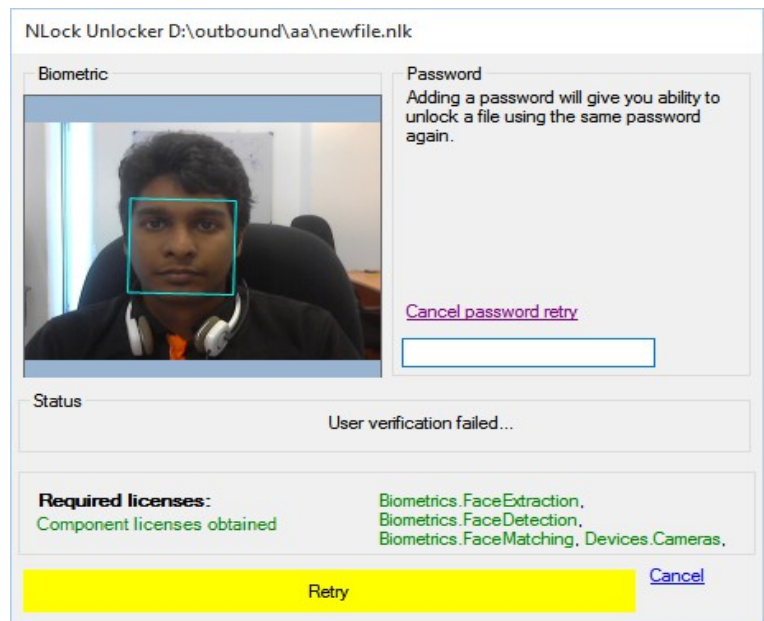


## 2. User identification failed

After capturing NLock has tried to unlock but because biometric operations failed to identify the user it fails to unlock and give you a chance to unlock it using the password.

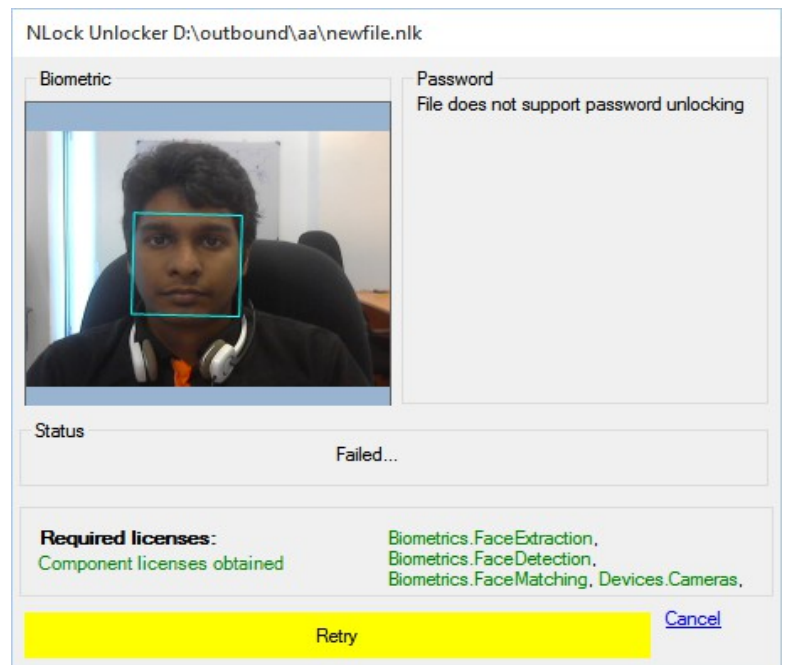


### 3. Password unlocking



### 4. File is locked without a password.

This file is locked without using a password and therefore can only be unlocked by the same users face.



# System Requirements

- **Microsoft Windows specific requirements:**

Microsoft Windows XP / Vista / 7 / 8 / 8.1 / 10, 32-bit.

Microsoft .NET framework 4.5 or higher

Microsoft DirectX 9.0 or later (for face capture using camera/webcam)

NLock internally uses Neurotechnology VeriLook SDK and thus should meet requirements of VeriLook SDK.

“VeriLook face identification technology, algorithm and SDK for PC, smartphones and Web.”

[Online]. Available: <http://www.neurotechnology.com/verilook.html>. [Accessed: 19-Feb-2016].

- **Hardware Requirements**

PC Webcam

supported devices

Processor

Ram – Ram usage is currently high on NLock due in memory locking operation and will be changed in future operations