

FaceAether®
Windows Login
User Manual (English Version)

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Chapter 1 FaceAether Introduction

FaceAether® is a face recognition solution, developed by Brillertek® Corporation, which utilizes facial features captured by webcam, and uses it as a safe mechanism for login to computer system. It is convenient, quick and safe to utilize facial features to login through **FaceAether®**. In addition, it resolves the problem of forgetting your login password or of unauthorized login by third parties.

Chapter 2 Need to Know

1. System Requirements

Operating System	Microsoft Windows XP / Windows Vista / Windows 7
Hardware Requirements	 Notebook or Netbook  For Windows XP --1.6 GHz Intel Pentium Compatible or Higher --1.6 GHz Intel Atom Processor N270 or Higher --512 MB RAM minimum, 1 GB recommended  For Windows Vista / For Windows 7 --1.6 GHz Intel Pentium Compatible or Higher --1 GB RAM minimum, 2 GB recommended
Screen Resolution	SVGA (800x600) or Higher
Hard Disk Space	100 MB and Above
Input Device	Built-in Camera

2. Operating Environment

- (1) **Ambient Lighting:** Extreme lighting conditions (insufficient or exposure of lighting) will affect the recognition speed or accuracy, it is **highly recommended to build template in different scenes**, e.g. office, residence, coffee shop ...etc.
- (2) **Posture and Position:** When using FaceAether® to login or build facial template, please look directly at the screen with full frontal view completely visible. This is to ensure that webcam can fully capture your entire facial contour and features.

3. Installation

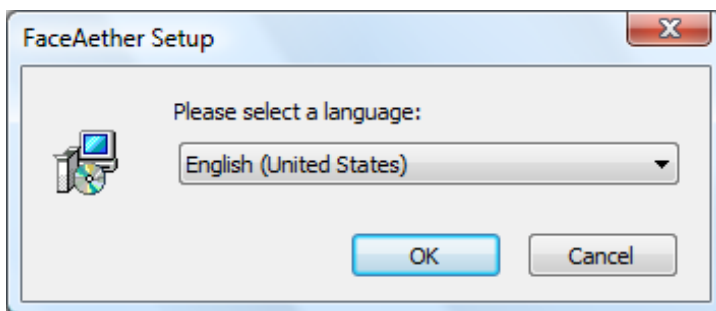
3.1 Before Installing

- *You must have Windows account password to operate FaceAether®, go to Control Panel to set up Windows account password.*
- *FaceAether® will replace user's original login system when installed on Windows XP (e.g. Fingerprint, Smart Card and other face recognition system... etc).*

3.2 Installation

Step 1: Double-click on  setup.exe to begin installing FaceAether®.

Step 2: Select your preferred language.



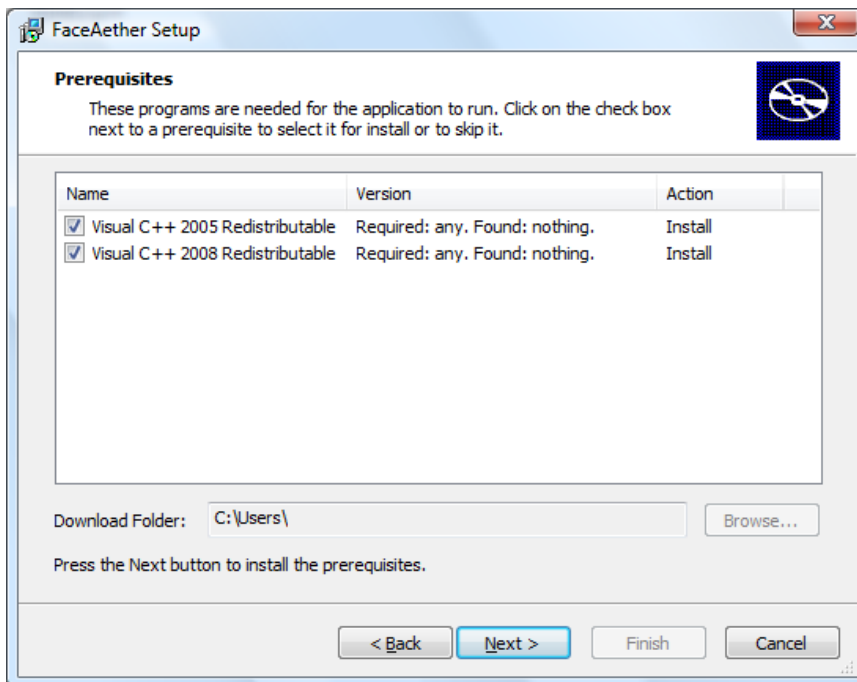
Step 3: Welcome to the Prerequisites Wizard, click [Next >] .



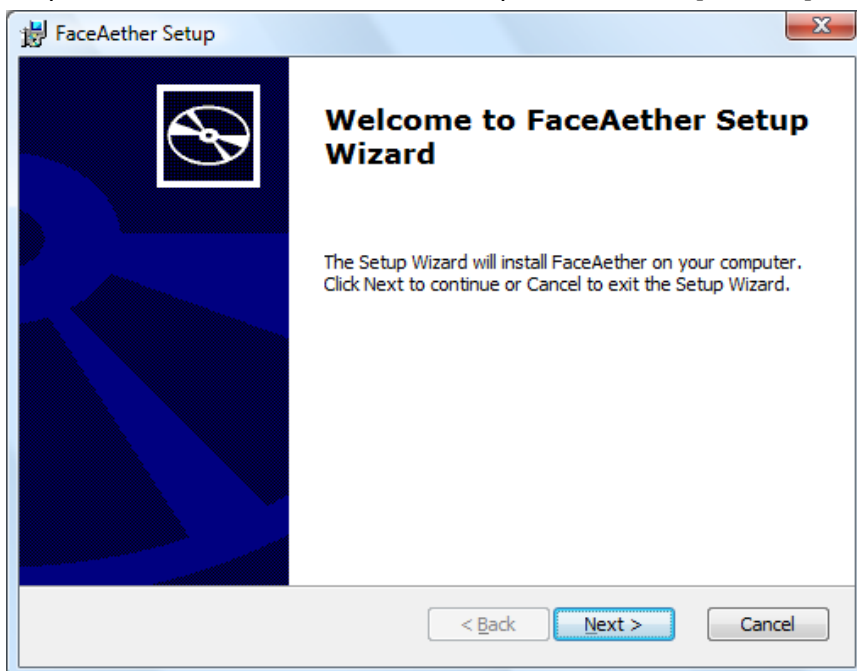
Step 4: Click on [Next >] to continue installing.

- Windows XP must install Visual C++ 2005 Redistributable

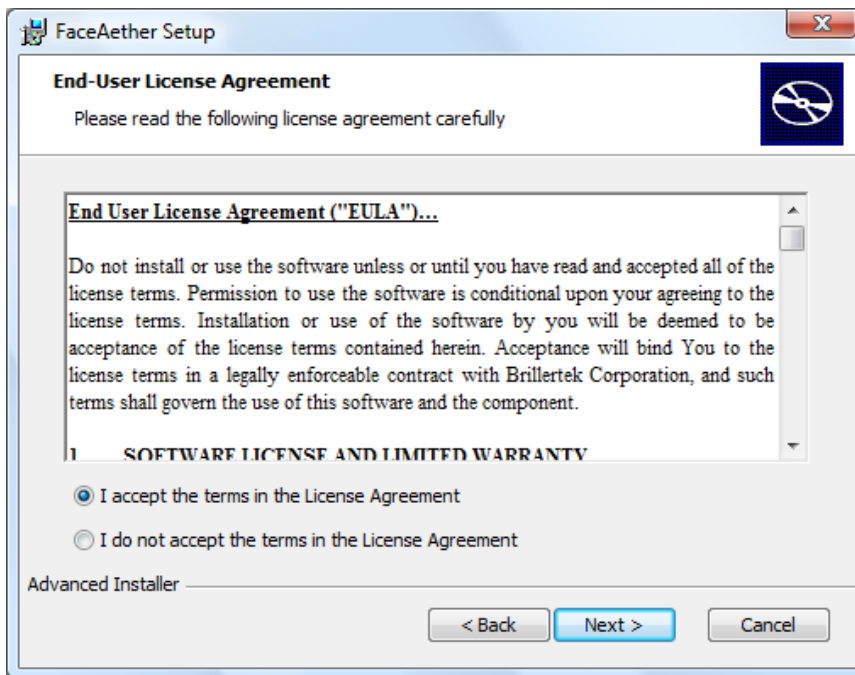
- Windows Vista / Windows 7 must install Visual C++ 2005 Redistributable and Visual C++ 2008 Redistributable



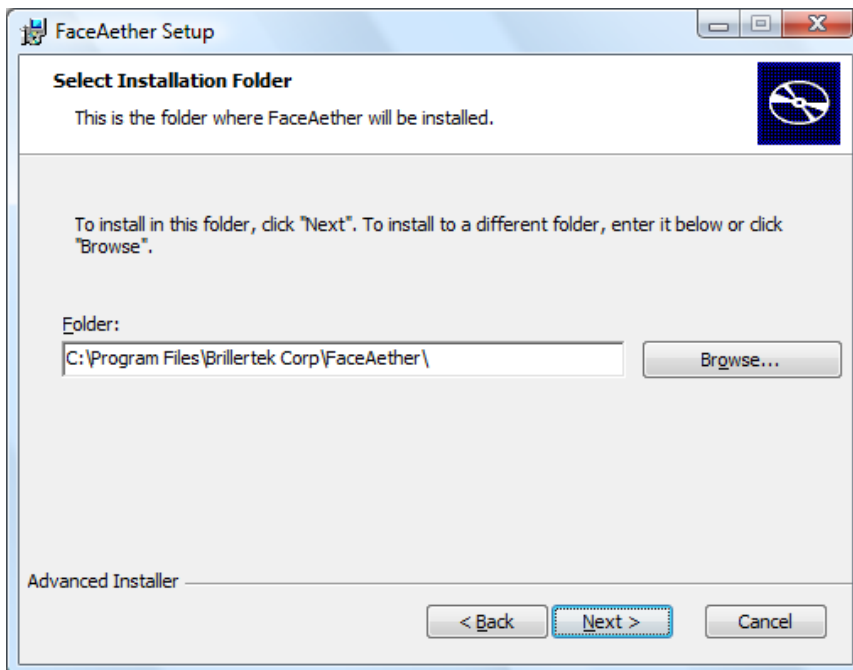
Step 5: Welcome to FaceAether® Setup Wizard, click [Next >] .



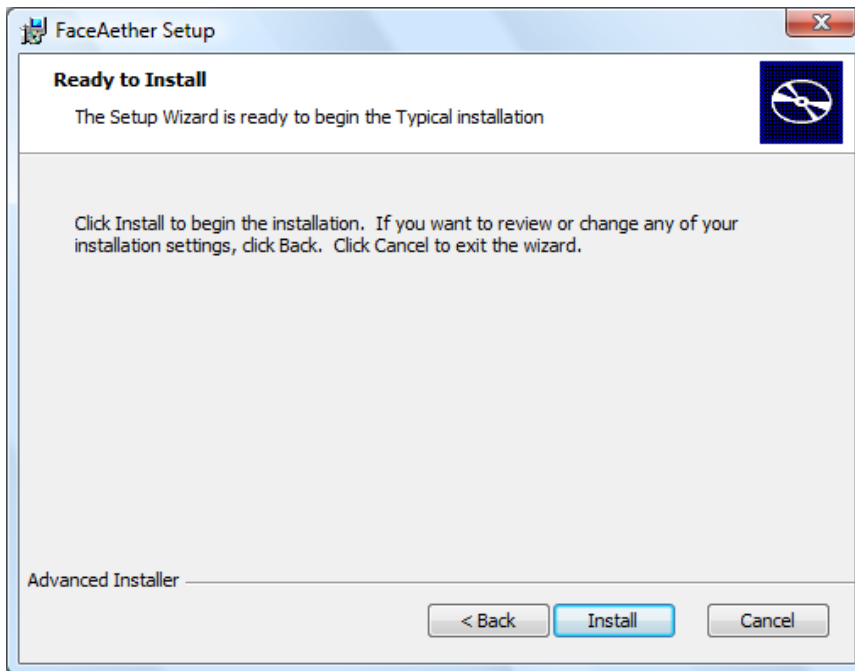
Step 6: Read the following End-User License Agreement carefully. Accept the terms then click [Next >] to continue installing.



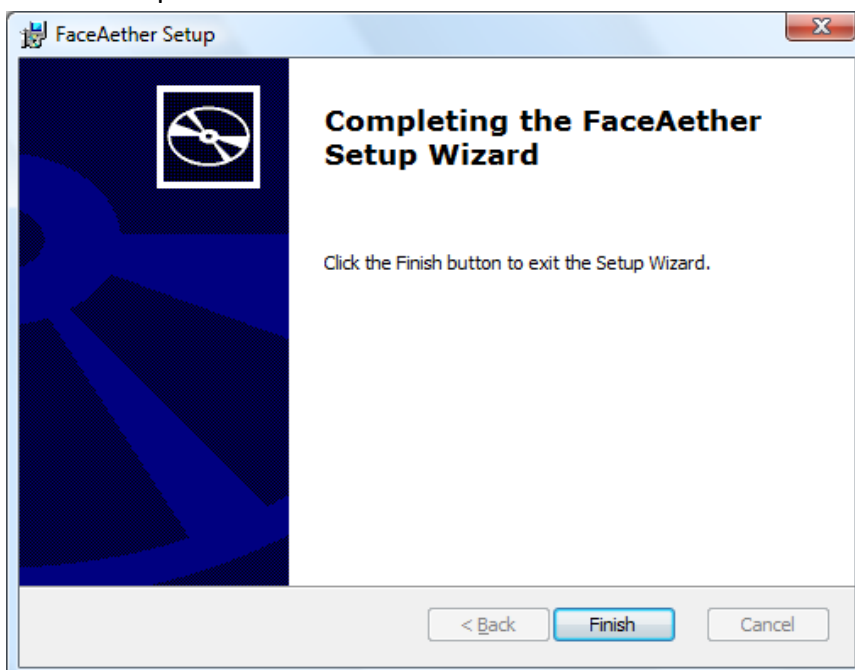
Step 7: Select folder to place the software then click [Next >] .



Step 8: The following screen will appear, click [Install] to begin installing FaceAether®.

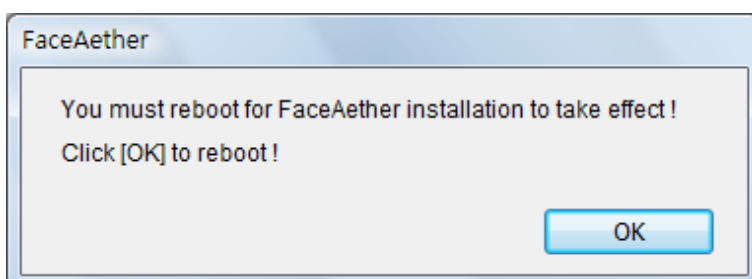


Step 9: At the end of the installation, you will see a screen as shown below, click [Finish] to complete installation.



Step 10: For Windows XP, click [OK] to reboot your computer. (Windows Vista / Windows 7 no need to reboot after installation)

Note: For Windows XP, enter password to login when launching FaceAether® for the first time.

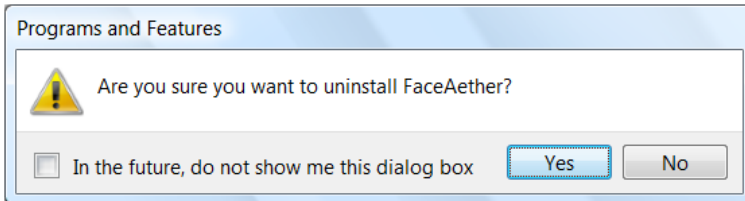


4. Uninstall

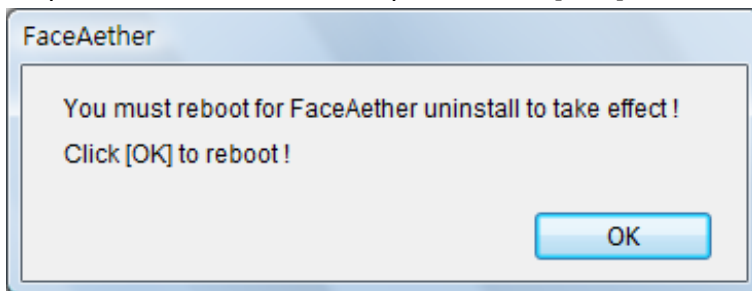
4.1 Windows XP

Step 1: **MY COMPUTER → CONTROL PANEL → ADD OR REMOVE PROGRAMS → select FACEAETHER® → UNINSTALL.**

Step 2: A dialogue box will appear, click [Yes] to uninstall FaceAether®.



Step 3: When uninstall is completed, click [OK] to reboot.



4.2 Windows Vista

Step: **MY COMPUTER → CONTROL PANEL → PROGRAMS → select FACEAETHER® → UNINSTALL.**
(Windows Vista no need to reboot after installation.)

4.3 Windows 7

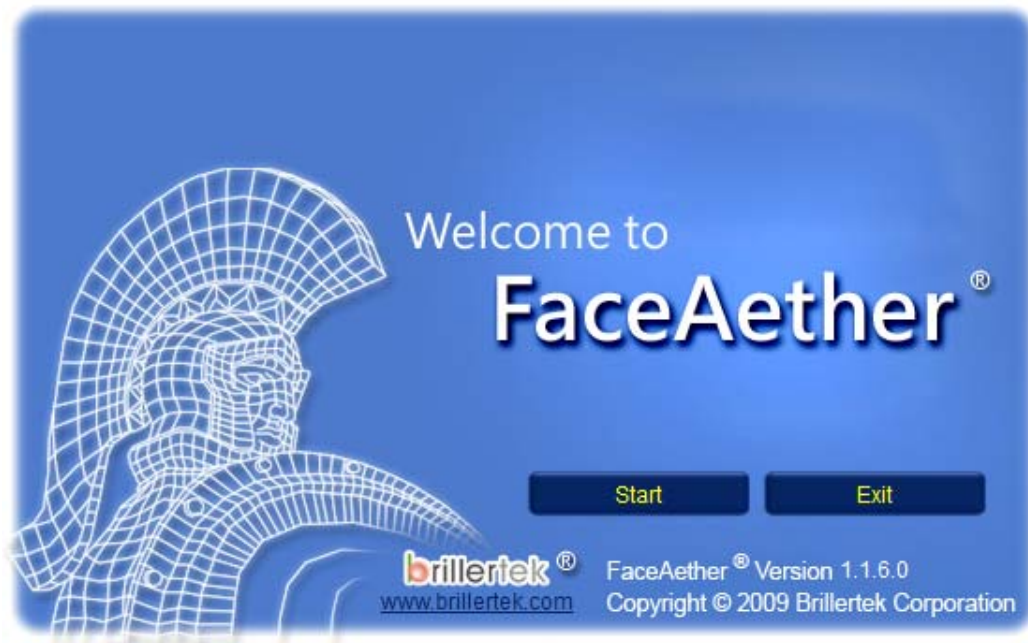
Step: **MY COMPUTER → CONTROL PANEL → PROGRAMS → select FACEAETHER® → UNINSTALL.**
(Windows 7 no need to reboot after installation.)

Chapter 3 Instructions

1. Activate FaceAether



Double-click FaceAether® icon on desktop to launch the software. If with no activation, the following screen will appear every time when you start FaceAether®.



1.1 Start

Click **[Start]** key to activate the software, the steps as follows:

Step 1: Click [Start] key.

Step 2: It appears “Please Wait...”, the system is verifying.

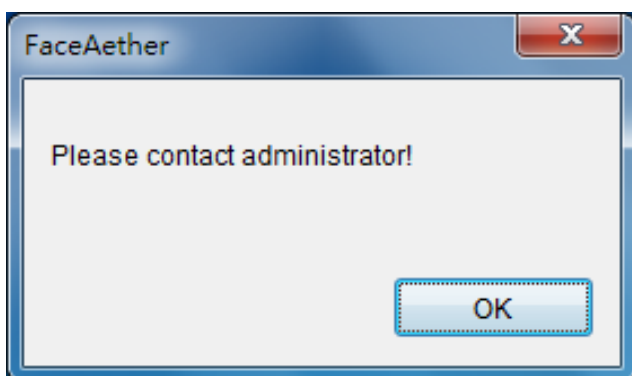
Step 3: After verifying successful, the FaceAether® User Interface appears.

1.2 Exit

If user chooses [Exit], The User Interface will be closed and user still can not utilize FaceAether® to login Windows.

Suggestion: If user wants to use FaceAether®, please activate the soft as soon as possible.

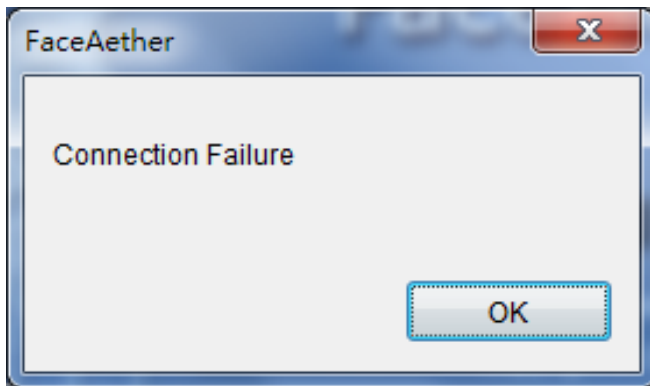
Note: If “Administrator” did not activate FaceAether®, when using the other account should appear the following message.



1.3 Fail to Activate

The following conditions may cause fail to activate.

1.If pop-up [Connection Failure] window (as below) when activating, please check the network connection status.



2.If pop-up [Activation Failure] window when activating, the operation of system equipment may perform maintenance work, please try again later or consult the customer service to help you to finish activating.

2. FaceAether GUI and Functions

2.1 Graphic Unit Interface (GUI) Description



No.	Name and Functions
1	<i>Image Acquisition Area</i> : Captures user's facial features.
2	<i>Status Bar</i> : When capturing facial features, displays status as scrolling bar.
3	<i>Recognition Level</i> : Normal, Premium, Professional. Recognition level affects speed of recognition.
4	<i>Launch FaceAether® when Windows login</i>
5	<i>Exit button</i>
6	<i>Username list</i> : Select Windows account username
7	<i>Password field</i> : Enter Windows account password
8	<i>Capture button</i> : Build facial template, one scene per click, a total of 15 photos.
9	<i>Delete button</i> : Delete all photos (facial templates)
10	<i>Counter</i> : Displays number of photos, maximum of 300. If photos exceed 300, system will automatically delete the first 15 photos, and so forth.
11	<i>Photo icon</i> : Displays the most recently captured photo (template).

2.2 Help

After FaceAether® Configuration is activated, press “F1” for help.

3. FaceAether Configuration

3.1 Build Facial Template

To Start → Double-click FaceAether® icon  to launch the software.



Step 1: **Select Windows account username and enter corresponding password.**

Step 2: Choose your desired recognition level, from low to high: *Normal, Premium, or Professional.*

Explanation: The higher the chosen recognition level the more complex to verify and login; Ambient lighting will greatly affect the recognition speed and accuracy.

+ **Standard Level:** The speed of recognition is the fastest when the level of recognition is the lowest. It is the recommended setting for users that require normal level of security. *Facial expression, posture and ambient lighting are not significant during process of verification.* This is system default setting.

+ **Premium Level:** The speed of recognition is medium when the level of recognition is medium. It is the recommended setting for users that require advanced level of security. *Facial expression and posture must be similar to facial template during process of verification while ambient lighting does not affect greatly.*

+ **Professional Level:** The speed of recognition is the slowest when the level of recognition is the highest. It is the recommended setting for users that require maximum level of security. *Facial expression, posture and lighting must be similar to facial template during process of verification.*

Step 3: Before building facial template, shift your face within the red restriction area in **Image Acquisition Area**. When your face is completely within the red restriction area, the color red will turn green, and you can click **Capture** to start building facial template.

Note: If your face is not completely within the red restriction area, software will not successfully capture your facial feature. Below is an example of false capture:



- Step 4: Click on **Capture** button for FaceAether® to start building facial template. While waiting for **Status Bar** to process, make note of the following precautions to avoid possible errors:
- Maintain suitable distance from webcam, the normal distance when looking at screen, with your face in upright position.
 - Do not use shelter (e.g. hair, sunglasses, other accessories... etc) to cover major parts of facial feature (e.g. eyebrow, eye, nose, lips, chin... etc).
 - Make sure major parts of facial features do not exceed the red restriction area in **Image Acquisition Area**, and *your head is near upright*, face facing toward webcam with neutral facial expression.
 - When unable to correctly frame your face in **Image Acquisition Area**, attempt to adjust facial expression, posture and ambient lighting until **Image Acquisition Area** can frame your face.



Step 5: When **Status Bar** finished processing, **Counter** will automatically record the number of photos (templates), and the **Photo Icon** will immediately display the most recent photo.

Technique tip 1: When you discover different facial expressions, posture or ambient lighting that is difficult to verify, you may use the scene as a new facial template. This will greatly increase the flexibility in the process of verification.

Technique tip 2: For users that wear eyeglasses, it is recommended to use both with and without eyeglasses as two separate scenes for new facial templates.

Technique tip 3: Portion of hotel rooms have dim ambient lighting while outdoors have bright ambient lighting, therefore it is recommended to build facial template in both scenes.

Step 6: When your facial template is built successfully, system will automatically recognize you in **Image Acquisition Area** and display your username.

Step 7: Check in the checkbox to “**launch FaceAether® when Windows login**”.

Step 8: Click on **Exit** button to leave FaceAether® Configuration.

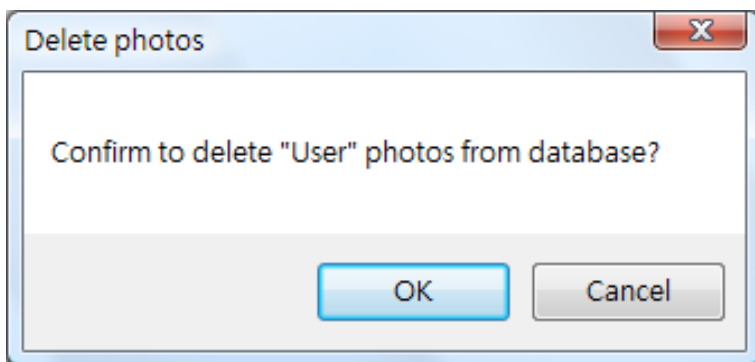
3.2 Delete Facial Template

Step 1: Select Windows account username and enter corresponding password.

Step 2: Click on **Delete** button.



Step 3: Click [OK] in the dialogue box “Confirm to delete “User” photos from database,” and system will delete **ALL** photos.



Step 4: **Counter** will automatically return to zero and the deletion is complete.

30 / 300 Photos → 0 / 300 Photos

Note: *User must enter Windows account password every time when you build or delete facial template.*

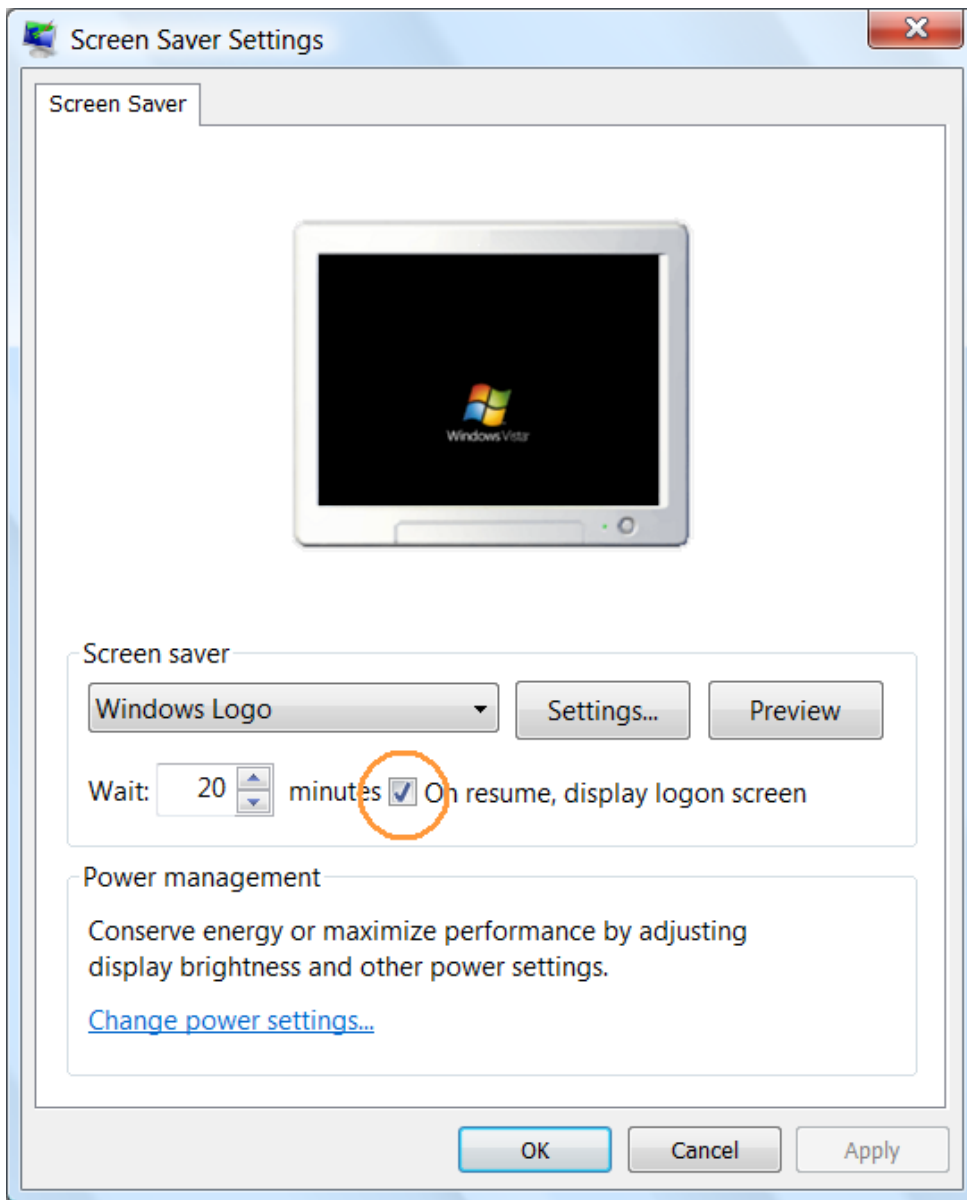
3.3 Tip Message

After you have deleted all facial templates, you must uncheck the checkbox that says “**Launch FaceAether® when Windows login**”. If the checkbox is still checked when you click on **Exit**, a tip message will appear like below:



3.4 Activate FaceAether® on Screen Saver

For FaceAether® to take effect upon returning from screen saver, go to **Screen Saver Settings** in **Control Panel**, check in the checkbox that says “On resume, display logon screen.”



4. Windows Login

Once all setup process is complete, the software is ready to use. If users are unable to login through FaceAether®, please login manually. Simply follow the following steps.

- When the login popup window appears
 - Step 1: Select username.
 - Step 2: Enter password then press **Enter** key.

Note: If unable to login successfully through FaceAether®, see the section on how to “build facial template”.

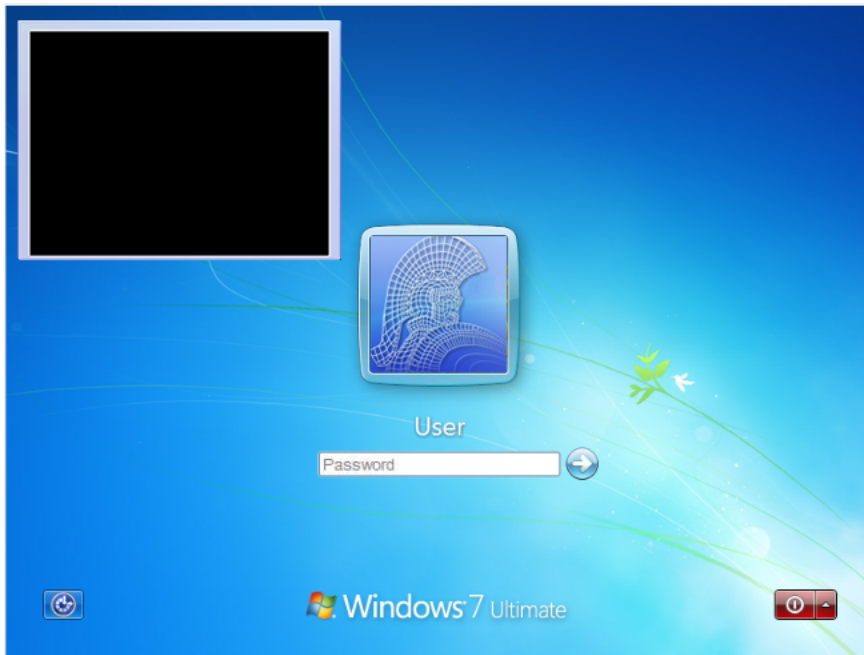
4.1 Windows XP



4.2 Windows Vista



4.3 Windows 7



5. Unusual Screen

5.1 Windows XP

5.1.1 Unable to detect webcam



5.1.2 FaceAether® inactivated



5.1.3 Other Media Software

Installation of other media software will possibly cause the above screen to appear.

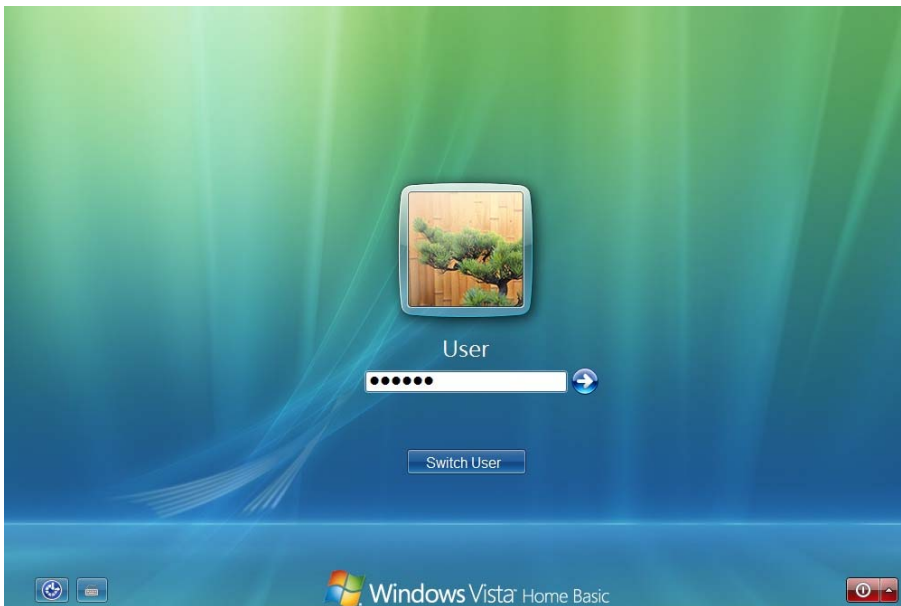
5.2 Windows Vista

5.2.1 Unable to detect webcam



5.2.2 FaceAether® inactivated

Login screen will return to normal Vista login screen.



5.2.3 Other Media Software

Installation of other media software will possibly cause the above screen to appear.

5.3 Windows 7

5.3.1 Unable to detect webcam



5.3.2 FaceAether® inactivated

Login screen will return to normal Windows 7 login screen.



5.3.3 Other Media Software

Installation of other media software will possibly cause the above screen to appear.

Chapter 4 Frequently Asked Questions (FAQ)

Install/Uninstall Software

Q1: After I installed the software, why does the screen show a message box “Unable to obtain user’s Windows account! Please go to Control Panel to check user account information.”?

A1: *Usually this message will appear when there is a computer system error, please go to Control Panel user account, set up a correct user account and password, and then reinstall FaceAether®.*

Q2: Why can’t I use the original fingerprint login system as well after I installed FaceAether®?

A2: *When FaceAether® is installed on Windows XP, it will replace user’s original login system (e.g. Fingerprint, Smart Card and other face recognition system... etc).*

Q3: Why am I unable to launch FaceAether® Configuration when I remove the prerequisites?
(Prerequisites: Visual C++ 2005/2008 Redistributable)

A3: *FaceAether® requires prerequisites to operate. If, for any reason, the prerequisites are removed, press F8 when you reboot to enter Safe Mode and uninstall FaceAether®. Then restart your computer and enter Windows to reinstall the software, then FaceAether® Configuration can operate.*

Build Facial Template

Q1: Why am I unable to build facial template?

A1: *FaceAether® face recognition solution use facial features to recognize user identity, therefore, do not wear masks, sunglasses or objects that might cover the face when building facial template.*

Q2: What happens if my appearance has changed greatly in a short period of time?

A2: *It is recommended for you to rebuild your facial template.*

Q3: When building facial template, why is the **Image Acquisition Area** unable to display my face?

A3: *(1) Please make sure that your webcam is activated. (2) Make sure you have closed other programs that are occupying webcam, e.g. Video Conference.*

Q4: When building facial template, why does a message show “No user account password. Please go to Control Panel to set up password.”?

A4: *FaceAether® is integrated with Windows account password. When there is no password, you are unable to build facial template.*

Q5: When using FaceAether® to login to Windows system, why does a message show at lower left corner “Password has been modified. Please enter new password then go to FaceAether® to set up user facial templates.”?

A5: *When you have modified your Windows account password, you must rebuild your facial template; you do not need to rebuild your facial template when you modify your Windows account username.*

Windows Login

Q1: Why does the screen display unable to detect webcam at computer startup?

A1: *Make sure your webcam device is functioning.*

Q2: Why does the screen display FaceAether® inactivated at computer startup?

A2: *Start FaceAether® Configuration, and check in the checkbox to “Launch FaceAether® when Windows login.”*

Q3: Why does FaceAether® automatically cancel to launch the software?

A3: *When there are no facial templates in the database, system will automatically cancel to launch FaceAether® at startup.*

Q4: Does FaceAether® protect my computer when I activate my screen saver?

A4: *Yes, check in the checkbox “On resume, display logon screen” in Screen Saver Settings.*

User Access Control

Q1: What is the access control of “Administrator” accounts when using FaceAether®?

A1: *Administrator will see all username in the username list at FaceAether® Configuration.*

Q2: What is the access control of “Standard User” accounts when using FaceAether®?

A2: *Standard user will see only his or her username at FaceAether® Configuration, and may only modify his or her own settings.*

Q3: What is the access control of “Guests” accounts when using FaceAether®?

A3: *To ensure Windows system’s maximum security, FaceAether® forbids guest users to operate the software. But guest users may still login through password mode.*

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