

Lesson 2 Facial Recognition

i For this lesson, Face template can be found in the lesson folder.

1. Instructions

- a. To Learn Facial, point + to center of face for higher accuracy in learning.
- b. Use proper front facing Facial photograph for Face Template.
- c. Ensure environment is bright enough or use Fill Light on WonderCam when required.

2. Introduction to Facial Recognition Function

Through face detection and facial recognition on the screen display, WonderCam provides data such as Face position and size etc.

3. Facial Recognition Operations

3.1 Enter Function

Push Navigation button to Facial Recognition menu.

3.2 Face Detection

Once WonderCam is in Facial Recognition mode, face detection will automatically be activated. When face is detected, a white frame will appear on screen to enclose the detected face.



3.3 Learning and Recognizing Face

To recognize specific face, WonderCam need to learn to recognize the face.

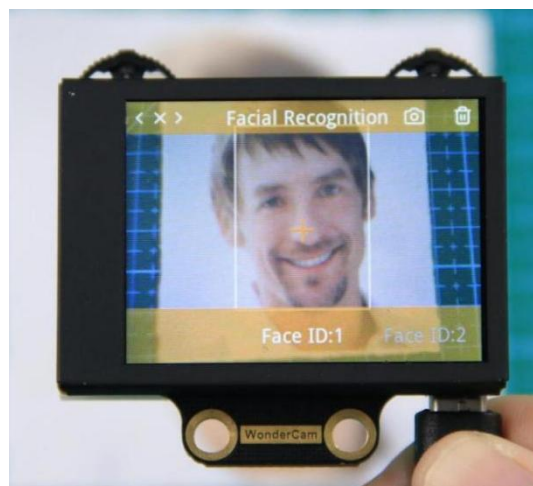
1. Learn Single Face

Step 1: Push Function button to left to enter Learn mode.

When enter to Learn model, a “+” will appear in the middle of screen, menu will show “Face ID:1”, “Face ID:2” etc. The ID is to tag and save different Faces.

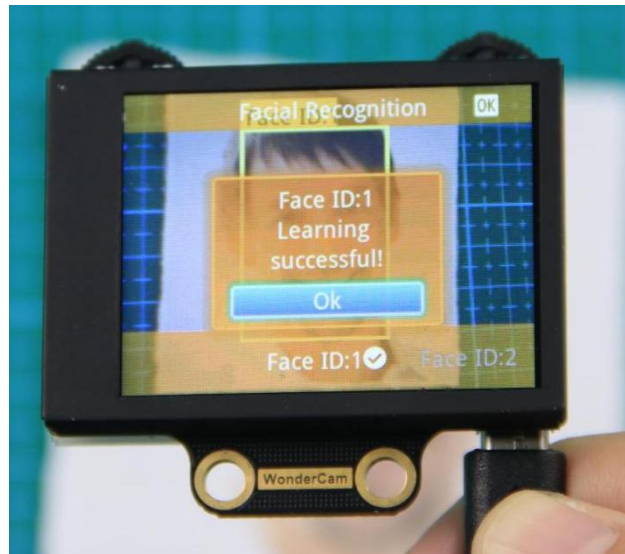


Step 2: Point on screen “+” to center of Face. Take note of the pointers given in Instructions.



Step 3: When face is centered, push Function button to the left camera icon to learn the face. When learning is successful, push Function button down once to OK and complete the learning process. If the learning is successful, when camera detected the

face, WonderCam will display the corresponding ID on screen.



2. Learn Multiple Faces

To learn more faces, when in Learning mode, push Navigation button to the right to to other ID number and repeat earlier process.



3. Recognizing Faces

When learning multiple faces is completed, Wondercam is able to display multiple faces detected in same display frame with their corresponding ID.



3.4 Delete Face

To delete Face ID that is no longer required. In Face Recognition Learning mode, push Navigation button to the Face ID number targeted to delete. Push Function button to the right toward Bin icon, push Function button down to OK to delete.



4. Facial Recognition Function Settings

In Facial Recognition main menu, press Function button down toward Gear icon to enter Settings interface.



Available for configurations are: Detecting Threshold, NMS Threshold, Recognition Threshold and Reset.

- **Detecting Threshold:** To set threshold is recognizing face. Higher value will have higher accuracy rate. However, higher value will also resulted in lower face detection rate.
- **NMS Threshold:** Non- Maximum Suppression is a computer vision method. Leave it at default value.
- **Recognition Threshold:** Settings for specific Face ID. Higher value will have higher accuracy rate. However, higher value may result in unable to recognize or only recognize at specific part or angle of the face.
- **Reset:** This will erase all previous recordings and reset to factory default value. Do note to Save settings to effective the reset settings.