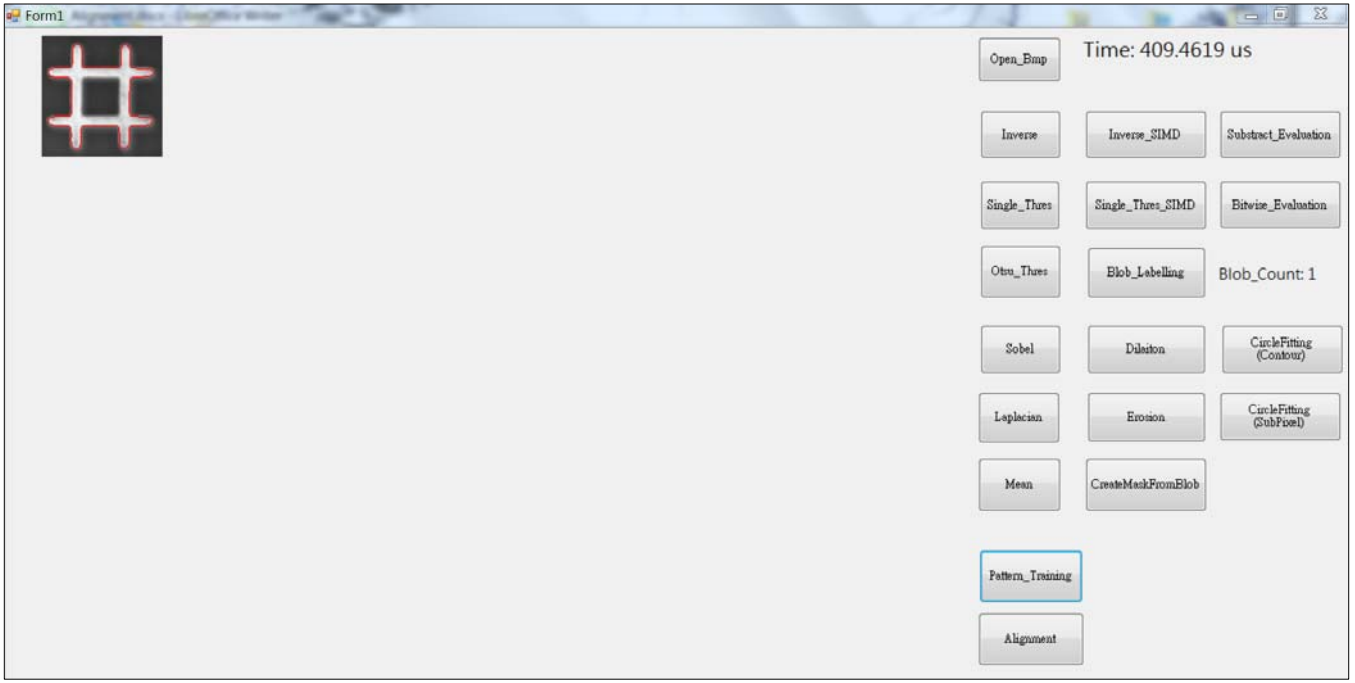
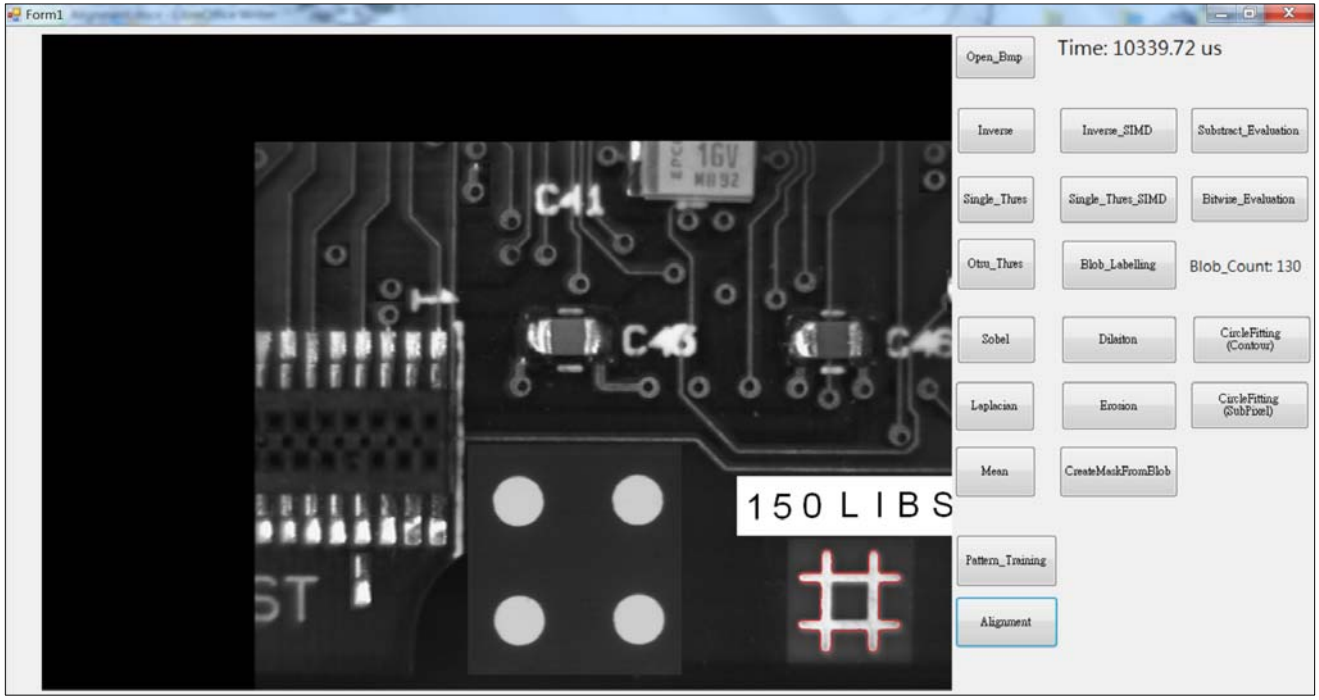
Lab 22 Alignment

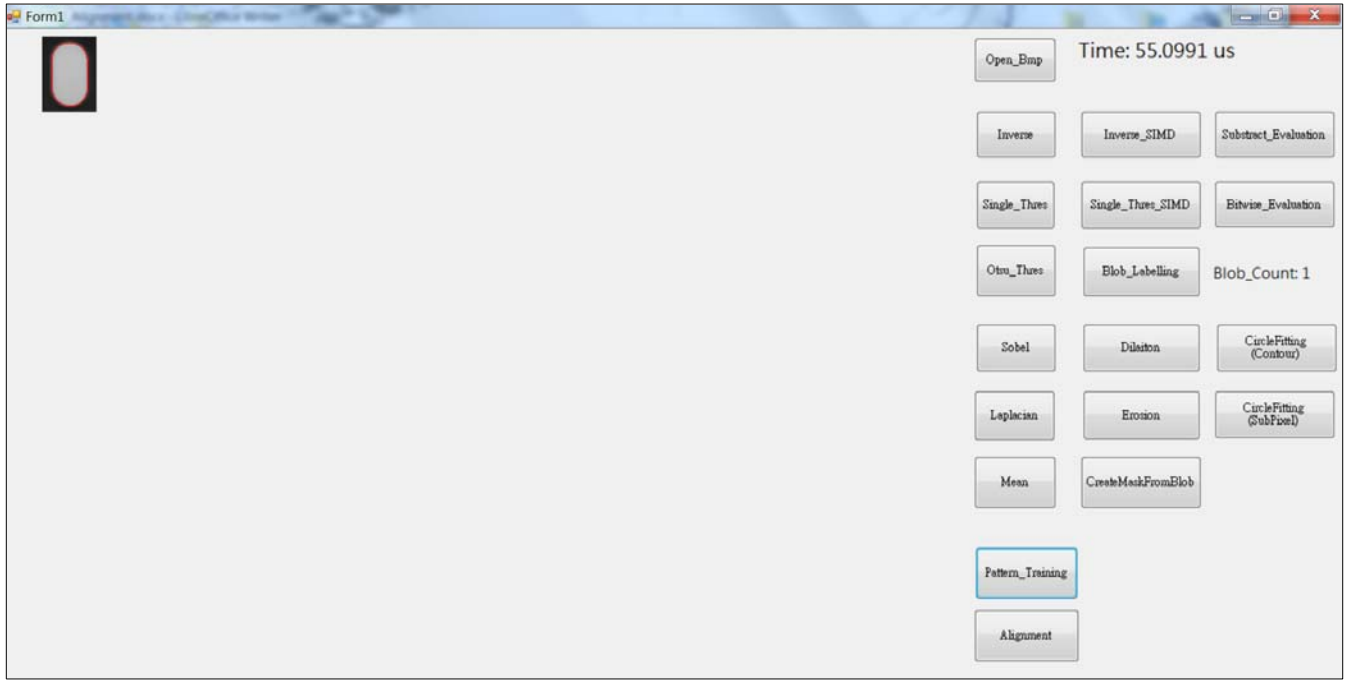
練習目的	提供的程式碼	需要的開發環境/安裝套件	執行指令與重點說明
Alignment	**VS2017/VS2022_C#:** MyApp project NAlign.cs	Visual Studio 2017 以上	**Pattern Training and Alignment** **NAlign.cs** ✓ 了解該如何將輪廓座標轉成不變矩特徵。 ✓ 熟悉並運用最小距離分類器。 **Form1.cs** ✓ 了解訓練樣板的流程(Pattern_Training)。 ✓ 了解定位的流程(Alignment)。 ✓ 在訓練樣板時，同時設定面積限制條件。

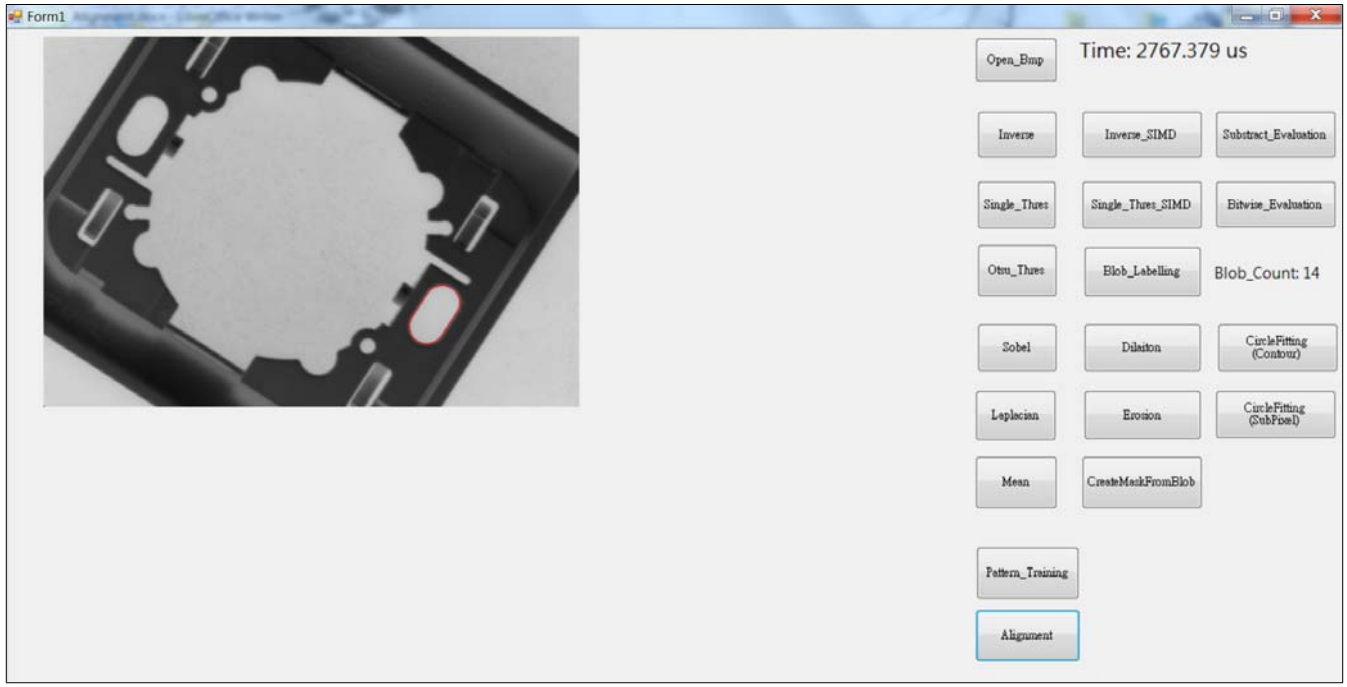
練習目的	執行結果
Alignment	**訓練樣板** 

定位


Form1
Open_Bmp
Time: 10339.72 us
Inverse
Inverse_SIMD
Substract_Evaluation
Single_Thres
Single_Thres_SIMD
Bitwise_Evaluation
Otsu_Thres
Blob_Labelling
Blob_Count: 130
Sobel
Dilation
CircleFitting (Contour)
Laplacian
Erosion
CircleFitting (SubPixel)
Mean
CreateMaskFromBlob
Pattern_Training
Alignment
C41
C46
150 LIBS

訓練様板


Form1
Open_Bmp
Time: 55.0991 us
Inverse
Inverse_SIMD
Substract_Evaluation
Single_Thres
Single_Thres_SIMD
Bitwise_Evaluation
Otsu_Thres
Blob_Labelling
Blob_Count: 1
Sobel
Dilation
CircleFitting (Contour)
Laplacian
Erosion
CircleFitting (SubPixel)
Mean
CreateMaskFromBlob
Pattern_Training
Alignment

	定位  Form1 Open_Bmp Time: 2767.379 us Inverse Inverse_SIMD Substract_Evaluation Single_Thres Single_Thres_SIMD Bitwise_Evaluation Otsu_Thres Blob_Labelling Blob_Count: 14 Sobel Dilation CircleFitting (Contour) Laplacian Erosion CircleFitting (SubPixel) Mean CreateMaskFromBlob Pattern_Training Alignment