# How To Use IB Demo Program

**Version 2.0.1 (April 27, 2018)**

# Contents

# 1 .Supported features

| Item | 1.0.0 | Remark |
|---|---|---|
| Save bmp image | O | |
| Save wsq image | O | |
| Save ISO 19794-4 image | O | |
| NFIQ | O | |
| Image zoom-in out | O | |
| Checking Duplicate | O | |
| Checking Finger position | O | |
| Smear Detection(Add to 09/30) | O | |

## 2. Specification

| Item | | Specification |
|---|---|---|
| **Mechanical** | Device Dimension | 114mm(W) x 132mm(L) x 72 (H), 4.5"(W) x 5.2"(L) x 2.8"(H) |
| | Device Weight | < 0.6Kg |
| **Hardware** | Interface | USB 2.0 High speed/Full speed, Plug & Play |
| | Sensor Type | Light Emitting Sensor (LES) |
| | Camera | CMOS Image sensor |
| | Resolution | 500DPI |
| | Image size — Slap | 80mm(W) x 76mm(L), 3.2"(W) x 3"(L) |
| | Image size — Roll | 40mm(W) x 38mm(L), 1.6"(W) x 1.5"(L) |
| | Indicate — LED | Green, Red, Orange |
| | Indicate — Buzzer | Magnetic Buzzer |
| | Extra Button | Supported two Buttons |
| | Supply Voltage | USB Level 4.40V ~ 5.25V |
| | Operating Current | Max 350mA |
| | Operating Temperature | -10℃ ~ 55℃ |
| | Humidity | 20 ~ 95 %RH < 40℃, Non-condensing |
| | Water and dust protection | TBD |
| | Static Discharge | IEC61000-4-2 Air Discharge : ±8kV Contact Discharge : ±4kV |
| | Sunlight | Has no effect on fingerprint image |
| | Certifications | TBD |
| **Software** | FBI Certifications | TBD |
| | API Interface | Capture One finger |
| | | Capture Two finger |
| | | Capture Four finger |
| | | Capture roll image |
| | | BIOAPI 2.0 |
| | Supported OS Driver | Window 2000, Window XP, Window 7, Vista, Linux |

# 2. Program Layout

## 2.1 Main View

You can select device

You can select capture sequence
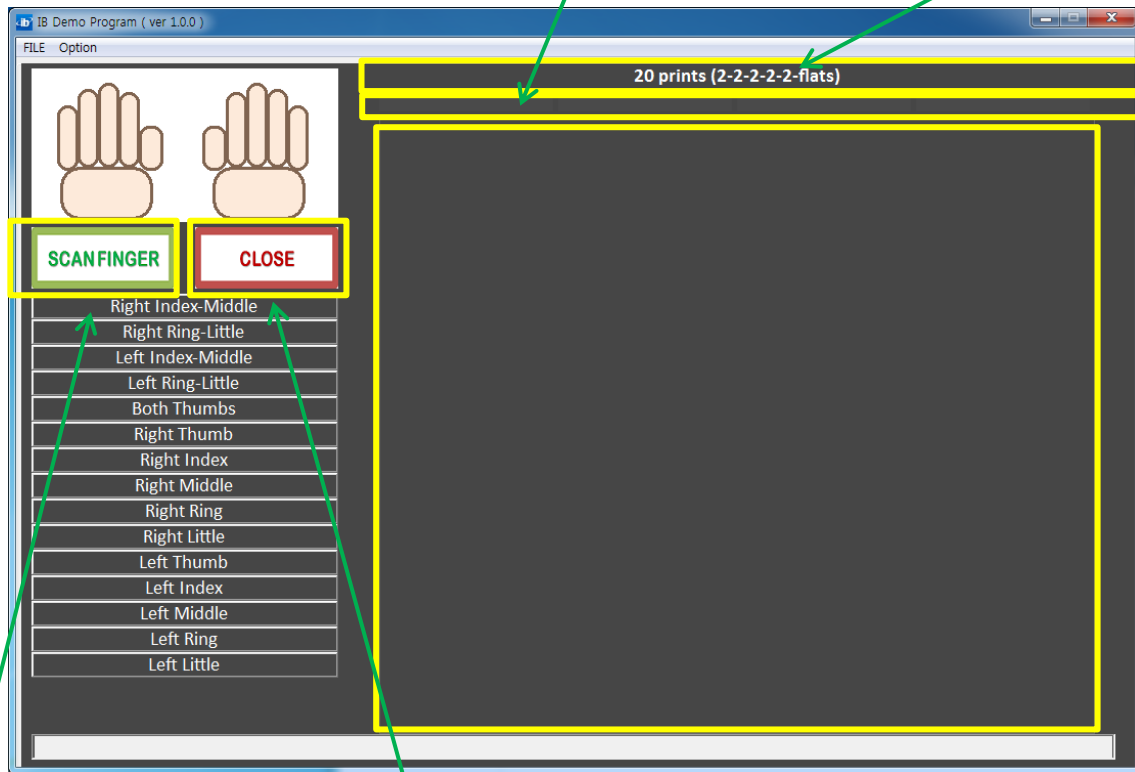
You can save captured images



You can capture fingers according to capture sequences

You can re-capture images
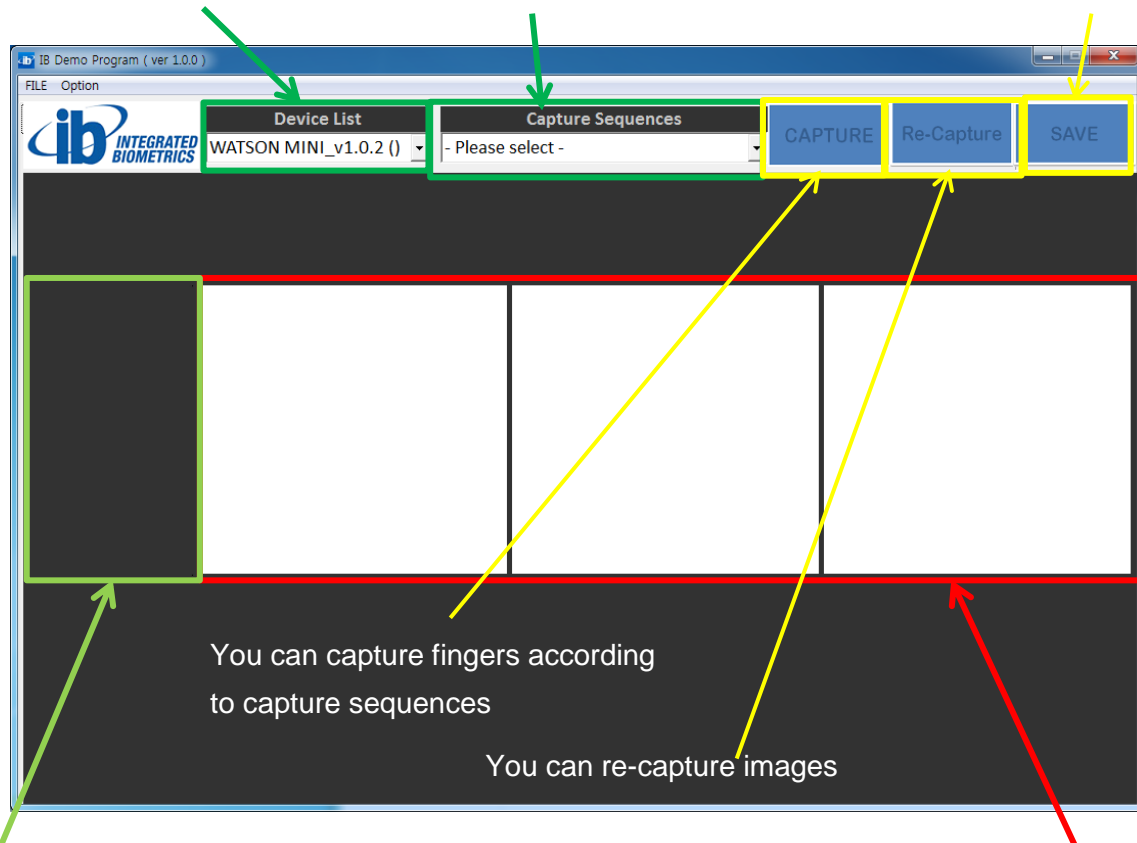
You can see sequence preview

You can see captured images

## 2.2 Capture View
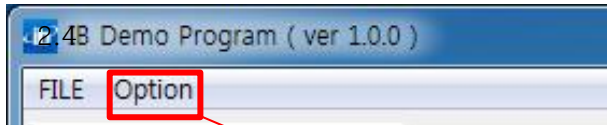
You can see finger quality

You can see capture sequence

20 prints (2-2-2-2-2-flats)

SCAN FINGER   CLOSE

Right Index-Middle
Right Ring-Little
Left Index-Middle
Left Ring-Little
Both Thumbs
Right Thumb
Right Index
Right Middle
Right Ring
Right Little
Left Thumb
Left Index
Left Middle
Left Ring
Left Little

You can start capture finger

You can return to main view

You can see capture image

### 2.3 Option View

**2.4B Demo Program ( ver 1.0.0 )**

FILE  Option

You can set Pre-Annotation finger

**Option**

You can select image formats
( bmp, wsq ,iso19794-4)

**Image Format**

☑ BITMAP

☑ WSQ

☑ ISO 19794-4

You can set minimum
acceptable NFIQ (1 ~ 5).

**Customize**

☐ Minimum Acceptable NFIQ(1-5)  1

You can set finger
duplication permission

☑ Finger Duplication Perimission

☐ Smear Detection

You can set Smear
Detection for roll

**Pre-Annotation**

☐ Right_Thumb

☐ Right_Index

☐ Right_Middle

☐ Right_Ring

☐ Right_Little

☐ Left_Thumb

☐ Left_Index

☐ Left_Middle

☐ Left_Ring

☐ Left_Little

Cancel          APPLY

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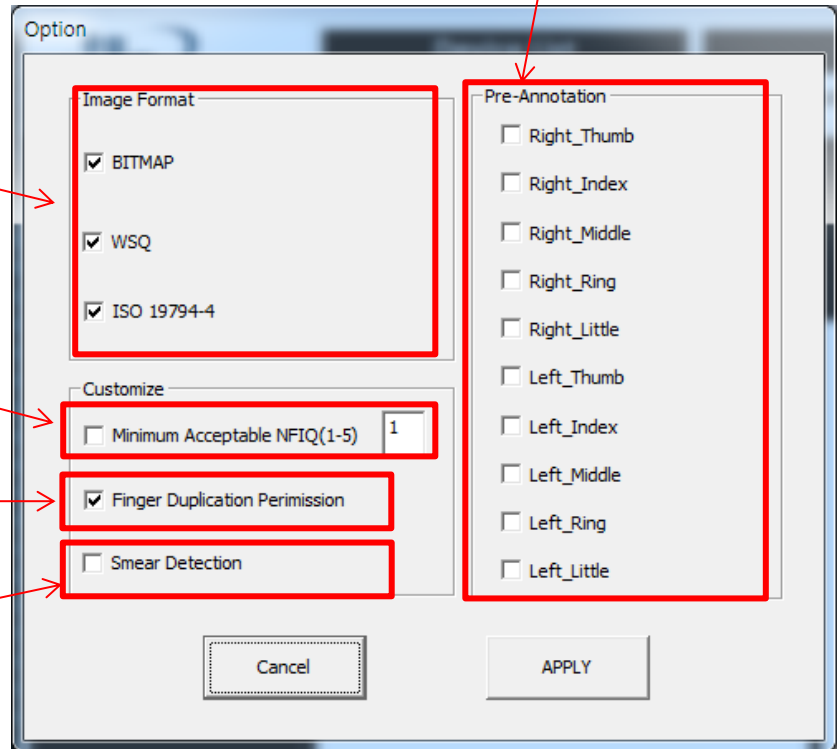
## 3. How to Scan finger

1. Select device and capture sequence you want to scan
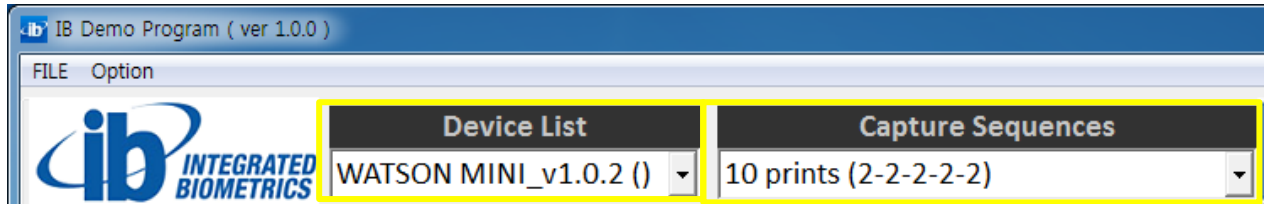


2. Select "Capture" button.
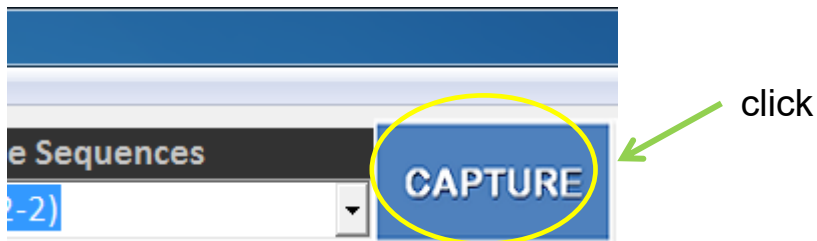


click

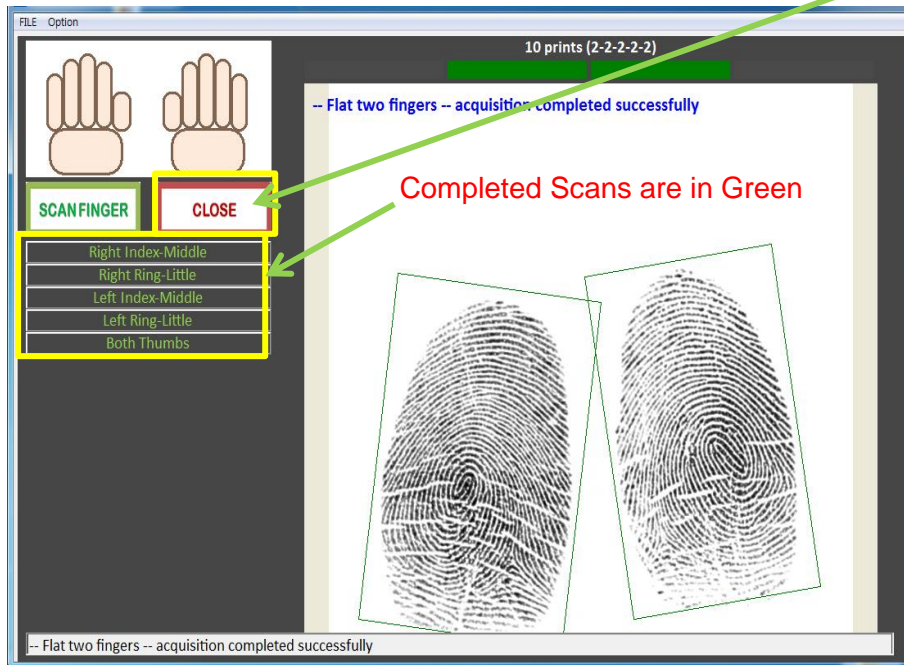3. Click "Scan fingers" button to proceed capture sequence
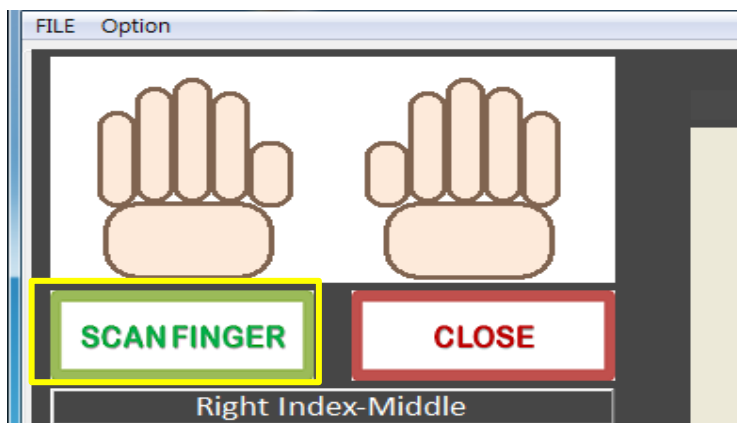


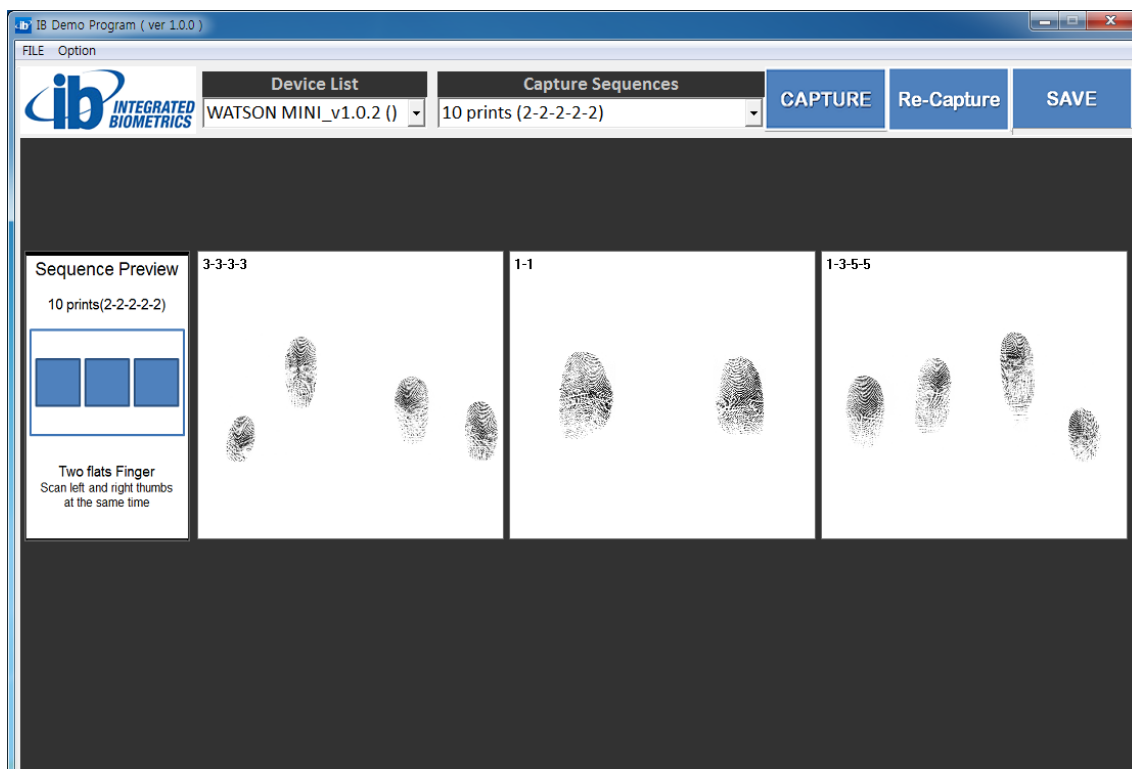4. According to finger indicator, put your fingers on the scanner
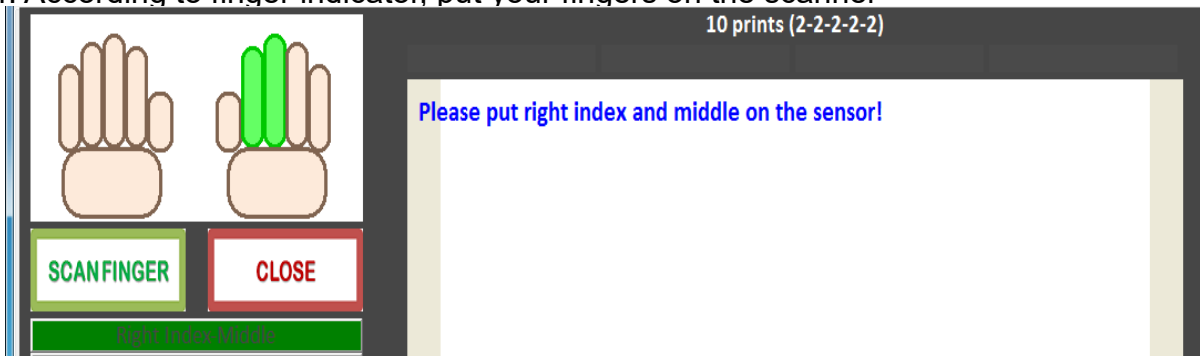
5. Once you input all fingers, the capture sequence will be finished.



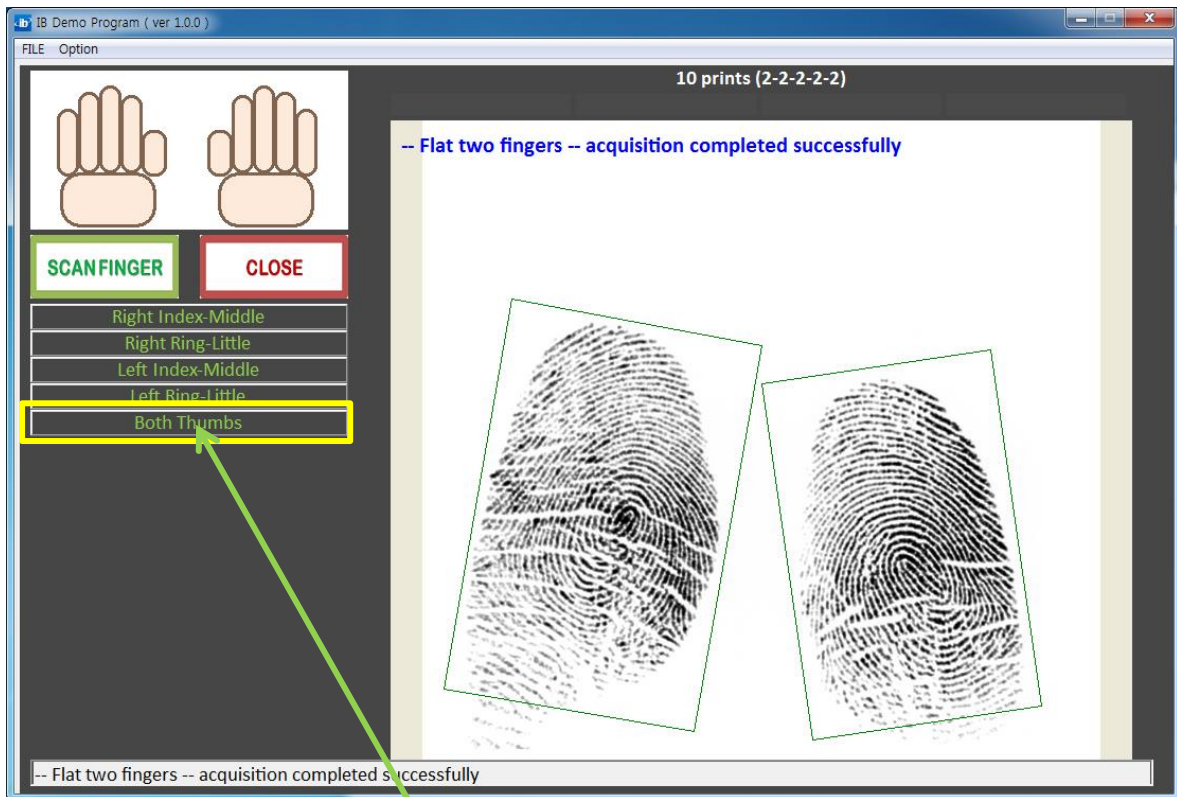If you want to go back to main view, click "Close" button.

Completed Scans are in Green

< Main view >

6. If you want to capture specific sequence again, you can click that button.



If you want to capture "Both thumbs" again, you can click "Both thumbs" button and capture again.
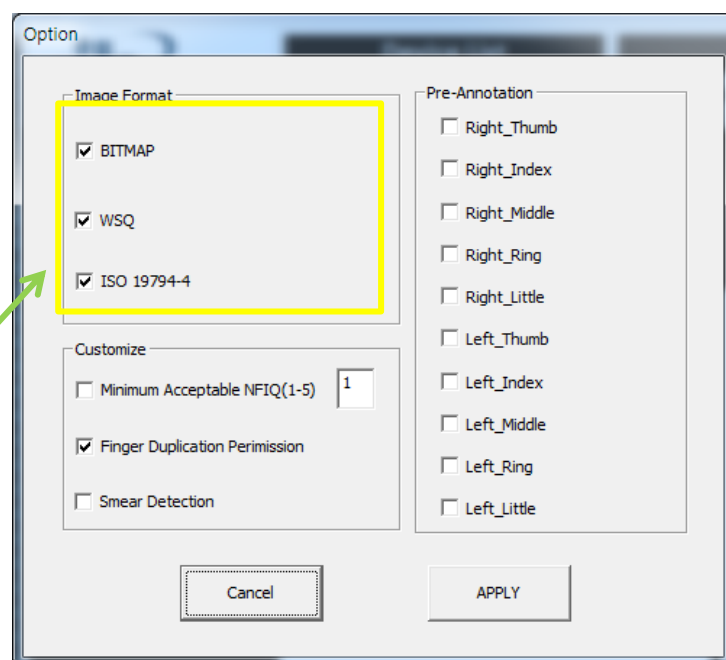
## 4. How to save images

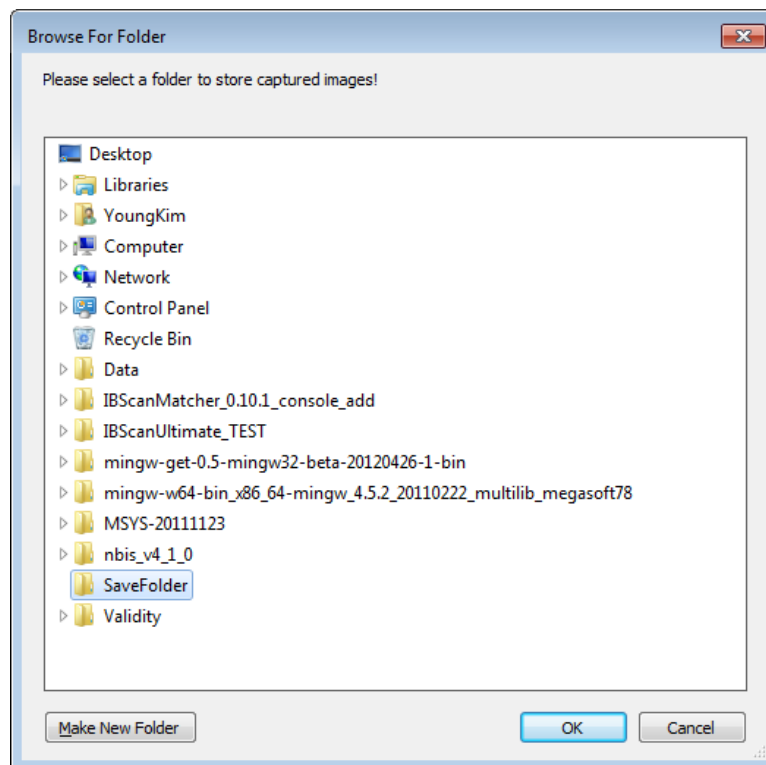1. If you have finished the capture sequence, you can save the captured images by selecting the "Save" button
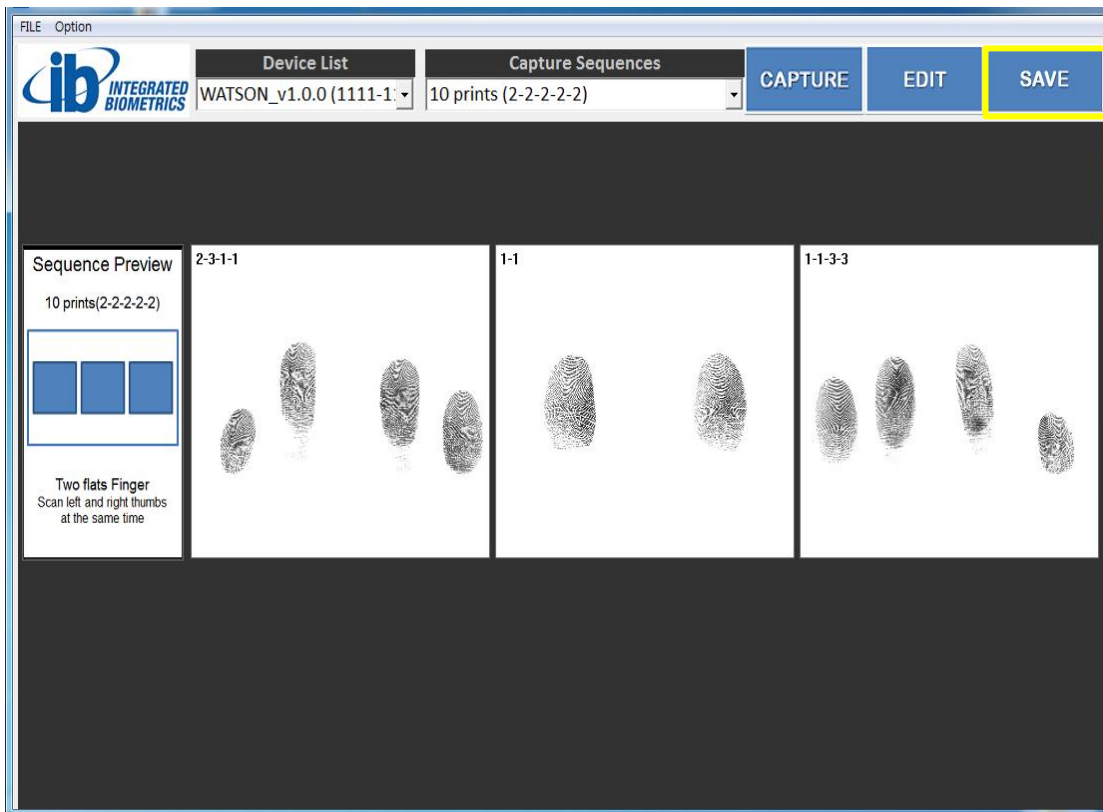


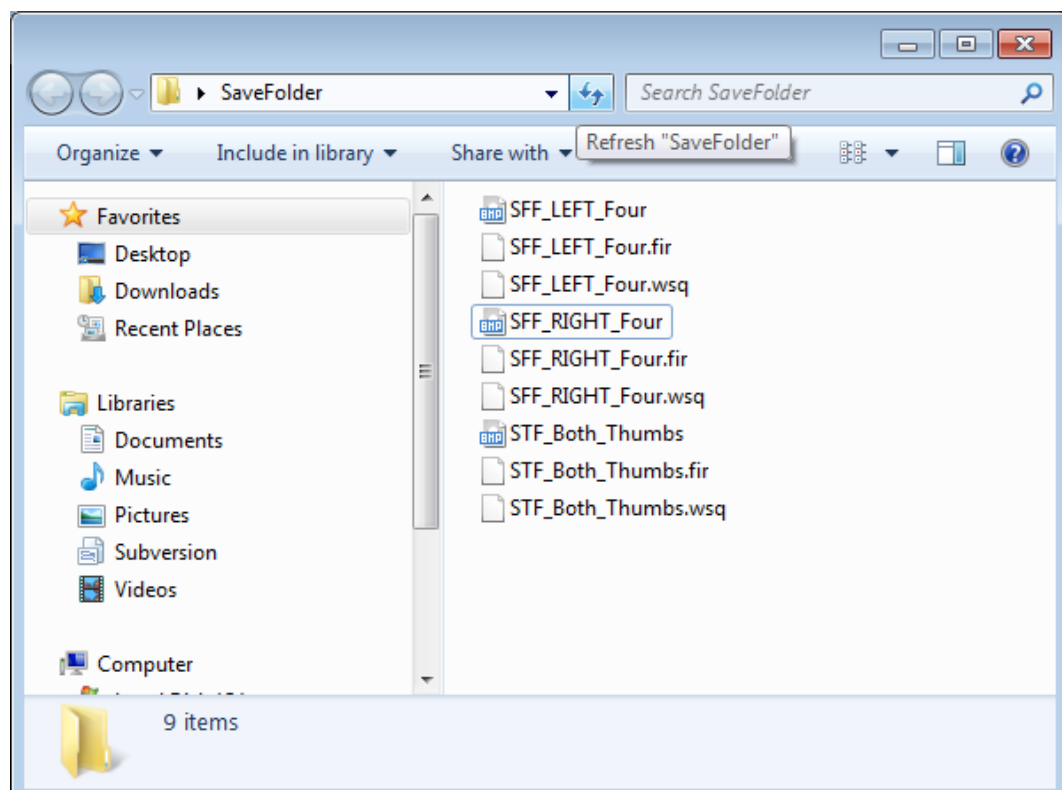< Option menu >



You can select image formats

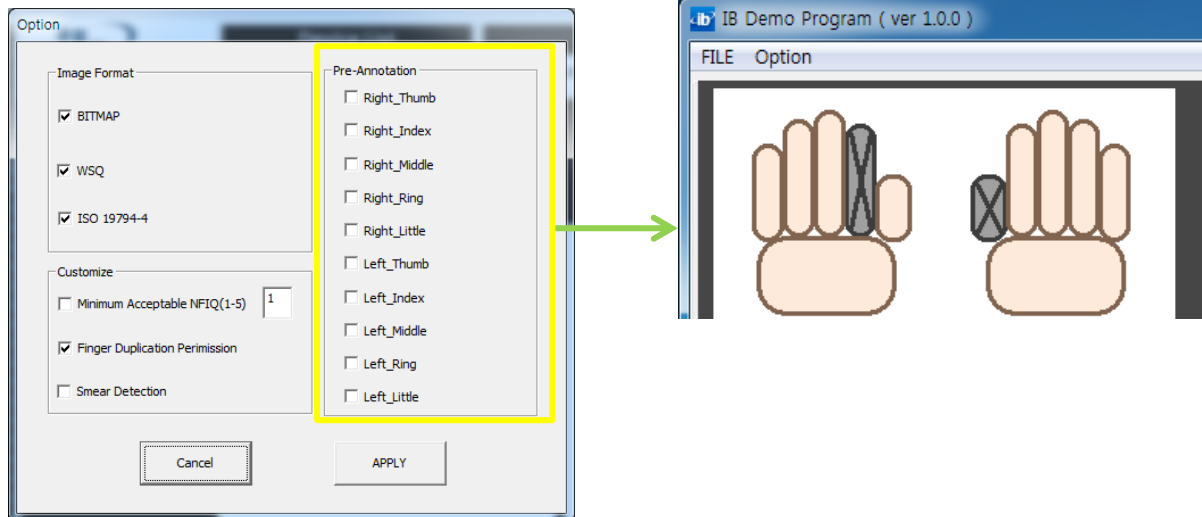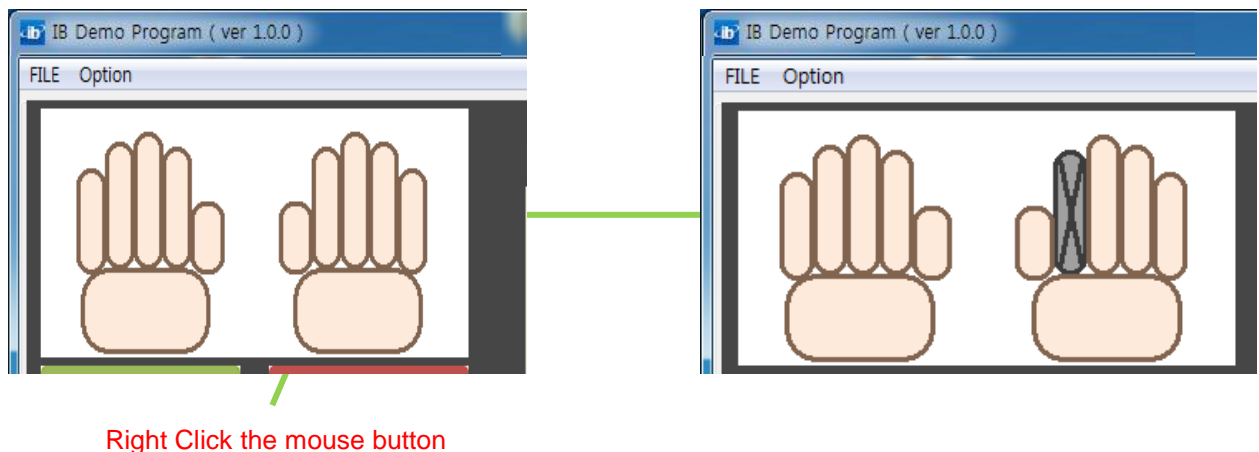2. Select folder path to save images



<Saved images >

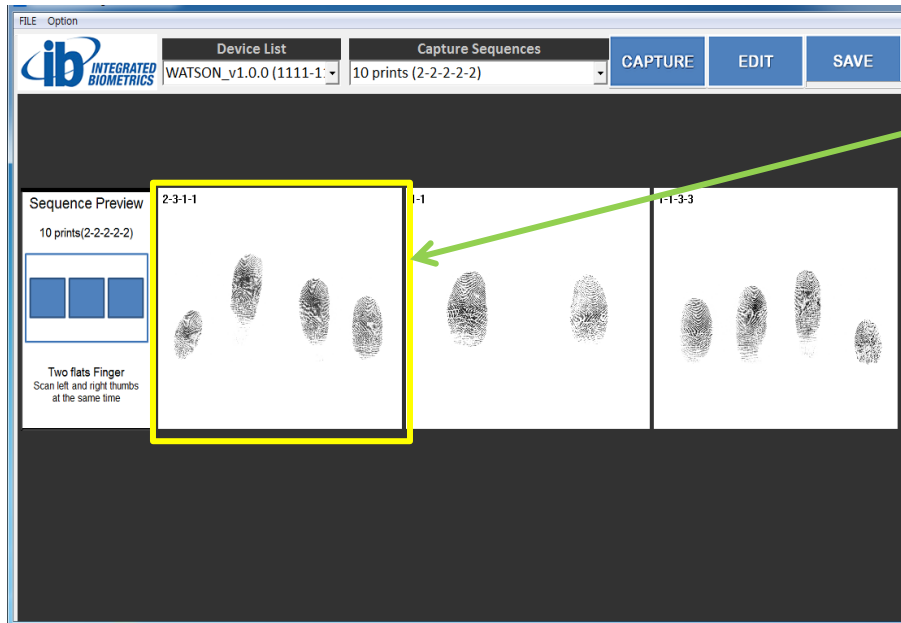## 5. How to annotate finger

1. Annotate fingers using the Option



2. Annotate finger from within the "Capture View" by right clicking the mouse button.



Right Click the mouse button

# 6.   How to Zoom In-Out

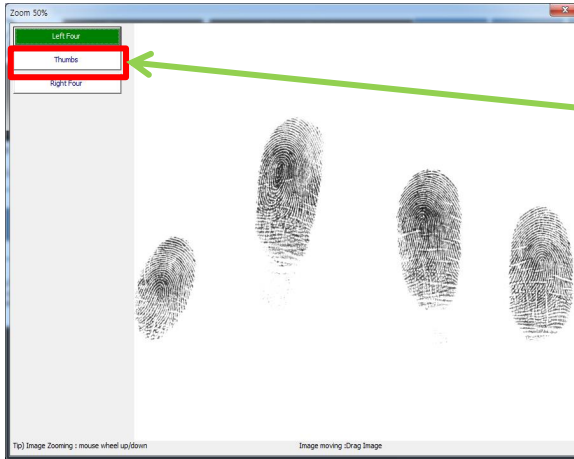1. Right Click mouse button on main view image to show zoom in-out window



Right Click mouse button
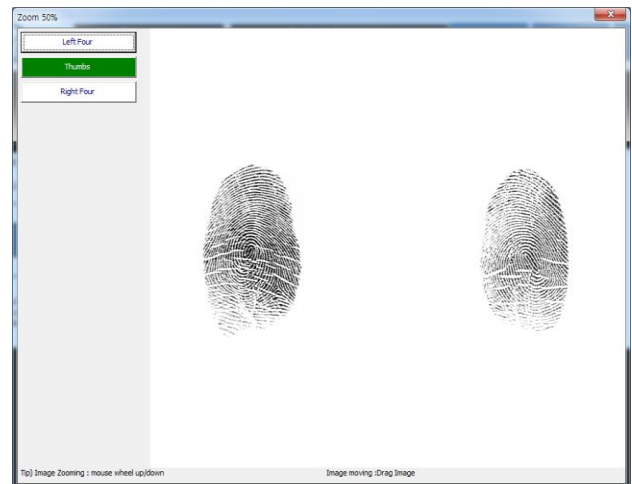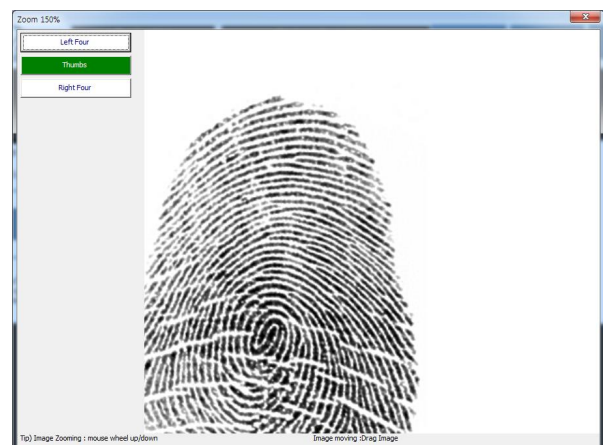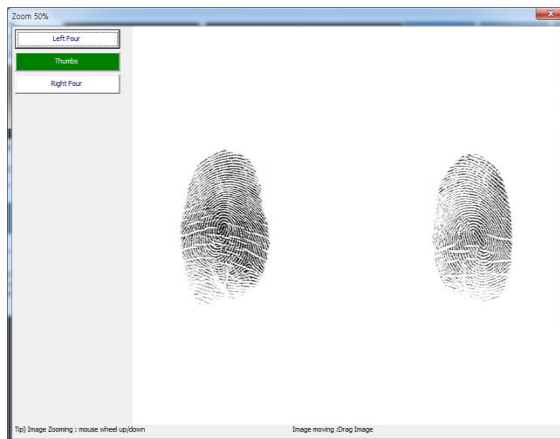
2. If you want to see other image, you can select that button.
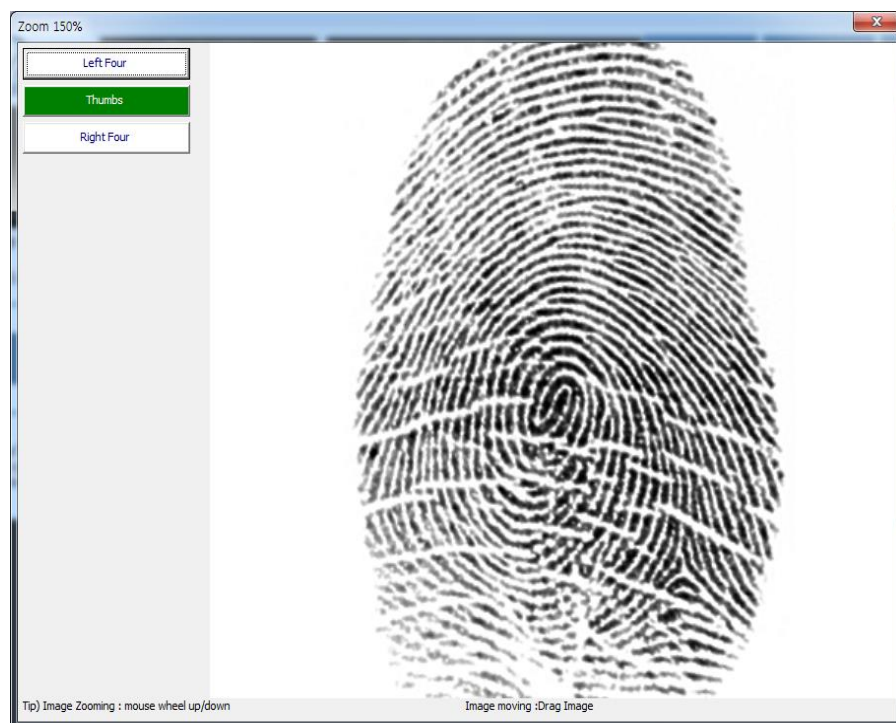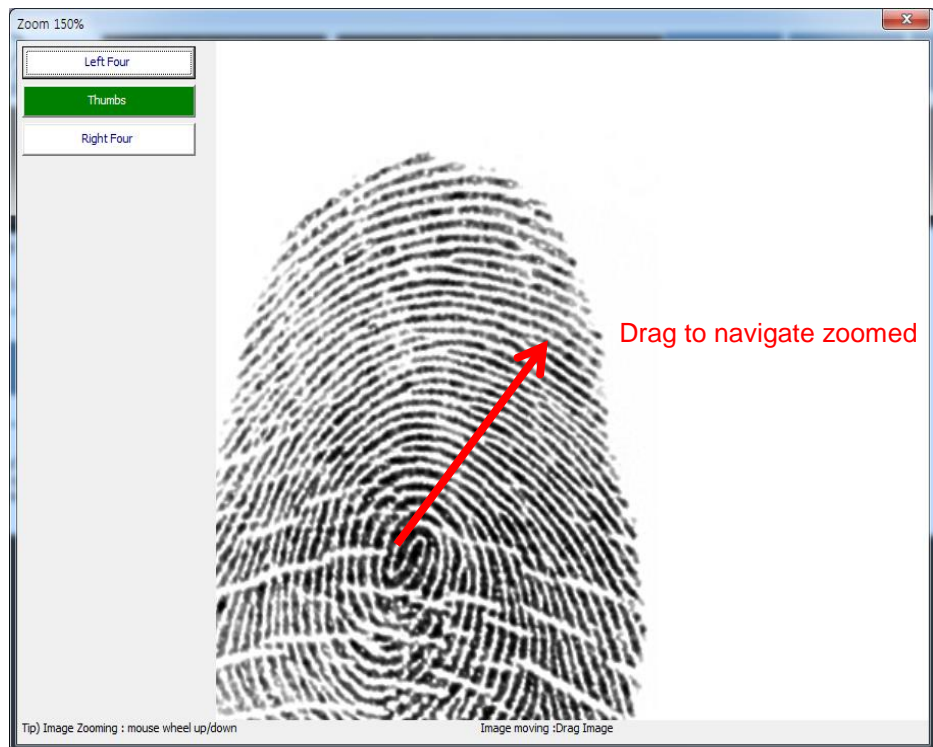


If you want to see "Thumbs" image,
you can click "Thumbs" button



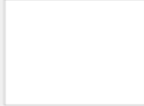3. Mouse Wheel Up/Down to zoom in or out
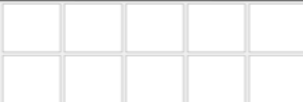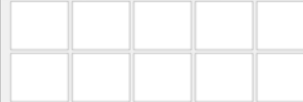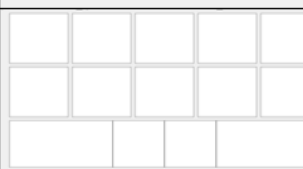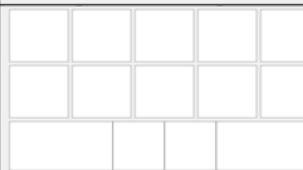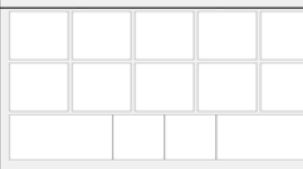
## 4. Left Click and move mouse to navigate the zoomed image

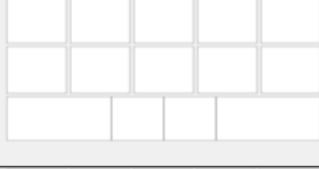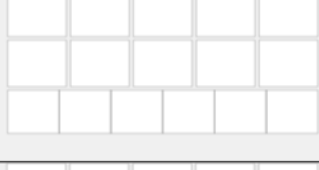## 7. Capture sequence description

| Capture sequence name | Layout image | signification |
|---|---|---|
| 1 prints(both thumbs) | | Scan 1 image :<br>Two Flats Finger (Both thumbs) |
| 10 prints (2-2-2-2-2) | | Scan 3 images :<br>Two Flats Finger(Both thumbs)<br>(Left Four, Right Four and Two Thumbs)<br>- Scan left and right thumbs at the same time |
| 10 prints (2-2-2-2-1-1) | | Scan 3 images :<br>Two Flats Finger<br>(Left Four, Right Four and Two Thumbs)<br>- Scan left and right thumbs separately |
| 10 prints using one flat finger | | Scan 10 images:<br>One flat finger |

| Capture sequence name | Layout image | signification |
|---|---|---|
| 10 prints using one rolled finger | | Scan 10 images:<br>One rolled finger |
| 20 prints (2-2-2-2-2-flats) | | Scan 14 image:<br>One flat finger 10 images and<br>Two flats finger<br>(Left Four, Right Four and Two Thumbs)<br>- Scan left and right thumbs at the same time |
| 20 prints (2-2-2-2-1-1-rolled) +scan 14 images | | Scan 14 image:<br>One rolled finger 10 images and<br>Two flats finger<br>(Left Four, Right Four and Two Thumbs)<br>- Scan left and right thumbs separately |
| 20 prints (2-2-2-2-2-rolled) | | Scan 14 image:<br>One rolled finger 10 images and<br>Two flats finger<br>(Left Four, Right Four and Two Thumbs)<br>- Scan left and right thumbs at the same time |

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| Capture sequence name | Layout image | signification |
|---|---|---|
| 2 prints(thumbs) | | Scan 2 Thumbs (Left, Right thumbs)<br>One flat finger 2 images<br>(Left Thumb and Right Thumb) |
| 4 prints (thumbs + indexes) | | Scan 4 image (thumbs-indexes) :<br>One flat finger 4 images<br>(Left Thumb, Left Index, Right Thumb and Right Index) |
| 20 prints (2-2-2-2-1-1-rolled)<br>+ scan 16 images | | Scan 16 image:<br>One rolled finger and Two flat finger<br>- Scan left and right thumbs separately |
| 20 prints (2-2-2-2-2-1-1-rolled) | | Scan 19 image:<br>One rolled finger and Two flats finger<br>- Scan left and right thumbs at the same time after Scan left and right thumbs separately |

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