Integrated Biometrics IB Scan Diagnostic Tool

The Integrated Biometrics (IB) software includes a diagnostic tool, which can be used to evaluate a IB scanner's ability to communicate with IB Scan applications to capture fingerprints. The diagnostic tool runs five tests and displays the results in a popup window after all tests complete.

Note: IB Scan software installs at C:\Program Files\Integrated Biometrics on 32-bit platforms (Windows 7, 32-bit) and at C:\Program Files (x86)\Integrated Biometrics on 64-bit platforms (Windows 10).

TEST 1 – Did IB Scan software install successfully?

Test 1 verifies that the IB Scan software installation completed successfully by examining the availability of driver files, CBP-specific dynamic linked libraries (DLL), and documents in their respective folders.

1) Driver installed correctly in "C:\Program Files\Integrated Biometrics\IBScanUltimateSDK\Driver"?
 [PASS / FAIL]

2) DLLs and execution files installed correctly in "C:\Program Files\Integrated Biometrics\IBScanUltimateSDK\Bin"?
[PASS / FAIL]

3) Documents installed correctly in "C:\Program Files\Integrated Biometrics\IBScanUltimateSDK\Documents"?
[PASS / FAIL]

TEST 2 – Does IB Scanner initialize correctly?

Test 2 verifies that IB Scanner responds to basic commands in preparation for scanning. Passing these tests indicates that the scanner communicates correctly with the IB Scan dynamic linked libraries.

a. IBSU_OpenDevice()   [PASS / FAIL]
   - If IB Scanner works properly, this function will return a handle.

TEST 3 – Does IB Scanner respond to identity queries?

Test 3 verifies that IB Scanner firmware responds correctly to basic property queries.

    a. IBSU_GetProperty ()   [PASS / FAIL]
- ENUM_IBSU_PROPERTY_PRODUCT_ID
- ENUM_IBSU_PROPERTY_SERIAL_NUMBER
- ENUM_IBSU_PROPERTY_FIRMWARE
- ENUM_IBSU_PROPERTY_REVISION

TEST 4 – Does IB Scanner correctly send frames during a scanning event?

Test 4 verifies that fingerprint images can be captured by examining the system callback methods.

    a. IBSU_BeginCaptureImage ()   [PASS / FAIL]
- Check "IBSU_BeginCaptureImage()" callback from dll.
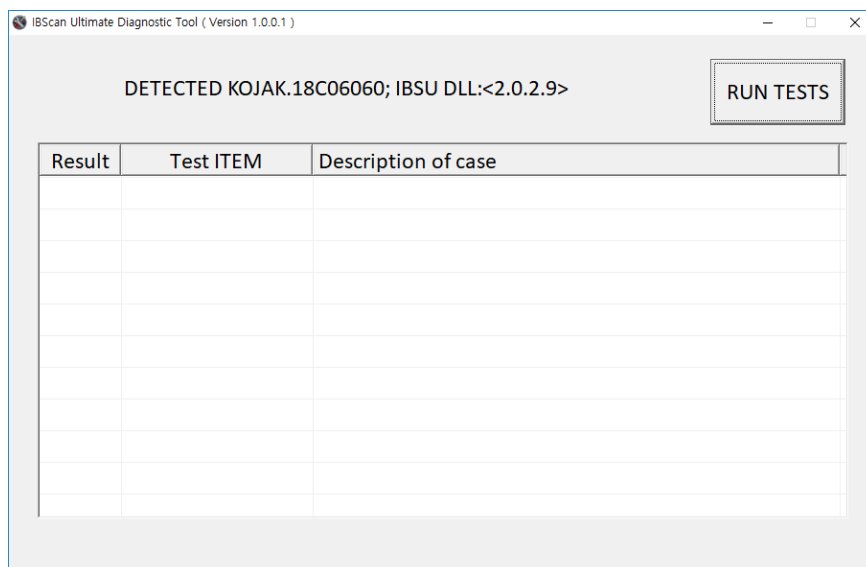
TEST 5 - Does IB Scanner close successfully?

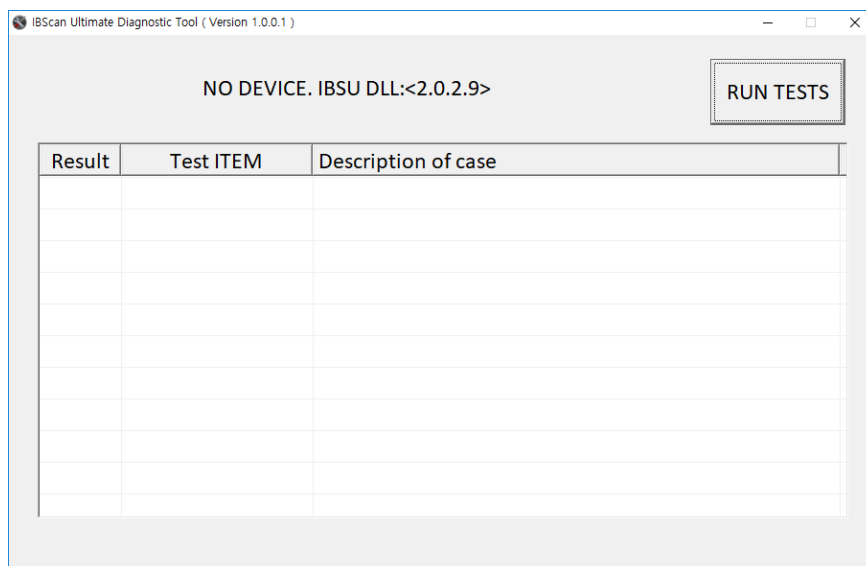Test 5 verifies that IB Scanner responds correctly to release commands.

    a. IBSU_CloseDevice ()   [PASS / FAIL]

Running the Diagnostic Tool

1. Run the diagnostic tool by executing C:\Program Files\Integrated Biometrics\ IBScanUltimateSDK\Bin\IBSU_DiagnosticTool.exe

2. On launch, the diagnostic tool detects a scanner (if connected) and the versions of the IBScanUltimate library.

Figure 1. Device Detected

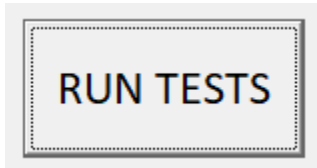**Figure 2. Device Not Detected**

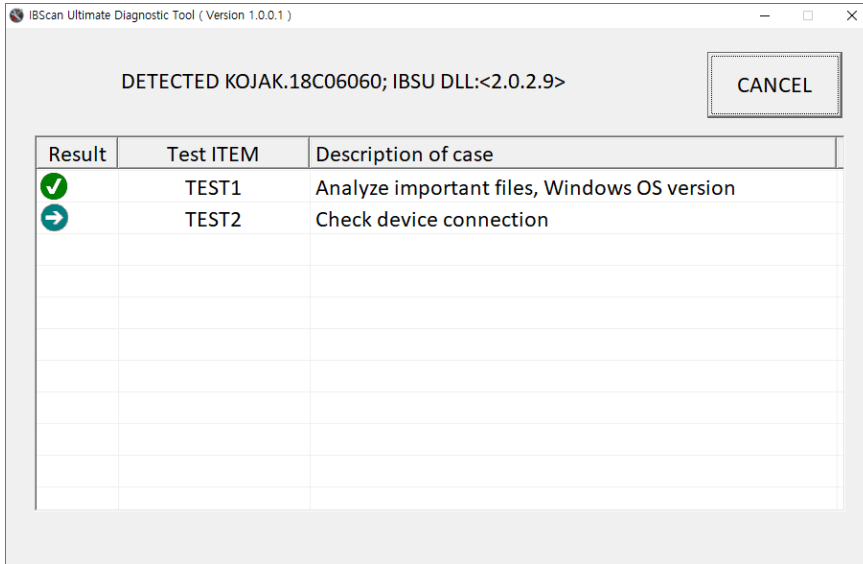3. Press **RUN TESTS**.

Figure 3. Run Tests Button

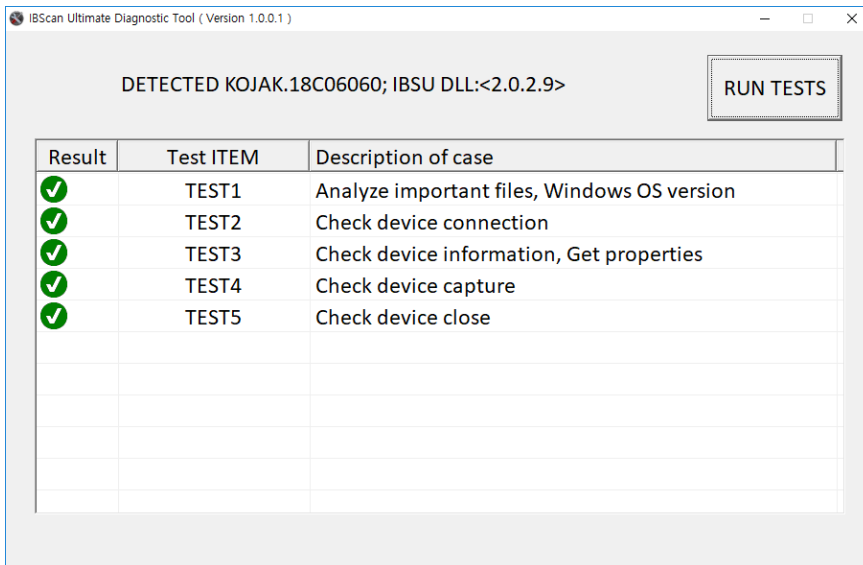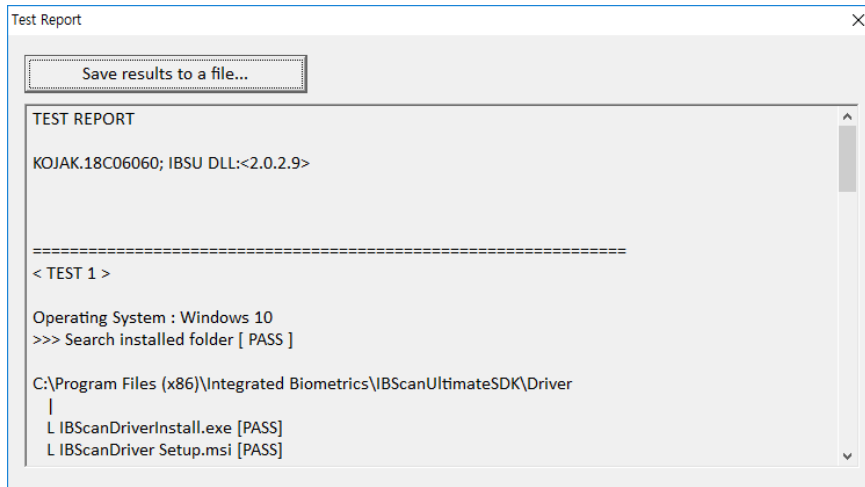**Figure 4. Tests in Progress**

Figure 5. Tests Complete

4. Once tests are completed, the tool generates a report detailing the test criteria and the results with a PASS/FAIL designation. This report can be used for further analysis and troubleshooting of the scanner.

Figure 6. Report Log