**PenPower A6 Scan Control SDK**

**.NET API Reference**

Version 1.0.0

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**ScanControl Class**

1. **GetApiVersion**

Get the version of the SDK library.

|  |
| --- |
| string GetApiVersion(); |

**Parameter: void**

**Return value: string**

Returns the version number of the SDK library, in a three-number dotted format string (ex: “1.0.0”).

1. **GetConnetedScanner**

Get the current connected scanner device ID.

|  |
| --- |
| ScannerType GetConnectedScanner(); |

**Parameter: void**

**Return value: ScannerType**

Returns which type of scanner hardware is detected on the USB bus. If more than one type of scanners is connected, ID A6\_7P3 would be returned.

1. **GetOpenedScanner**

Get the currently opened scanner ID.

|  |
| --- |
| ScannerType GetOpenedScanner(); |

**Parameter: void**

**Return value: ScannerType**

Returns which scanner is currently opened by scan control SDK.

1. **Open**

Open the specified scanner device.

|  |
| --- |
| ReturnCode Open(ScannerType scannerType); |

**Parameters:**

**ScannerType scannerType**

[In] Specify the ID of the device to initialize.

**Return value: ReturnCode**

See return code definition.

1. **IsCalibrateNeeded**

Test if the currently opened scanner needs calibration.

|  |
| --- |
| ReturnCode IsCalibrateNeeded(); |

**Parameters: void**

**Return value: ReturnCode**

If the scanner needs calibration, this method returns NeedCalibrate, If the scanner doesn’t need calibration, this method returns Success. For other errors, see return code definition.

1. **Calibrate**

Calibrates the currently opened scanner.

|  |
| --- |
| ReturnCode Calibrate(); |

**Parameter: void**

**Return value: ReturnCode**

Returns Success if the process ended normally, or NeedCalibrate if failed. For other errors, see return code definition.

**Remarks:**

This method blocks until calibrate process returns. This method does not have any calibrating UI.

1. **StartScan**

Start a scan procedure.

|  |
| --- |
| ReturnCode StartScan(int dpi, ImageType type, string outputFileName); |

**Parameter:**

**int dpi**

[In] Specify the scanning DPI. Scanner ID A6\_73F has minimum value 400, and A6\_7P3 has minimum value 200.

**ImageType type**

[In] Specify the output image file’s format.

**string outputFileName**

[In] Specify the output image file’s full path. If this file already exists, it will be overwritten.

**Return value: ReturnCode**

See error code definition.

**Remarks:**

This method returns immediately. If this method succeeds, result of the scanning procedure would be raised through [ScanCompleted](#ScanCompleted) event.

1. **Close**

Close any opened scanner, abort scanning procedure. All the resources would be released, and the connected device would be uninitialized.

|  |
| --- |
| void Close(); |

**Parameter: void**

**Return value: void**

1. **ScanCompleted Event**

Event for a scanning procedure completed.

|  |
| --- |
| event EventHandler<ScanCompletedEventArgs> ScanCompleted; |

**Remarks:**

This event is raised after an image is scanned, or an error occurred during scanning/image processing. See definition of [ScanCompletedEventArgs](#ScanCompletedEventArgs_Class) class.

**ScanCompletedEventArgs Class**

**Fields**

**ReturnCode Result**

See error code definition.

**string FileName**

The output image file name. If Result is Success, this field contains the same full file path as outputFileName of the corresponding [StartScan](#StartScan) method.

**Return code definition**

public enum ReturnCode

{

Success = 0,

Busy,

InvalidParameter,

IOException,

ScannerNotFound,

ScannerOpenFailed,

NoPaper,

PaperJam,

NeedCalibrate,

DllNotFound,

DriverError,

Uninitalized,

OtherError

}

|  |  |  |
| --- | --- | --- |
| Error code | Value | Explanation |
| Success | 0 | Operation succeeds. |
| Busy | 1 | Another operation is occupying the SDK. |
| InvalidParameter | 2 | Given scanning parameter is invalid. |
| IOException | 3 | IO errors occurred during scanning procedure. |
| ScannerNotFound | 4 | Given scanner ID is not connected or invalid. |
| ScannerOpenFailed | 5 | Cannot open the scanner. |
| NoPaper | 6 | The scanner has no paper inside feeder. |
| PaperJam | 7 | The scanner has paper jammed inside feeder. |
| NeedCalibrate | 8 | The scanner needs calibrate. |
| DllNotFound | 9 | An underlying assembly cannot be loaded. |
| DriverError | 10 | An error detected in the scanner driver. |
| Uninitalized | 11 | This method required [Open](#Open) being called first. |
| OtherError | 12 | Other uncategorized errors. |

**ScannerType definition**

Specify the scanner ID. A6\_7P3 is the 2022 new model (black color). A6\_73F is the old model (white color).

public enum ScannerType

{

None = 0,

A6\_7P3,

A6\_73F

}

**ImageType definition**

public enum ImageType

{

BMP = 0,

JPG,

PNG

}