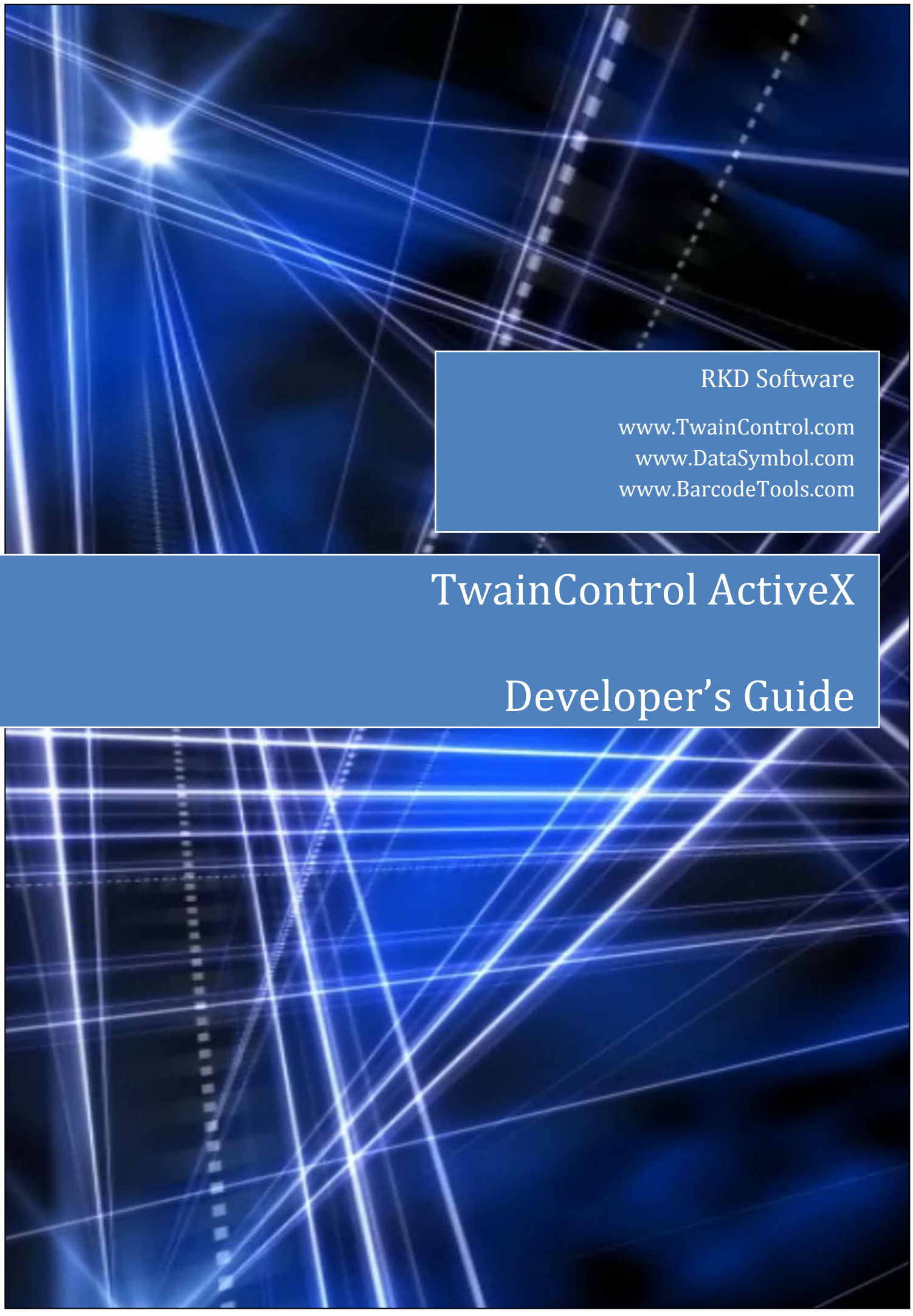

RKD Software

www.TwainControl.com
www.DataSymbol.com
www.BarcodeTools.com

TwainControl ActiveX

Developer's Guide

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1. Getting Started

1.1. Operating Systems

TwainControl ActiveX compatible with following operating systems:

Windows XP

Windows Vista

Windows 7

Windows 8

Windows Server from 2003 to 2012

1.2. Installation

TwainControl ActiveX is supplied as an executable. Simply run the file. If TwainControl ActiveX is not activated, it automatically switches to the demo mode.

The demo mode has the following limitations. An image received from a Twain device will have the DEMO label over it. TwainControl ActiveX can decode barcodes, but a part of the barcode will be replaced with the DEMO label.

1.3. Directory Structure

TwainControlAx.dll	Main component
qpdfax.dll	The file TwainControl uses to work with PDF files. If you don't plan to use PDF, the file isn't needed.
TwainControlAx.pdf	This manual
32bit	32-bit folder
64bit	64-bit folder
Examples	Folder with examples

1.4. Barcode Decoding

TwainControl ActiveX supports barcode decoding (a license with barcode decoding support is required). Use the BarcodeScan method to perform barcode decoding.

1.5 Barcode Technical Specifications

Decodes all popular barcode types.

Linear:

Interleaved 2/5, Industrial 2/5, Code 39, Code 39 Extended, Codabar, Code 11, Code 128, Code 128 Extended, EAN/UCC 128, UPC-E, UPC-A, EAN-8, EAN-13, Code 93, Code 93 Extended, DataBar Omnidirectional (RSS-14), DataBar Truncated (RSS-14 Truncated), DataBar Limited (RSS Limited), DataBar Stacked, DataBar Expanded, DataBar Expanded Stacked.

2D: PDF417 (PDF417 Compact), QRCode (Micro QR), DataMatrix, Aztec (Aztec Compact)

Decodes any oriented barcodes.

Decoding time: depends from many factors (library settings, image size, barcode count, etc.) but usually up to 50ms on 2 GHz machine on 840x480 image.

Approximately barcode resolution (minimal module size) in pixel

Linear:	0.7 px
PDF417:	1.3 px
DataMatrix:	2 px
QRCode:	1.6 px
AztecCode:	1.6 px

1.6 32-bit and 64-bit Versions

The installation package includes both 32-bit and 64-bit versions. So the component can work both in 32-bit and 64-bit applications.

If TwainControl is installed on a 32-bit PC, 64-bit files are not copied. If it is installed under a 64-bit OS, both versions are copied into 32bit and 64bit folders respectively.

32-bit and 64 bit versions use the same class names and id, so the application shouldn't distinguish which version to use, this is done automatically.

1.7. Brief Example

```
[VB6]

Dim twain As TwainControl

Set twain = CreateObject("TwainControlAx.TwainControl.1")

twain.Connect (twain.Devices.Item(0).Id)

twain.GetImage

twain.SaveImage ("c:\MyImage.jpg")
```

```
[C#]

TwainControl twainControl = new TwainControl();

twainControl.Connect(twainControl.Devices.item(0).Id);

twainControl.GetImage(0);

twainControl.SaveImage("c:\\1.jpg", 0, 0, 0, 0);
```


2. TwainControl object

2.1 Methods

2.1.1. Connect

Connects a control with the specified device. This method must be called first, before you acquire an image or change device properties.

Syntax

```
Connect(deviceId As Long)
```

Parameters

deviceId	Device Id obtained from a Device object.

Return Value

No return value.

Example

```
twain.Connect (twain.Devices.Item(0).Id)

twain.GetImage
```

No return value.

2.1.2. Disconnect

Stops working with the twain interface of the device and disconnects from it. The method is called automatically when the object is destroyed.

Syntax

```
Disconnect()
```

Return Value

No return value.

2.1.3. GetImage

Acquire an image from the twain device.

Syntax

```
GetImage (TimeOut As Long) As Boolean
```

Parameters

TimeOut	Default value[0]. Specifies the scanner ready state timeout, in milliseconds. If zero, timeout is unlimited.

Return Value

Indicates if there are more images.

2.1.4. SaveImage

Saves the scanned image onto the disk. The image must be acquired first using the GetImage method. Supports the following image formats – bmp, jpg, tiff, png, gif.

Syntax

```
SaveImage (FileName As String, width As Long, height As Long, xRes As Double,
           yRes As Double)
```

Parameters

FileName	File name
width	Default value [0]. If width and height parameters are 0, the picture size is equal to the original size of the scanned image. Otherwise, the picture size is set according to the specified width and height values. The output picture is also a subject to SaveAspectRatio and StretchImage properties.

height	Default value [0].
xRes	Default value [0]. Sets X resolution of a jpeg file. If 0, the default resolution is set.
yRes	Default value [0]. Sets Y resolution of jpeg file.

Return Value

No return value.

Example

```
[VB6]

  Dim twain As TwainControl
  Set twain = CreateObject("TwainControlAx.TwainControl.1")
  twain.Connect (twain.Devices.Item(0).Id)
  'twain.SetImageLayout 0, 0, 1, 1
  twain.GetImage
  twain.SaveImage ("c:\MyImage.jpg")
```

```
[VB6]

  twain.Connect (twain.Devices.Item(0).Id)

  twain.GetImage

  twain.SaveAspectRatio = False
  twain.StretchImage = True

  Call twain.SaveImage("c:\MyImage.jpg", 800, 900)
```

2.1.5. SavePDF

Saves an acquired image to a PDF file. If the PDF file does not exist, a new file is created. If such file already exists, the scanned image is added to the PDF file as a new page in the end of the document. If PDFPageWidth and PDFPageHeight properties are both zero, the page is saved using original scanned page width and height. If PDFPageWidth and PDFPageHeight properties are set, the page is saved using those values in PDFMeasurementUnits units.

Syntax

```
SavePDF (FileName As String, FilePassword As String)
```

Parameters

FileName	File name to save.
FilePassword	Default value [“”]. PDF file name password.

Return Value

No return value.

Example

```
[VB6]

twain.PDFMeasurementUnits = unCentimeters
twain.PDFPageWidth = 20
twain.PDFPageHeight = 20
twain.SavePDF ("c:\My.pdf")
```

2.1.6. SetPDFInformation

Sets various PDF file attributes. These attributes are used when a PDF file is saved using the SavePDF method.

Syntax

```
SetPDFInformation (Key As EnPDFInfoKey, Info As String)
```

Parameters

Key	This parameter defines information being set. See EnPDFInfoKey
Info	Information.

Return Value

No return value.

Example

```
[VB6]

   Call twain.SetPDFInformation (pikAuthor, "John Doe")
   twain.SavePDF ("c:\My.pdf")
```

2.1.7. BarcodeScan

Detects barcodes on the scanned image. Found barcodes are availavle via the Barcodes property. You can specify parameters of the decoder using the BarcodeSetProperty method and the BarcodeTypes property.

Syntax

```
BarcodeScan ()
```

Return Value

No return value.

Example

```
[VB6]

   Call TwainControl1.Connect(TwainControl1.Devices.Item(Combo1.ListIndex).Id)

   TwainControl1.ResolutionX = 100
   TwainControl1.ResolutionY = 100
   TwainControl1.ImageType = itGrayScale

   TwainControl1.GetImage

   TwainControl1.BarcodeTypes = TwainControl1.BarcodeTypes Or DataMatrix Or PDF417
   TwainControl1.BarcodeScan

   For i = 0 To TwainControl1.Barcodes.length - 1
      Dim bc As Barcode
      Set bc = TwainControl1.Barcodes.Item(i)
      MsgBox bc.Text
   Next i
```

2.1.8. BarcodeSetProperty

Sets barcode decoder properties. Parameters of this method correspond to parameters of the SetProperty method of our Barcode Recognition SDK (www.DataSymbol.com).

Syntax

```
BarcodeSetProperty (PropertyName As String, PropertyValue As Variant)
```

Parameters

`PropertyName`	Defines the property name.
`PropertyValue`	Variant that contains the property value.

Return Value

No return value.

Example

```
[VB6]

Call TwainControl1.BarcodeSetProperty("DataMatrixSymbologyID", True)
TwainControl1.BarcodeTypes = TwainControl1.BarcodeTypes Or DataMatrix
TwainControl1.BarcodeScan
```

2.1.9. BarcodeGetProperty

Returns the barcode decoder property.

Syntax

```
BarcodeGetProperty (PropertyName As String) As Variant
```

Parameters

`PropertyName`	Defines the property name.

Return Value

Variant that contains the property value.

2.1.10. SetImageLayout

Sets FrameLeft, FrameTop, FrameRight, FrameBottom at once. Coordinates are measured in Units.

Syntax

```
    SetImageLayout (Left As Double, Top As Double, Right As Double, Bottom As
Double)
```

Parameters

`Left`	Left coordinate of scanned frame
`Top`	Top coordinate of scanned frame
`Right`	Right coordinate of scanned frame
`Bottom`	Bottom coordinate of scanned frame

Return Value

No return value.

Example

[VB6]

```
twain.Units = unCentimeters
twain.SetImageLayout 0, 0, 10, 10

twain.GetImage
```

2.1.11. About

Shows About window.

Syntax

```
    About ()
```

Return Value

No return value.

2.2 Properties

2.2.1. UserInterface

If true, when the GetImage method is evoked, the standard scanner interface is used.

Syntax

```
UserInterface As Boolean
```

The property is read/write.

2.2.2. ShowProgress

Whether to show or not the standard progress window.

Syntax

```
ShowProgress As Boolean
```

The property is read/write.

2.2.3. Units

Units all scanners settings are specified in.

Syntax

```
UnitsAs As EnUnits
```

The property is read/write.

2.2.4. Devices

Returns a DeviceList object that enumerates available devices in the system.

Syntax

```
Devices As DeviceList
```

The property is read only.

Example

```
[VB6]

   Dim twain As TwainControl

   Set twain = CreateObject("TwainControlAx.TwainControl.1")

   For i = 0 To twain.Devices.length - 1
      Dim dev As Device
      Set dev = twain.Devices.Item(i)
      MsgBox dev.Id & "-" & dev.ProductName
   Next i
```

2.2.5. SaveAspectRatio

Keeps width and height ratio of the scanned image.

Syntax

```
SaveAspectRatio As Boolean
```

The property is read/write.

2.2.6. StretchImage

Whether to stretch image over the size of the control or not.

Syntax

```
StretchImage As Boolean
```

The property is read/write.

2.2.7. JPEGQuality

Sets JPEG image quality.

Syntax

```
JPEGQuality As Long
```

Possible Values

```
0…100
```

The property is read/write.

2.2.8. ImageWidth

Returns width in pixels of the scanned image.

Syntax

```
ImageWidth As Long
```

The property is read only.

2.2.9. ImageHeight

Returns height in pixels of the scanned image.

Syntax

```
ImageHeight As Long
```

The property is read only.

2.2.10. FillBackground

Whether to paint the background color of the control with BackColor or not

Syntax

```
FillBackground As Boolean
```

The property is read/write.

2.2.11. BackColor

The background color of the control.

Syntax

```
FillBackground As OLE_COLOR
```

The property is read/write.

2.2.12. IsConnected

Checks if a twain device is connected or not (see the Connect method).

Syntax

```
IsConnected As Boolean
```

The property is read only.

2.2.13. ResolutionX

Sets resolution along the X axis. You can check for valid values of resolution using the XResolutionValues property.

Syntax

```
ResolutionX As Float
```

The property is read/write.

2.2.14. ResolutionY

Sets resolution along the Y axis. You can check for valid values of resolution using the YResolutionValues property.

Syntax

```
ResolutionY As Float
```

The property is read/write.

2.2.15. ImageType

Sets the type of the image – black and white, color or grayscale.

Syntax

```
ImageType As EnImageType
```

The property is read/write.

2.2.16. PDFPageWidth

Sets the width of the page (measured in PDFMeasurementUnits) when saving a PDF file using the SavePDF method.

Syntax

```
PDFPageWidth As Double
```

The property is read/write.

2.2.17. PDFPageHeight

Sets the height of the page (measured in PDFMeasurementUnits) when saving a PDF file using the SavePDF method.

Syntax

```
PDFPageHeight As Double
```

The property is read/write.

2.2.18. PDFMeasurementUnits

Specifies measurement units for a PDF file

Syntax

```
PDFMeasurementUnits As EnUnits
```

The property is read/write.

2.2.19. Barcodes

Returns a BarcodeList object that enumerates all detected barcodes. To find barcodes on the image, use the BarcodeScan method.

Syntax

```
Barcodes As BarcodeList
```

The property is read only.

2.2.20. BarcodeTypes

Specifies which barcode types should be detected. Barcode types are set as binary flags combination. Values of various barcode types are set by EBarcodeTypes.

Syntax

```
BarcodeTypes As Long
```

The property is read/write.

Example

```
[VB6]

  TwainControl1.BarcodeTypes = TwainControl1.BarcodeTypes Or DataMatrix
```

2.2.21. MaxWidth

Returns the maximum physical width of the scanned region measured in Units.

Syntax

```
MaxWidth As Double
```

The property is read only.

2.2.22. MaxHeight

Returns the maximum physical height of the scanned frame measured in Units.

Syntax

```
MaxHeight As Double
```

The property is read only.

2.2.23. Brightness

Sets scanning brightness. You can learn valid values of brightness using the BrightnessValues property.

Syntax

```
Brightness As Double
```

The property is read/write.

2.2.24. Contrast

Sets scanning contrast. You can learn valid values of contrast using the ContrastValues property.

Syntax

```
Contrast As Double
```

The property is read/write.

2.2.24. FrameLeft

Sets the left boundary of the scanned frame measured in Units. See also `SetImageLayout`.

Syntax

```
FrameLeft As Double
```

The property is read/write.

2.2.25. FrameTop

Sets the top boundary of the scanned frame measured in Units. See also `SetImageLayout`.

Syntax

```
FrameTop As Double
```

The property is read/write.

2.2.26. FrameRight

Sets the right boundary of the scanned frame measured in Units. See also `SetImageLayout`.

Syntax

```
FrameRight As Double
```

The property is read/write.

2.2.27. FrameBottom

Sets the bottom boundary of the scanned frame measured in Units. See also `SetImageLayout`.

Syntax

```
FrameBottom As Double
```

The property is read/write.

2.2.28. UnitsValues

Returns a TwainValue object that defines valid values of the Units property.

Syntax

```
UnitsValues As TwainValue
```

The property is read only.

2.2.29. XResolutionValues

Returns a TwainValue object that defines valid values of the ResolutionX property.

Syntax

```
XResolutionValues As TwainValue
```

The property is read only.

2.2.30. YResolutionValues

Returns a TwainValue object that defines valid values of the ResolutionY property.

Syntax

```
YResolutionValues As TwainValue
```

The property is read only.

2.2.31. BrightnessValues

Returns a TwainValue object that defines valid values of the Brightness property.

Syntax

```
BrightnessValues As TwainValue
```

The property is read only.

2.2.32. ContrastValues

Returns a TwainValue object that defines valid values of the Contrast property.

Syntax

```
ContrastValues As TwainValue
```

The property is read only.

2.2.33. Picture

Returns an IPictureDisp object containing the scanned image.

Syntax

```
Picture As IPictureDisp
```

The property is read only.

2.3 Events

2.3.1. OnConnected

The event occurs upon connection of a device using the Connect method.

Syntax

```
OnConnected (deviceId As Long)
```

Parameters

deviceId	Id of the connected device (see Device.Id)

2.3.2. OnImageReady

The event occurs when an image is acquired from a twain device.

Syntax

```
OnImageReady (Continue As Boolean)
```

Parameters

Continue	Indicates if there are more images

2.3.3. OnImageError

The event occurs on any error during image acquiring, or when the Cancel button is clicked.

Syntax

```
OnImageError (Err As HRESULT)
```

Parameters

Err	Error code

3. DeviceList object

3.1. Properties

3.1.1. length

Indicates the number of Device items in the collection.

Syntax

```
Length As Long
```

The property is read only.

3.2. Methods

3.2.1. item

Allows random access to individual nodes within the collection.

Syntax

```
item (index As Long) As Device
```

Parameters

index	Index of the item within the collection. The first item is number zero.

Return Value

Object. Returns Device object.

3.2.2. nextNode

Returns the next node in the collection.

Syntax

```
nextNode () As Device
```

Return Value

Object. Returns Device.

3.2.3. reset

Resets the iterator.

Syntax

```
reset ()
```

Return Value

No return value.

Remarks

This method reinitializes the iterator to point before the first node in the DeviceList so that the next call to nextNode returns the first item in the list

4. Device object

4.1. Properties

4.1.1. Id

Returns the Device Id.

Syntax

```
Id As Long
```

The property is read only.

4.1.2. VerMajorNum

Returns the Device Major Number.

Syntax

```
VerMajorNum As Long
```

The property is read only.

4.1.3. VerMinorNum

Returns the Device Minor Number.

Syntax

```
VerMinorNum As Long
```

The property is read only.

4.1.4. VerLanguage

Returns the primary language of device.

Syntax

```
VerLanguage As Long
```

The property is read only.

4.1.5. VerCountry

Returns the primary country of device.

Syntax

```
VerCountry As Long
```

The property is read only.

4.1.6. VerInfo

Returns the Device version information.

Syntax

```
VerInfo As String
```

The property is read only.

4.1.7. ProtocolMajor

Returns the Device protocol major number.

Syntax

```
ProtocolMajor As Long
```

The property is read only.

4.1.8. ProtocolMinor

Returns the Device protocol minor number.

Syntax

```
ProtocolMinor As Long
```

The property is read only.

4.1.9. Manufacturer

Returns the Device manufacturer.

Syntax

```
Manufacturer As String
```

The property is read only.

4.1.10. ProductFamily

Returns the Device product family.

Syntax

```
ProductFamily As String
```

The property is read only.

4.1.11. ProductName

Returns the Device product name.

Syntax

```
ProductName As String
```

The property is read only.

5. BarcodeList object

5.1. Properties

5.1.1. length

Indicates the number of Barcode items in the collection.

Syntax

```
Length As Long
```

The property is read only.

5.2. Methods

5.2.1. item

Allows random access to individual nodes within the collection.

Syntax

```
item (index As Long) As Barcode
```

Parameters

index	Index of the item within the collection.

Return Value

Object. Returns Barcode.

5.2.2. nextNode

Returns the next node in the collection.

Syntax

```
nextNode () As Barcode
```

Return Value

Object. Returns Barcode.

5.2.3. reset

Resets the iterator.

Syntax

```
reset ()
```

Return Value

No return value.

6. Barcode object

6.1. Properties

6.1.1. BarcodeType

Returns the barcode type.

Syntax

```
BarcodeType As EBarcodeTypes
```

The property is read only.

6.1.2. Text

Returns the barcode string.

Syntax

```
Text As String
```

The property is read only.

6.1.3. Data

Returns the barcode raw data.

Syntax

```
Data As Variant
```

The property is read only.

6.1.4. BarNums

Returns the number of bars.

Syntax

```
BarNums As Long
```

The property is read only.

6.1.5. PageNum

Returns the page number (for multi page .tiff or .gif files).

Syntax

```
PageNum As Long
```

The property is read only.

6.1.6. x1,y1,x2,y2,x3,y3,x4,y4

Returns the coordinates of barcode corners.

Syntax

```
x,y As Long
```

The property is read only.

6.1.5. dq

Returns the barcode decoding reliability

Works only for PDF417, DataMatrix, QRCode, AztecCode barcodes.

Possible values 0...100. 100 is the best reliability.

Syntax

```
dq As Long
```

The property is read only.

7. TwainValue object

7.1. Properties

7.1.1. Type

Returns the type that the TwainValue object contains.

If the type is Range then the Min, Max, Step properties are essential, otherwise – the Value property is.

Syntax

```
Type As EnTwainValueType
```

The property is read only.

7.1.2. Value

Can hold an individual value (Boolean, Integer, Float) or an array.

Syntax

```
Value As Variant
```

The property is read only.

Example

```
[VB6]

  'enumerate allowed Units
  v = TwainControl1.UnitsValues.Value
  For i = LBound(v) To UBound(v)
    Select Case v(i)
      Case 0
        MsgBox "Inches"
      Case 1
        MsgBox "Centimeters"
      Case 2
        MsgBox "Picas"
      Case 3
        MsgBox "Points"
      Case 4
        MsgBox "Twips"
      Case 5
        MsgBox "Pixels"
      Case 6
```

```
        MsgBox "Millimeters"
    End Select
Next i
```

7.1.3. Min

Minimal threshold of Range type value.

Syntax

```
Min As Variant
```

The property is read only.

7.1.4. Max

Maximal threshold of Range type value.

Syntax

```
Max As Variant
```

The property is read only.

7.1.5. Step

Step of Range type value.

Syntax

```
Step As Variant
```

The property is read only.

8. Other Types

8.1. EnUnits Enumeration

Units enumeration.

unInches	= 0,
unCentimeters	= 1,
unPicas	= 2,
unPoints	= 3,
unTwips	= 4,
unPixels	= 5,
unMillimeters	= 6,

8.2. EnImageType Enumeration

Image types enumeration.

itBlackWhite	= 0,
itGrayScale	= 1,
itColor,	= 2,

8.3. EnPDFInfoKey Enumeration

PDF information key enumeration.

pikVersion	=0,
pikAuthor	=1,
pikTitle	=2,
pikSubject	=3,
pikKeywords	=4,
pikCreator	=5,
pikProducer	=6,

8.4. EBarcodeTypes Enumeration

Barcode types enumeration.

Code128	= 0x00000001,
Code39	= 0x00000002,
Interl25	= 0x00000004,
EAN13	= 0x00000008,
EAN8	= 0x00000010,
Codabar	= 0x00000020,

Code11	= 0x00000040,
UPCA	= 0x00000080,
UPCE	= 0x00000100,
Industr25	= 0x00000200,
Code93	= 0x00000400,
DataBarOmni	= 0x00000800,
DataBarLim	= 0x00001000,
DataBarStacked	= 0x00002000,
DataBarExp	= 0x00004000,
DataBarExpStacked	= 0x00008000,
AztecUnrecognized	= 0x00100000,
LinearUnrecognized	= 0x01000000,
PDF417Unrecognized	= 0x02000000,
DataMatrixUnrecognized	= 0x04000000,
QRCodeUnrecognized	= 0x08000000,
DataMatrix	= 0x10000000,
PDF417	= 0x20000000,
QRCode	= 0x40000000,
AztecCode	= 0x80000000,

8.5. EnTwainValueType Enumeration

Twain value type enumeration.

twtOneValue	=0,
twtRange	=1,
twtEnumeration	=2,
twtArray	=3,