

Get WIA scanner features

Asked 11 years, 3 months ago Modified 4 years, 4 months ago Viewed 8k times



How do you get a scanner's available resolutions and/or dpi. Also, how to get the information that it has an automatic document feeder, etc?

3



c# wia



2

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edited Jun 18, 2011 at 17:16

asked Jun 18, 2011 at 16:49



Femi

63.9k

8

117

147



redman

2,055

4

32

59

2 Answers

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5



```
public enum WiaProperty
{
```



```
    DeviceId = 2,
    Manufacturer = 3,
    Description = 4,
    Type = 5,
    Port = 6,
    Name = 7,
    Server = 8,
    RemoteDevId = 9,
    UIClassId = 10,
    FirmwareVersion = 1026,
    ConnectStatus = 1027,
    DeviceTime = 1028,
    PicturesTaken = 2050,
    PicturesRemaining = 2051,
    ExposureMode = 2052,
    ExposureCompensation = 2053,
    ExposureTime = 2054,
    FNumber = 2055,
    FlashMode = 2056,
    FocusMode = 2057,
    FocusManualDist = 2058,
    ZoomPosition = 2059,
    PanPosition = 2060,
```

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```

BatteryStatus = 2065,
Dimension = 2070,
HorizontalBedSize = 3074,
VerticalBedSize = 3075,
HorizontalSheetFeedSize = 3076,
VerticalSheetFeedSize = 3077,
SheetFeederRegistration = 3078, // 0 = LEFT_JUSTIFIED, 1 = CENTERED,
2 = RIGHT_JUSTIFIED
HorizontalBedRegistration = 3079, // 0 = LEFT_JUSTIFIED, 1 = CENTERED,
2 = RIGHT_JUSTIFIED
VerticalBedRegistration = 3080, // 0 = TOP_JUSTIFIED, 1 = CENTERED, 2
= BOTTOM_JUSTIFIED
PlatenColor = 3081,
PadColor = 3082,
FilterSelect = 3083,
DitherSelect = 3084,
DitherPatternData = 3085,

DocumentHandlingCapabilities = 3086, // FEED = 0x01, FLAT = 0x02, DUP =
0x04, DETECT_FLAT = 0x08,
// DETECT_SCAN = 0x10, DETECT_FEED =
0x20, DETECT_DUP = 0x40,
// DETECT_FEED_AVAIL = 0x80,
DETECT_DUP_AVAIL = 0x100
DocumentHandlingStatus = 3087, // FEED_READY = 0x01, FLAT_READY =
0x02, DUP_READY = 0x04,
// FLAT_COVER_UP = 0x08,
PATH_COVER_UP = 0x10, PAPER_JAM = 0x20
DocumentHandlingSelect = 3088, // FEEDER = 0x001, FLATBED = 0x002,
DUPLEX = 0x004, FRONT_FIRST = 0x008
// BACK_FIRST = 0x010, FRONT_ONLY =
0x020, BACK_ONLY = 0x040
// NEXT_PAGE = 0x080, PREFEED =
0x100, AUTO_ADVANCE = 0x200
DocumentHandlingCapacity = 3089,
HorizontalOpticalResolution = 3090,
VerticalOpticalResolution = 3091,
EndorserCharacters = 3092,
EndorserString = 3093,
ScanAheadPages = 3094, // ALL_PAGES = 0
MaxScanTime = 3095,
Pages = 3096, // ALL_PAGES = 0
PageSize = 3097, // A4 = 0, LETTER = 1, CUSTOM = 2
PageWidth = 3098,
PageHeight = 3099,
Preview = 3100, // FINAL_SCAN = 0, PREVIEW = 1
TransparencyAdapter = 3101,
TransparecnyAdapterSelect = 3102,
ItemName = 4098,
FullItemName = 4099,
ItemTimeStamp = 4100,
ItemFlags = 4101,
AccessRights = 4102,
DataType = 4103,
BitsPerPixel = 4104,
PreferredFormat = 4105,
Format = 4106,
Compression = 4107, // 0 = NONE, JPG = 5, PNG = 8
MediaTypes = 4108

```

```

PixelsPerLine = 4112,
BytesPerLine = 4113,
NumberOfLines = 4114,
GammaCurves = 4115,
ItemSize = 4116,
ColorProfiles = 4117,
BufferSize = 4118,
RegionType = 4119,
ColorProfileName = 4120,
ApplicationAppliesColorMapping = 4121,
StreamCompatibilityId = 4122,
ThumbData = 5122,
ThumbWidth = 5123,
ThumbHeight = 5124,
AudioAvailable = 5125,
AudioFormat = 5126,
AudioData = 5127,
PicturesPerRow = 5128,
SequenceNumber = 5129,
TimeDelay = 5130,
CurrentIntent = 6146,
HorizontalResolution = 6147,
VerticalResolution = 6148,
HorizontalStartPosition = 6149,
VerticalStartPosition = 6150,
HorizontalExtent = 6151,
VerticalExtent = 6152,
PhotometricInterpretation = 6153,
Brightness = 6154,
Contrast = 6155,
Orientation = 6156, // 0 = PORTRAIT, 1 = LANDSCAPE, 2 = 180°, 3 = 270°
Rotation = 6157, // 0 = PORTRAIT, 1 = LANDSCAPE, 2 = 180°, 3 = 270°
Mirror = 6158,
Threshold = 6159,
Invert = 6160,
LampWarmUpTime = 6161,
}

```

For the possible values of every single property you can read the MSDN documentation:

[MSDN WIA Documentation](#)

or if you want to get deeper, you can analyze the header files of the original SDK.

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edited Apr 23, 2018 at 13:15

answered Mar 24, 2014 at 17:24



Jim Ashworth

765 6 17



Dario Rinaldi

53 1 5



1

You can use the Properties object containing a list of properties. Use the Properties object of the Device object to access scanner properties (document feeder), use the Properties object of the Item object to access page properties (resolution).

```

        DeviceManager manager = new DeviceManagerClass();
        DeviceInfo scannerInfo = WiaHelper.FindFirstScanner(manager);
        Device device = scannerInfo.Connect();
        Item item = device.Items[1];

public static DeviceInfo FindFirstScanner(DeviceManager manager)
{
    DeviceInfos infos = manager.DeviceInfos;
    foreach (DeviceInfo info in infos)
        if (info.Type == WiaDeviceType.ScannerDeviceType)
            return info;
    return null;
}

public static Property FindProperty(WIA.Properties properties, int
propertyId)
{
    foreach (Property property in properties)
        if (property.PropertyID == propertyId)
            return property;
    return null;
}

public static void SetDeviceProperty(Device device, int propertyId, object
value)
{
    Property property = FindProperty(device.Properties, propertyId);
    if (property != null)
        property.set_Value(value);
}

public static object GetDeviceProperty(Device device, int propertyId)
{
    Property property = FindProperty(device.Properties, propertyId);
    return property != null ? property.get_Value() : null;
}

public static object GetItemProperty(Item item, int propertyId)
{
    Property property = FindProperty(item.Properties, propertyId);
    return property != null ? property.get_Value() : null;
}

public static void SetItemProperty(Item item, int propertyId, object value)
{
    Property property = FindProperty(item.Properties, propertyId);
    if (property != null)
        property.set_Value(value);
}

```

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answered Sep 29, 2011 at 13:35



Matthias Wuttke

1,947 2 21 38