

# **ACA WebThumb ActiveX**

## **User Manual**

<http://www.acasystems.com>

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# Content

1. ACA WebThumb ActiveX Control.....	4
The Features of ACA WebThumb ActiveX Control.....	4
Example Snapshots.....	5
2. How to Purchase ACA WebThumb ActiveX Control?.....	5
3. Other ACASystems Products .....	6
4. Contact ACASystems.....	6
5. System Requirements .....	7
6. Install and Uninstall.....	7
7. IThumbMaker Interface Reference: Class Members .....	8
Snap function.....	8
Snap Options .....	8
Image Access Functions.....	10
Other functions .....	11
8. IThumbMaker Interface Reference: Function Documentation .....	11
StartSnap.....	11
SetURL.....	13
SetActiveXEnabled .....	13
GetActiveXEnabled.....	14
SetJavaEnabled.....	14
GetJavaEnabled .....	14
SetJScriptEnabled.....	15
GetJScriptEnabled .....	15
SetVideoEnabled .....	16
GetVideoEnabled .....	17
SetBrowserSize.....	17
GetBrowserWidth.....	19
GetBrowserHeight.....	19
SetTimeout.....	19
GetTimeout.....	20
SetDelayTime .....	20
GetDelayTime .....	20
SaveImage .....	21
SetThumbSize.....	22
GetThumbWidth.....	24
GetThumbHeight.....	25
GetThumbRatioType.....	25
SetBPP.....	25
GetBPP .....	25
SetClipRect.....	26
GetClipRect .....	27
SetDPI.....	27
GetDPIx.....	28
GetDPIy.....	28

GetBitmapHandle .....	28
GetImageBytes .....	29
GetJpegQuality .....	31
SetJpegQuality.....	31
SetRegInfo.....	32
9. Samples.....	32
10. User License Terms .....	33
11. Unregistered Copy Limitation.....	35

# 1. ACA WebThumb ActiveX Control

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Do you want to take a screenshot from a web page in your desktop or web application? **ACA WebThumb ActiveX Control** takes the snapshots of given URLs as JPG, GIF, PNG, BMP, TIFF, WMF and EMF image, it helps you convert the web page to images in batch, capture full length website screenshots, generate thumbnail image previews of web pages. **Now, you can add "*HTML to image*", "*HTML to PNG*", "*HTML to JPG*" feature to your application with a few function calls!**

**ACA WebThumb ActiveX Control** can be used to convert not only web pages but also plain text files or Web Archive Format (\*.MHT) files into JPG, GIF, PNG, BMP, TIFF, WMF and EMF images.

**ACA WebThumb ActiveX Control** is a small self-contained (no third-party dependencies) ActiveX control, so it can be used from any ActiveX-ready languages (comprehensive samples for the most popular provided). The basic usage is as easy as few function calls, but there are also many options and tuning possibilities.

## The Features of ACA WebThumb ActiveX Control

- Convert HTML web pages, MHT and TXT to image on the fly or in memory
- Convert web pages to various image formats like JPG, GIF, PNG, BMP, TIFF, WMF and EMF.
- Capture the whole web page, or a thumbnail image of a specified size
- Selectively show ActiveX, java applets, Java Scripts and Videos on a web page
- Support for controlling the color depth
- Support for controlling the image DPI
- It can be used with many programming languages like Visual C++, Visual Basic, Delphi, C#, etc.
- It can be used with popular server side script languages like ASP, ASP.Net, PHP and Perl etc.
- Get rich samples written in Visual C++, Visual Basic, Delphi, C#, C++ Builder, Java, JScript, Perl, VBScript, ASP, ASP.net, PHP, etc.
- ...

## Example Snapshots

[www.acasystems.com](http://www.acasystems.com)



[www.msn.com](http://www.msn.com)



[www.download.com](http://www.download.com)



[en.wikipedia.org](http://en.wikipedia.org)



## 2. How to Purchase ACA WebThumb ActiveX Control?

You can license the program right from our web pages at <http://www.acasystems.com/>, we offer many different ways to order, including secure web forms, phone, fax and mail ordering, and processing of corporate purchase orders.

**NOTE:** Prices are subject to change without notice.

Visit our web site to purchase any of ACASystems products: <http://www.acasystems.com/en/buynow.htm>, Return Customer Discount(20% off) and Non-profit/Educational Org Discount(40% off) are available on the order page.

All minor and maintenance upgrades to purchased versions are available at no additional cost. Please review the ACA WebThumb ActiveX Control upgrade page for more information.

To be notified about product upgrades, please sign up for our mailing list at: <http://www.ACASystems.com/en/maillist.htm>

## 3. Other ACASystems Products

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In addition to this fine product, we make several other powerful utilities. Drop by our web pages at which always contains links where you can download the latest versions of all of our programs or those programs that meet our standards so that we're confident enough in them to offer them for sale through our site.

At the time this file was written, here's a list of software we either have authored or sell on our site.

- **ACA Capture Pro** - *Capture screen images, web pages, Flash, icon, menu from your Windows PC* even those hard-to-grab DirectX, Direct3D games or video player, create videos of your computer screen.
- **ACA Screen Recorder** - it allows you to *record the action from your Windows screen* as an AVI movie. You can include cursor movements and sound, and take advantage of many other options.
- **ACA Audio Recorder** - *It's a direct and real-time sound recorder software* which offers professional recording features with WAV, AVI and MP3 support.
- **ACA Color Picker** - *It's an utility that captures the color value of any screen pixel* and displays its value in a value of formats such as CMY, Decimal, Hexadecimal, HSB/HSV, HSL, HSL(Windows), HTML and RGB.
- **ACA WebThumb ActiveX Control** - HTML Webpage to Image SDK, add HTML to image, HTML to PNG feature to your application with a few function calls
- **ACA HTML to Image Converter** - Convert web page to image by one click, save the long web page as JPG, GIF, PNG, BMP, TIF, WMF and EMF image in batch.

To get more information of our products, visit our website at <http://www.acasystems.com/>.

## 4. Contact ACASystems

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Before contacting us for technical support, please check first the "Frequently Asked Questions (FAQ)" list at our web site. The answer to your question may be already there! Click below to access the FAQ page right from within the help system:

**FAQ URL:** <http://www.acasystems.com/en/faq.htm>

Support for ACA WebThumb ActiveX Control is always close at hand, a **support ticket** will get the quickest response. Be certain to provide as much background information as possible.

**Ticket Support Systems:** <http://www.acasystems.com/support/>

Include (at least) the following information if you encounter a problem with the software:

- Your operating system, for example Windows Vista, Windows XP Professional or Windows 2000 Professional.

- How much RAM your computer has installed (sometimes called "memory" but different from "hard disk space," something about which many novice users get understandably confused). If you don't know how to check this, open an Explorer window (not Internet Explorer, Windows Explorer) and select Help/About. It should show you a listing on the bottom of the dialog: Physical memory available to Windows. That will give you the RAM, but not swap file, available to the system for most versions of Windows.
- Your computer's CPU and speed (for example, Pentium IV, 2GHZ).
- A concise description of the problem and exactly what you did to get it to happen. **If you can get it to repeat at will, please give us every step from beginning until the end, that will help us replicate your problem.** Explain it so we can re-create it here, and we'll do our best to find out what causes it and get back to you with a possible solution.

You can contact us with ACASystems Support Systems: <http://www.acasystems.com/support/>.

To be notified about product upgrades, please sign up for our mailing list at:  
<http://www.ACASystems.com/en/maillist.htm>.

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## 5. System Requirements

To run **ACA WebThumb ActiveX Control**, your system must meet these specifications:

- Windows 2000, Windows XP, Windows 2003, Windows Vista or later version
- Internet Explorer 5 above
- Internet connection
- 400 MHz CPU processor(1G MHz recommended)
- 
- 128 MB RAM (256 MB recommended)
- 2 MB of hard-disk space for program installing

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## 6. Install and Uninstall

ACA WebThumb ActiveX Control supports for Windows standard Install/Uninstall package.

- **Get ACA WebThumb ActiveX Control Installation Program**

You can visit our website at <http://www.acasystems.com/> or other download sites, download the newest version for ACA WebThumb ActiveX Control .

- **Installing ACA WebThumb ActiveX Control**

Before installing, see System Requirements.

- Run the ACA WebThumb ActiveX Control installation program.
- Follow the instructions on the installation wizard.

- **Uninstalling ACA WebThumb ActiveX Control**

Click the [Start] button, select **Program |ACA Systems| ACA WebThumb ActiveX Control | Uninstall ACA WebThumb ActiveX Control**.

Any files you've created and left in your ACA WebThumb ActiveX Control folder will remain behind, and in which case you will have to manually delete these.

## 7. IThumbMaker Interface Reference: Class Members

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This is the complete list of members for IThumbMaker.

### Snap function

Functions to take snapshots from web pages.

- long **StartSnap()**  
Start the snap job.

### Snap Options

Set/Get the snap options

- void **SetURL** (string strURL);  
Set the URL of the web page to be taken snapshot.
- void **SetActiveXEnabled** (bool bEnable);  
Enable/Disable ActiveX controls on the web page.
- bool **GetActiveXEnabled** ();

Query whether ActiveX is enabled on the web page.

- void **SetJavaEnabled** (bool bEnable);  
Enable/Disable Java on the web page.
- bool **GetJavaEnabled** ();  
Query whether Java is enabled on the web page.
- void **SetJScriptEnabled** (bool bEnable);  
Enable/Disable JavaScript on the web page.
- bool **GetJScriptEnabled** ();  
Query whether JavaScript is enabled on the web page.
- void **SetImageEnabled** (bool bEnable);  
Enable/Disable image on the web page.
- bool **GetImageEnabled** ();  
Query whether image is enabled on the web page.
- void **SetVideoEnabled** (bool bEnable);  
Enable/Disable Video on the web page.
- bool **GetVideoEnabled** ();  
Query whether Video is enabled on the web page.
- void **SetBrowserSize** ( long lWidth, long lHeight);  
Set the size of the hidden web browser window.
- long **GetBrowserWidth** ();  
Get the width of the hidden web browser window.
- long **GetBrowserHeight** ();  
Get the Height of the hidden web browser window.
- void **SetTimeOut** (long lTimeOut);  
Set the time out value in seconds for **StartSnap** function.

- long **GetTimeOut** ();  
Get the time out value in seconds for **StartSnap** function.
- void **SetDelayTime** (long pi\_IDelayTime);  
Specifies the delay time value for **StartSnap** function, in milliseconds.
- long **GetDelayTime** ();  
Get the delay time value in milliseconds for **StartSnap** function.

## Image Access Functions

Set/Get the snap options

- bool **SaveImage** (string strSaveFile);  
Save the image to the local file.
- void **SetThumbSize** (long lWidth, long lHeight, long lRatioType);  
Set thumbnail image size.
- long **GetThumbWidth** ();  
Get the width value of the thumbnail image.
- long **GetThumbHeight** ();  
Get the height value of the thumbnail image.
- long **GetThumbRatioType** ();  
Get the ratio type value of the thumbnail image.
- void **SetBPP**(long lBPP);  
Set the number of bits-per-pixel in the image.
- long **GetBPP** ();  
Get the color depth of the thumbnail image.
- void **SetClipRect** (LONG pi\_lLeft, LONG pi\_lTop, LONG pi\_lWidth, LONG pi\_lHeight);  
Set the clip rectangle to the image.
- long **GetClipRect** (LONG\* po\_lLeft, LONG\* po\_lTop, LONG\* po\_lWidth, LONG\* po\_lHeight);

Get the clip rectangle to the image.

- void **SetDPI** (long IDPIx, long IDPIy);

Set resolution(DPI) of the thumbnail image.

- long **GetDPIx** ();

Get the horizontal resolution of the thumbnail image.

- long **GetDPIy** ();

Get the vertical resolution of the thumbnail image.

- long **GetBitmapHandle** ();

Get the HBITMAP handle of the thumbnail image.

- byte[] **GetImageBytes** (string strImageFormat);

Get the image memory-bytes of the thumbnail image.

- long **GetJpegQuality** ();

Get the quality of the JPEG image.

- void **SetJpegQuality** (LONG pi\_lQuality);

Adjust the quality of the JPEG image, set JPEG compression level

## Other functions

- void **SetRegInfo**(string strRegCode);

Set the registration information to remove the trial limit.

# 8. IThumbMaker Interface Reference: Function Documentation

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## StartSnap

Start the snap job.

- **Syntax**

```
long StartSnap ();
```

- **Return Value**

If the function succeeds, the return value is zero.

If the function fails, the return value is nonzero.

It may return one of the following values:

Error code	Description
0	Return successful
1	The snap process is time out. You can call function SetTimerOut to set the time out value.
2	The trial version is expired. You should visit <a href="http://www.acasystems.com">http://www.acasystems.com</a> to purchase a license, and then call SetRegInfo() before calling StartSnap()
3	The network or website errors.

- **Remarks**

The function *StartSnap* navigates a hidden WebBrowser to open the specified URL and takes a snapshot for the web page. You must call function SetURL() to set the URL to be taken snapshot before call *StartSnap*.

You can call function SaveImage() to save the image to the local file after function *StartSnap* succeeds.

- **Example**

An example for VC++:

```
void SnapExample()
{
    HRESULT hr;
    IThumbMaker * t_xpMaker = NULL;
    // Initializes the COM library on the current thread
    CoInitialize(NULL);

    hr = CoCreateInstance(
        __uuidof(ThumbMaker), NULL, CLSCTX_INPROC_SERVER,
        __uuidof(IThumbMaker), (void**) &t_xpMaker
    );

    if ( SUCCEEDED(hr) )
    {
        long t_lRet = 0;
        t_xpMaker->SetURL( _T("http://www.acasystems.com") );
        t_lRet = t_xpMaker->StartSnap();
        if ( 0 == t_lRet )
        {
            // Snap successful, call SaveImage() to save the image, and then call
```

```

// WIN32 API ShellExecute() to open the image by default image viewer.
t_xpMaker->SaveImage( _T("c:/acasystems.png") );
ShellExecute( NULL, _T("open"), _T("c:/acasystems.png"), NULL, NULL, SW_SHOW);
}
t_xpMaker->Release();
}
}

```

An example for PHP:

```

<?
$t_xMaker = new COM('ACAWebThumb.ThumbMaker')
or die("Start ACAWebThumb.ThumbMakerfailed");

$t_xMaker->SetURL("http://www.acasystems.com");
if ( 0 == $t_xMaker->StartSnap() )
{
// Snap successful, call SetImageFile() to save the image.
echo "Take screenshot successful." ;
$t_xMaker->SaveImage("c:/acasystems.png");
}
?>

```

## SetURL

Set the URL for the web page to be taken snapshot.

- **Syntax**

```

void SetURL(
    string strURL
);

```

- **Parameters**

*strURL*

[in] The URL for the web page to be taken snapshot. It can be a HTTP webpage URL, also can be a local HTML file. For example: "http://www.acasystems.com" or "file:///C:/mytest.htm".

## SetActiveXEnabled

Enable/Disable ActiveX controls on the web page.

- **Syntax**

```

void SetActiveXEnabled (
    bool bEnable
);

```

- **Parameters**

*bEnable*

[in] Boolean value that is true to enable ActiveX control on the web page.

- **Remarks**

If the value is set to false, the ActiveX controls will not be executed.

For security reason, the default value is false.

## GetActiveXEnabled

Query whether ActiveX is enabled on the web page

- **Syntax**

```
bool GetActiveXEnabled ();
```

- **Return Value**

Boolean value that is true if the ActiveX control is enabled on the web page.

- **Remarks**

If the value is set to false, the ActiveX controls will not be executed.

For security reason, the default value is false.

## SetJavaEnabled

Enable/Disable Java applets on the web page.

- **Syntax**

```
void SetJavaEnabled (  
    bool bEnable  
);
```

- **Parameters**

*bEnable*

[in] Boolean value that is true to enable Java applets on the web page.

- **Remarks**

If the value is set to false, the Java applets will not be executed.

For security reason, the default value is false.

## GetJavaEnabled

Query whether Java applets is enabled on the web page.

- **Syntax**

```
bool GetJavaEnabled ();
```

- **Return Value**

Boolean value that is true if the Java applets is enabled on the web page.

- **Remarks**

If the value is set to false, the Java applets will not be executed.

For security reason, the default value is false.

## SetJScriptEnabled

Enable/Disable JavaScript on the web page.

- **Syntax**

```
void SetJScriptEnabled (  
    bool bEnable  
);
```

- **Parameters**

*bEnable*

[in] Boolean value that is true to enable JavaScript on the web page.

- **Remarks**

If the value is set to false, the JavaScript will not be executed.

For security reason, the default value is false.

## GetJScriptEnabled

Query whether JavaScript is enabled on the web page.

- **Syntax**

```
bool GetJScriptEnabled ();
```

- **Return Value**

Boolean value that is true if the JavaScript is enabled on the web page.

- **Remarks**

If the value is set to false, the JavaScript will not be executed.

For security reason, the default value is false.

## SetImageEnabled

Enable/Disable image elements on the web page.

- **Syntax**

```
void SetImageEnabled (  
    bool bEnable  
);
```

- **Parameters**

*bEnable*

[in] Boolean value that is true to enable image elements on the web page.

- **Remarks**

If the value is set to false, the images will not be shown.

The default value is true.

## GetImageEnabled

Query whether image elements is enabled on the web page.

- **Syntax**

```
bool GetImageEnabled ();
```

- **Return Value**

Boolean value that is true if the image elements is enabled on the web page.

- **Remarks**

If the value is set to false, the images will not be shown.

The default value is true.

## SetVideoEnabled

Enable/Disable Video on the web page.

- **Syntax**

```
void SetVideoEnabled (  
    bool bEnable  
);
```

- **Parameters**

*bEnable*

[in] Boolean value that is true to enable video on the web page.

- **Remarks**

If the value is set to false, the video on the web page will not be downloaded and played.

For security reason, the default value is false.

## GetVideoEnabled

Query whether Video is enabled on the web page.

- **Syntax**

```
bool GetVideoEnabled ();
```

- **Return Value**

Boolean value that is true if the video is enabled on the web page.

- **Remarks**

If the value is set to false, the video on the web page will not be downloaded and played.

For security reason, the default value is false.

## SetBrowserSize

Set the size of the hidden web browser window.

- **Syntax**

```
void SetBrowserSize (  
    long lWidth,  
    long lHeight  
);
```

- **Parameters**

*lWidth*

[in] The width of the hidden web browser window.

### *lHeight*

[in] The height of the hidden web browser window.

- **Remarks**

The default size of the web browser window is 1024x768.

- **Example**

An example for VC++:

```
void SnapExample()
{
    HRESULT hr;
    IThumbMaker * t_xpMaker = NULL;
    // Initializes the COM library on the current thread
    CoInitialize(NULL);

    hr = CoCreateInstance(
        __uuidof(ThumbMaker), NULL, CLSCTX_INPROC_SERVER,
        __uuidof(IThumbMaker), (void**)&t_xpMaker
    );

    if ( SUCCEEDED(hr) )
    {
        long t_lRet = 0;
        t_xpMaker->SetURL( _T("http://www.acasystems.com") );
        t_xpMaker->SetBrowserSize(800, 600); // Set browser size to 800x600
        t_lRet = t_xpMaker->StartSnap();
        if ( 0 == t_lRet )
        {
            // Snap successful, call SetImageFile() to save the image, and then call
            // WIN32 API ShellExecute() to open the image by default image viewer.
            t_xpMaker->SaveImage( _T("c:/acasystems.png") );
            ShellExecute( NULL, _T("open"), _T("c:/acasystems.png"), NULL, NULL, SW_SHOW);
        }
        t_xpMaker->Release();
    }
}
```

An example for PHP:

```
<?
$t_xMaker = new COM('ACAWebThumb.ThumbMaker')
    or die("Start ACAWebThumb.ThumbMakerfailed");

$t_xMaker->SetURL("http://www.acasystems.com");
$t_xMaker->SetBrowserSize(800, 600); // Set browser size to 800x600
if ( 0 == $t_xMaker->StartSnap() )
{
    // Snap successful, call SetImageFile() to save the image.
    echo "Take screenshot successful. " ;
    $t_xMaker->SaveImage("c:/acasystems.png");
    echo "Take screenshot successful. " ;
}
```

```
}  
?>
```

## GetBrowserWidth

Get the width of the hidden web browser window.

- **Syntax**

```
long GetBrowserWidth();
```

- **Return Value**

The width of the hidden web browser window.

- **Remarks**

The default size of the web browser window is 1024x768.

## GetBrowserHeight

Get the Height of the hidden web browser window.

- **Syntax**

```
long GetBrowserHeight();
```

- **Return Value**

The height of the hidden web browser window.

- **Remarks**

The default size of the web browser window is 1024x768.

## SetTimeOut

Set the time out value in seconds for function StartSnap.

- **Syntax**

```
void SetTimeOut(  
    long lTimeOut  
);
```

- **Parameters**

*lTimeOut*

[in] A long integer that specifies the number of seconds. If this is reached, the function StartSnap returns failed. If the *lTimeout* is set to zero, no time limit is imposed.

- **Remarks**

The default timeout value is 120 seconds.

## GetTimeout

Get the timeout value in seconds for function StartSnap.

- **Syntax**

```
long GetTimeout();
```

- **Return Value**

The timeout value in seconds.

- **Remarks**

The default timeout value is 120 seconds. If the timeout value is set to zero, no time limit is imposed.

## SetDelayTime

Specifies the delay time value for StartSnap function, in milliseconds.

- **Syntax**

```
void SetDelayTime(  
    long pi_lDelayTime  
);
```

- **Parameters**

*pi\_lDelayTime*

[in] A long integer that specifies the delay time in milliseconds.

- **Remarks**

The default delay time value is zero.

If you want to take snapshot from the web page that including the video(e.x. YouTube video), you should call *SetDelayTime* to specify a delay time for loading the video.

## GetDelayTime

Get the delay time value for StartSnap function, in milliseconds.

- **Syntax**

```
long GetDelayTime();
```

- **Return Value**

The delay time in milliseconds.

- **Remarks**

The default delay time value is zero.

## SaveImage

Save an image as the specified type.

- **Syntax**

```
bool SaveImage (  
string strSaveFile  
);
```

- **Parameters**

*strSaveFile*

[in] The file name for the image.

- **Return Value**

If the function succeeds, the return value is true.

If the function fails, the return value is false

- **Remarks**

Call this function to save the image using a specified name and type. the file name's file extension will be used to determine the image format. For example: "c:/mytest.jpg" or "c:/mytest.png".

ACA WebThumb ActiveX Control supports for following image formats:

- **Raster image formats**
  1. **BMP**
  2. **JPG**
  3. **GIF**
  4. **PNG**
  5. **TIF**
- **Vector image formats**
  1. **WMF**
  2. **EMF**

- **Example**

An example for VC++:

```
void SnapExample()
{
    HRESULT hr;
    IThumbMaker * t_xpMaker = NULL;
    // Initializes the COM library on the current thread
    CoInitialize(NULL);

    hr = CoCreateInstance(
        __uuidof(ThumbMaker), NULL, CLSCTX_INPROC_SERVER,
        __uuidof(IThumbMaker), (void**)&t_xpMaker
    );

    if ( SUCCEEDED(hr) )
    {
        long t_lRet = 0;
        t_xpMaker->SetURL( _T("http://www.acasystems.com") );
        t_lRet = t_xpMaker->StartSnap();
        if ( 0 == t_lRet )
        {
            // Snap successful, save image as .PNG format
            t_xpMaker->SaveImage( _T("c:/acasystems.png") );
            // Snap successful, save image as .JPG format
            t_xpMaker->SaveImage( _T("c:/acasystems.jpg") );
        }
        t_xpMaker->Release();
    }
}
```

An example for PHP:

```
<?
$t_xMaker = new COM('ACAWebThumb.ThumbMaker')
            or die("Start ACAWebThumb.ThumbMakerfailed");

$t_xMaker->SetURL("http://www.acasystems.com");
if ( 0 == $t_xMaker->StartSnap() )
{
    // Snap successful, save image as .PNG format
    $t_xMaker->SaveImage("c:/acasystems.png");
    // Snap successful, save image as .JPG format
    $t_xMaker->SaveImage("c:/acasystems.jpg");
    echo "Take screenshot successful. ";
}
?>
```

## SetThumbSize

Set thumbnail image size.

- **Syntax**

```
void SetThumbSize (
    long lWidth,
```

```
long lHeight,  
long lRatioType  
);
```

- **Parameters**

*lWidth*

[in] The width of the thumbnail image.

If *lWidth* and *lHeight* is set to zero, the image will be saved with full size.

If *lWidth* is set to zero and *lHeight* is set to nonzero, the function will auto calculate the image width.

*lHeight*

[in] The height of the thumbnail image.

If *lWidth* and *lHeight* is set to zero, the image will be saved with full size.

If *lHeight* is set to zero and *lWidth* is set to nonzero, the function will auto calculate the image height.

*lRatioType*

[in] The width/height ratio type. 0: keep ratio by width; 1: keep ratio by height.

If *lWidth* or *lHeight* is set to zero, this parameter will be ignored.

- **Remarks**

The default thumbnail width and height is set to zero, the image will be saved with full size.

- **Example**

An example for VC++:

```
void SnapExample()  
{  
    HRESULT hr;  
    IThumbMaker * t_xpMaker = NULL;  
    // Initializes the COM library on the current thread  
    CoInitialize(NULL);  
  
    hr = CoCreateInstance(  
        __uuidof(ThumbMaker), NULL, CLSCTX_INPROC_SERVER,  
        __uuidof(IThumbMaker), (void**)&t_xpMaker  
    );  
  
    if ( SUCCEEDED(hr) )  
    {  
        long t_lRet = 0;
```

```

t_xpMaker->SetURL( _T("http://www.acasystems.com") );
t_lRet = t_xpMaker->StartSnap();
if ( 0 == t_lRet )
{
    // save image with full size
    t_xpMaker->SetThumbSize (0,0,0);
    t_xpMaker->SaveImage( _T("c:/acasystems_full.png") );
    // set image size to 320x240, keep ratio by width
    t_xpMaker->SetThumbSize (320,240,0);
    t_xpMaker->SaveImage( _T("c:/acasystems_320x240.png") );
    // set image width to 320, auto calculate the image height.
    t_xpMaker->SetThumbSize (320,0,0);
    t_xpMaker->SaveImage( _T("c:/acasystems_320xauto.png") );
    // set image height 240, auto calculate the image width.
    t_xpMaker->SetThumbSize (0,240,0);
    t_xpMaker->SaveImage( _T("c:/acasystems_autox240.png") );
}
t_xpMaker->Release();
}
}

```

An example for PHP:

```

<?
    $t_xMaker = new COM('ACAWebThumb.ThumbMaker')
    or die("Start ACAWebThumb.ThumbMaker failed");

    $t_xMaker->SetURL("http://www.acasystems.com");
    if ( 0 == $t_xMaker->StartSnap() )
    {
        // save image with full size
        $t_xMaker->SetThumbSize (0,0,0);
        $t_xMaker->SaveImage( "c:/acasystems_full.png" );
        // set image size to 320x240, keep ratio by width
        $t_xMaker->SetThumbSize (320,240,0);
        $t_xMaker->SaveImage( "c:/acasystems_320x240.png");
        // set image width to 320, auto calculate the image height.
        $t_xMaker->SetThumbSize (320,0,0);
        $t_xMaker->SaveImage( "c:/acasystems_320xauto.png");
        // set image height 240, auto calculate the image width.
        $t_xMaker->SetThumbSize (0,240,0);
        $t_xMaker->SaveImage( "c:/acasystems_autox240.png");
        echo "Take screenshot successful. ";
    }
?>

```

## GetThumbWidth

Get the width value of the thumbnail image.

- **Syntax**

```
long GetThumbWidth();
```

- **Return Value**

The real width of thumbnail image.

## GetThumbHeight

Get the height value of the thumbnail image.

- **Syntax**

```
long GetThumbHeight();
```

- **Return Value**

The real height of thumbnail image.

## GetThumbRatioType

Get the ratio type value of the thumbnail image.

- **Syntax**

```
long GetThumbRatioType();
```

- **Return Value**

The ratio type value of the thumbnail image. 0: keep ratio by width; 1: keep ratio by height.

## SetBPP

Set the number of bits-per-pixel in the image.

- **Syntax**

```
void SetBPP(  
    long lBPP  
);
```

- **Parameters**

*lBPP*

[in] Specifies the number of bits-per-pixel in the image. This member must be one of the following value: 1, 4, 8, 16, 24, 32.

- **Remarks**

The default BPP value is 32.

## GetBPP

Get the number of bits-per-pixel in the image.

- **Syntax**

```
long GetBPP();
```

- **Return Value**

The number of bits-per-pixel in the image.

- **Remarks**

The default BPP value is 32.

## SetClipRect

Sets the coordinates of the specified clip rectangle to the image.

- **Syntax**

```
void SetClipRect(  
    long lLeft,  
    long lTop,  
    long lWidth,  
    long lHeight  
);
```

- **Parameters**

*lLeft*

[in] Specifies the x-coordinate.

*lTop*

[in] Specifies the y-coordinate.

*lWidth*

[in] Specifies the width of the clip rectangle.

*lHeight*

[in] Specifies the height of the clip rectangle.

- **Remarks**

Sets the coordinates of the specified clip rectangle to the image. You can use this function to take a snapshot of a long HTML and break it up into multiple images.

- **Samples**

ASP Sample: see *{install folder}/sample/asp/clip-part.asp*.

PHP Sample: see *{install folder}/sample/php/clip-part.php*.

## GetClipRect

Gets the coordinates of the specified clip rectangle to the image.

- **Syntax**

```
void GetClipRect(  
    long * lLeft,  
    long * lTop,  
    long * lWidth,  
    long * lHeight  
);
```

- **Parameters**

*lLeft*

[out] Get the x-coordinate.

*lTop*

[out] Get the y-coordinate.

*lWidth*

[out] Get the width of the clip rectangle.

*lHeight*

[out] Get the height of the clip rectangle.

- **Remarks**

The default clip rectangle is (0, 0, 0, 0).

## SetDPI

Set resolution(DPI) of the thumbnail image.

- **Syntax**

```
void SetDPI (  
    long lDPIx,  
    long lDPIy  
);
```

- **Parameters**

*lDPIx*

[in] Specifies the horizontal resolution in dots-per-inch.

*IDPIy*

[in] Specifies the vertical resolution in dots-per-inch.

- **Remarks**

The default DPI value is set to 96x96.

## GetDPIX

Get the horizontal resolution of the thumbnail image.

- **Syntax**

```
long GetDPIX();
```

- **Return Value**

the horizontal resolution of the thumbnail image, in dots-per-inch.

## GetDPIy

Get the p>resolution of the thumbnail image.

- **Syntax**

```
long GetDPIy();
```

- **Return Value**

the resolution of the thumbnail image, in dots-per-inch.

## GetBitmapHandle

Get the HBITMAP handle of the thumbnail image.

- **Syntax**

```
long GetBitmapHandle();
```

- **Return Value**

If the function succeeds, the return value is the HBITMAP handle of the thumbnail image.

If the function failes, the return value is NULL.

- **Remarks**

Call this function after function *StartSnap* succeeds.

When you no longer need the bitmap, call the *DeleteObject* WINAPI function to delete it.

- **Example**

An example for VC++:

```
void SnapExample()
{
    HRESULT hr;
    IThumbMaker * t_xpMaker = NULL;
    // Initializes the COM library on the current thread
    CoInitialize(NULL);

    hr = CoCreateInstance(
        __uuidof(ThumbMaker), NULL, CLSCTX_INPROC_SERVER,
        __uuidof(IThumbMaker), (void**)&t_xpMaker
    );

    if ( SUCCEEDED(hr) )
    {
        long t_lRet = 0;
        t_xpMaker->SetURL( _T("http://www.acasystems.com") );
        t_lRet = t_xpMaker->StartSnap();
        if ( 0 == t_lRet )
        {
            // Snap successful, call GetBitmapHandle() to get the HBITMAP handle
            HBITMAP t_hBMP = (HBITMAP)t_xpMaker->GetBitmapHandle();
            if ( NULL != t_hBMP )
            {
                // TODO: Add your codes here ...
                // ....

                // Delete the handle
                DeleteObject(t_hBMP);
            }
        }
        t_xpMaker->Release();
    }
}
```

## GetImageBytes

Get the image memory-bytes of the thumbnail image.

- **Syntax**

```
byte[] GetBitmapHandle(
    string strImageFormat
);
```

- **Parameters**

*strImageFormat*

[in]

Specifies the image format. For example: "png", "jpg", "gif".

ACA WebThumb ActiveX Control supports for following image formats:

- **Raster image formats**
  1. **BMP**
  2. **JPG**
  3. **GIF**
  4. **PNG**
  5. **TIF**
- **Vector image formats**
  1. **WMF**
  2. **EMF**

- **Return Value**

A bytes array contains the image data.

- **Remarks**

Call this function after function *StartSnap* succeeds.

- **Example**

An example for PHP:

```
<?
// This sample script shows how to make a web thumbnail in the memory and output to
// client browser.
//
// Parameters:
// url: The URL that you want to capture.
// width: The thumbnail width
// height: The thumbnail height
// ratiotype: The width/height ratio type. 0: keep ratio by width; 1: keep ratio
// by height.
//
// Example:
//  or
// 

// set the output header.
header("Content-type: image/png");

// Create instance ACAWebThumb.ThumbMaker
$t_xMaker = new COM("ACAWebThumb.ThumbMaker")
    or die();

// Get the parameters
$t_strURL = isset($_GET["url"]) ? $_GET["url"] : "http://www.google.com";
$t_iWidth = isset($_GET["width"]) ? $_GET["width"] : 320;
$t_iHeight = isset($_GET["height"]) ? $_GET["height"] : 240;
$t_iRatioType = isset($_GET["ratiotype"]) ? $_GET["ratiotype"] : 0;
```

```
// Set the URL and start snap
$t_xMaker->SetURL($t_strURL);
if ( 0 == $t_xMaker->StartSnap() )
{
    // snap successful, set the thumbnail size and get image bytes
    $t_xMaker->SetThumbSize ($t_iWidth, $t_iHeight, $t_iRatioType);
    $t_arrBytes = $t_xMaker->GetImageBytes ("png");

    // output the image bytes to client
    if ( count($t_arrBytes) > 0 )
    {
        foreach($t_arrBytes as $byte)
            echo chr($byte);
    }
}
?>
```

## GetJpegQuality

Get the quality level of the JPEG image.

- **Syntax**

```
long GetJpegQuality();
```

- **Return Value**

Return the JPEG quality level. A quality level of 0 corresponds to the greatest compression(worst quality), and a quality level of 100 corresponds to the least compression(best quality).

## SetJpegQuality

Specify the quality level when you save a JPEG image.

- **Syntax**

```
void SetJpegQuality(
    LONG pi_lQuality
);
```

- **Parameters**

*pi\_lQuality*

[in] Specify the quality level. A quality level of 0 corresponds to the greatest compression(worst quality), and a quality level of 100 corresponds to the least compression(best quality)

- **Remarks**

The default value is set to 90.

## SetRegInfo

Set the registration information to remove the trial limit.

- **Syntax**

```
void SetRegInfo(  
    string strRegCode  
);
```

- **Parameters**

*strRegCode*

[in] The registration code, for example: "AAAAAAAAA-BBBBBBBBBB-CCCCCCCCC-DDDDDDDDDD". Once you purchase the component, a registration code will be sent to you by email.

- **Remarks**

You should call this function to remove the trial limit before calling *StartSnap*.

## 9. Samples

---

The samples can be found in the folder **{installed-folder}/ACAWebThumb/sample/**. The samples written in several kinds of languages, which show how to use ACA WebThumb ActiveX Control:

- Asp sample
- Asp.net sample - C#(C Sharp)
- Asp.net sample - vb.net
- Java sample
- Perl sample
- Php sample
- VB 6.0 sample
- VC 6.0 & VC 2005 sample
- Winform - csharp
- Winform - vb.net

# 10. User License Terms

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