

Light Lib Products for Windows

Microsoft Visual Basic

February 1995

Dear User,

Please see README.WRI found in \LIGHTLIB for important information not found in this file. This README.WRI file contains information on how to use all Light Lib products with Microsoft Visual Basic

We thank you for your support,
The DFL Team

Compatibility

Light Lib products for Windows are compatible with Microsoft Visual Basic Version 3.0

Installation

The Light Lib Images custom control for Visual Basic (LLI.VBX) is automatically placed into your \WINDOWS\SYSTEM and \LIGHTLIB\SYSTEM directories.

Using

In order to use the Light Lib Images custom control with your Visual Basic application, you need to add it to your project.

The following steps are required to add the LLI.VBX control to your project:

1. Click on FILE in the Visual Basic [design] menu
2. Choose Add File ...
3. Select the LLI.VBX file in the \WINDOWS\SYSTEM directory and click on OK

You will now see this new button for the Light Lib Images custom control in the ToolBox.



To create a form using the Light Lib Images custom control, click on FILE in the Visual Basic [design] menu and choose the New Form option. Now click on the new LLI button in the Visual Basic ToolBox. Move the mouse cursor over the new form and click where you want to place the Light Lib Images custom control. Keep the mouse button pressed and drag the the mouse cursor until the control has the size you desire. Let now the mouse button come up again. You can now interact with the control by modifying the controls properties in the Visual Basic Property window. See the following table for more details on the properties.

Properties of Light Lib Images VBX

Button Crop	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button fit in window	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button fit release	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button fit to height	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button fit to width	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button Load	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button Print	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button rotate +90°	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button rotate - 90°	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button rotate 180°	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button Save	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button Scan	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button zoom in	TRUE=enable, FALSE=disable	this button in the control's toolbar
Button zoom out	TRUE=enable, FALSE=disable	this button in the control's toolbar
Error	error return code after an execution of ExecFunc	
ExecFunc	execute various instructions (see the " <i>Instructions executed by ExecFunc</i> " on the next page)	
FileName	path and name of picture file	
Height	control height	
Index		
Left	horizontal control location	
Name	control name	
ParLog1	boolean parameter for ExecFunc	
ParLog2	boolean parameter for ExecFunc	
ParLog3	boolean parameter for ExecFunc	
ParNum1	numeric parameter for ExecFunc	
ParNum2	numeric parameter for ExecFunc	
ParNum3	numeric parameter for ExecFunc	
ParStr1	string parameter for ExecFunc	
ParStr2	string parameter for ExecFunc	
ParStr3	string parameter for ExecFunc	
Top	vertical control location	
Use Toolbar	TRUE=enable, FALSE=disable	the controls toolbar
Visible	control visible or not	
Width	control width	
Zoom_X	internal zoomfactor X	
Zoom_Y	internal zoomfactor Y	

Instructions executed by ExecFunc:

Function	Properties used	description
ExecFunc : "ZOOM"	ParStr1 : "FACTOR"	Zoom by factor
	ParNum1 : X factor	
	ParNum2 : Y factor	
ExecFunc : "ZOOM"	ParStr1 : "PIXEL"	Zoom by size in pixel
	ParNum1: pixel in X	
	ParNum1: pixel in Y	
ExecFunc : "FIT"	ParStr1 : "HEIGHT"	fit image height in window
ExecFunc : "FIT"	ParStr1 : "WIDTH"	fit image width in window
ExecFunc : "FIT"	ParStr1 : "WINDOW"	fit image in window
ExecFunc : "FIT"	ParStr1 : "UNFIT"	unfit image (release)
ExecFunc : "ROTATE"	ParNum1: 90	rotate image right 90°
ExecFunc : "ROTATE"	ParNum1: 180	rotate image 180°
ExecFunc : "ROTATE"	ParNum1: 270	rotate image left 90°
ExecFunc : "Print"	ParLog1: TRUE	print selection
ExecFunc : "Print"	ParLog1: FALSE	print all
ExecFunc : "SCAN"	- no parameters -	scan an image
ExecFunc : "LOAD"	ParStr1 : "<filename>"	file to be loaded
ExecFunc : "SAVE"	ParStr1 : "<filename>"	file to be saved as
	ParStr2 : "GIF", "PCX", "BMP", "TIF", "JPG"	file formats supported to be saved in
	ParLog1: TRUE	save selection
	: FALSE	save all
	ParLog2: TRUE	save compressed
	: FALSE	save non compressed
ExecFunc : "RESIZE"	ParStr1 : "FACTOR"	resize by factor
	ParNum1: X factor	
	ParNum1: Y factor	
ExecFunc : "RESIZE"	ParStr1 : "PIXEL"	resize by size in pixel
	ParNum1: pixel in X	
	ParNum1: pixel in Y	
ExecFunc : "CROP"	- no parameters -	Crop the image

(make the selected region
be the original)

ExecFunc : "CLEARPARAM" - no parameters - reset all parameters

Demo

The following explains what each button on the toolbar of the Light Lib Images custom control does in left to right button order.

1. Scan in a new image into this window by using your installed TWAIN driver.
2. Load an existing image into this window by choosing the path and filename in a file dialog box.
3. Save the image as a new file format such as BMP, PCX, GIF, TIF and JPG as well as using various compression techniques.
4. Print the image.
5. Fit the image to the width of the window. Use the vertical scroll bar to pan the image.
6. Fit the image to the height of the window. Use the horizontal scroll bar to pan the image.
7. Fit the image completely in the window. Notice the image may appear deformed. This is because the image is being scaled both vertically and horizontally and the scale factor may be different for both.
8. Releases any previous Fit mode and displays the original image.

Notice that buttons 5,6,7 maintain the image settings even when the window is resized.

9. Rotates the entire image 90 degrees right.
10. Rotates the entire image 90 degrees left.
11. Rotates the entire image 180 degrees

Notice that buttons 9,10,11 maintain the image settings even when the window is resized and you are able to apply buttons 5,6,7 to the rotated image.

12. Crops a region of the image selected by the mouse. First use your mouse to select a portion of the image, then select this button to perform the crop. Be aware that cropping an image destroys the original image and uses the cropped region as the new image.
13. Zoom in. Make the image larger (more detail).
14. Zoom out. Make the image smaller (less detail).

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