

# Auto Saving Image on PC ability in CPM (version 7.4)

1. Images are saved using the Image Display Control.
2. Insert an Image Display control onto the CPM canvas:



3. Click on the Image Display and go to its Properties tab.




The image shows a screenshot of the Properties window for the Image Display control. A large red arrow on the left points to the window. The window contains a table with columns for Property Name, Type, Value, and Binding. The 'Auto Image Save Enabled' property is highlighted with a red arrow pointing to its dropdown menu, which is currently set to 'False'. The 'Pseudocolor Color' property is highlighted with a red arrow pointing to its color selection field, which is currently set to a cyan color.

Property Name	Type	Value	Binding
Background	Color		
Auto Image Save All Name	String	Image	
Auto Image Save Enabled	Boolean	False	
Auto Image Save Failed Name	String	Failed Image	
Auto Image Save Passed Name	String	Passed Image	
Auto Image Save Rollover Limit	Integer	100	
Auto Image Save Type	Enumeration	Failed	
Auto Image Save With ROIs	Boolean	False	
Selected Pixel Color	Color	Read Only	
Selected Pixel Intensity	Real	Read Only	
Selected Pixel Location	Point	Read Only	
Editing Enabled	Boolean	True	
Height	Integer	486	
Image	Image	Bindable Only	
Image Display Connection	Image Display Connection	Read Only	
Display Image Name	Boolean	False	
Image Passed	Boolean	False	
Image Status Border	Enumeration	None	
Maximum Pseudocolor Threshold	Real	100	
Minimum Pseudocolor Threshold	Real	0	
Display Orientation	Enumeration	Normal	
Pseudocolor Color	Color		
Pseudocolor Enabled	Boolean	False	
Save Image File	String		
Save Image Path	String		
Show Cursor Value	Boolean	False	
Toolbar Location	Enumeration	Bottom	
Toolbar Visible	Boolean	False	
Visible	Boolean	True	
Width	Integer	646	
X	Integer	9	
Y	Integer	8	
Zoom	Real	1	

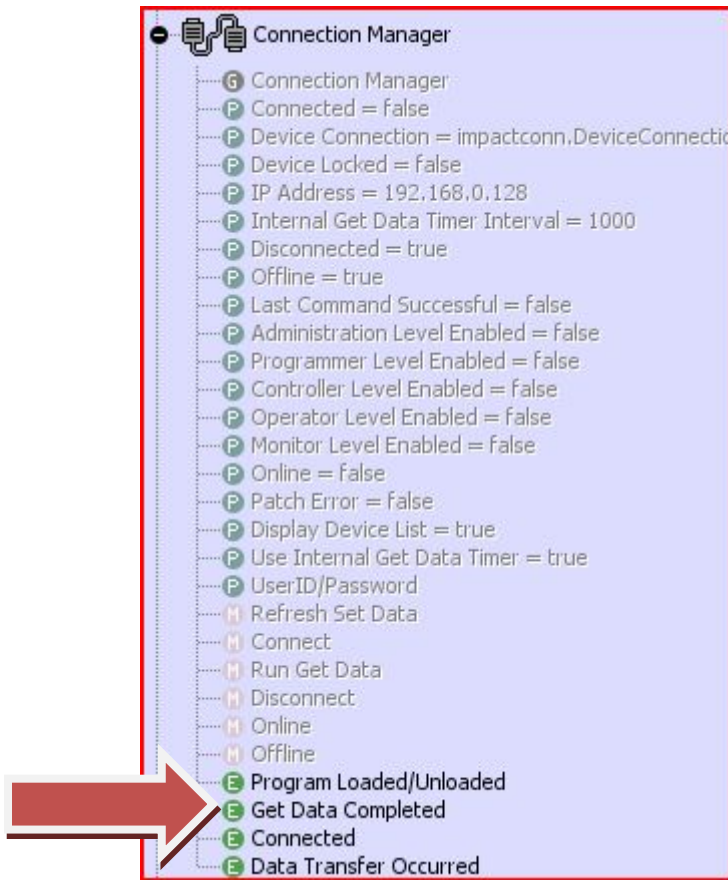
4. Set the "Auto Image Save Enabled" property to True.

5. For “Auto Image Save Type” – if you choose only “Passed” or “Failed” images be sure to patch the “Image Passed” property to a Boolean to indicate a pass or fail.
6. You will also notice that the Image Display also has a built in pass/fail border that can be enabled.
7. Now go to the Methods tab.



Method Name	Binding
Save Image With ROIs	
Show	
Delete Saved Image Files	
Hide	
Auto Save Image	
Save Image	

8. Bind the “Auto Save Image” method to the “Get Data Completed” event.



9. You should now be able to save images automatically.

10. If you want to delete all of the images off the PC (from the folder you have been saving to) - Bind the "Delete Saved Image Files" method to an Action of a Button control.

Method Name	Binding
Save Image With ROIs	[Method icon]
Show	[Method icon]
Delete Saved Image Files	[Method icon] - <b>Highlighted by a red arrow</b>
Hide	[Method icon]
Auto Save Image	[Method icon]
Save Image	[Method icon]

11. All Auto Image Saving on PC Properties (within the Image Display Control):

Property Name	What it is
Auto Image	This is the image file name of all images when Auto Image Save

Save All Name	Enabled is true, and Auto Image Save Type is All.
Auto Image Save Enabled	If True, the displayed image is saved to a file with the .png extension. The file name is entered in the Save Image File property. The directory path is entered in the Save Image Path property.
Auto Image Save Failed Name	This is the image file name of a Failed image when Auto Image Save Enabled is true, and Auto Image Save Type is Failed.
Auto Image Save Passed Name	This is the image file name of a Passed image when Auto Image Save Enabled is true, and Auto Image Save Type is Passed.
Auto Image Save Rollover Limit	The maximum number of image files of each image Type that will be saved in the directory specified in the Save Image Path property. Once the limit has been reached, existing files are overwritten. For example, if the Rollover Limit is 100 and image types of Passed, Failed and All are selected, the current image directory will contain a maximum of 300 files
Auto Image Save Type	If All is selected, displayed images are saved to the Save Image Path with the name in the Auto Image Save All Name property. If Failed is selected, displayed images with the Image Passed property of false are saved to the Save Image Path with the name in the Auto Image Save Failed Name property. If Passed is selected, displayed images with the Image Passed property of true are saved to the Save Image Path with the name in the Auto Image Save Passed Name property
Auto Image Save With ROIs	When true, and Auto Image Save Enabled is true, displayed images are saved with the ROI's that are displayed on the image.
Save Image File	The filename for saving the image if the saveImage method is called. (The "png" extension is added to the filename and the image is saved in Portable Network Graphics format.)
Save Image Path	The path for saving the image if the Save Image or Auto Save methods are invoked. The currently connected device's IP address is added to the path name. For example, if you enter a path of c:/PPT VISION, the images will be saved in the folder c:/PPT VISION/192.168.108.65/
Image Passed	This property indicates the pass or fail status of the currently displayed image so that image can be saved as a Passed or Failed image. This property is typically bound to a Boolean that indicates the final inspection status.
Image Status Border	When None is selected, no border is shown around the image. When Failed is selected, a red border is displayed around images with an Image Passed property of False.

	<p>When Passed and Failed is selected, a red border is displayed around images with an Image Passed property of False and a green border is displayed around images with an Image Passed property of true.</p>
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Method Name	What it does
Delete Saved Image Files	<p>If the Auto Image Save Enabled property is true, all the .png files in the directory named by the Save Image Path property (concatenated with the device's IP address) are deleted.                      If the Auto Image Save Enabled property is false, all the .png files in the directory named by the Save Image Path property are deleted</p>
Auto Save Image	<p>This method should be bound to the Impact Connector's Get Data Completed event to ensure that all of the necessary patched properties for the image will have the correct values (such as the Image Passed property) before it is saved.                      If Auto Image Save Enabled is true, the next Auto Image Save file name is generated and the currently displayed image is saved to that file. Images are saved according to the Auto Image Save properties.                      If Auto Image Save Enabled is false, the image is NOT saved.</p>