



# CarouselUSA

## MC3 Motion Control System Shutter Stream Quickstart



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## 1. Before you begin!

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**Important Note:** *Ensure the standalone CUSA360.exe software is connected and working properly before setting up the ShutterStream workflow. Refer to the MC3 CUSA360 Manual to get set up.*

Please be sure to follow the Compatible Camera Set up Instructions prior to working with the program: <http://iconasys.com/canon-nikon-dslr-camera-settings/>

## 2. Installing Software

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1. First **download** the latest version of Shutter Stream and the associated CUSA 360 standalone/Carousel USA plug-in, using the links below:

**Shutter Stream:**

Windows : [www.carousel-usa.com/ShutterStreamInstallationFiles/ShutterStream-Windows.exe](http://www.carousel-usa.com/ShutterStreamInstallationFiles/ShutterStream-Windows.exe)

Mac: [www.carousel-usa.com/ShutterStreamInstallationFiles/ShutterStream-Mac.pkg](http://www.carousel-usa.com/ShutterStreamInstallationFiles/ShutterStream-Mac.pkg)

**CUSA 360 for Windows:**

[www.carousel-usa.com/ShutterStreamInstallationFiles/Cusa360Installer.exe](http://www.carousel-usa.com/ShutterStreamInstallationFiles/Cusa360Installer.exe)

**.DLL Plug-in Installer:**

[www.carousel-usa.com/ShutterStreamInstallationFiles/Installer.exe](http://www.carousel-usa.com/ShutterStreamInstallationFiles/Installer.exe)

2. Run the “**ShutterStream-Windows.exe**” file
3. Click through the Shutter Stream installation screens until it is fully installed/updated. ***Uncheck the box to run the software after the installation.*** If you don’t, simply close Shutter Stream so it can be modified by the following installers prior to actual use.
4. Next you will run the “**CUSA360Installer.exe**” file software installer. Open the CUSA360 exe file above and click through the install screens until it is fully installed/updated. It will place a shortcut on your Desktop to the software.

5. Finally, run the plugin “**Installer.exe**” file installer you downloaded above. Again, click through all the screens to install.

### 3. Registering Software

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Neither CUSA360 nor the CUSA plug-in require registration. The Carousel USA Technician will register the software on the day of installation provided the photography computer is set up and available. If the computer is not available, follow the instructions below.

Contact Iconasys for further support on the registration of ShutterStream360 They can be emailed at [support@iconasys.com](mailto:support@iconasys.com). To access your serial number: please enter into the options area in the top right corner of the software (blue gear wheel icon), select View Serial Number –then copy and paste this into an email to [contact@iconasys.com](mailto:contact@iconasys.com).

### 4. First Setup

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#### **Before opening ShutterStream:**

- 1) Have camera connected via USB to computer and also powered on
- 2) Otherwise you will receive an error, “cannot find camera”
- 3) If this happens, you must restart ShutterStream once camera is turned on.
- 4) It’s important to adjust your camera settings so that the Camera doesn’t go into sleep mode during periods of no use. Set the sleep mode settings so that the time is greater than your longest expected pause.



### **See Upper right of Screen: 360 Icon, select it**

- 1) Make sure the Carousel USA turntable is selected.
- 2) Go into CUSA settings menu (DARK Blue Gear icon on right side of screen)
- 3) Type the IP address and click "Refresh".
  - a. *The PLC has an IP address and we need to tell the computer what that is so that they can talk to each other. The steps below summarize the steps, and further information can be found on the CUSA360 User Manual*
  - b. This is when you need to search for the IP address of the PLC. We suggest going to the web and locate the IP SCANNER program, Search for (IP Scan 24) (Advanced IP Scanner). You can just run it, and don't have to save it to your computer.
  - c. Get the range of IP addresses from your IT person, so that the program doesn't have to search forever for all the possibilities. Input that range into the program to save time. For example, our offices has a range from 192.168.6.1 to 192.168.6.248
  - d. All the devices on the network will start listing. You are looking for the Manufacturing name of: "Rockwell Automation". Record the IP value that is associated with that device.
  - e. Insert that IP address back into the Settings Screen in the box labeled IP: \_\_\_\_\_. This value MUST be entered as xxx.xxx.xxx.xxx; meaning (for example)

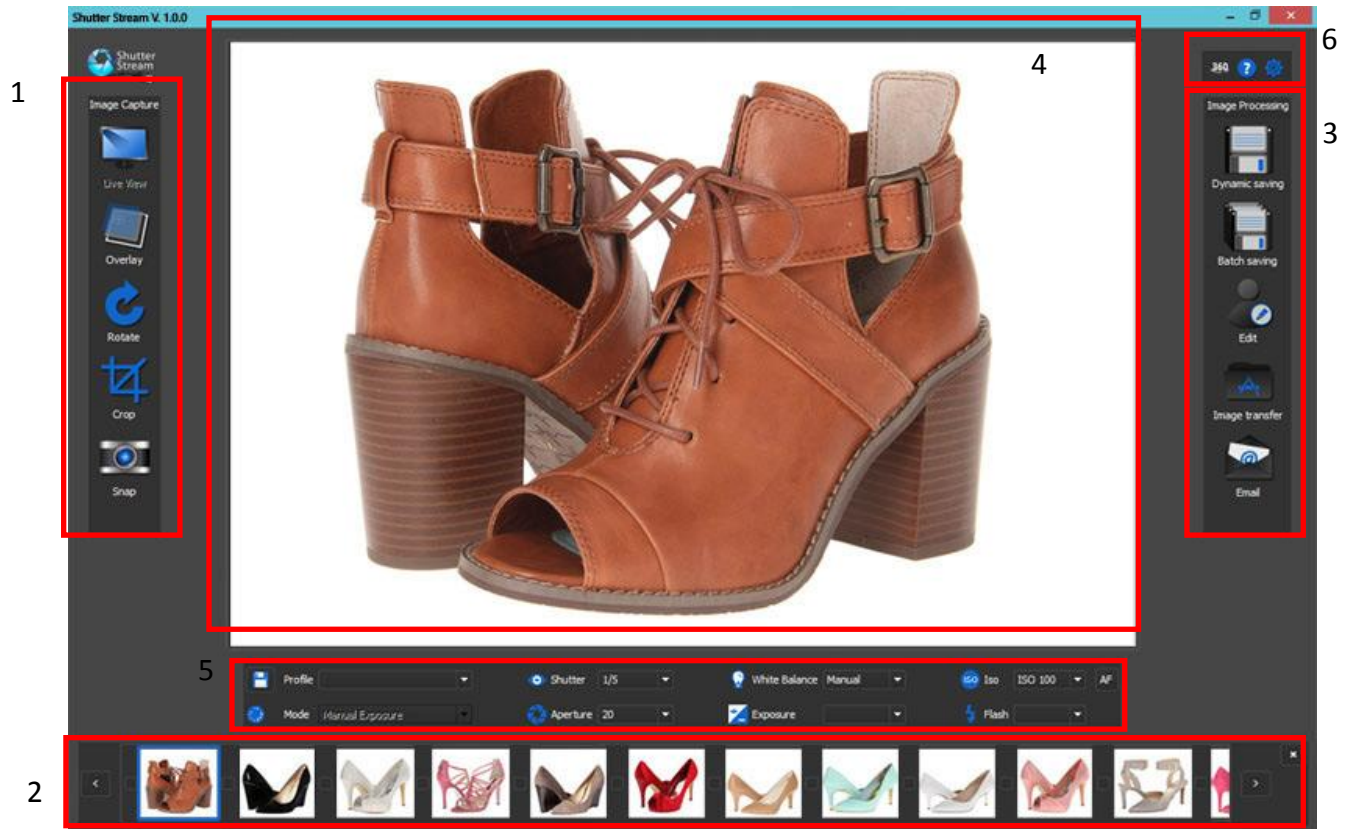
if the correct IP address is 192.168.6.61, this must be entered as 192.168.6\_ \_61 with the two underscores representing a SPACE (using your spacebar on your computer). Then press REFRESH to connect.

- 4) If the IP address is incorrect, you will see a circle with a cross line overlaid on top of the Blue Electric Plug Icon. Once properly connected, the icon will change.
- 5) NOTE: The only way to save these values is as follows:
  - a. Exit the settings screen.
  - b. You are now back at the ShutterStream Screen.
  - c. DO NOT press CLOSE on the lower right hand side of the screen. Doing so will result in your prior work not being saved.
  - d. Click START at lower right hand of screen, this will save your settings.
  - e. The following will occur: A pop-up will then say **ROTATE TURNTABLE; Please start your automated turntable and click the "OK" button when ready to start automating capture.** Press OK. Note: The turntable **will** start, your camera will fire and the settings will be saved.
- 6) Restart the program, and go to settings, and you will see the correct values are now in the program. You will also see that the ADVANCED settings on this screen have now been populated. These values under ADVANCED are brought in via the connection to the PLC. Only under rare circumstances will these values ever have to be manually changed or altered.

## 5. Shutter Stream 360 Overview

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- Image Capture Tools
- Image Viewing Gallery
- Image Processing Tools
- Live View / Image Viewing Window
- Camera Setting Taskbar
- 360, Help and Options



Additional Training Documents:

Still Imaging Quick Start Guide – <http://iconasys.com/Downloads/Shutter-Stream-Quick-Start-Guide.pdf>

**Video** - Image Capture Tools Overview –

<https://www.youtube.com/watch?v=pul6tAOyfPk>

**Video** - Image Editing/Processing Tools Overview –

<https://www.youtube.com/watch?v=vgBkBzUbcXQ>

## 6. 360 Product Photography Workflow

### A. Place an object in cameras field of view and click the 'Live View' button



Live view icon (top left corner of software)

*'Live View' will stream the cameras live view to the monitor screen in real time so users can view the subject they wish to shoot before actually capturing the image.*

[Feature Video](#)

### B. Manually zoom in/out camera if required (by twisting lens left/right).

### C. Adjust Camera Settings to Optimize for Lighting:

Users have the ability to adjust camera settings through mouse clicks in the 'Camera Settings Taskbar'. Simply **left click** the drop down to select a new value or setting.



Suggested settings for beginners:

**ISO:** 100

**White Balance:** Auto

**Aperture:** 14

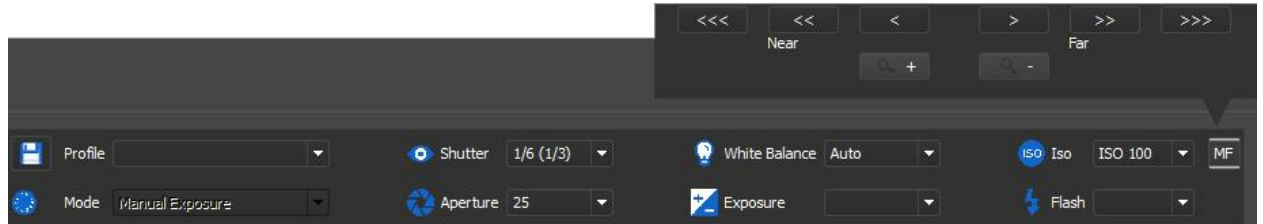
**Shutter:** Start at 1/15<sup>th</sup> - and change accordingly – this will be your one variable setting that you will be responsible for changing. The Live View Window will simulate the exposure of the image in real time as settings are made so adjust until the product in the Live View Window looks color accurate. 'Shutter Speed' is the length of time a camera's shutter is open (defined in seconds) when capturing an image. The slower the Shutter Speed, the brighter the resulting image. For ex. a Shutter Speed of 1/15 (that is 1/5<sup>th</sup> of a second) is slower than 1/30 – therefore the resulting image at 1/15 would be brighter than an image shot at 1/30.

### D. Adjust and Set Focal Point:

Shooting a 360 using Auto Focus will cause the camera to readjust the focal point at every frame. This can cause some strange effects when users compose and view the 360 output. It is suggested to Adjust the focal point manually through the software –



and after this has been set – it will be fixed so every shot in the 360 imaging sequence will have the exact same focal point. To do so, users simply click the AF button in the top right corner of the Camera Settings Window. This will toggle the program into ‘Manual Focus mode’ where users can adjust focal point through mouse clicks by clicking the near and far arrows. To view 1:1 on the view finder – to see up close when adjusting focal point, click the ‘Magnifier Glass +’ icon. After Focal Point has been set, be sure to revert the Live View back to full screen viewing by clicking the ‘Magnifier Glass –’ icon.

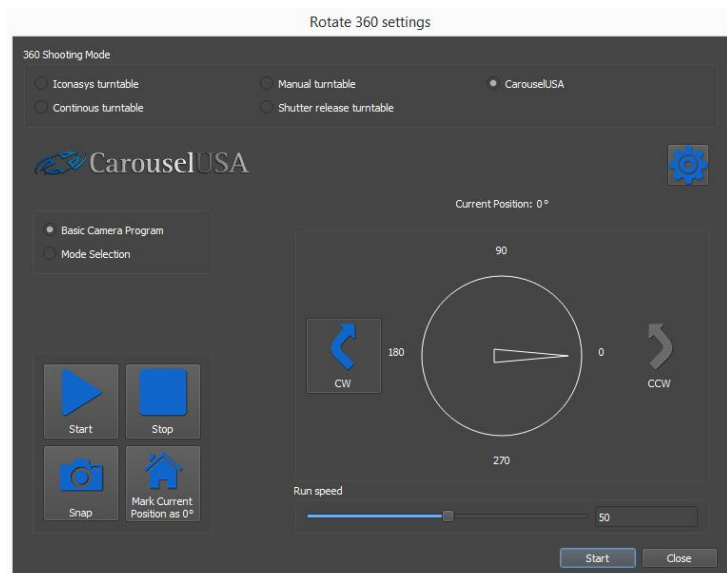


#### **E. Enter into the 360 Shooting Workflow**



**360 View Icon** (in the top right corner of the UI)

Please select the  
CarouselUSA  
Turntable Option  
for 360 shooting:



### F. *Preview Rotation:*

During this step, users will want to ensure object is positioned in the center of the turntable device. Rotate the turntable using the CW/CCW switch, CUSA360, or the Carousel USA 360 rotate option. Operate the table while watching the Live View window on the monitor to ensure the object is spinning on axis in the center of the turntable. If require, adjust object accordingly to the center of the platform.

### G. *Pre-Crop Object*

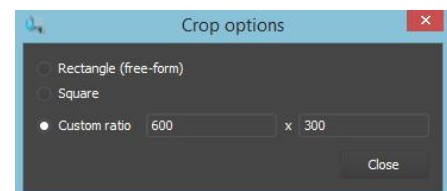


Pre-Crop Icon (2<sup>nd</sup> button from bottom on left hand side):

Enable the Crop by **left clicking** on the 'Crop' button then simply **click and drag** the mouse cursor over the subject in the 'Live View Window'. [Feature Video](#)

While cropping the object, users will want to continue to rotate the object to ensure it does not fall outside of the cropped area as it rotates.

To define Crop in a 'square' or 'custom ratio' simply click the Crop Options in the Options drop down in the top right of the UI and select Crop option accordingly. If defining crop in a custom ration, please define this ratio (width by height). This will have to be done before entering the 360 Image Shooting Mode.



### H. *Image Capture*

Its now time to start shooting, once you have setup all of the necessary options for the camera mode of operation within the CarouselUSA plugin, simply press the Start button at the bottom right of the screen.

### I. *Selecting Image's for Editing/Processing*



**Viewing an Image:** Simply click on the thumbnail to view the image in the 'Image Viewing Window'.

**Selecting an Image(s):** Simply **left click** the small box to the left of the image. Once selected it will be noted by an '✓' in the box. To **select all images** in the thumbnail gallery, click the check box in the bottom right corner of the Thumbnail Gallery Window. It is suggested to select all images captured over the 360 rotation.

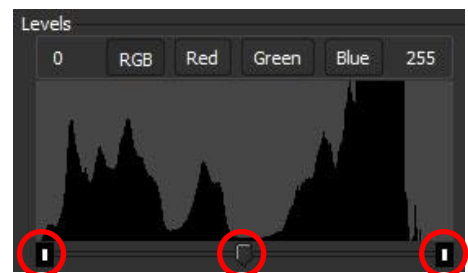
## J. *Editing*



Editing Icon (Third button down under Image Processing Tools)

### [Feature Video](#)

**Levels:** The graphic with the mountain looking shapes is called the Histogram - this describes the color values in the selected image. The left side is the very dark (black) colors in the image, on the right the very bright (white) colors in the image. The higher the mountain – the more a specific color is in the image. To adjust levels value, users will see three 'reference points' immediately below the histogram that are adjustable by **clicking and dragging**. Provided you have sufficient lighting, you will want to drag the right reference point to the left – this will turn all colors to the right of the repositioned reference point white.



'reference points' highlighted by blue circles

After adjustments have been made to a single image, users can select the 'Apply to All' button to apply the editing changes to the entire set of image.

## K. Output and Resize



Output Icon (2<sup>nd</sup> button in from the left in top left of Editing Window)

### [Feature Video](#)

Multiple product images can be saved with one click to a specific directory (local or network). Included in the 'Batch Save' feature is batch image resizing, resolution adjustment (web or print) renaming and watermarking.

**Name:** The field which the user will enter the desired image name. It is important to put a '-' or '\_' after the name.

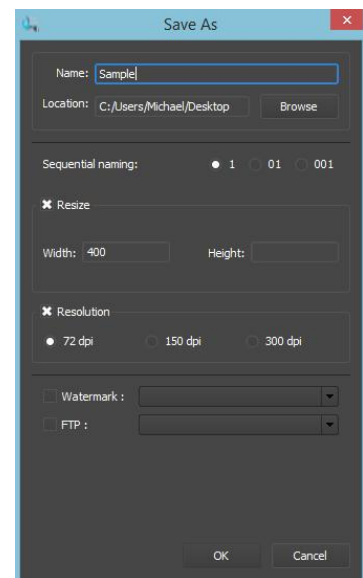
**Location:** This will be the Save To Directory. Users can change this by **clicking** the 'Browse' button to the right and locating/selecting the desired output folder.

**Sequential Naming:** Multiple images will be named sequentially in a numerical format. Users can define their numerical preference - 1, 01 or 001. Please **be sure** to use sequential naming in '01' format.

**Resize:** To enable resizing, **click** the 'x' box to the left of Resize text then specify a pixel width or height.

**Resolution:** To enable resolution, **click** the 'x' box to the left of Resolution text then specify a DPI.

Users can also chose to auto apply a previously saved **Editing** Profile and/or transfer images to their **FTP** site and/or add a previously saved **Watermark** by **clicking** the 'x' box and selecting



a profile option in the drop down. [Feature Video](#)

Users can also use the Dynamic Saving tool to save an image or set of images at multiple different size, resolutions, formats etc...

***L. (Optional) - Removing Images from the program***

After images have been exported to a local or network folder, they can be deleted from the program. To do so, select the images you wish to remove by clicking check box to the left of the thumbnail then click the 'X' box in the top right of the thumbnail viewing gallery window.

***M. Return to the first step to capture next set of images***

Note, the [Image Overlay Feature](#) can help with object positioning in the center of the turntable and to ensure an object is placed at the exact same angle for the first shot.

Shutter Stream includes many advanced features above and beyond the 'standard workflow features'. To find out more about these and how they will fit your specific requirements, please give us a call at +1 (949) 945-0779 or email us at [support@iconasys.com](mailto:support@iconasys.com)