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## Part 1. Software Operation

The software consists of three parts:

- Camera Display Area
- Resources
- Toolbar

### 1.1 Camera Display Area

Default Document Camera 1) display area that shows images and videos.2) editing area where annotation can be freely made such as text, lines and geometrical figures.

### 1.2 Resources

Display the software default resources, as well as the recent captured images and videos on the left of the screen. There are two options:



- Local Resources
- Recent Captured Resources

Click the button  to show and hide local and recent captured resource.

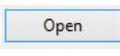
Click the button  to switch between local resources and recent captured resources.

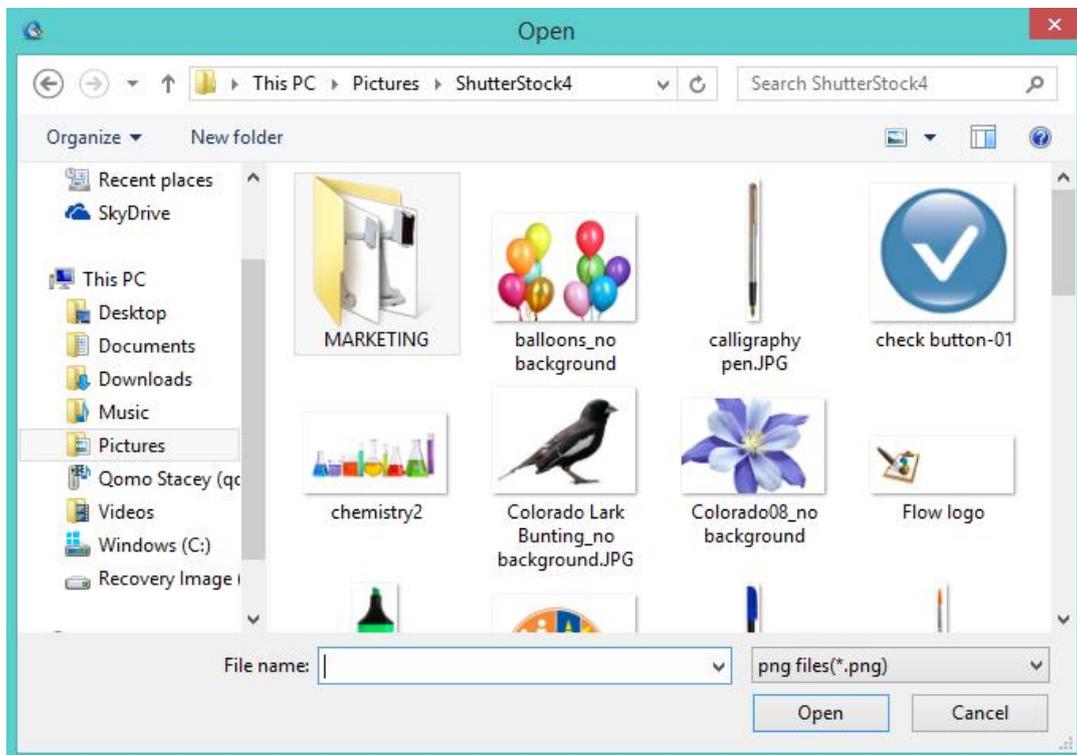
## QCamera USER MANUAL

**Local Resources** have a variety of categories including arrows, emoticons math symbols, etc. Double click the category folder to enter the thumbnail gallery of the resources. There are three ways to insert the resource on camera display area.

- Double click on the resource
- Right click the selected resource, and select  **Insert into page** from the option menu.
- Drag and drop the selected resource onto the camera display area.

*Note: Resource size can be changed in the System Setting.*

Under the Local Resources, Click the  button, a window will pop up for you to choose the resource and file format from the computer. Select the desired resource and click the  button, it will be added onto the camera display area.



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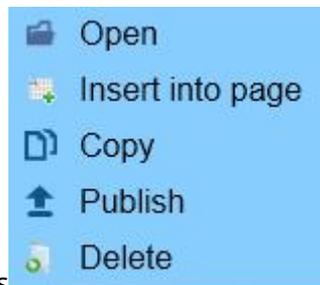
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The QCamera software supports the following files formats:

- Image: PNG, BMP, GIF, PNG, JPEG
- Audio: WAV, MP3, WMA
- Video: MP4, RMVB, AVI, MOV
- Flash: SWF

**Recent Captured** lists the thumbnails of images, audio files and videos captured by the QCamera software.

Right click on the thumbnails of the recently captured resource to get the



following options :

- Open: Open the resource directory that is stored in the local computer.
- Insert into page: Click to insert the resource onto the display area.
- Copy: Resource can be pasted into Microsoft Office programs, like powerpoint, Word.
- Publish: Upload captured resource onto the Facebook website.
- Delete: Delete the recent captures resource.

*Note: if the captured resources were used in the drawing board, it cannot be deleted directly. You need to go to the resource save local directory.*

After you drag the resource onto the drawing board, you can select it, and there will be an Editing Box displayed. Here, you can manipulate the resource object as below:

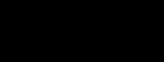
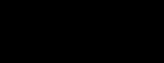
- Drag the right side of the resource to zoom the length.
- Drag the bottom side of the resource to zoom the height.
- Drag the button  on the right bottom side to zoom
- Hold the button  to rotate the resource.
- Move the button  to change the resource location.
- Click the button  to delete the resource.

Note: these functions except the Delete also can be applied on the objects created by Figure function.

### 1.3 Toolbar

The toolbar enables users to select and use a variety of functions:



Icon	Menu		Description
	Help		Software update and version information
	Setting		Including system setting and camera setting
	Exit		Exit current application.
	Camera		Choose camera resolution 800*600 /1024*768 / 1920*1080 / 2048*1536 /1944*2592
	Region Capture		Capture part of screen.
	Webcam Capture		Capture live image.

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	<b>TimeShot</b>		Capture image in fixed time.
	<b>Screen Recorder</b>		Take video and record.
	<b>Undo</b>		Undo the previous process on the drawing board.
	<b>Redo</b>		Redo the last process on the drawing board.
	<b>Select</b>		Select objects on the drawing board, adjust the location and size.
	<b>Play Mode</b>		Move the selected object in the Play Mode.
	<b>Pen</b>		Click the button to set the pen color and thickness, then use the Pen tool to draw.
	<b>Highlighter</b>		Click the button to set the color and thickness, then use the Highlighter tool.
	<b>Figure</b>		Click the button to select a figure and set the thickness, then draw figure on the drawing board.
	<b>Pixel erase</b>		Clear part of the selected object, only for object drawn by pen and highlighter.
	<b>Object erase</b>		Clear selected object.
	<b>Clear</b>		Clear all contents on display area.
<b>T</b>	<b>Text</b>		Input text on the board.
	<b>Time Stamp</b>		Display time on the screen
	<b>Zoom In</b>		Set live image to zoom in
	<b>Restore</b>		Return live image to normal size
	<b>Zoom Out</b>		Set live image to zoom out

# QCamera USER MANUAL

	<b>Freeze</b>		Freeze live image/Unfreeze live image
	<b>Brightness</b>		Adjust brightness of live image
	<b>Contrast</b>		 Set contrast of live image.  Part of properties can be changed in the settings of option menu
	<b>Focus</b>		 Default set as autofocus  Changed to manual mode and modify the focus value by pulling the secondary scrolling
	<b>Title</b>		Separate the screen in two horizontal parts during display
	<b>Split</b>		Split the screen in two vertical parts during display
	<b>Rotate</b>		Rotate image by 0°/90°/180°/270°
	<b>Hide</b>		Hide/show annotations & objects on the board.

Note:

1. These buttons  with Webcam Capture and Video Recorder are not available when camera is not connected.

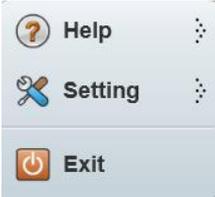
2. When you choose freeze , these buttons  will not be available.

## 1.3.1 Functions description

### 1.3.1.1 QCamera

You can check the user manual, version information and version update through using the menu. Also change the system setting and camera setting when it is needed.

## QCamera USER MANUAL

Click the button  to open the option menu 

■ **Help:** click the **Help** button, three options show



- ✧ **Help:** Click to link the User Manual
- ✧ **Update:** Update the software.
- ✧ **About:** Display the QCamera version information.

■ **Setting:** Click setting menu , it comes with option menu

including **System Setting** and **Camera Setting**

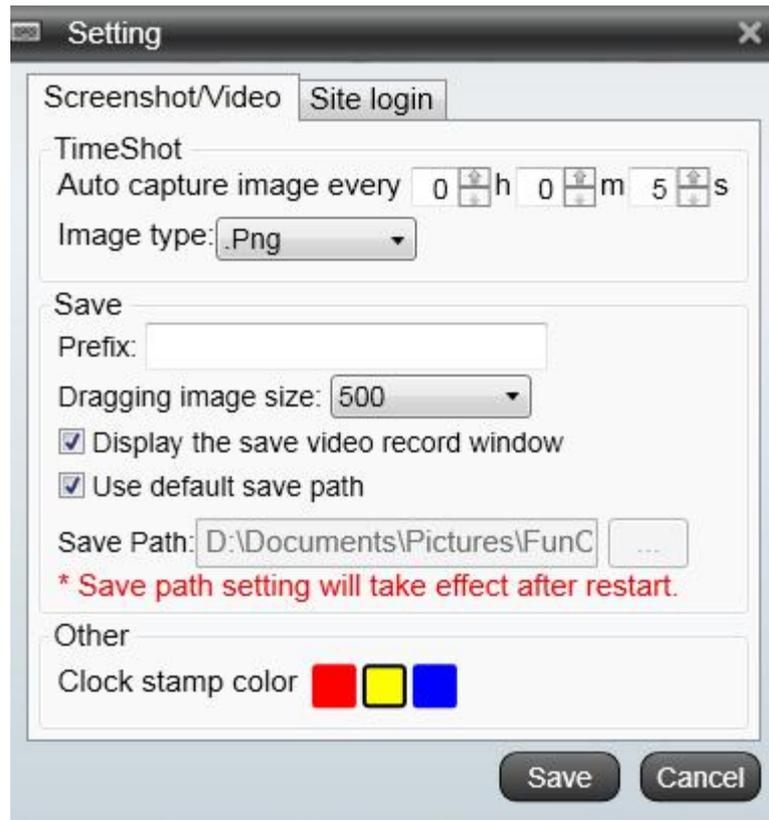


### ● System Setting

Under the System Setting window, two tabs will display: Screenshot/Video and Site login

- ✧ Under the **Screenshot/Video** tab, following settings can be realized:
  - Set the image auto capture time, image type in the TimeShot list
  - Add the prefix for the TimeShot image.
  - Customize resource size that will be used in the drawing board by select the size choice in the drop-down list
  - Set default save path of captured images and videos
  - Set the Clock Stamp color as red, yellow or blue.

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- ✧ Under the **Site login** tab, you can connect to resource-sharing or social network sites to share the screenshots and videos.

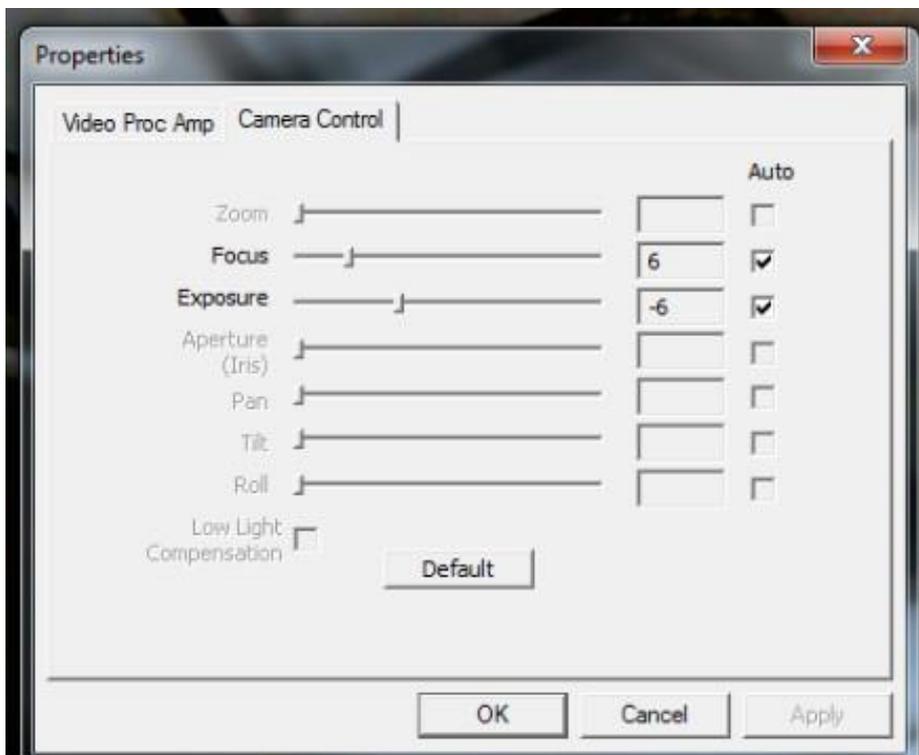
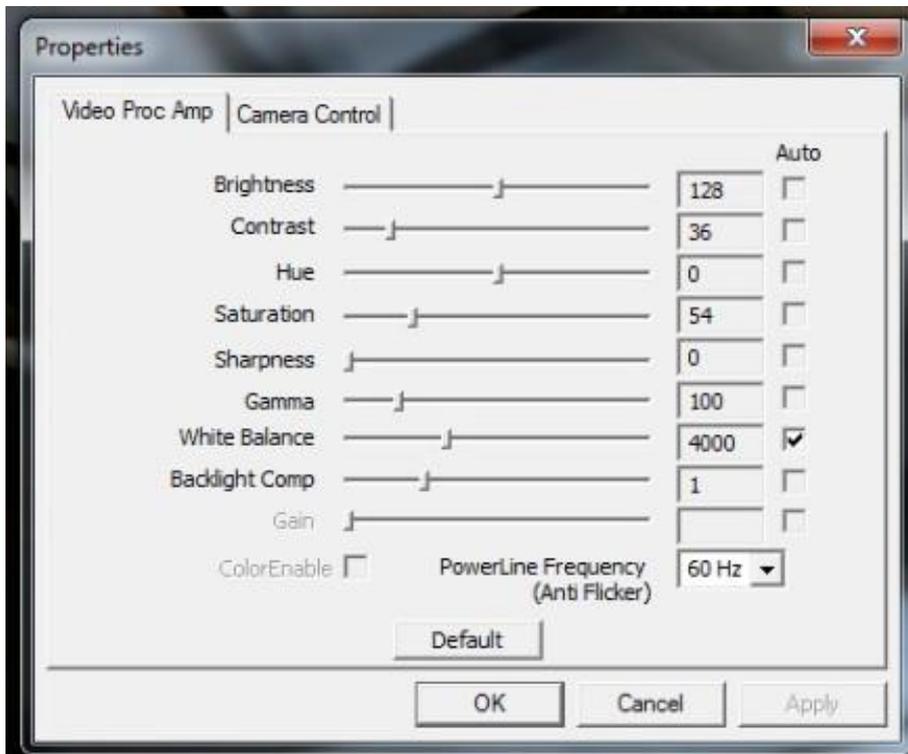


- **Exit:** Exit the software.

- Camera Setting

Click the **Camera Setting** menu, a window will pop out for adjusting the camera properties as Contrast, Brightness, Focus, etc.

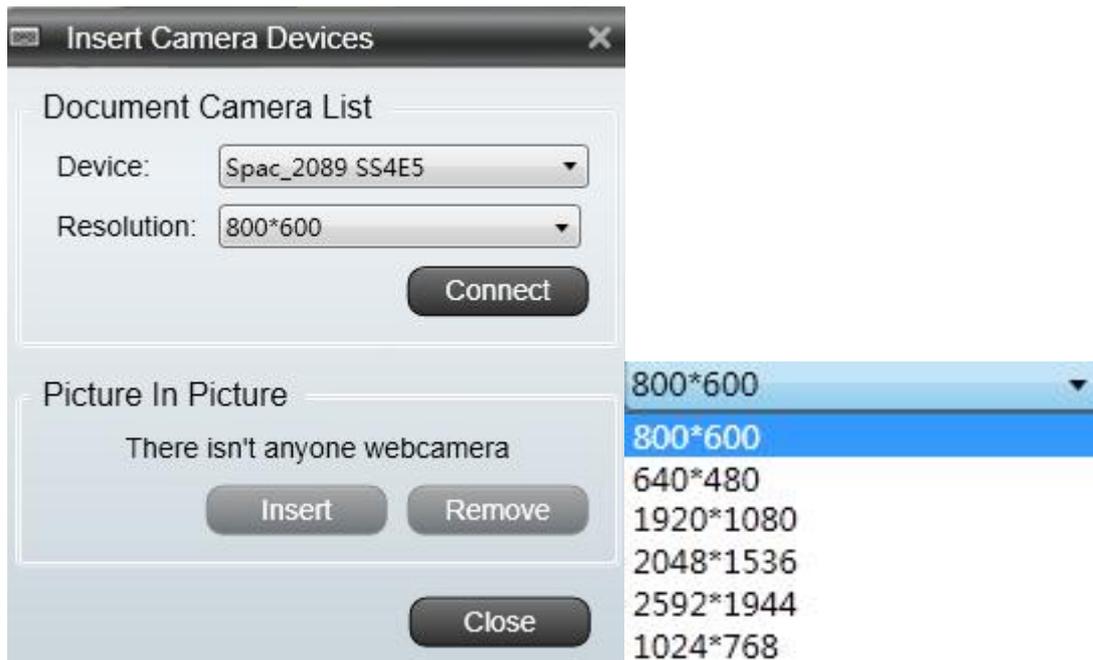
# QCamera USER MANUAL



### 1.3.1.2 Camera

Camera function allows you to connect the camera for live image, change the resolution as desired, and also connect local available video equipment.

Click the Camera button  , a window will pop out to choose the camera resolution



Select the Device “Spac\_2089 SS4E5 (for QOMO QPC35)” or other connected camera device, and select the resolution from the drop-down list (the resolutions displayed here is depend on the camera you are using)

Note:

1. If using the QOMO QPC35 product, software will automatically show the live image after it is started. If using other Document Camera devices, user needs to connect the camera as above operation.
2. Software can record the last resolution you use.

If there is local camera device (webcam) connected with computer, click the

insert button **Insert** from pop-out window, the camera live image will be shown on the Display Area with a small window.



### 1.3.1.3 Capture and Record

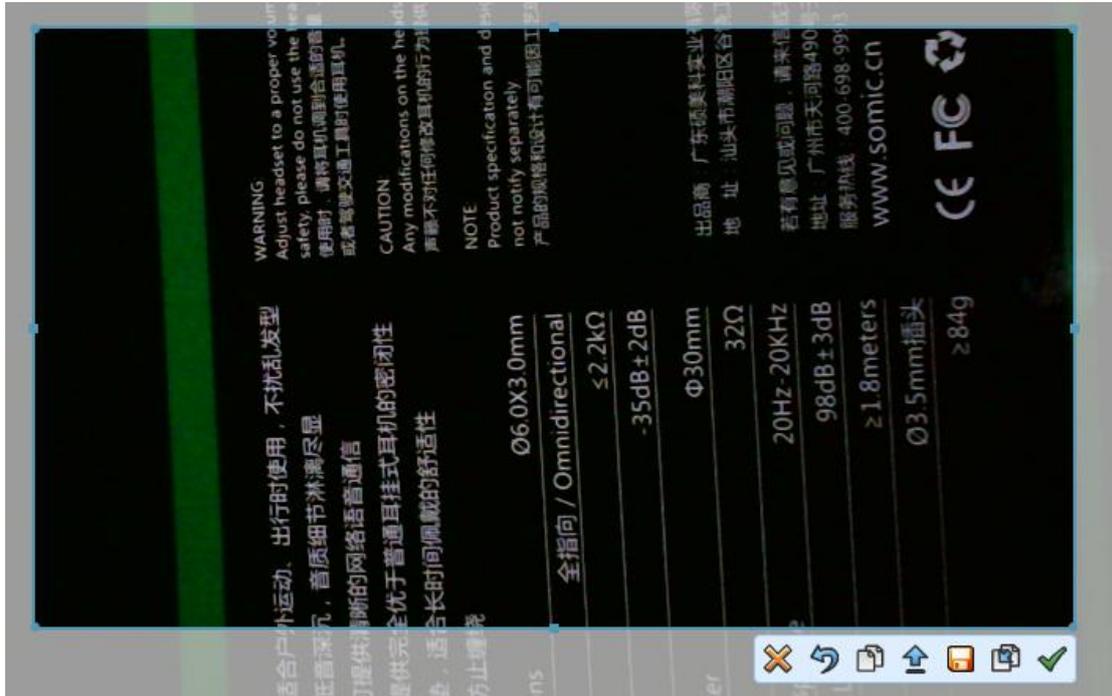
Under this menu, you can realize Region Capture, Webcam Capture, Time Shot and Video Recorder functions.

#### 1. Region capture :

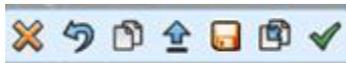
Region capture allows you to select the desired captured area from the software interface.

Click the **Region Capture** menu option. A half-transparent screen will be covered

on the interface. Customize the captured area by holding the 8 small solid square shapes.



At the right bottom of the capture screen shows menus for different functions.



 : Exit the **Region capture**

 : Cancel **Region capture**, but the half-transparent screen will be remain on the board

 : Choose the clipboard button, the window will be minimized. The captured image can be pasted to Microsoft Office programs.

 : Click the Publish button, and a window will pop up. The captured image can be uploaded into Facebook. You can add a description before publishing.



 : Save the captured image into designated local directory.

 : Duplicate the captured image on the drawing board.

 : Click to save the image to the recent captured list.

### 2. Webcam Capture :

Webcam Capture enables you to capture the whole live image.

Click the button  simply to auto capture live image and the image will be automatically saved in the Recent Capture list.

*Note: Webcam Capture will show and only be used when the camera is connected to the USB.*

### 3. Time Shot ;

Automatically take screenshots in a fixed time lapse.

Click the  button, a window will pop up; you can change the new folder name (default as captured date) and click the  button. The default is set to take a picture every five seconds. The images will be saved in the new folder under Recent Captured.



Note: TimeShot time, image save format, save path, and image size can be revised in the System Setting window

#### 4. Video Recorder

Video Recorder offers you the function to record the live image in desired time.



Click the button. A small window will pop up at the right bottom corner to show your recording time. When you close the timer window, you will be prompted to save your video.



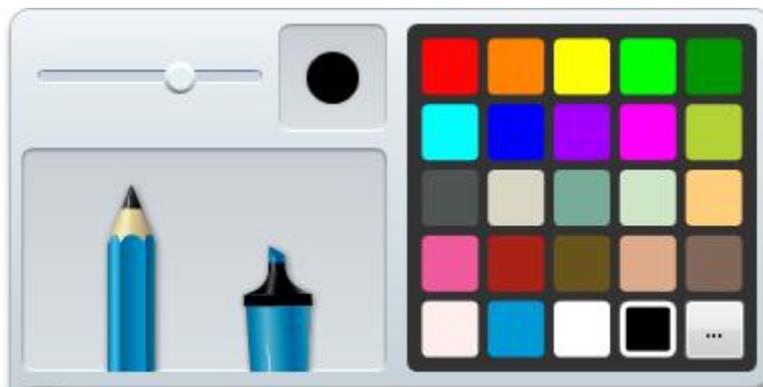
- Save: Save the video in the specified path.
- Save and Open: Save the video and open it for preview.
- Cancel: Cancel the recording.

Note:

1. Video Reorder function will show and be used only when the camera is connected to the USB.
2. The Video Recorder pop-out saving window can be hidden /showed by ticking the item  Display the save video record window in the System Setting Window.

### 1.3.1.4 Pen

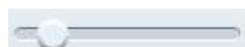
Pen function provides writing tools. Users can create the freehand object by using the pen tools



: Pen can let you write or draw digital ink in a variety of colors and line styles (default as black).



: Highlight text and other objects (default as yellow).



: Move the  button on the slider to modify the pen thickness.

To write with a pen:

- 1) Click the **Pen** 
- 2) Choose the pen style

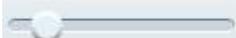
- 3) Choose then desired pen color
- 4) Set the pen thickness.
- 5) Write or draw digital ink on the drawing board.

### 1.3.1.5 Figure

In addition to creating freehand shapes and lines by drawing digital ink, user can create shapes and lines using figure tool.



						
Line	Square	Triangle	Circle	Pentagon	Hexagon	Star

 : Move the  button on the slider to modify the pen thickness.

To draw a shape:

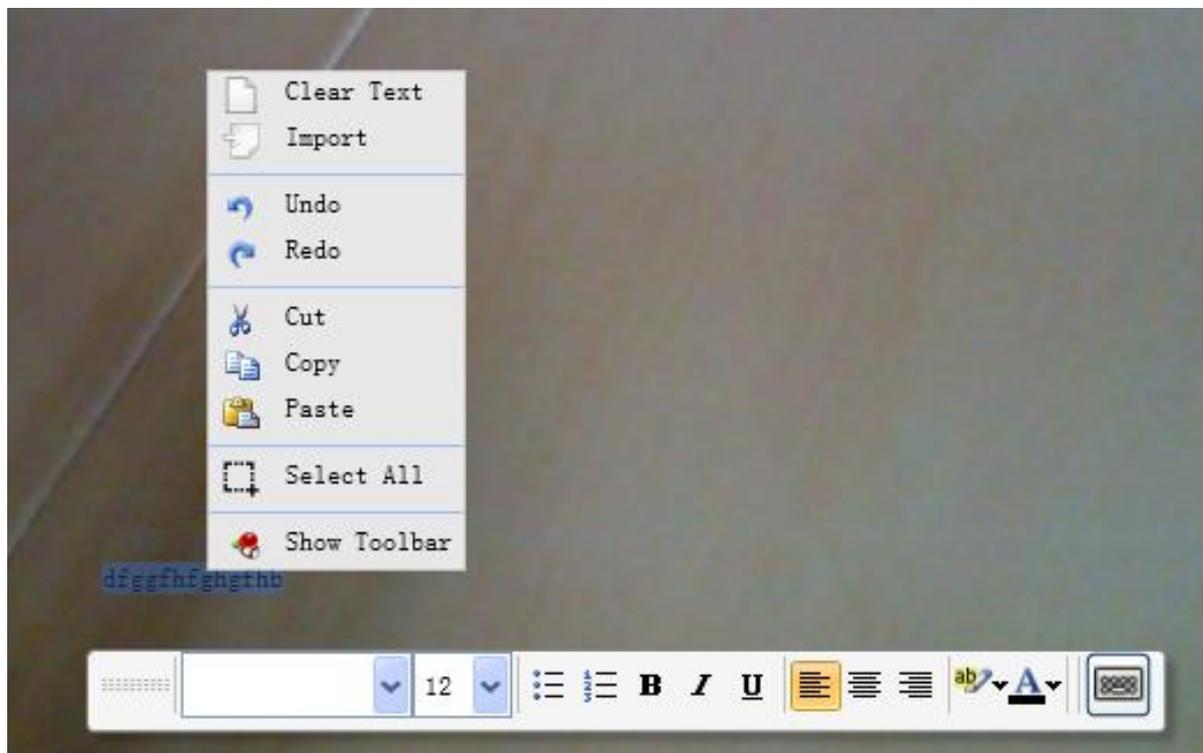
- 1) Press **Shape**  .
- 2) Choose the shape you desired.
- 3) Select the desired color (default as black color).
- 4) Set the thickness by pulling the Scroll Bar.
- 5) Draw shape on the drawing board.

### 1.3.1.6 Text

You can input text through the Text button function and change its properties. Pop-out option menu by right click also serve some favorite operations.

Click the button **T** first, and then click anyplace you want to input text. The text toolbar will display under the box.

Select the input text and an option menu will display



- Clear Text: Clear the text in the text box.
- Import: Import a file of \*.rft or \*.txt.
- Cancel tools: Redo, Undo.
- Editing tools: Cut, Copy and Paste.
- Select All: Select all content in the text box.
- Hide toolbars: show and hide.

## Part 2. Troubleshooting

Tips for using the Document Camera:

### 1. No image

- ✧ Cause: Poor connection
- ✧ Solution: Check if the white USB power **Cable** is connected and the light on **Camera Head** shows red

### 2. Poor focus

- ✧ Cause: 1). Not enough light or too much light  
2). Object beyond focus  
3).Unclean camera glass
- ✧ Solution: 1). Turn on/off Lamp Light and rotate **Lamp Button** to adjust brightness 2). Use cloth to clean the Camera glass

### 3. No video shown after application starts or after the device is selected

- ✧ Cause: Document Camera is being used in another program
- ✧ Solution: Re-connect the USB and choose the device

### 4. Application can't be started by pressing the button (using QPC35)

- ✧ Cause: No QomoDeviceMonitorSrv.exe In task manage
- ✧ Solution: Add QomoDeviceMonitorSrv.exe in installation directory

### 5. Blur image

- ✧ Cause: Focus is in manual mode
- ✧ Solution: Change to auto mode in the **Focus** Menu

### 6. Video is not smooth

- ✧ Cause: Computer configuration might be low
- ✧ Solution: Change the Camera to lower definition

### 7. Glitter on the camera display area

- ✧ Solution: Change the frequency (50HZ/60HZ) in the Camera Setting window