【 HSPS V6.0.6】

SOFTWARE INSTRUCTIONS

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HSPS software can efficiently capture documents and scan documents to improve office efficiency. The software mainly has the following features:
★ Supports 1 second speed scanning and automatic correction of documents
★ Support a variety of image optimization algorithms (documents remove background, the second generation card shading, remove express bill background .
★ Support video recording in multiple formats (mp4, flv, wmv, avi, etc.)
★ Support professional OCR text recognition and layout
★ Supports two-dimensional code & barcode recognition function and files save.
★ Support smart detection and shooting with accurate and efficient
★ Support document management function, support image preview and quick editing
★ Support scan the second generation card and identify user information
★ Support multiple images PDF synthesis, certificate front and back image synthesis
★ Support one button printing

2. HSPS software installation and uninstallation

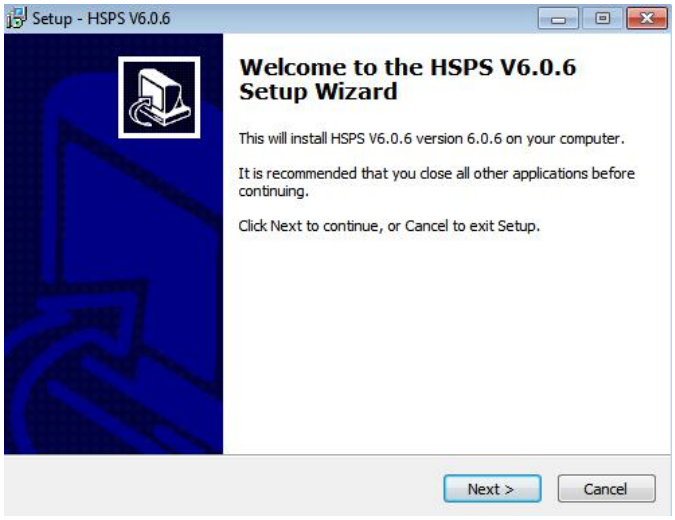
2.1 System configuration

System support: xp/win7/win8/win10.

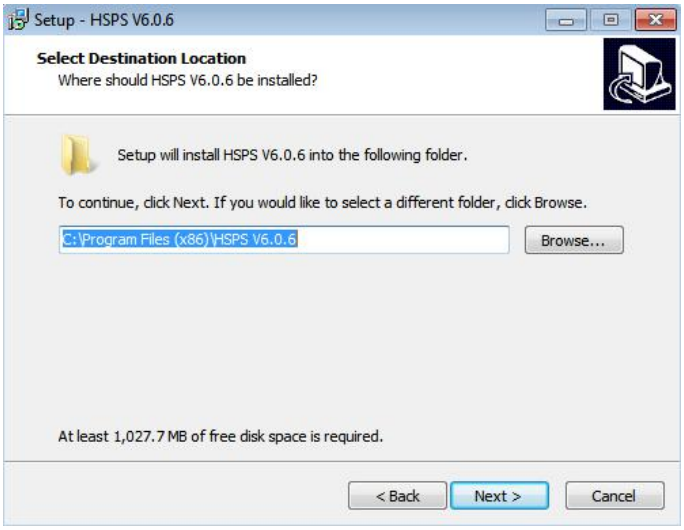
Hardware recommended configuration: i3 and above processor, memory is not less than 2G.

2.2 Software Installation

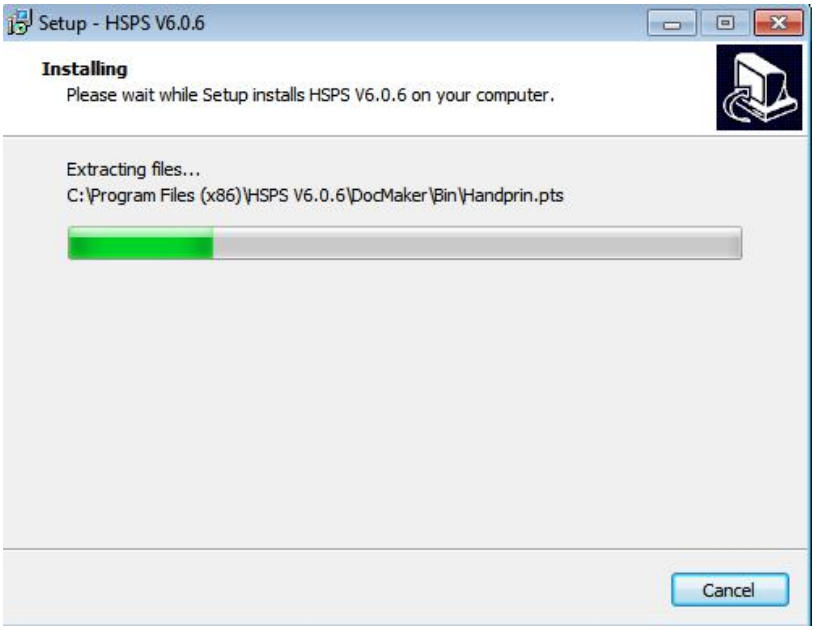
Insert the CD into the CD-ROM drive, double-click "HSPS V6.0.6.exe" on the CD-ROM, enter the installation wizard interface, click "Next" to install.



Click "Browse" button to set a custom installation path. If you do not need to set the installation to another path, click "Next" to the default path.



Continue to "Next" and install:

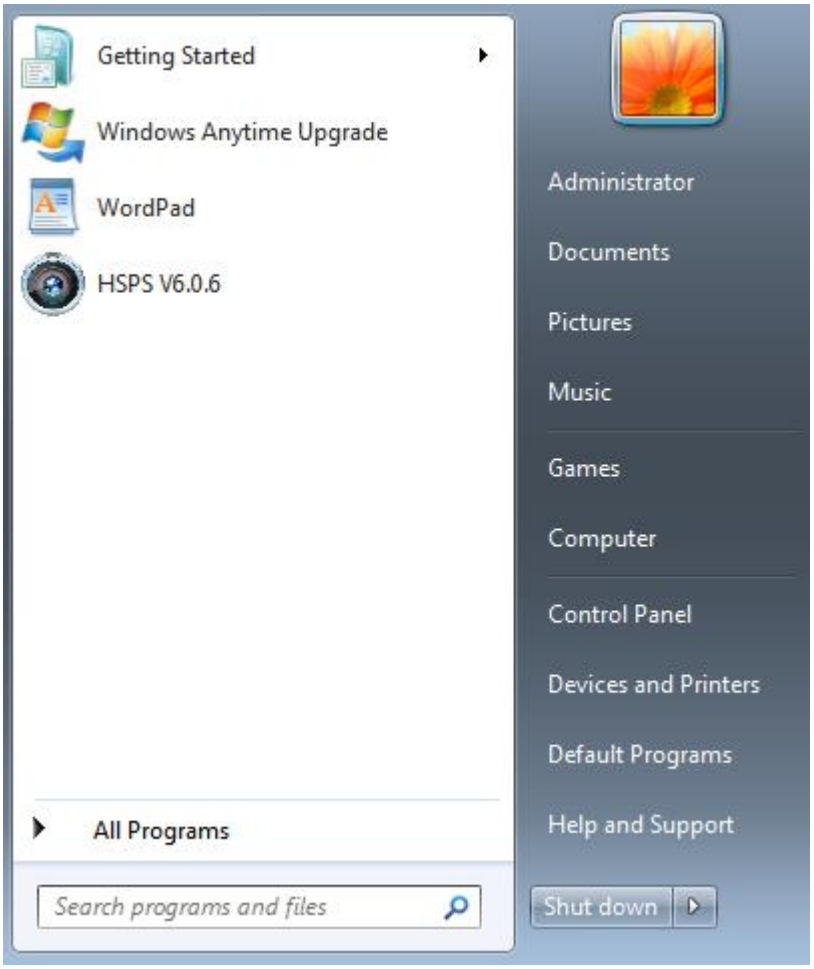


Click "Finish" and installation is complete:



2.3 Software Uninstallation

Go to the Windows Start menu, select All Programs, then select the folder "HSPS Software V6.0.6", select the "Uninstall HSPS Software" menu, uninstall and start, according to the wizard prompts, you can complete the software uninstall.



3. HSPS software usage & function

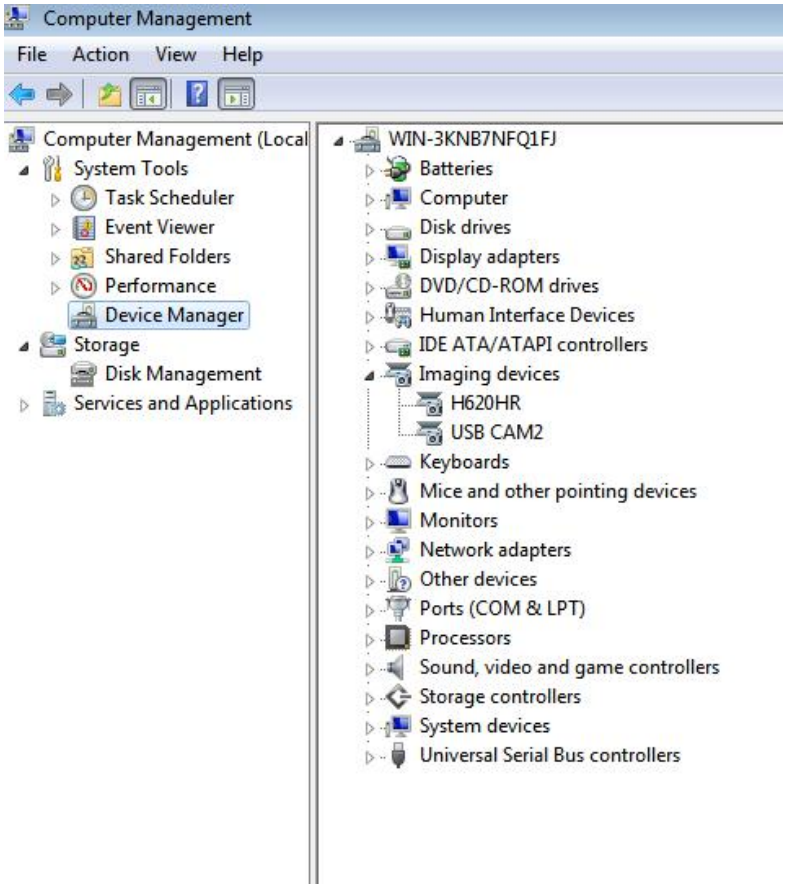
3.1 Scanner Connection

Firstly Confirm if high speed scanner is properly connected to the PC .

1. Connect high speed scanner to PC by using USB cable. When the USB cable is plugged in normally, it will prompt “Installing the device driver”. To verify that the device is connected to a PC, you can confirm that the device is connected (example win7 system) on the device manager of the computer.

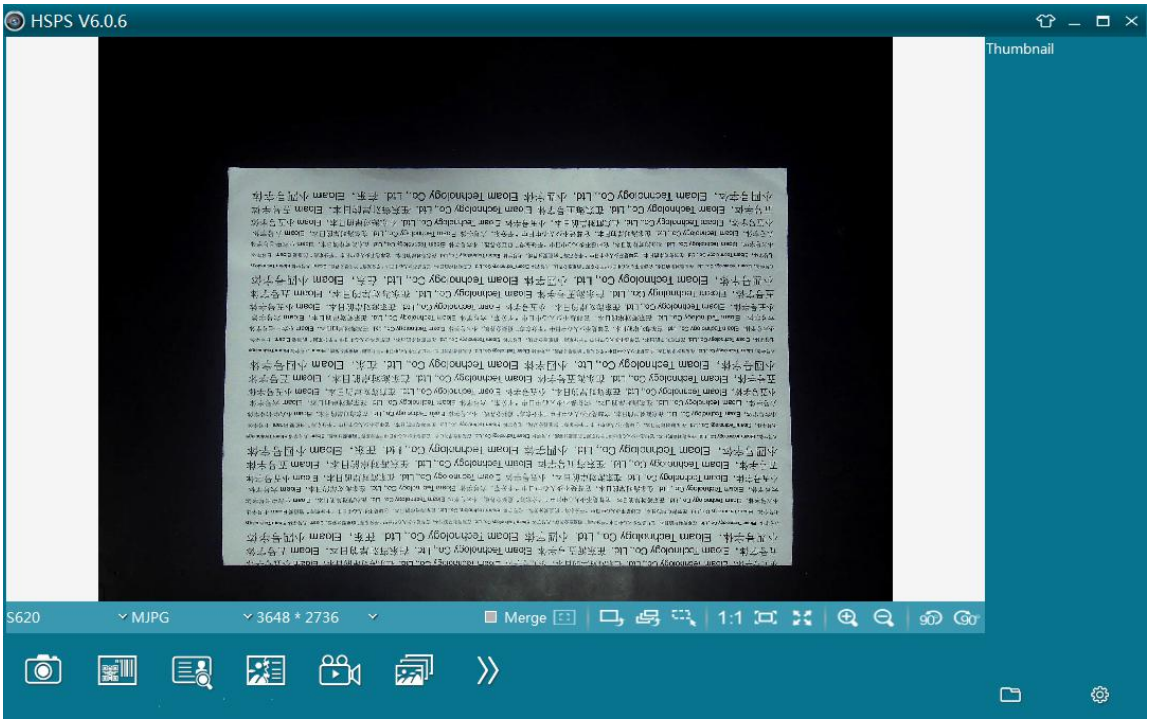
View steps: Computer -> Management - → Device Manager - → Image Device

Under the image device, if the corresponding information of the SCANNER can be found, the scanner device has been connected normally.



3.2 HSPS software main interface and function

The main software interface is as follows:



Function Area:

The software has a total of 11 functions, 8 items can be displayed on the main toolbar. Other functions can view and select by clicking "More" tab. These features are :

1 Scan, 2 Barcode recognition, 3 ID card recognition, 4 Photo synthesis, 5 Video, 6 Continuous shooting, 7 OCR, 8 Professional recognition, 9 ID card reading, 10 Printing, 11 PDF

Video toolbar:

When the mouse enters the video area, the toolbar is automatically displayed, and the toolbar functions are as follows:

(1) Device name: The main lens and the vice lens .
(2) Mode: Video mode switch.
(3) Resolution: Video resolution adjustment.
(4) Vice camera switch: vice screen is displayed in picture-in-picture format in the main lens interface.
(5) Single correction: Document automatic correction.
(6) Multiple corrections: Automatic correction of multiple documents.
(7) Frame selection: manually select the correction area.
(8) 1:1 display: Preview the video at the actual size.
(9) Fit to window: Preview the video to fit the window size.
(10) Full screen display: full screen display.
(11) Zoom in: Zoom in on the video.
(12) Zoom out: Reduce the video.
(13) 90°Counterclockwise: 90 degrees to the left.
(14) 90°Clockwise : Rotate 90 degrees to the right.

Setting

The user can parameterize each function in the software.

Document management

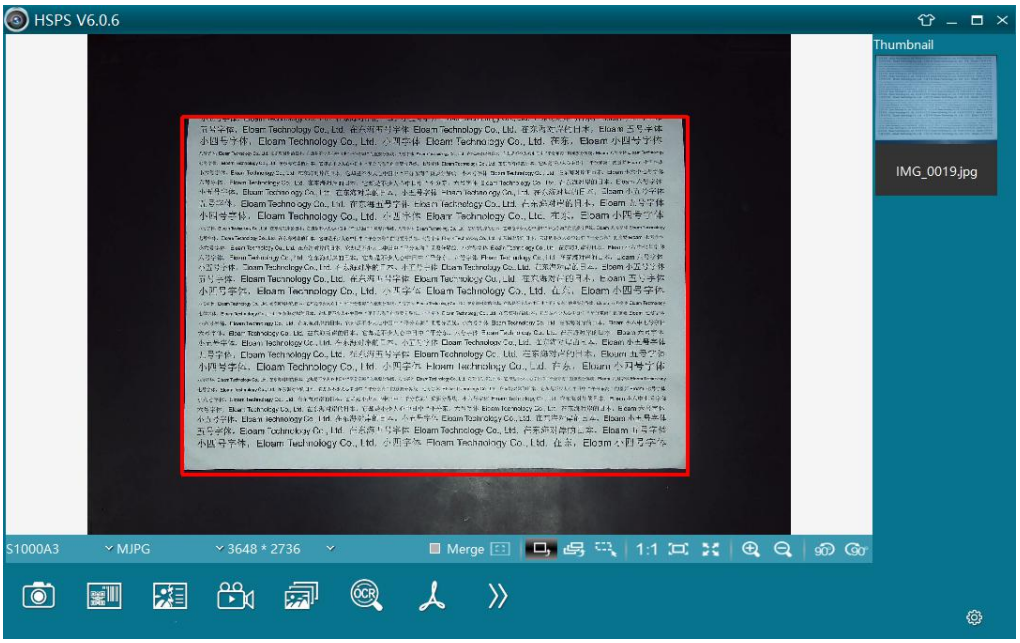
Users can manage photos or video files they have taken, as well as editing and modification

4. HSPS Software setting and functions

4.1 Function details

4.1.1 Capture

Capture function, scan document and certificate, remove background of the document ID card , please refer to“Scan Type” in the “Settings” option. Meanwhile, it can combine with the functions of correction, frame selection and other functions in the adjustment. The figure below shows the effect of correction :

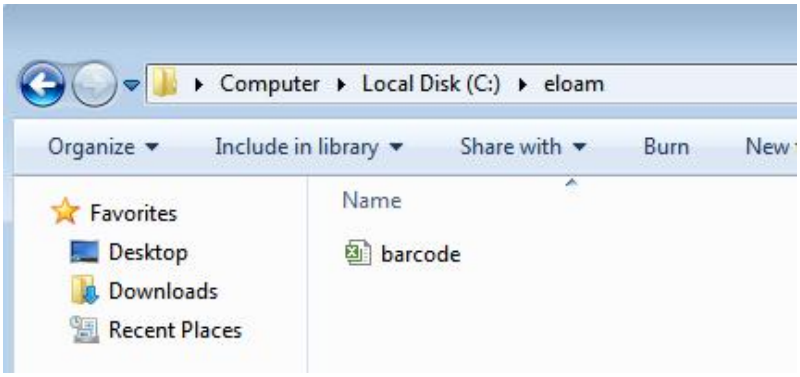


4.1.2 Barcode

The effect of barcode recognition function is the same as "Scan Type" setting in the "Settings" . The recognition and capture images with the barcode and the two-dimensional code, the recognition result will form a dialog form output for the user to copy and use. As shown below:



At the same time, a photo will be taken and saved in a separate storage path for barcode recognition. This path can be set by user. In addition, the result of barcode recognition and the image path will be saved in the same path along with Excel and JPG as shown in the following figure:



The Excel save the results of the barcode recognition and the path where the image is saved:

A	B	C	D	E	F	G
'06090000122000 4992'	C:/Users/Administrator/Documents/Eloam/Ocr/IMG_-01.jpg					
'06090000112000 4992'	C:/Users/Administrator/Documents/Eloam/Ocr/IMG_-01.jpg					

Remarks:

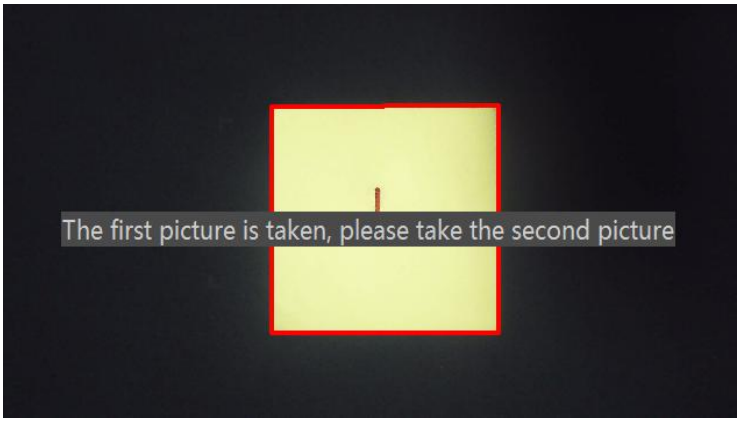
1. Support barcode type: Code 128A, Code 128B, Code 128C, Code 39, EAN-8 commodity barcode, UPC-E, cross 25 code (with border), Code 11 barcode (with verification), Code 128_AUTO, EAN- 13 commodity barcode, EAN128, UPC-A commodity barcode, cross 25 yards.
2. Please make sure the barcode that you want to identify is clearly visible and the paper is flat.

4.1.3 ID card identification（for chinese only）

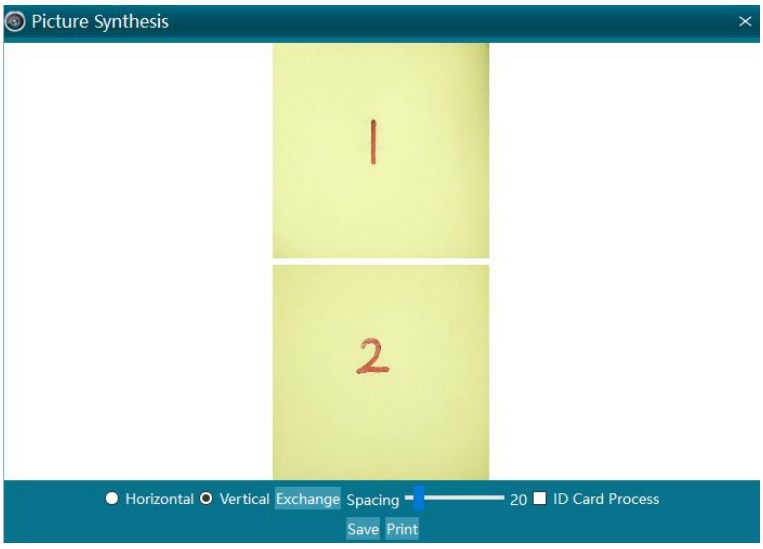
The ID card identification function automatically recognizes the second generation, and outputs the recognition result of the second generation ID card in the form of a dialog box for the user to copy and use, and also takes a photo. It is recommended to select the second generation certificate in the "Scan Type" in the "Settings" item. The following figure shows the recognition result after normal scanning of the second generation ID card:
Users can copy the contents of the dialog directly.

4.1.4 Picture Synthesis function

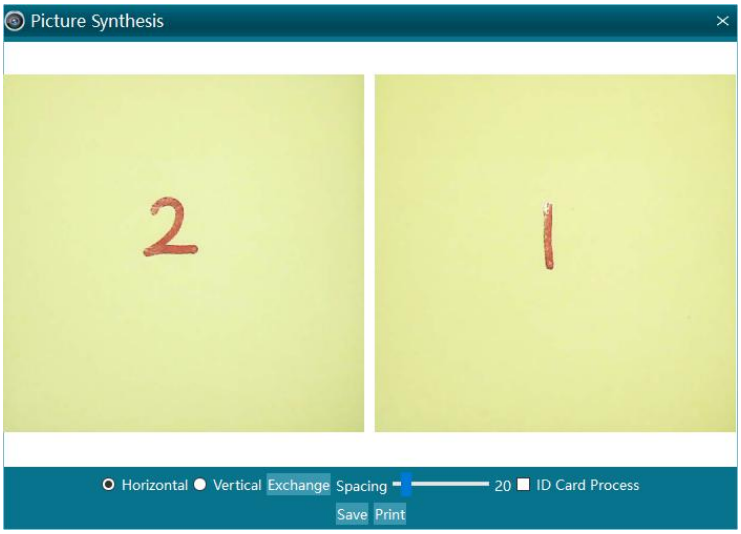
The image synthesizing function is consist of 2 photos as one. e.g. we want to copy an ID card, we need to copy both sides on one paper. You can scan directly according to the specific needs of the scan type: click on the image synthesis button, take the first side:



Turn the other side of the card, click the second image compositing button. After the second scanning is completed, a dialog box appears:



In this dialog, we can adjust the relevant parameters of the photo: adjust the composition in the left and right horizontal direction, the synthesis in the vertical direction, the exchange before and after the photo, the adjustment of the picture spacing, and the background color processing for the second generation ID card. After the adjustment, you can save and print directly. The horizontal adjustment is as shown below:

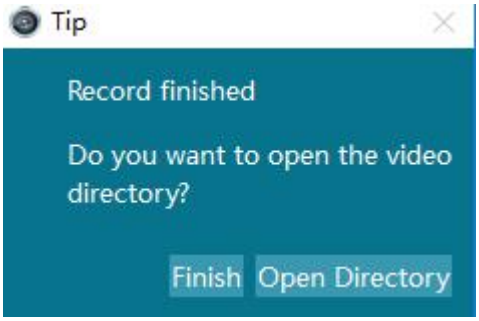


4.1.5 Video Recording function

In order to ensure the quality of the video, video resolution is limited to 1600*1200 and below, the dialog box pops up:



Then confirm the video save path and video name, video compression rate, etc., confirm the correct can click to determine the button direct recording.Then the video button has become "stop recording" means that the video is in progress, need to stop the recording, the direct click to stop the recording, click "Stop Recording" after the popup dialog box:



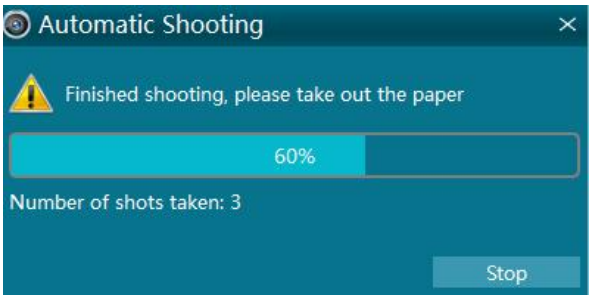
Click Finish or open the directory to view the recorded video file.

4.1.6 Auto scan function

The function of auto scanning is divided into the detection of continuous scanning and timed continuous scanning, this feature needs to be selected in the settings first.

1. Timed continuous scanning

The software will shoot according to the time interval set, click the Burst button, the Prompt box appears:

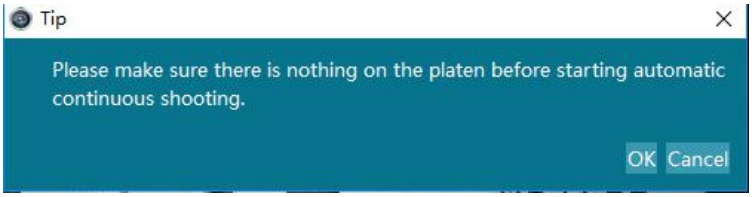


A picture is taken when the progress bar is full.

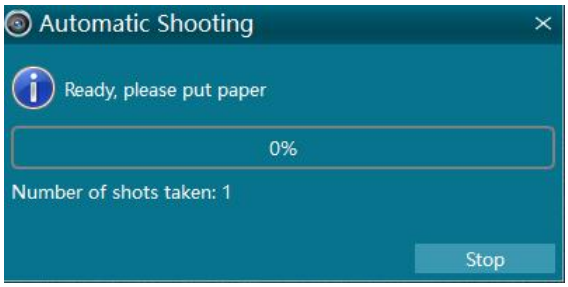
2. Detection of continuous scanning

The software detects changes on the document table to take pictures.

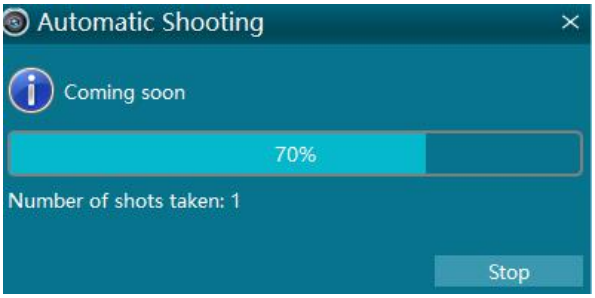
When you click the Burst button, a corresponding prompt box is also available



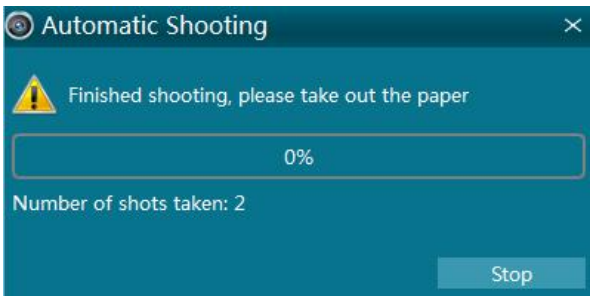
When you click OK, the software is ready and the corresponding prompt box appears:



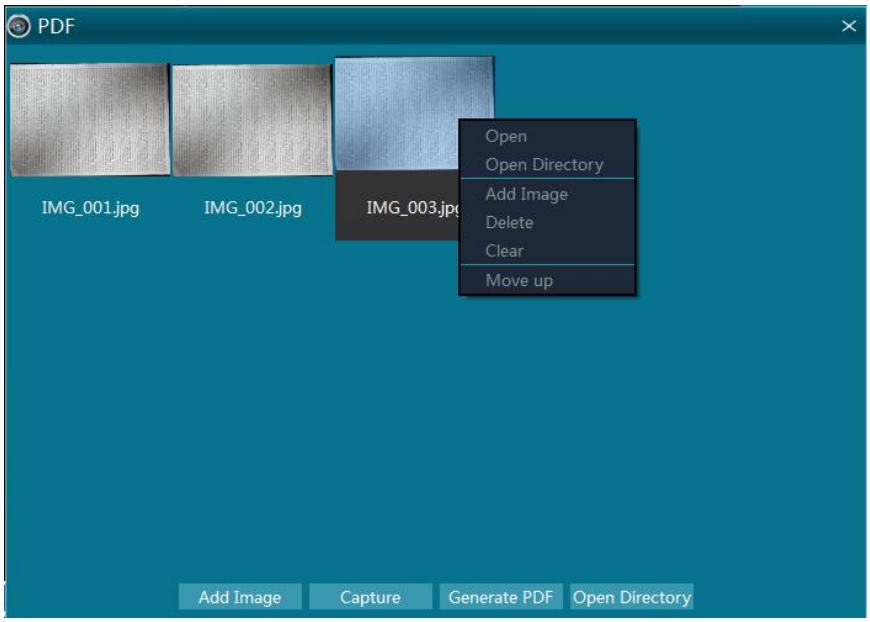
At this point, the document is placed on the table, once the software detects it will shoot:



After the shooting is prompted to take away the file, if you do not take the document on the table, the software can not detect changes will not be filmed.When we have finished shooting the required files, click the Stop button in the dialog box:



This shows the dialog box of all the images we have just taken, in which we can preview all the images and find that the missed shots can be placed on the missing files by clicking the "Take pictures" button below the dialog box to make a picture.The pre-and post-order of the picture can be adjusted by selecting the picture by clicking "Move forward" and "move backward" in the right mouse button menu, or by adding a picture from another folder to the display box, or by combining all the pictures in the Display box with the PDF file and saving it.The prompt box is as follows:



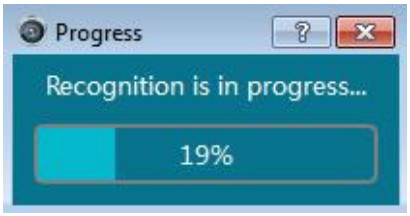
Remark:

If you use automatic continuous shooting, make sure that the following conditions:
There is a black manuscript table as background
Make sure that no documents are placed on the table before you turn on continuous shooting

3. Please take your manuscript in time to reveal the black manuscript, otherwise you will not be able to trigger the next photo shoot.

4.1.7 OCR:

OCR is a world recognition feature that recognizes text on a document and outputs it in a formatted file format.Place the document on the black manuscript, use the Corrective or box to identify the output of the content, and then click the OCR button to output the corresponding file, click the OCR button, the software directly identify the selected content:



Tips after the recognition is complete:



After recognition is complete, you can open the directory to view the recognition results.

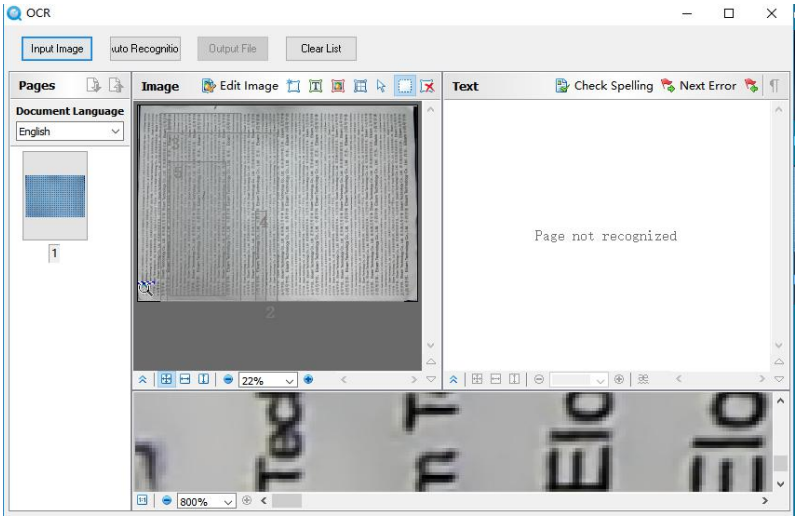
Remark:

1. If the document is in a inverted or inverted state in the view, the OCR recognition result is greatly affected, so you can use the Rotate function to adjust the document orientation to the positive direction of the text before you recognize it.

2. Turn on the correction to improve the efficiency of OCR recognition.

4.1.8 OCR Professional

Professional recognition function is also a kind of OCR recognition, but the function is much more powerful than OCR, not only can recognize the text on the document, the recognition of the document has a table, etc. can be preserved, the recognition of the output of the file format can be intact, but also can be taken to edit the document.Click the Professional Identification button to output the dialog box as shown in the following image:



Select the recognition area, Click auto recognition, After finishing recognition, output the document.

4.1.9 ID card reader function（for chinese only）

This function only use for the models which have ID card Identification function.
ID card Identification: Put the ID card at the inducing area, there's two style inducing position. After put the ID card properly, then click the identification button, then the software will come out below window ref. below picture.

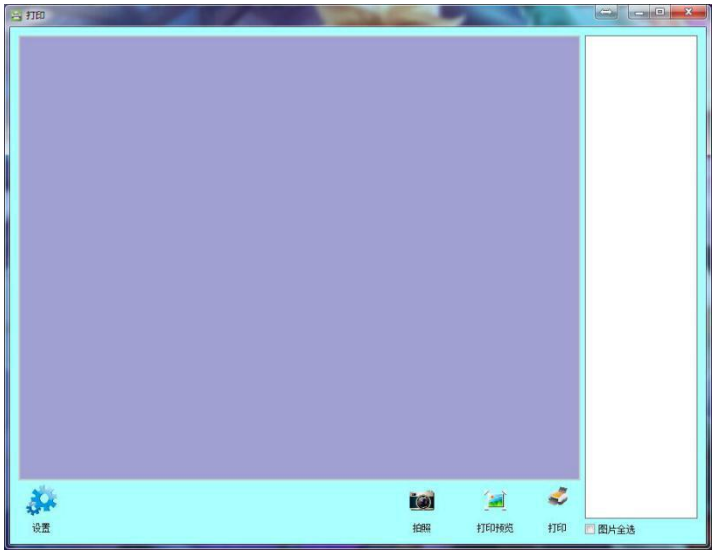
Click"start to read"at this window, software then can read all the ID card information and output, ref. Below picture.

User can save the identification result as a picture, or output information save as a excel file, or exit this function

4.1.10 Print

This function require user's computer to connect with printer first, user click print button, software will shoot a photo and send it to printer.

This device have 1:1 print function, will pop-up window of 1:1 print function. (Notice: this function only use for the following four models S1000A3, S1020A3, S1500A3AF, S1520A3AF). When user use these four model, user just need click print button, hide the software main window. The window of 1:1 print function will pop-up as below picture. Click "close"button at top right corner to close it, back to software main window.



Use Method：

1.Please use the gray and black document pad

2.After image show in the device, click"scan", can get 1:1 picture. Picture will show in the thumbnail at the right side. Select this picture. Click"Print", can print 1:1 image which have same size with actual objects.

How to make sure the 1:1 print result is good, operation is below:

(1)Make sure pull in/ out place of the device is at best status

(2)The lens and document pad should keep in the same level.

(3)Keep the document flat.

After finish above, still can't print 1:1, please click"Setting"button, use the check card to adjust the device, the step is the following:

1st Step: After power on, put the check card in the shooting area.

2nd step: Open the software, click "print"pop-up print window, click "setting"button, choose check card size in the rated size.

3rd step: Click rated size, there's a remind"rated size finish", then it's OK.

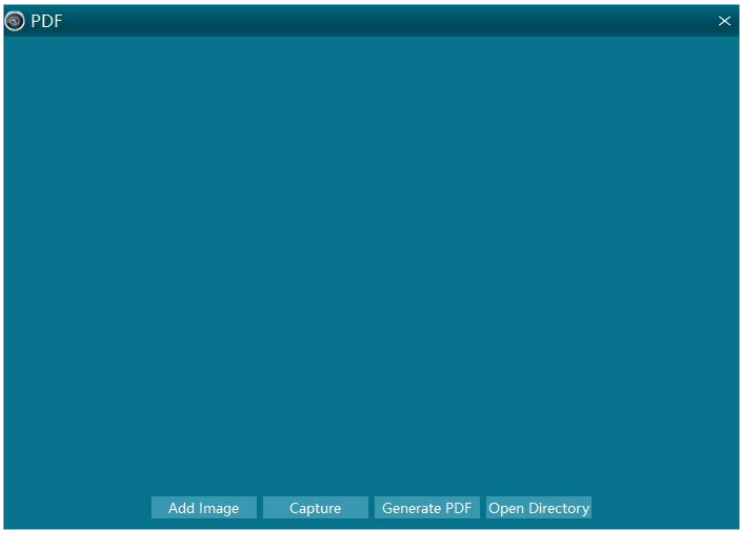
Remark

If there's a remind "test and find the Device DPI in not in the normal range, please make sure the check card is the same size as select, re-rate it again". Please check the setting check

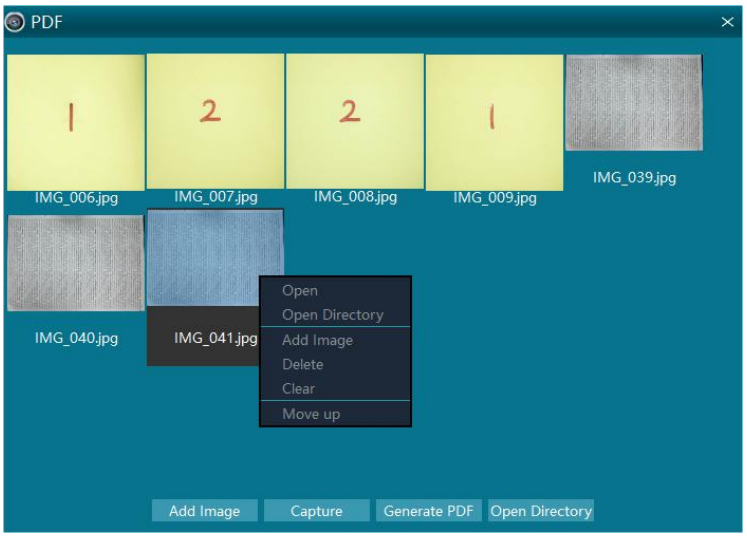
card size whether if same with the check card size, or lay the check card flat and then re-check
If you have any question, please click”help”button in the setting window.

4.1.11 PDF

PDF function means that after you capture a picture, just simply click PDF will come out with PDF file.



At bottom button, click”scan”, will directly scan the picture which is in the image view interface, and show it at the same interface. If user want to insert the picture, just click “add picture”button, and then add it in the corresponding path.

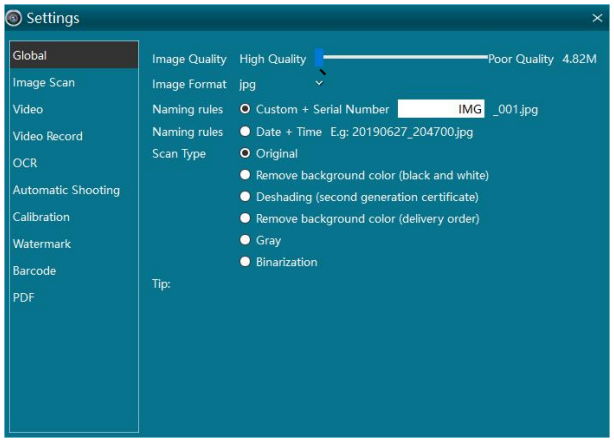


At last click “Combine PDF file”, then the PDF file created. “Open the directory”, then you can find the PDF file.

4.2 Setting Option

4.2.1 Global Parameter Setting

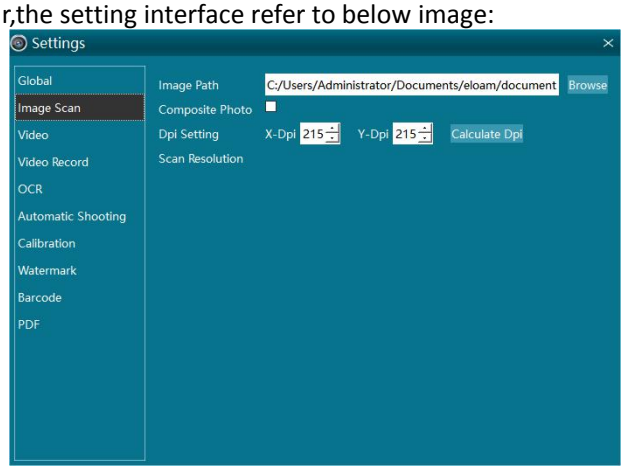
This global parameter setting of the pictures which capture by the software, use for all the capture function. In this option, user can setting the image quality / image size, setting the image type, image naming rule, Picture type, and Algorithm selection etc, the interface is same as below.



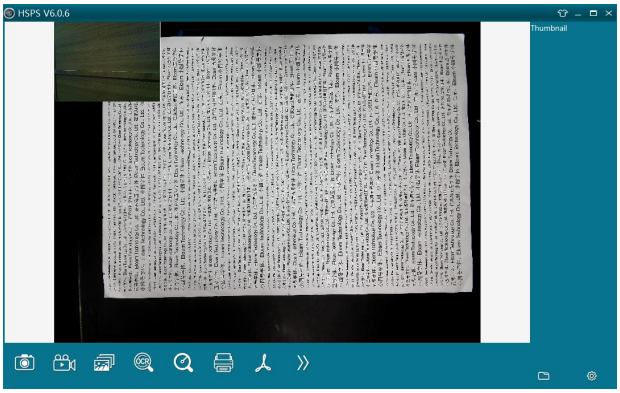
4.2.2 Image Scan Parameter Setting

This option sets the main saving path for the capture image.The user clicks the“change”option to select the created folder.For the mode with dual camera,check “main and vice camera composite image”, when the vice camera previews video with the picture in picture, can auto composited main camera and vice camera image.Use this function,please refer to the button on

The video toolbar,the setting interface refer to below image:

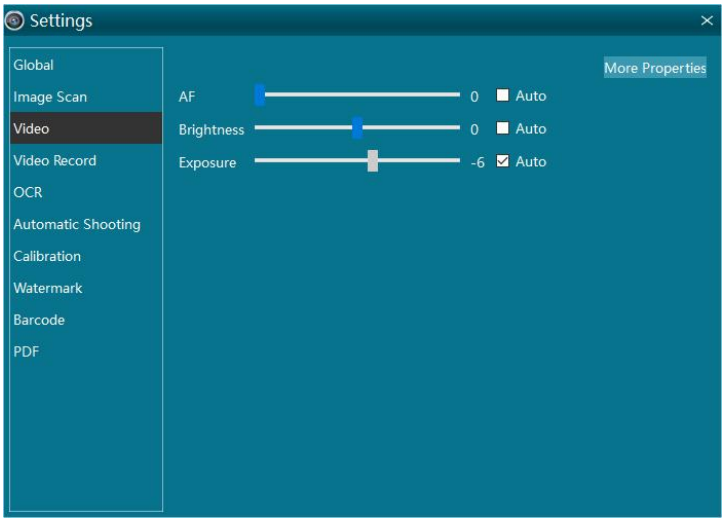


The image effect of the main camera and vice camera refer to below:



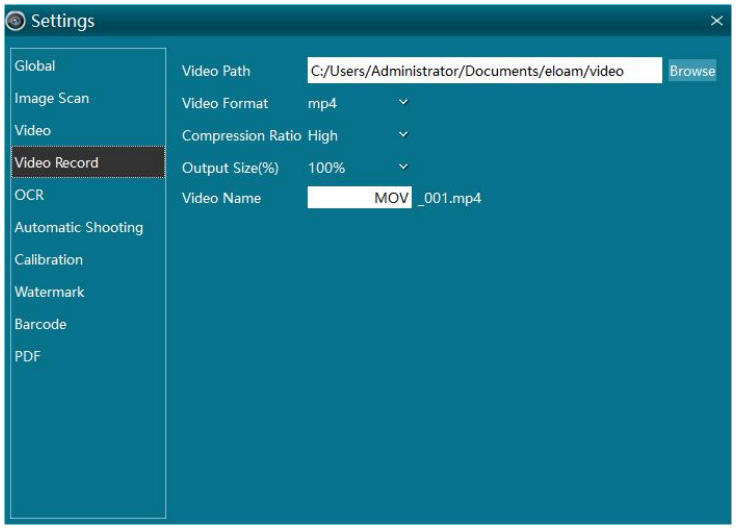
4.2.3 Video Parameter Setting

In the video parameter setting item,support adjustment of the focus, brightness, exposure and other parameters.In the “more attribute”item, can adjust more parameters of the lens more Professionally,the setting interface refer to below image:



4.2.4 Video Recording Parameter Setting

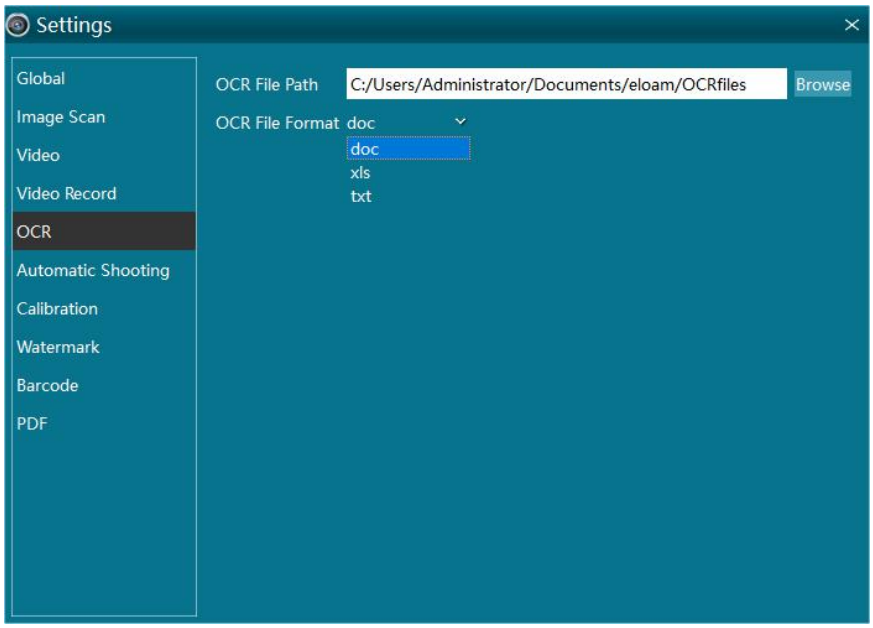
The setting option can set the video file save path ,video format, video output compression ratio, video output size ratio, video file naming and other parameters,the setting interface refer To below image:



1. Compression ratio：the larger the compression rate, the smaller the video file size;the smaller the compression ratio, the larger the video file size
2. Output Size:the ratio of the length and width of the generated video file to the length and width of the currently selected image resolution,the default is the current resolution size.

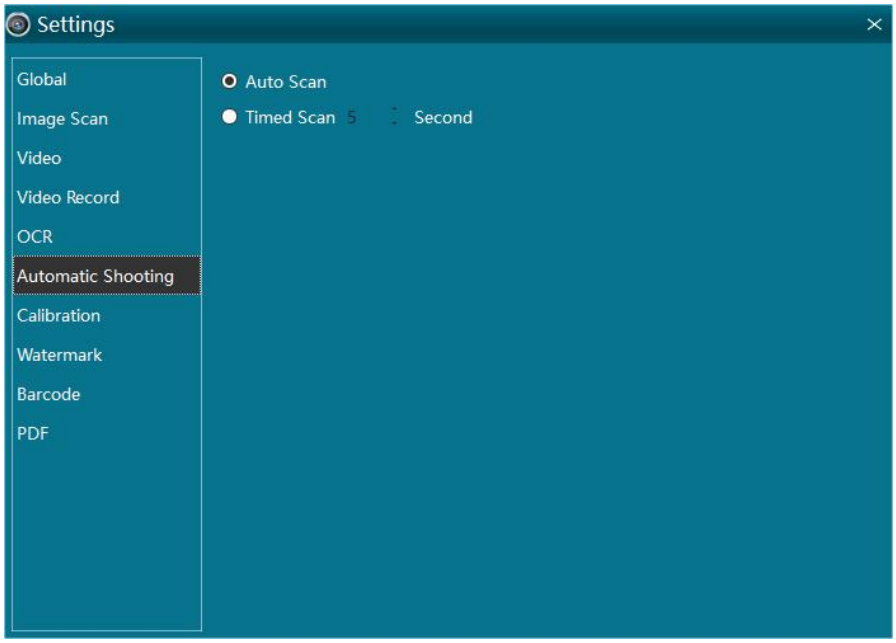
4.2.5 OCR Parameter Setting

This setting option can set the save path of output file and save format of output file after OCR text recognition,the setting interface refer to below image:



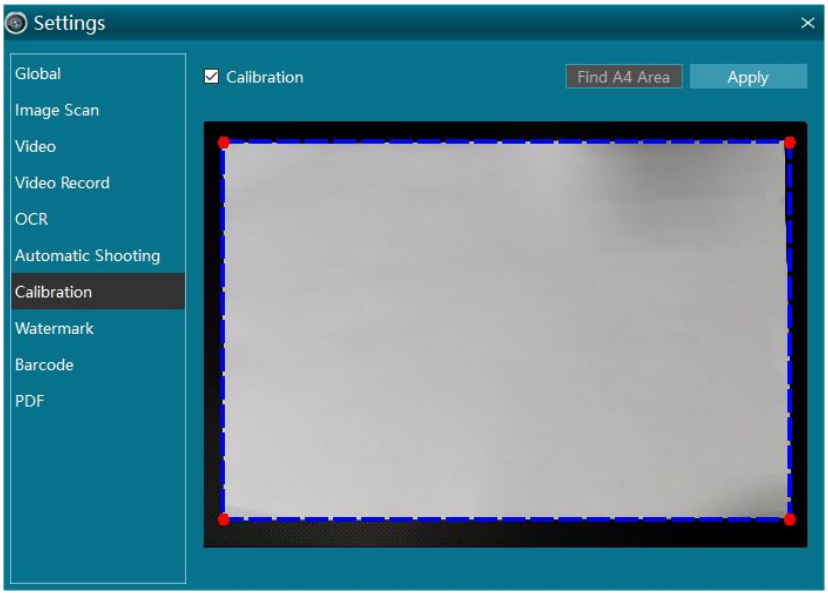
4.2.6 Continuous shooting Parameter Setting

This setting option can set the software for auto detect of shooting or timing shooting, the setting interface refer to below image:



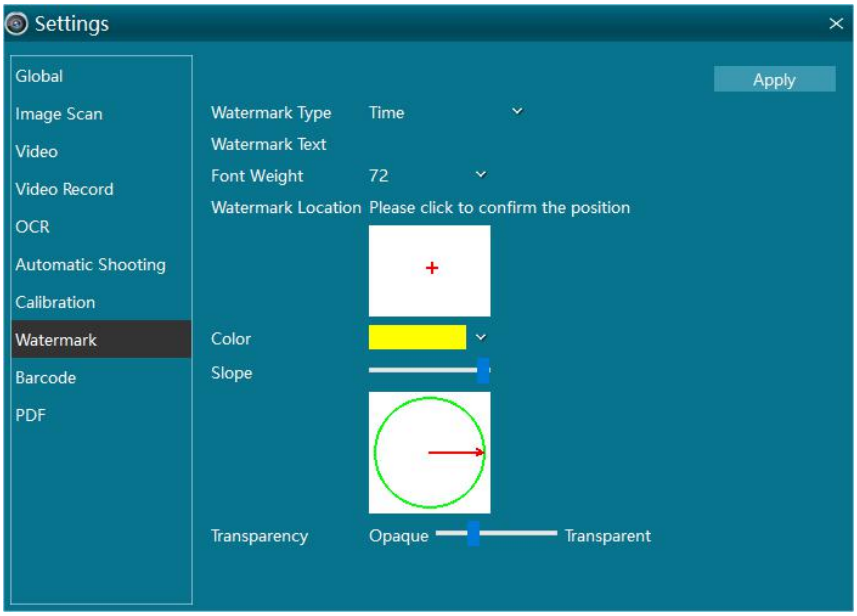
4.2.7 Calibration Setting

This setting option can set the size of the view interface, choose to open the position, there will be a positioning window, for A4 calibration special machine, select "find A4 area", the software will auto find the A4 area, For the general model can not auto find the A4 area, can use the mouse click on the red spot to drag the selection area, after setting the area, click on the application, the software interface will display the location of the format.At this time, the image will auto cut out the location of the format,the setting interface refer to below image:



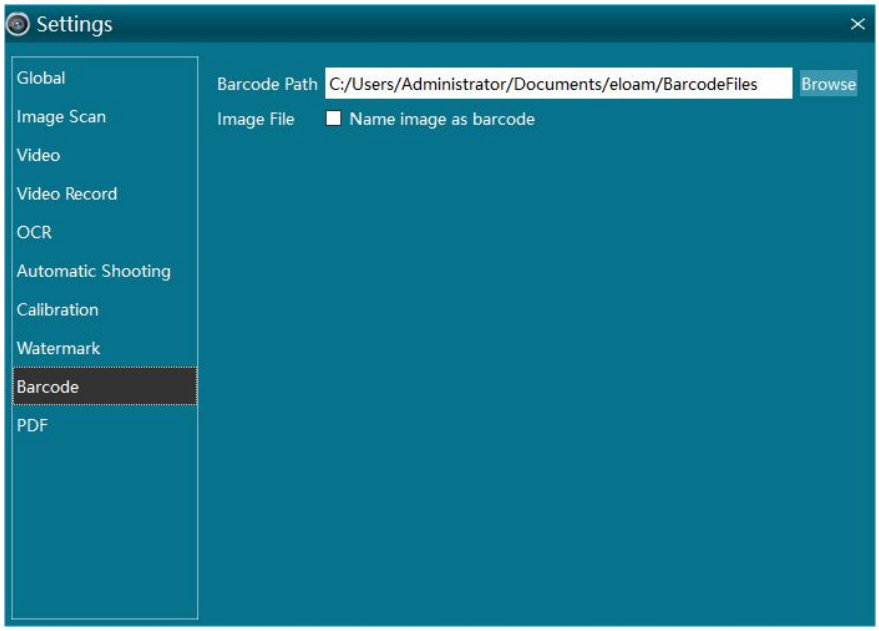
4.2.8 Watermark Parameter Setting

The setting option can set the type of watermark, size of the watermark, color of text, the text angle, text transparency, ect.once the setup is complete just click the apply in the top right corner to take effect,the setting interface refer to below image:



4.2.9 Barcode recognition parameter setting

The setting option can be set to identify the saving path of the picture after taking the photo by barcode, and can also set the picture with the bar code to be named by the barcode content. The setting interface is as follows:



4.2.10 PDF Parameter settings

This setting option can set the save path of the PDF picture composition, the size of the PDF file output quality, and so on. The setup interface is shown below:

