Content

Version update point:

➜ Ver 1.0 initial version

➜ Ver 1.2 The name of the original ETag Demo software was changed to QEPaper Utillity software

➜ Ver 1.4 The name of the original QEPaper Utillity software was changed to QEPaper software, the function interface was optimized, and the QR code/picture style dithering function was added.

➜ Ver 1.6 QEPaper Software 1.3 adds QR codes for WiFi networks/e-business cards

Q series product QR code & image generator equipment list

Name	Model	quantity	Remark
Q series device 4.2 inch	UER042B	Users can use multiple units	This device is suitable for payment QR code, commodity QR code, image display, etc.
QEPaper system software	——	1	Use this system on the computer

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Q series QR code & image generator manual

1.Overview

This manual mainly introduce the functions and operation of QR Code & picture generator. The realization of the function relies on two elements: ①E-paper device (matching Micro USB data cable,②QEPaper software. After the QEPaper software installed on computer, picture and QR code can be transmitted to e-paper device through Witstec QEPaper software.

2.Necessary Elements

As mentioned above content, the realization of the function relies on two elements: ①E-paper device (matching Micro USB data cable,②QEPaper software. Please refer to chapter 2&3 for more details.

QEPaper_Setup
_1.2

3.E-paper Device

The e-paper device is the terminal device of QR code and picture. User can not only set text through QEPaper software to generate QR code, but also, user can import picture from PC to QEPaper software and then transmit to e-paper device.

3.1 Specification

The developed device size is 4.2" at this moment, specification as the table shows:

Parameter	Description
Screen type	E-ink screen
Display color	Black White Red
Display resolution (pixels)	400*300
Display size (mm)	84.8(H)*63.6[V]
Overall size (mm)	104.8(H)*87.6(V)*13.0(D)
Battery capacity	2400mAh
DPI	119
Working temperature	0-40℃
Transmission technology	USB
Material	ABS

Remark: According to the pixel of the device, it is recommended that the photos imported into the QEPaper software be 400*300. If the photo is not 400*300, the photo can be displayed in full, but the ratio of the photo will be compressed.

3.2 Operation

The device is no need battery assembled. After the QEPaper software installed on computer, take out the Micro USB data cable and insert to the device and computer, set the QR code text or select picture from PC, then click "send" button, QR code or picture will be generated and showed on the device instantly.
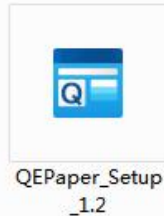

3.3 Application

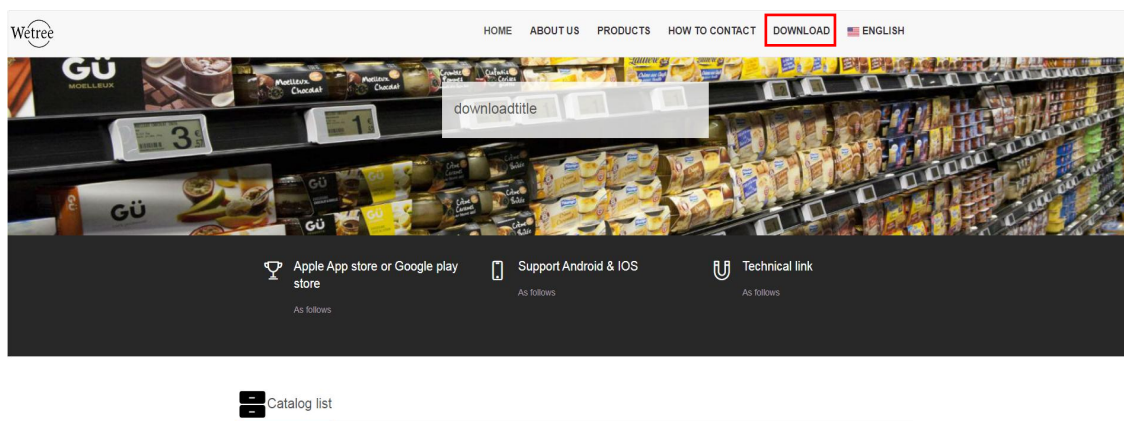The e-paper device can be used to display QR code and picture.

4、QEPaper software

The QEPaper software is the source of information displayed on the electronic paper device. Users can send QR codes or pictures to electronic paper devices through this software. This software can be downloaded from the official website of Rongya.
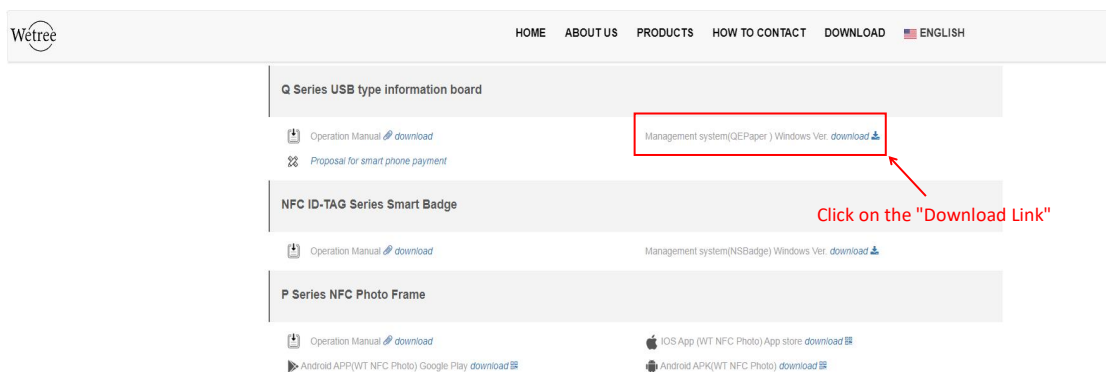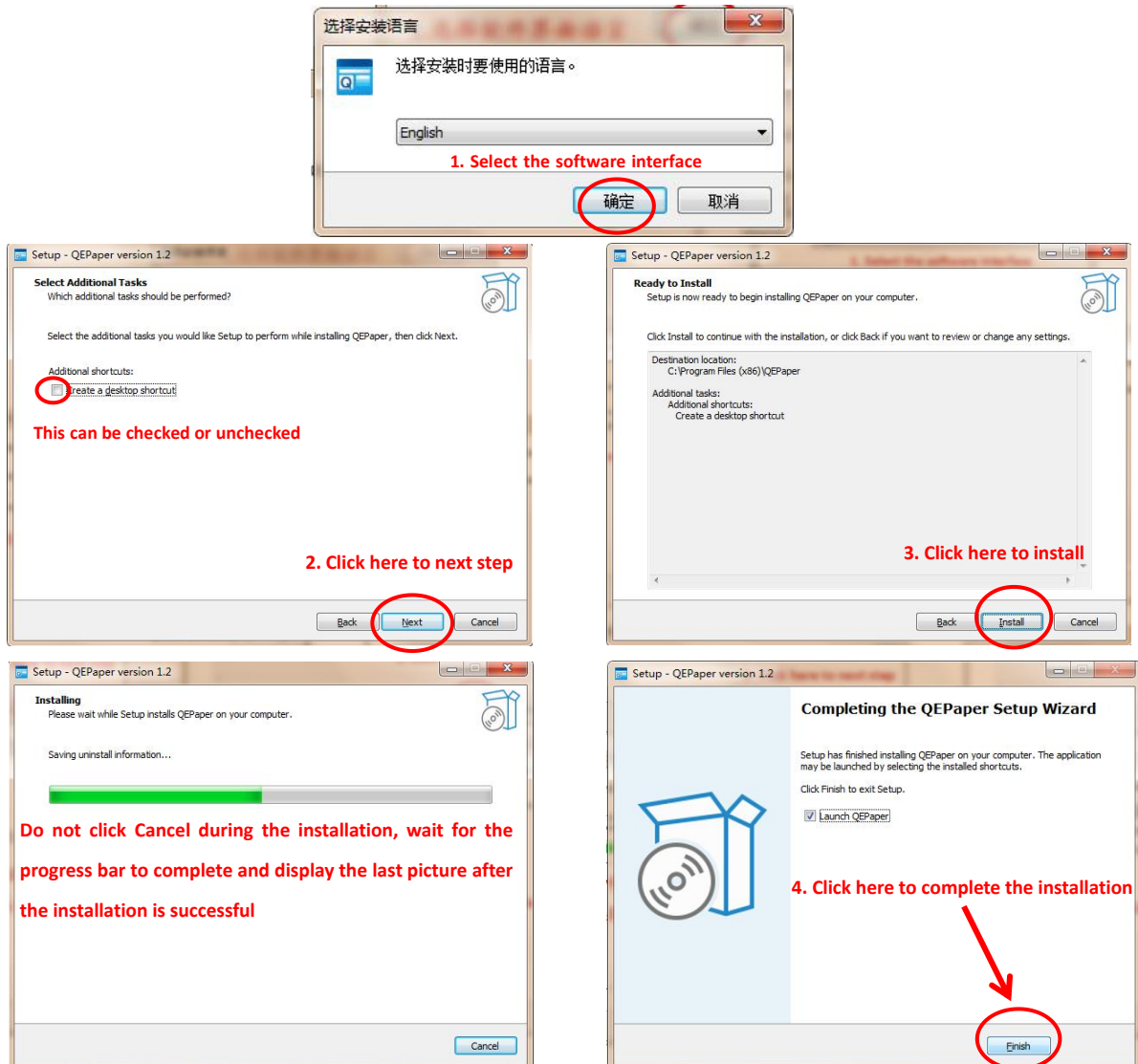

4.1 Download method

Step 1: Open the browser and enter https://www.witstec.com/download-2/
 to enter the download center of the official website of Witstec

Step 2: Then download the QEPaper software in the background management system "download link" under the Q series in the data list.

Step 3: After the "QEPaper" software is downloaded, find the folder where the download is stored, and then click "Run". Then select Follow the prompts to allow the action to proceed.

1. Select the software interface

This can be checked or unchecked

2. Click here to next step

3. Click here to install

Do not click Cancel during the installation, wait for the progress bar to complete and display the last picture after the installation is successful

4. Click here to complete the installation

Note: If you need to uninstall and reinstall this software, you can uninstall this software from the data point "unins000" in the last installation disk, and then download it again.
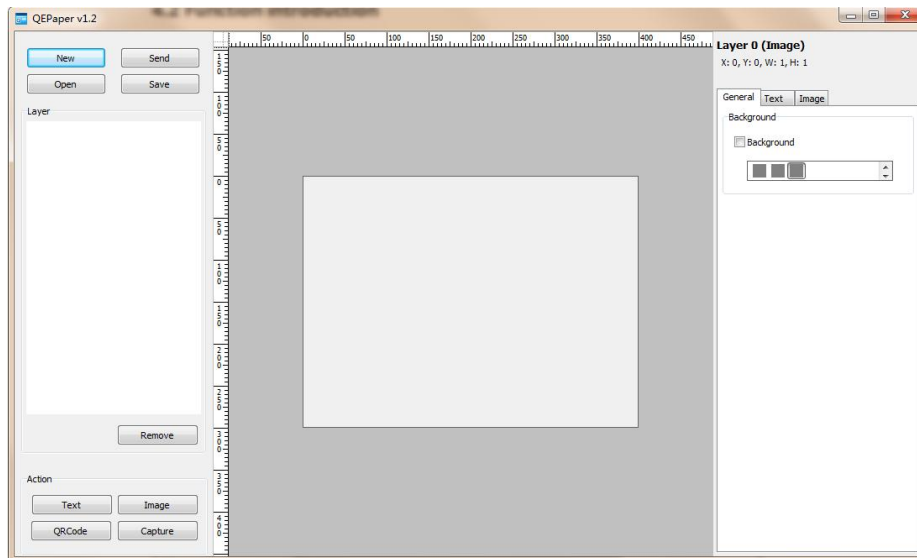

unins000

After the installation is complete, double-click the "QEPaper" software icon in the desktop shortcut or the folder where the installatio   the software. The icon after the download is complete is as follows:
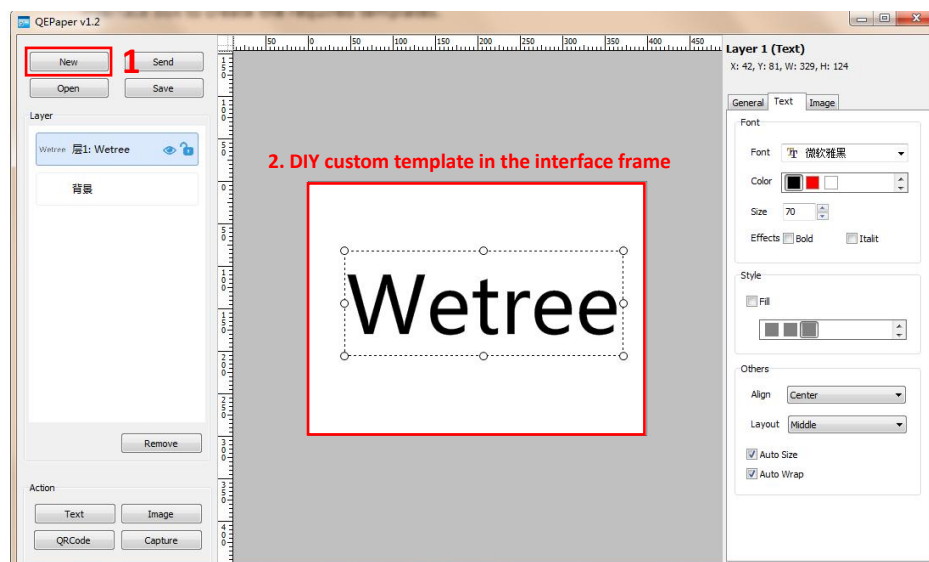

QEPaper

4.2 Function introduction

Users can use the QEPaper software provided by Rongya to send images or QR codes to the device. After opening the QEPaper software, you can see that the interface has thirteen functional attribute modules: New, Send, Open, Save, Layer, Remove, Insert Text, Insert Picture, Insert QR Code, Capture Avatar, Background Color, and Text Properties , Picture beautification. The following is a detailed introduction of each functional module.

After QEPaper is downloaded and saved to the local folder, open the QEPaper.exe program, and you will see the interface of QEPaper software editing and transmission as follows:

1) New: "Click New" to insert text, pictures, QR codes, background settings, etc. into the DIY interface box to create the required templates.
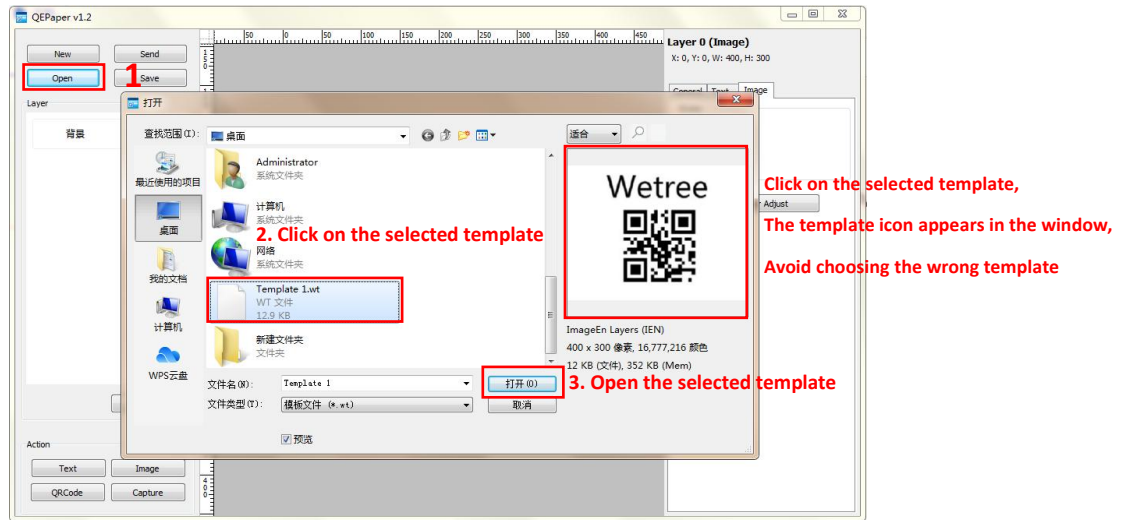

2) Send:

After the template is made, click Send to send the DIY template to display on the device.
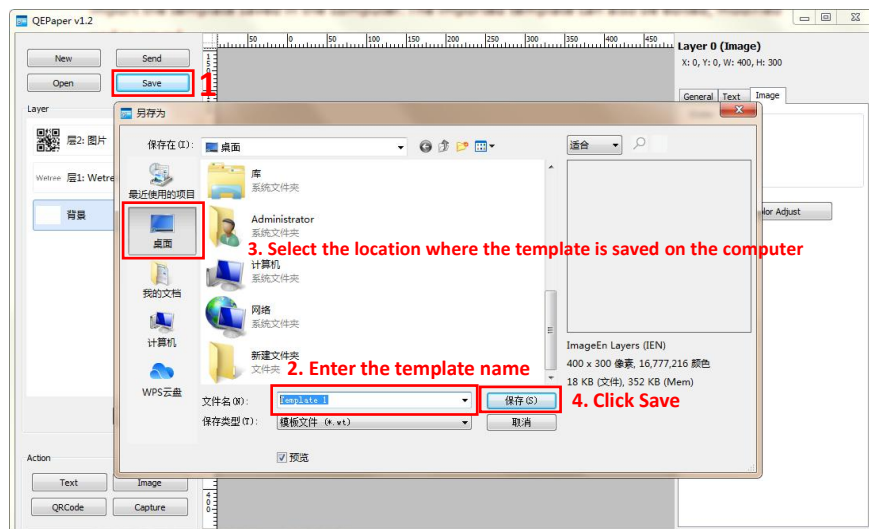
3) Open:

    The prepared template can be saved in the computer. When it is ready to use, you can click to open and import the template saved in the computer. The imported template can also be edited, modified and renamed again.

4) Save:

    Click Save to save the prepared template in the computer. When waiting, click Open to import the template saved in the computer. The imported template can also be edited, modified and re-saved.

5) Layers:

    The layer display can view the text and pictures edited by yourself, and a layer represents a text or a picture. The created text can be merged, combined, ungrouped, deleted, converted to image layer, renamed, layer property, layer locked through the layer function.

Figure 1: Layer right-click property settings
① Merge to background:
Click the right mouse button or the shortcut key (T) to merge the selected layer with the background.

②Delete layer:

Click the right mouse button or the shortcut key (U) to delete the selected layer, or click Remove to delete the layer.

③ Convert to image layer:

Click the right mouse button or the shortcut key (V) to convert the selected text or image into an image layer.

④ Group layers:

Click the right mouse button or the shortcut key (W) to select two or more layers to combine and bind.

⑤ Ungroup layers:

Click the right mouse button or shortcut key (X), select two or more combined layers and click Ungroup to combine and unbind.

⑥ Rename the layer:

Click the right mouse button or shortcut key (Y) or click the name to be changed to rename the selected layer.

Figure 2: Layer right-click property settings

① Layer properties:

  Click the right mouse button or the shortcut key (Z) to open the property settings of the selected layer. Select the text layer and click Layer Properties to set general, style, and text properties for the selected text. Select QR code/picture and click Layer Properties to set general and style properties for the selected QR code/picture.

Figure 3: Icon settings on the right side of the layer

①Click the open eye icon to hide/show the selected layer content. The content can be hidden when the icon is displayed with eyes closed, and the content can be displayed when the icon is displayed with eyes open.

②Click the unlock/unlock icon on the right side of the layer, the layer can be locked when the icon is displayed as locked, and the layer can be unlocked when the icon is displayed as unlocked.
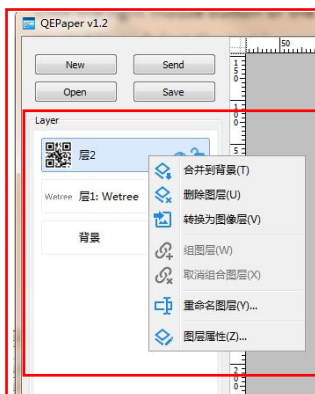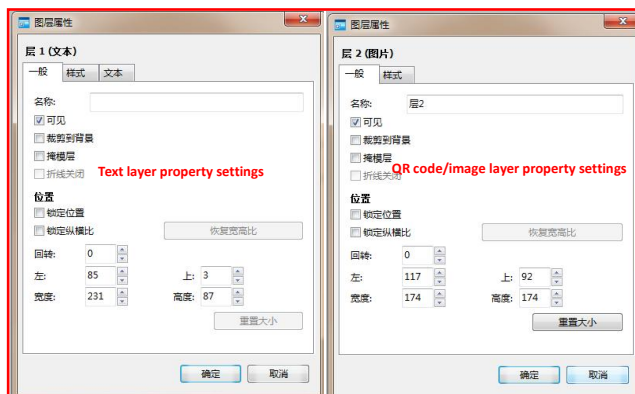

Figure 1: Layer right-click property settings

Figure 2: Layer right-click property settings

Figure 3: Icon settings on the right side of the layer

Figure 4: Fixed background property settings below the layer

①Background attribute

　Select the background layer and click on the right panel to change the background color. Black, white and red devices can change the three-color background of black and white, black and white devices can be changed to black and white two-color backgrounds, and seven-color devices can be changed to seven-color backgrounds.
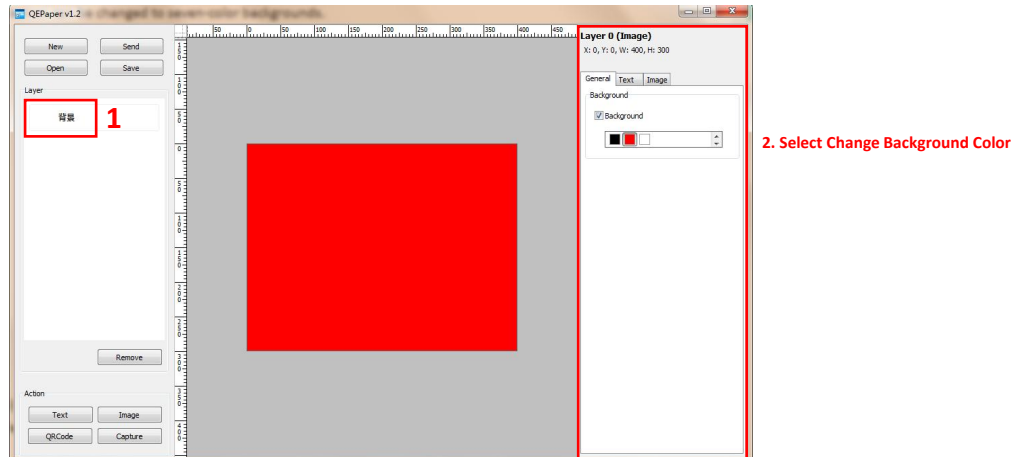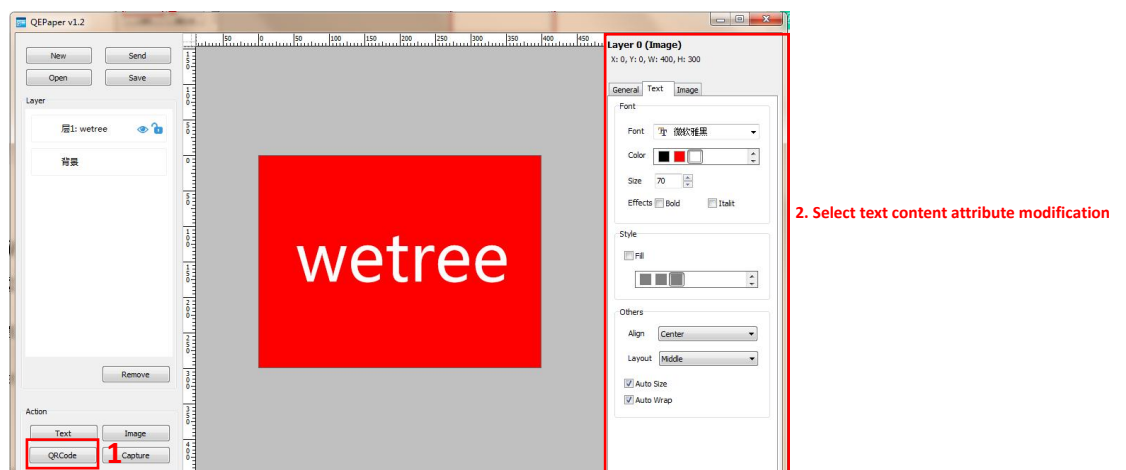

Figure 4: Property settings below the layer

6) Remove: Click Remove to remove the created layer, select a single layer to remove and click Remove. Batch removal hold down shift: select multiple layers and click remove.

7) Insert:

①Insert text:

　Click the text to insert a text box, select the text box to drag and drop to adjust the size to zoom in or zoom out or scroll the mouse to zoom in and out. Select the text box and click on the left panel to edit the text content properties: change font, font color, font size, bold, italic, text background fill, text alignment (center, left, right), text layout and typesetting (top, center, Bottom), you can check the automatic size of text and automatic line wrapping, etc.

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②Insert picture:

Click the picture to add a picture, and the added picture can be dragged to adjust the size to zoom in or zoom out or scroll the mouse to zoom in and out.

Image processing can set two functions of dithering and color adjustment.
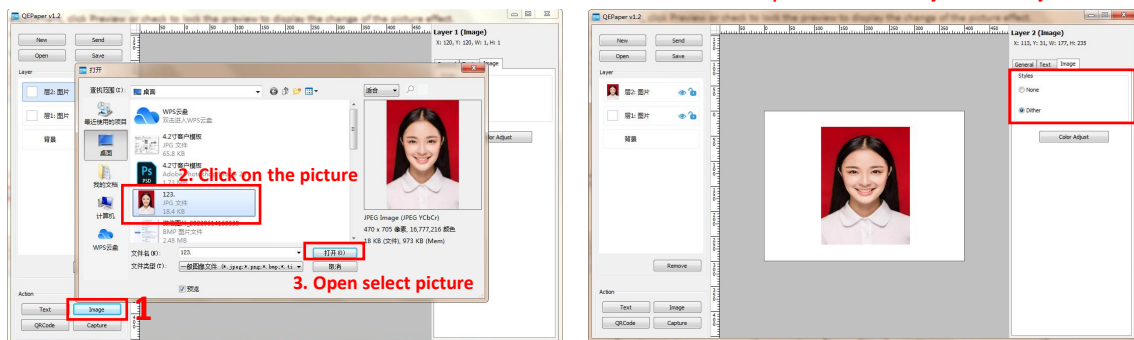
Function 1: Picture shaking function

➜None: No dithering effect is suitable for pictures and graphics with solid color background.

➜Dithering: The dithering effect is suitable for portraits, animals, pictures and photos with more colors.
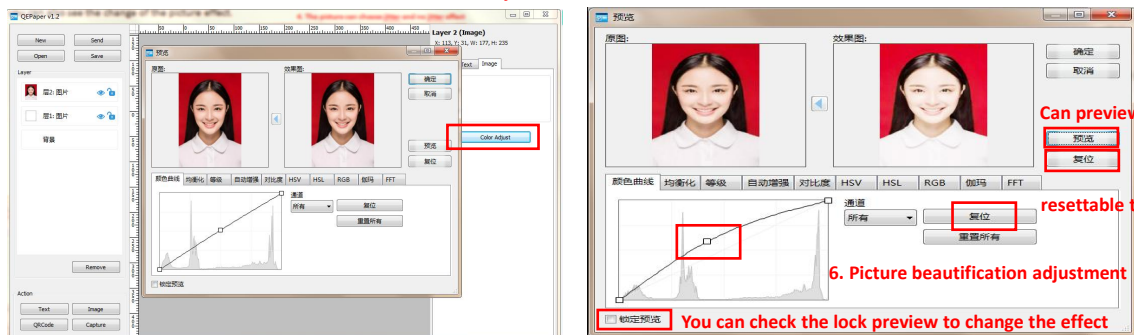
Function 2: Picture color adjustment function

Select the picture and click the color adjustment on the left panel to enter the picture beautification processing interface: contrast, HSV, HSL, RGB, equalization, Color Curve, FFT, Gamma, Auto-Enhance and other beautification effects. After clicking the special effect adjustment, click Preview or check to lock the preview to display the change of the picture effect. You can also select the next special effect, and then click back to the adjusted special effect, and you can also see the change of the picture effect.

4. The picture can choose jitter and no jitter effect

2. Click on the picture

3. Open select picture

5. Pictures can be beautified and adjusted

Can preview effect changes

resettable to initialization

6. Picture beautification adjustment

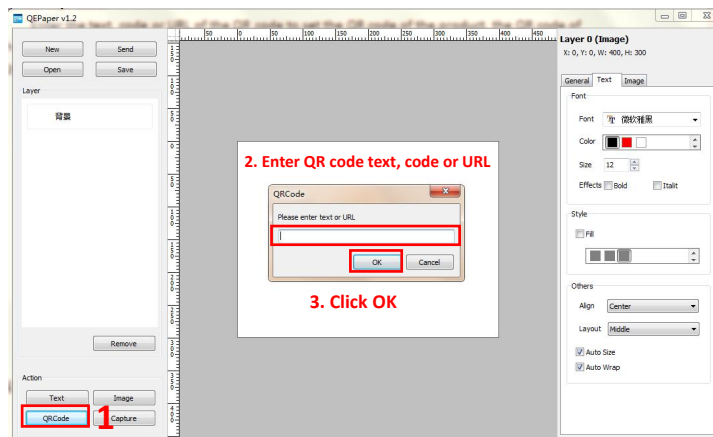**You can check the lock preview to change the effect**

7. A variety of beautification effects are optional

③Insert QR code:

Users can set text URL or WiFi network and electronic business card QR code on QEPaper software, generate QR code through QEPaper software, and then send to the device. Users do not need to use the network to open the camera to scan or scan with the mobile phone and browser to use wireless WiFi. They can also set the QR code of the electronic business card, and scan the code to save the information of the electronic business card in the phone address book.
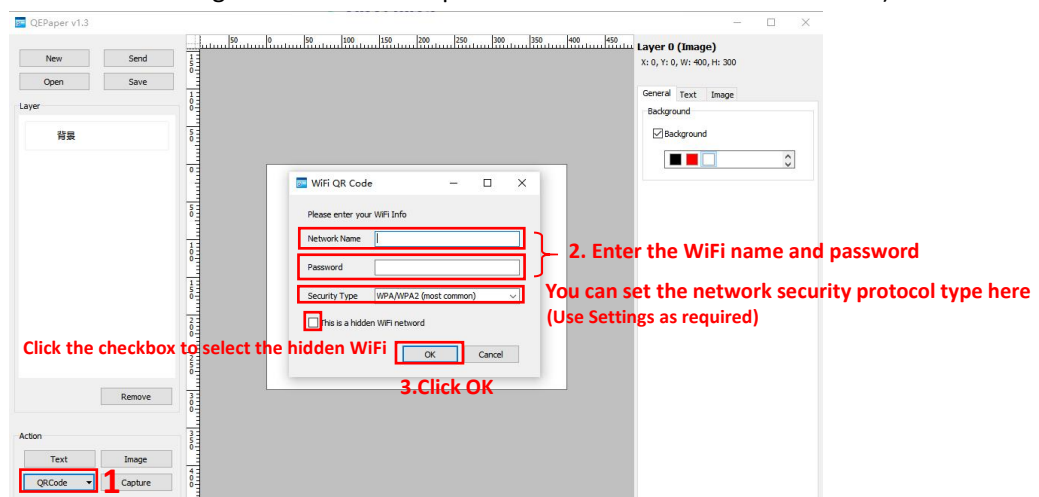
Function 1: text or URL QR code

Enter the text, code or URL of the two-dimensional code to set the commodity two-dimensional code, enterprise official website two-dimensional code, etc. You can also use the function of insert picture to insert various kinds of QR codes in picture formats such as wechat/Alipay payment codes.
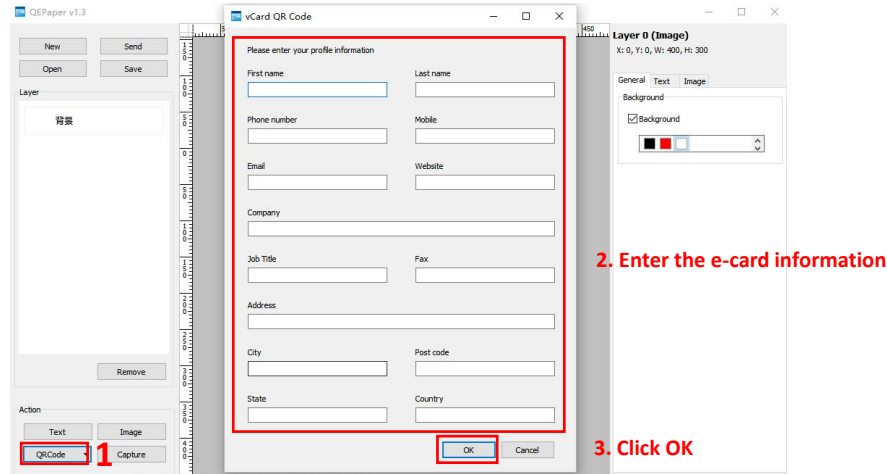

Function 2: QR code of WiFi network

Enter the name and password of WiFi ➜ set the type of network security protocol (this network security protocol can be selected or not, and can be used as required) ➜ If you select the hidden WiFi, click the tick box to select ➜ click OK ➜ the two-dimensional code can be generated. After the two-dimensional code is set, click "Send" to the device. Scan the QR code with the mobile phone camera or the built-in scanning tool of the mobile phone and the browser, and the mobile phone can be connected to the WiFi network for users and businesses.
(After this function is set up by the merchant, the user does not need to download the APP, but directly uses the code scanning tool of the mobile phone to connect to the WiFi network.)

Function 3: QR code of electronic business card

Enter the e-card information ➜ click OK ➜ the e-card QR code can be generated. After the QR code is set, click "Send" to the device, scan with the camera of the phone or the built-in scanning tool of the phone and the browser, and the e-card information can be saved to the phone address book.
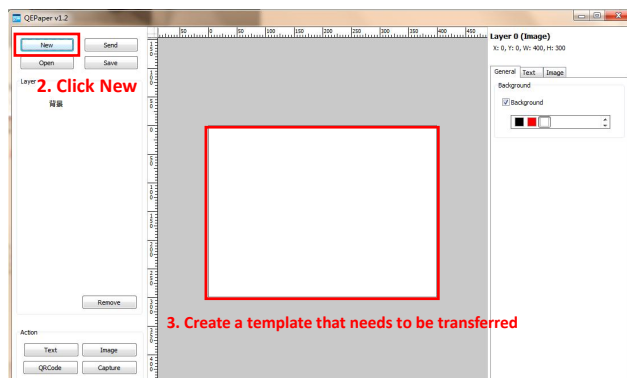

④Insert captured avatar:

Connect the camera to the computer, click to capture the picture to shoot, and you can customize the size of the photo after shooting.
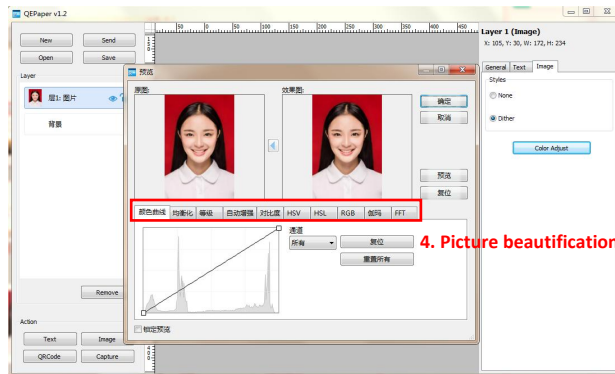
4.3 Send Template

Step 1: Connect the device to the computer with a Micro USB interface data cable.

Step 2: Click "Open" to open the image or QR code template to be transferred.
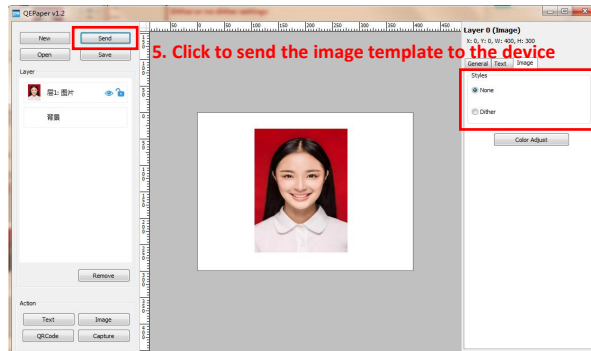
Step 3: Dither or beautify the image and adjust the settings according to your needs. After adjustment, if you want to restore the effect before debugging, you can click "Reset" to restore the default value.

Dither or no dither settings

4. Picture beautification adjustment settings

Step 4: Click "Send" to immediately send the template to the device.

5. Click to send the image template to the device

The image sent to the device shows the status

6. Click to send the text and QR code template to the device

The text and QR code are sent to the status displayed on the device

5. Briefly describe the steps of the operation process

This chapter briefly describes the operation steps of the Q series information card. Please note that before drawing the template, you need to connect the device with the Micro USB data cable and plug it into the computer to connect it, then make the template, and click Send.

Step 1: Download the QEPaper software (download is required for the first use)
Step 2: Connect the computer and the device with the Micro USB cable
Step 3: Make a template to send
Step 4: Send the template to the device