

How to use the PanoramaServer sample?

Dynamsoft Panorama™ is a barcode reading and image stitching product. It not only displays a panoramic view of the surrounding barcodes, but also quickly and accurately decodes these barcodes and provides users with additional barcode information in real-time.

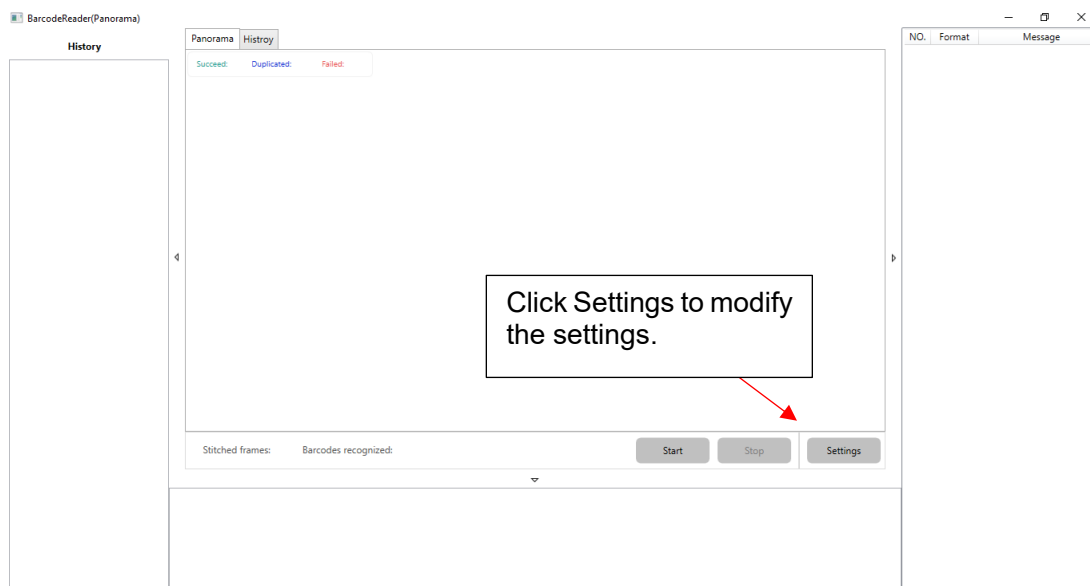
This sample demonstrates how to use the mobile camera to capture images and upload them to a computer where performs barcode reading and image stitching. Please follow the steps below to get it working:

1. Build the PanoramaServer sample and configure the Panorama Server

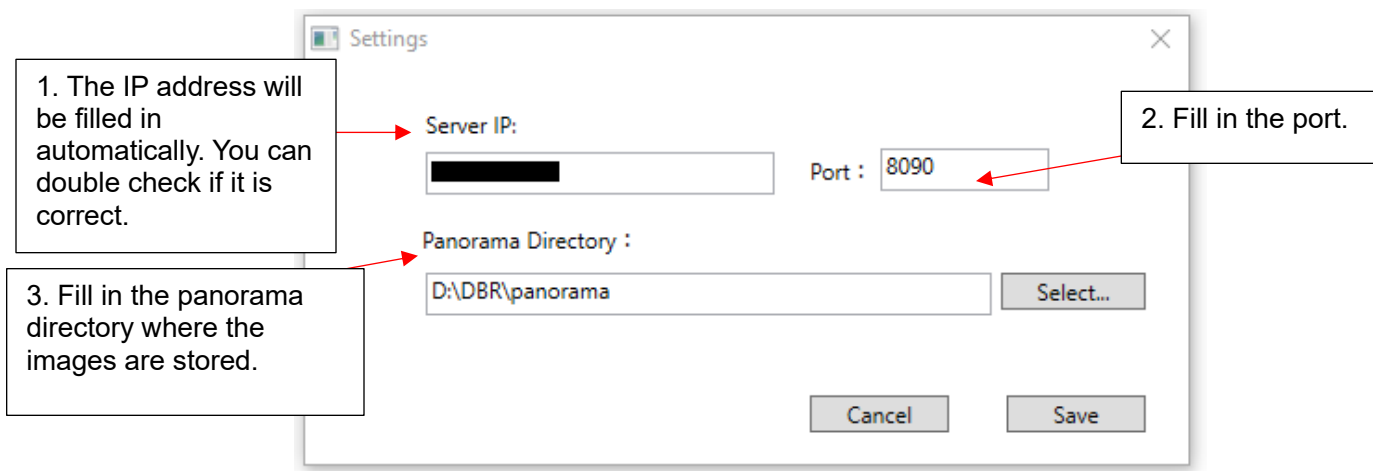
1.1 If you haven't downloaded the sample, please download it [here](#).

1.2 Open the solution in Visual Studio and build the sample.

1.3 After the application is started, click Settings to change the configuration:



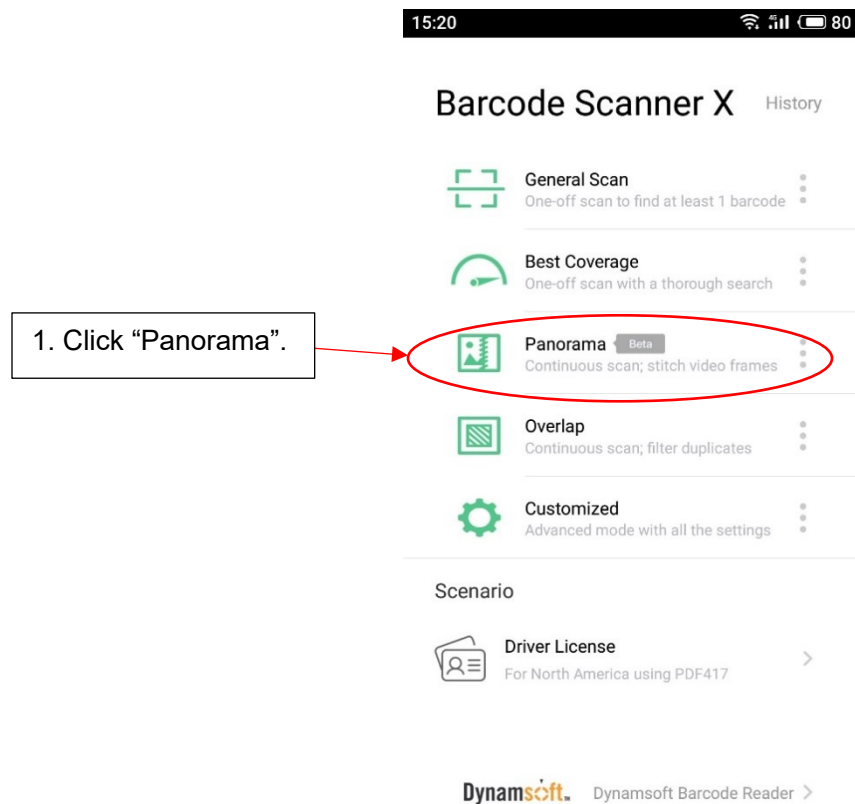
1.4 The Panorama Server uses TCP/IP to transfer the image and data captured. Therefore you need to fill in your server IP, the port and the Panorama Directory where the images to be stitched together are stored.



2. Configure the input device (smartphone/tablet)

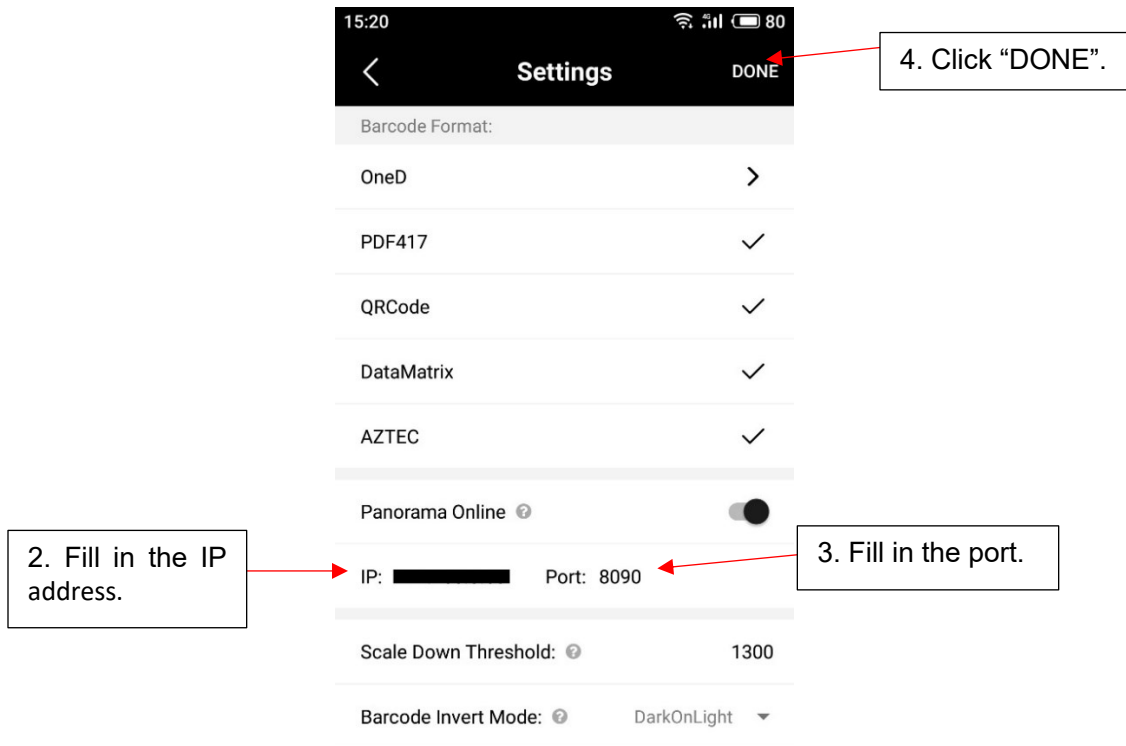
2.1 Download our demo App “Barcode Scanner X” from Google Play or App Store.

2.2 Open the App and select “Panorama”.



2.3 Click the settings icon at the top-right corner, enable “Panorama Online”, fill in the IP

address and the port (the same IP address and port you inputted in the Panorama Server program), then click “DONE”.



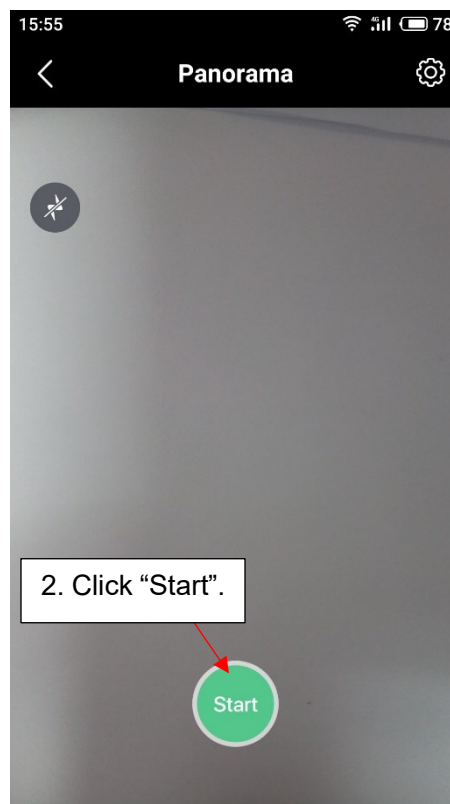
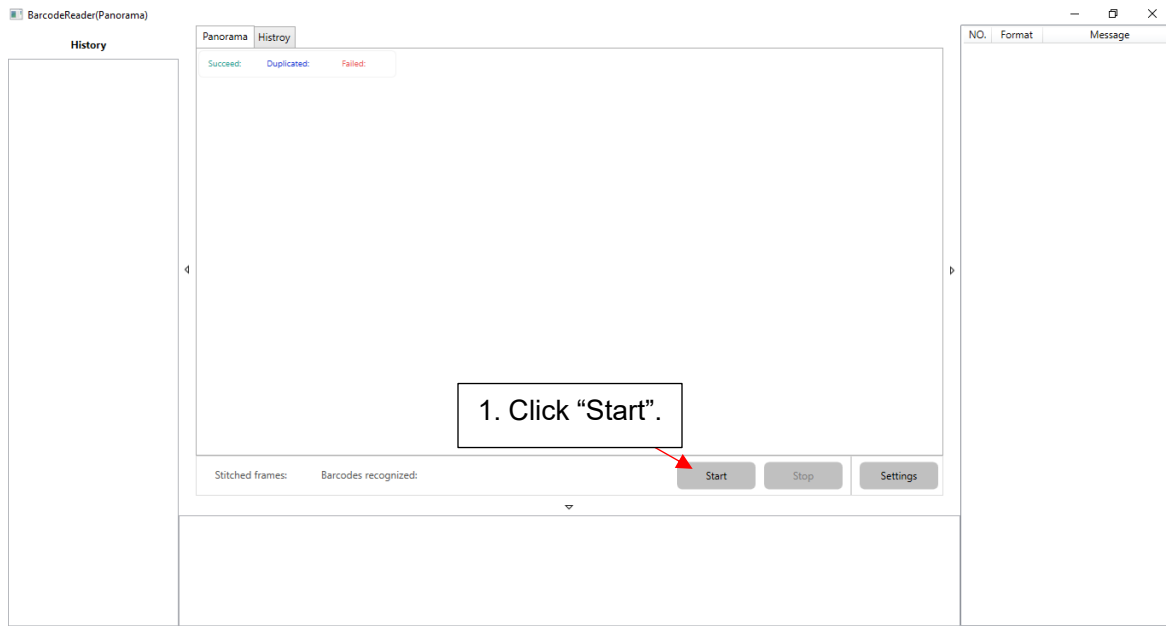
3. Now that everything is set up, it's time to test it out!

3.1 To begin, you need to click Start on the main page of Panorama Server program.

3.2 With the Panorama page open in Barcode Scanner X, click “Start”. After that you will be able to use the Panorama feature.

3.3 Click “Finish” on the mobile app once you are done capturing the panorama image.

3.4 Click “Stop” in the Panorama Server app to end the process.

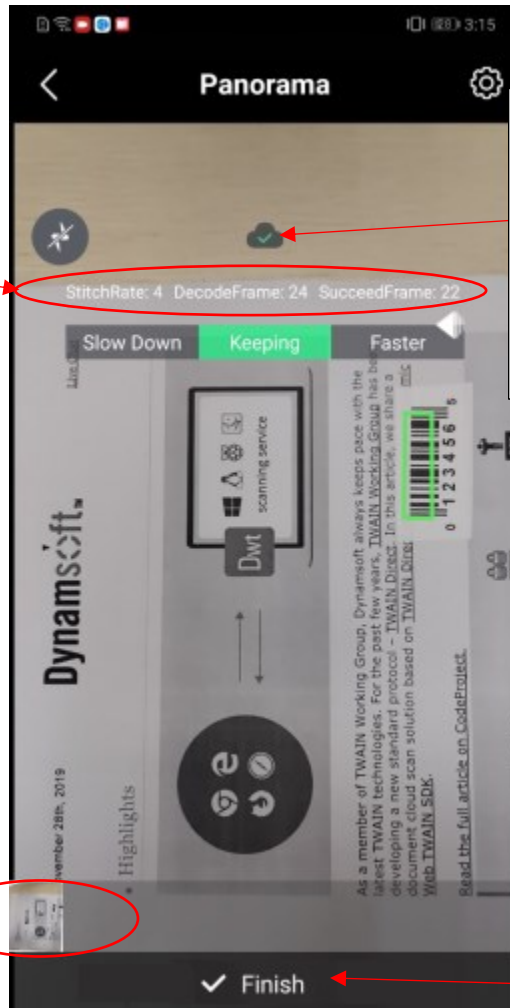


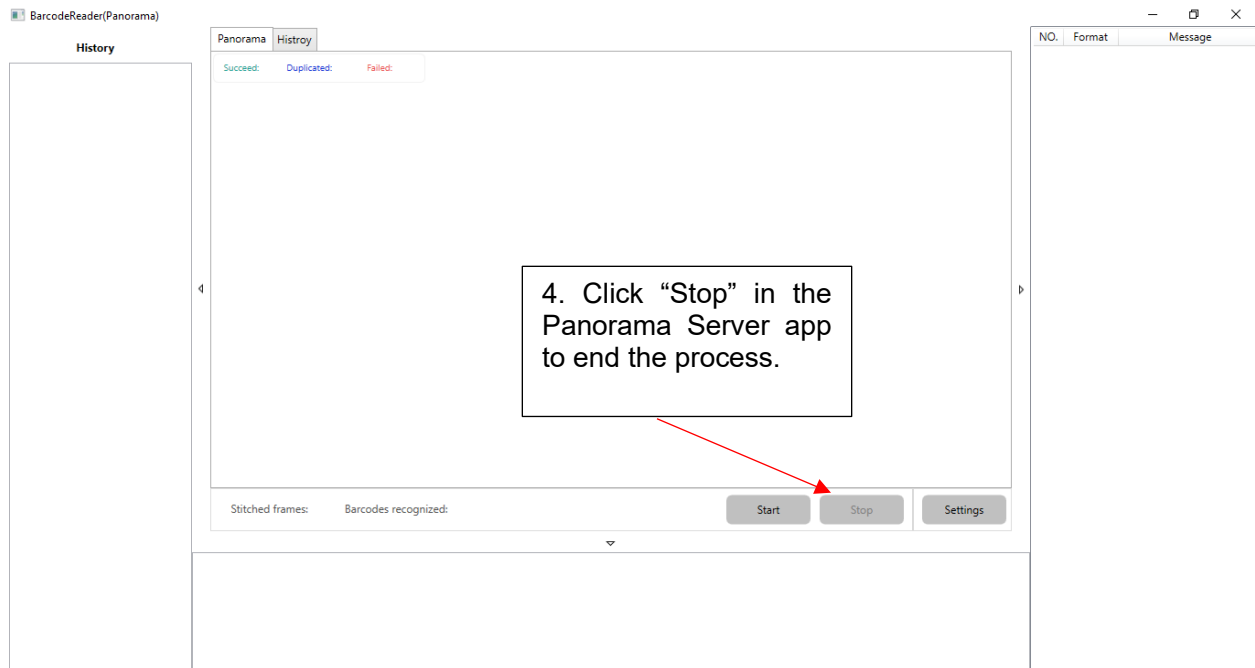
StitchRate: the speed at which data transferred between the server and the mobile phone, the unit is frame per second (fps).
DecodedFrame: how many frames are decoded by our library.
SucceedFrame: The successful frames will be stitched together to generate a panoramic image shown in the preview image panel.

The green tick means the connection between the server and the mobile phone is set up successfully. If an exclamation mark is displayed, it means the connection has failed. At this point, further troubleshooting is required.

Stitched preview image

3. Click "Finish" to stop the panorama.





After the stitching is done, the final result will be shown below.

AllFrames: the total count of frames in the video stream.
 StitchRate: the speed at which data transferred between the server and the mobile phone, the unit is frame per second (fps).
 SucceedStitch: The successful frames will be stitched together to generate a panoramic image shown in the preview image panel.
 FPS: frame per second.

The IP address of the mobile phone.

Barcode result

DecodedFrames: how many frames are decoded by our library.
 Barcode Recognized: how many barcodes are decoded by our library.

These are the stitched images. You can also find them in the panorama directory you specified earlier.

NO.	Format	Message
1	UPC_E	01234565
2	DATAMA	DYNAMASOFT.COM
3	CODABA	12345678

NO.	IP Address
1	192.168.8.22:57498

192.168.8.22:57498 20200115 15:00:2654

AllFrames:30 StitchRate:2 SucceedStitch:28 FPS:2

DecodeFrames:30 Barcodes recognized:3

192.168.8.22_0.jpg 192.168.8.22_0.jpg 192.168.8.22_0.jpg 192.168.8.22_0.jpg