

# Dynamic Web TWAIN

## Developer's Guide

Dynamsoft OCR Professional Module

August 2017



10+ Years of Experience in TWAIN SDKs and Version Control Solution

# Using the OCR Add-on

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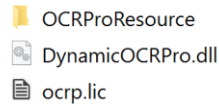
## Description

Relatively speaking, the OCR add-on is the most difficult one out of all the add-ons for the Dynamic Web TWAIN SDK. In this guide, we'll talk about how to integrate the **Professional OCR** add-on into your web application.

Dynamic Web TWAIN has been a popular SDK in the market for more than a decade, over the years, we've got many requests for an OCR solution to integrate with it. After carefully evaluating the options, Dynamsoft chose to work with the industry leader Nuance® to provide a good OCR solution which is simply called the **Dynamsoft OCR Professional** Module.

Powered by the OCR engine from Nuance®, this new solution generates industry-leading OCR results. Dynamsoft carefully designed the APIs so that you can do powerful things with just a few lines of code. All APIs can be found in the [Dynamsoft Developer Center](#).

The following files are directly related to this add-on. If you don't have them, please contact Dynamsoft Support (support@dynamsoft.com).



*Figure 1 OCR Professional Resources*

## How to use the Professional OCR Add-on

The professional OCR add-on is designed to work on the server-side.

### How does the server-side OCR work

When used on the server-side, the OCR professional add-on works as a HTTP service. Essentially it forms a local Client/Server structure on the server. Once the original document is uploaded on the server, all you need to do is send a HTTP POST request to the OCR service with information like where the original document is and where you'd like the result to be saved. Then you wait for the response from the service before notifying the user who initially started the OCR.

To implement this solution, please follow the steps below

1. Download and **unzip** the all-in-one sample from [Dynamsoft Code Gallery](#). You'll see the structure as shown in Figure 2.
2. **[Installation]**  
If you have installed Dynamsoft Service on the server already, you need to **manually** copy the following highlighted files shown in Figure 3 and paste them in the directory **C:\Windows\SysWOW64\Dynamsoft\DynamsoftService\**.

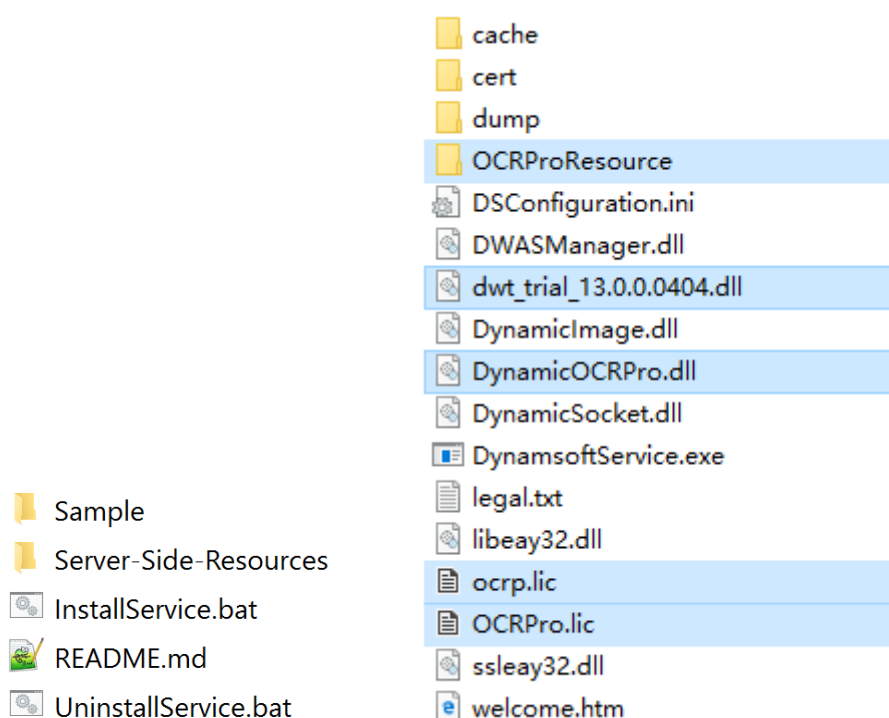


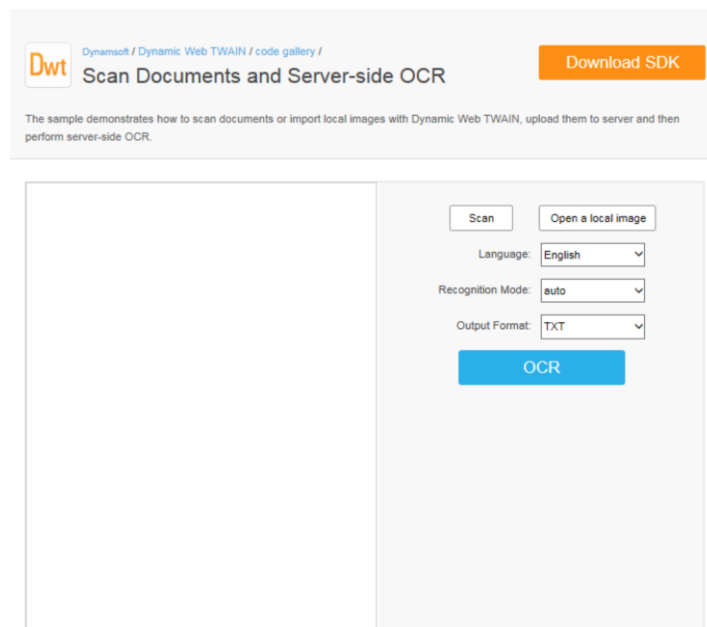
Figure 2 Demo structure

Figure 3 Resources for OCR Professional

3. If you have never installed Dynamsoft Service on the server
  - a. If you will be testing the demo app with Visual Studio, you can start by installing the OCR pro add-on by running **InstallService.bat** as Administrator
  - b. If you will be testing the demo app in a C#-enabled IIS or other web servers, you need to copy all the unzipped files in step 1 to a content directory configured in the web server and then run the file **InstallService.bat** as Administrator to install the OCR-pro add-on (service)

#### 4. [Testing the Demo App]

If you have Visual Studio installed, you can open the Demo application by the according solution file (.sln). If you have already configured a C#-enabled IIS or other web server, you can browse to the directory where you had previous deployed the demo files. The following image shows what you will see as the UI of the demo and where you can start testing the OCR functionalities.



*Figure 4 The UI for DWT OCR Professional Demo*

#### 5. [How it works]

Here is how the demo works:

- a. First of all, you load a local image/images or scan in an image or multiple images
- b. You configure the OCR by specifying the language and resulting format etc.
- c. When you hit the button “OCR”, the image(s) will be uploaded to the server as a multi-page PDF. The configuration for the OCR is also included as part of the HTTP request in the fields **OutputFormat** and **RequestBody**
- d. The server-side code written in C# in the file **SaveToOCR.aspx** does the following things
  - i. It receives the uploaded PDF and save it on the server’s disk

- ii. It updates the configuration for OCR with the correct file path and result format
- iii. It then sends a HTTP request (a JSON string) containing the OCR configuration to the OCR service we have previously installed. [More info on the request>>>](#)
- iv. Once the OCR service finishes the task, it sends back a HTTP response which contains information like the path of the result file. [More info on the response>>>](#)

Should you need any help with implementing the code into your own solution, please feel free to contact Dynamsoft Support team at **support [at] dynamsoft.com** or give us a call toll-free at **1-877-605-5491**.