# CipherLab
## User Guide

# OCR  Programming

Version 1.00

**CIPHER LAB**

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# Release Notes

| Version | Date | Notes |
|---------|------|-------|
| 1.00 | Jan. 3$^{rd}$, 2022 | · Initial release |

# Contents

## Call Text Recognition in your program

Example:

```
        final int REQUEST_TEXT_RECOGNITION = 1;
        Intent intent = new Intent("sw.programme.textrecognition.action.startOcr")

                .putExtra("WIDTH_PERCENT", 80)

                .putExtra("HEIGHT_PERCENT", 30)

                .putExtra("TXT_SIZE", 68)

                .putExtra("TXT_ALPHA", 200)

                .putExtra("USE_READER", true)

                .putExtra("ONE_STEP_RETURN", false);

        startActivityForResult(intent, REQUEST_TEXT_RECOGNITION);
```

Use Intent to call Text Recognition,

Action value of Intent: **"sw.programme.textrecognition.action.startOcr"**

Extra values of Intent: call Intent.putExtra to fill in the extra parameters

**Extra values introduction：**

| Extra name | Type | Description | Default | Note |
|---|---|---|---|---|
| DELIMITER | String | Delimiter between each OCR text block | \r\n | |
| TXT_ALPHA | int | On screen OCR text transparency | 255 | Range：0~255<br>Opaque：255<br>Full transparent (invisible)：0 |
| TXT_SIZE | int | On screen OCR text size | 68 | |
| WIDTH_PERCENT | int | On screen OCR recognition area in width percentage | 100 | Range：1~100 |
| HEIGHT_PERCENT | int | On screen OCR recognition area in height percentage | 100 | Range：1~100 |
| ORIENTATION | String | OCR recognition direction | Auto | Auto：auto rotate<br>Portrait：portrait mode<br>Landscape：landscape mode |
| USE_READER | boolean | Use reader as the image resource | false | true：use reader as the image resource<br>false：use camera as the image resource |
| ONE_STEP_RETURN | boolean | Decide to show the edit screen after take a OCR picture | false | true：show the edit screen after take a OCR picture<br>false：return the result directly after take a OCR picture |
| DRAW_OCR_WHEN_SAVE | boolean | Decide to draw the OCR text on the saved image file | true | true：the image file contains OCR text<br>false：the image file excludes OCR text |

While you have finish setup the calling Intent, call Android API `startActivityForResult` to bring up Text Recognition, the 2nd parameter of `startActivityForResult` `REQUEST_TEXT_RECOGNITION` is a value you can decide by yourself, it should be the same value in `onActivityResult` to receive values which returns from Text Recognition.

Example :

```java
String txt, img;

private final int REQUEST_TEXT_RECOGNITION = 1;

@Override

public void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {

    super.onActivityResult(requestCode, resultCode, data);


    if (requestCode == REQUEST_TEXT_RECOGNITION) {

        if(data != null) {

            txt= data.getStringExtra("DATA");

            img= data.getStringExtra("IMAGE_PATH");

        }

    }

}
```

Override `onActivityResult` method in your Activity,
The 2nd parameter `requestCode` should determine the same value of `REQUEST_TEXT_RECOGNITION` on the previous step to receive the OCR result from Text Recognition

To retrieve OCR results from `Intent data`:

OCR text string : `data.getStringExtra("DATA")`
OCR image file path : `data.getStringExtra("IMAGE_PATH")`