

# CipherLab User Guide

## OCR Programming

Version 1.00



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## Release Notes

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Version	Date	Notes
1.00	Jan. 3 <sup>rd</sup> , 2022	<ul style="list-style-type: none"><li>Initial release</li></ul>

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## 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

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## 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 Opaque : 255 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 Portrait : portrait mode Landscape : landscape mode
USE_READER	boolean	Use reader as the image resource	false	true : use reader as the image resource 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 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 false : the image file excludes OCR text

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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.

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## Receive OCR result

Example :

```
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



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To retrieve OCR results from Intent data:

OCR text string : `data.getStringExtra("DATA")`

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