

CipherLab

User Guide

ImageToText
for Android Mobile Computer

RS35

RS36

RK25

RK26

RK95

Version 1.0



Copyright © 2023 CIPHERLAB CO., LTD.

All rights reserved

The software contains proprietary information of its owner; it is provided under a license agreement containing restrictions on use and disclosure and is also protected by copyright law. Reverse engineering of the software is prohibited.

Due to continued product development, this information may change without notice. The information and intellectual property contained herein is confidential between the owner and the client and remains the exclusive property of the owner. If having any problems in the documentation, please report them to us in writing. The owner does not warrant that this document is error-free.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the owner.

For product consultancy and technical support, please contact the local sales representative. Also, visit our website for more information.

All brand, logo, product and service, and trademark names are the property of their registered owners.

Google, Google Play, Android and other marks are trademarks of Google Inc.

The editorial use of these names is for identification as well as to the benefit of the owners, with no intention of infringement.

CIPHERLAB logo is a registered trademark of CIPHERLAB CO., LTD. All other brands, products and services, and trademark names are the property of their registered owners. The editorial use of these names is for identification as well as to the benefit of the owners, with no intention of infringement.

CIPHERLAB CO., LTD.

Website: <http://www.CipherLab.com>

RELEASE NOTES

Version	Date	Notes
1.0	Oct. 5 th , 2023	Initial release

TABLE OF CONTENTS

RELEASE NOTES	3
TABLE OF CONTENTS.....	4
INTRODUCTION	5
Features.....	6
CHAPTER 1: SETUP	7
1.1 Installing ImageToText on Your Mobile Computer.....	8
1.1.1 Prerequisite.....	8
1.1.2 Installation	9
1.2 Launch Options.....	10
1.2.1 For Android 9 version	10
1.2.2 For Android 10 version.....	12
1.2.3 For Android 11 version.....	14
1.2.4 For Android 12 version.....	17
1.3 Setting Up Launch Keys	20
1.4 Key Location and Pressing for App Launch	21
1.5 License Information.....	22
CHAPTER 2: GETTING STARTED.....	23
2.1 Positioning the Text Cursor	24
2.2 User Interface Overview	26
2.2.1 Brightness/Contrast.....	27
2.2.2 Image Horizontal Flip Mode	28
2.2.3 Text Rule	29
2.2.4 Flashlight.....	30
2.2.5 Bounding Box Shortcut.....	31
2.2.6 Screen Orientation Lock.....	32
2.2.7 Settings	32
CHAPTER 3: SETTINGS.....	33
3.1 Action Mode	34
3.2 Language Recognition.....	40
3.3 Text Rule	41
3.4 Reader Camera Mode	43
3.5 Central Area Only	44
3.6 Turn on the Light at Startup (Camera Only)	46
3.7 Scan Key	47
3.8 Quick Box Switching	48
3.9 Manual Focus Position	49
3.10 Save Photo	50
3.11 Remove Blank Characters	52
3.12 Image Horizontal Flip Mode	53
3.13 Dot Matrix Text.....	54
3.14 Image Size.....	55
3.15 Sound Effect	55
3.16 Ask Before Exiting the App.....	56

INTRODUCTION

This manual provides a detailed introduction of **ImageToText**'s setup and usage.

ImageToText is an advanced software application that transforms scanned documents and images into editable and searchable text. It does not only streamline data digitization processes, but automates tasks for increased efficiency and accessibility.

In the chapters that follow, this guide will delve into the intricacies of ImageToText, exploring its features and capabilities.

For ImageToText License consultation, please [contact the local sales representative](#).

Thank you for choosing CipherLab products.

FEATURES

- **Support CipherLab mobile computers:**
 - RS35 Mobile Computer (Android 10 & Android 11)
 - RS36 Mobile Computer (Android 12)
 - RK25 Mobile Computer (Android 7 & Android 9)
 - RK26 Mobile Computer (Android 12)
 - RK95 Mobile Computer (Android 9 & Android 12)

- **Smart Text Extraction**

Effortlessly capture text in defined regions at once using filter rules.
- **Capture with Code Reader or Camera**

Quickly switch to capture text according to different usage demands.
- **High Accuracy in Recognition**

Work well in low light conditions and rainy days.
- **Multi-Language Reading Support**

Easily extract multilingual text and data with precision.
- **Easy Deployment and Integration**

Enable keyboard emulation and API to integrate with the existing systems.
- **Simple and Easy Installation and Activation**

An intuitive user interface that enables easy navigation through system features.

Chapter 1

CHAPTER 1: SETUP

This chapter covers the setup and installation process for ImageToText, as well as the compatible devices, including the required Android version, code readers, and cameras, to ensure proper functionality.

IN THIS CHAPTER

- 1.1 Installing ImageToText on Your Mobile Computer..... 8
- 1.2 Launch Options..... 10
- 1.3 Setting Up Launch Keys 20
- 1.4 Key Location and Pressing for App Launch..... 21
- 1.5 License Information..... 22

1.1 INSTALLING IMAGETOTEXT ON YOUR MOBILE COMPUTER

1.1.1 PREREQUISITE

Before downloading and installing ImageToText, please review the lists below to ensure that your device is compatible.

ImageToText Supported Devices that Scan with the Code Reader		
Model	Android Version	Code Reader
RS35	Android 10	SE4100, SE4770
RS36	Android 12	SE4770
RK95	Android 9	SE4750SR (with non-camera version only)

ImageToText Supported Devices that Scan with the Camera	
Model	Android Version
RS35	Android 10 or later
RS36	Android 12
RK25	Android 9 or later
RK26	Android 12
RK95	Android 9 or later

If your device is not listed, it may either not be compatible with ImageToText or it could be a recently released model.

If you need additional information regarding your device's compatibility with ImageToText, please contact [CipherLab Support](mailto:Support@cipherlab.com): Support@cipherlab.com

Note:

(1) To find the information about the model and Android version on your mobile computer,

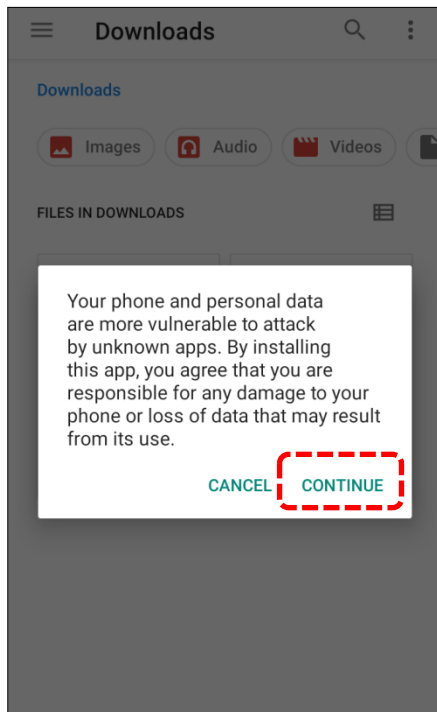
Access **Settings** > **About phone**

(2) To find the information about your mobile computer's code reader,

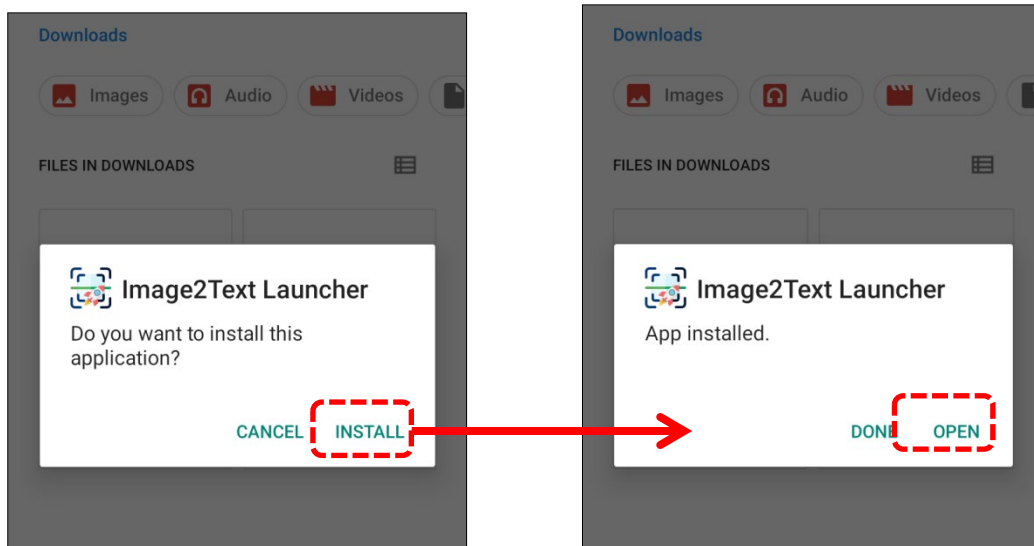
Access **ReaderConfig** > Click **⋮** > **About**

1.1.2 INSTALLATION

- 1) Contact your [local sales representative](#) for the installation files, including "Image2TextLauncher.apk" and "ImageToText.apk."
- 2) Download and install both files on your mobile computer.
- 3) If prompted, tap on "CONTINUE".



- 4) If you're asked, "Do you want to install this application?", tap on "INSTALL" and then tap on "Open".

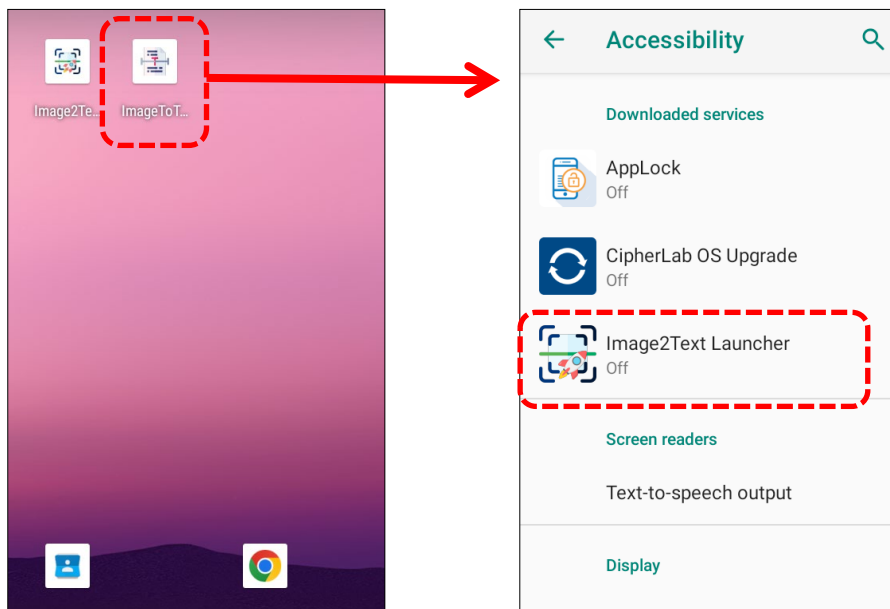


1.2 LAUNCH OPTIONS

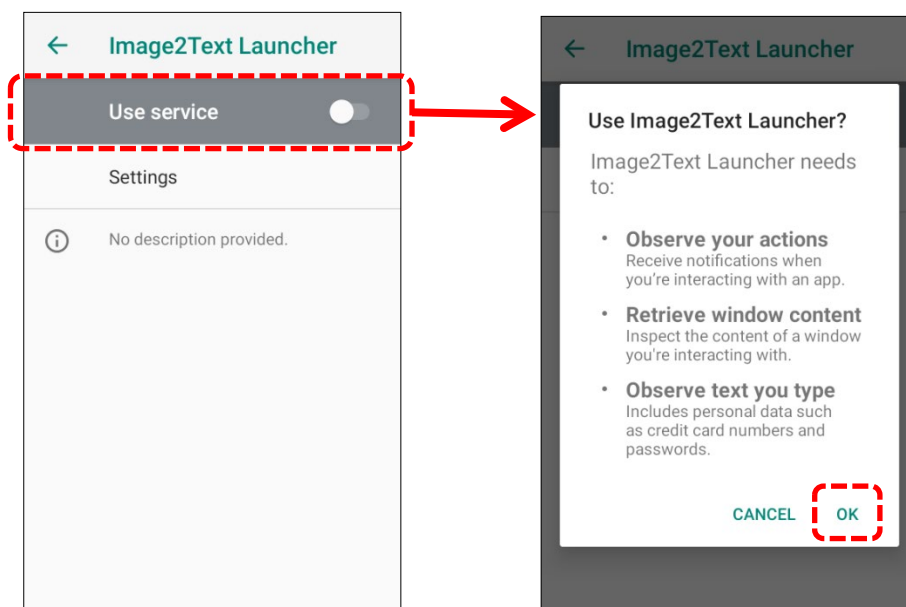
Launch options in “**Image2Text Launcher**” are used to optimize ImageToText and enhance the user experience before running it. The following descriptions provide step-by-step instructions for setting up the launcher on various Android versions.

1.2.1 FOR ANDROID 9 VERSION

- 1) Open the “**Image2Text Launcher**” and you will be redirected to the “**Accessibility**” setting page.
- 2) Tap on “**Image2Text Launcher**”.

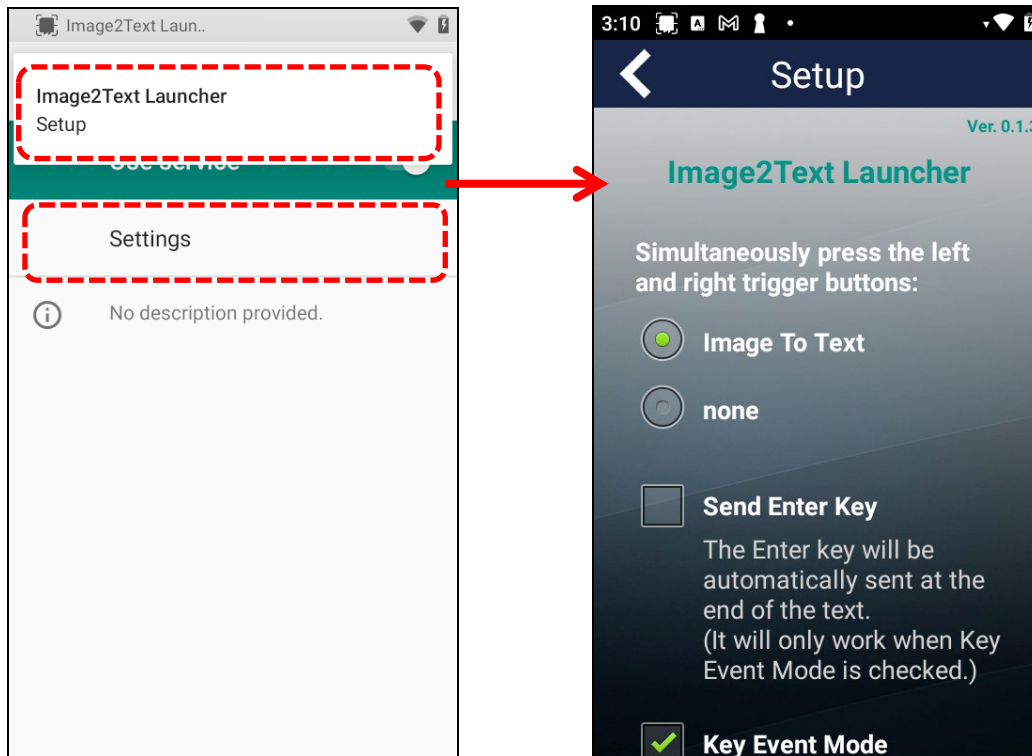


- 3) Tap on “**Use service**” and then tap “**OK**” to grant access to “**Image2Text Launcher**”.



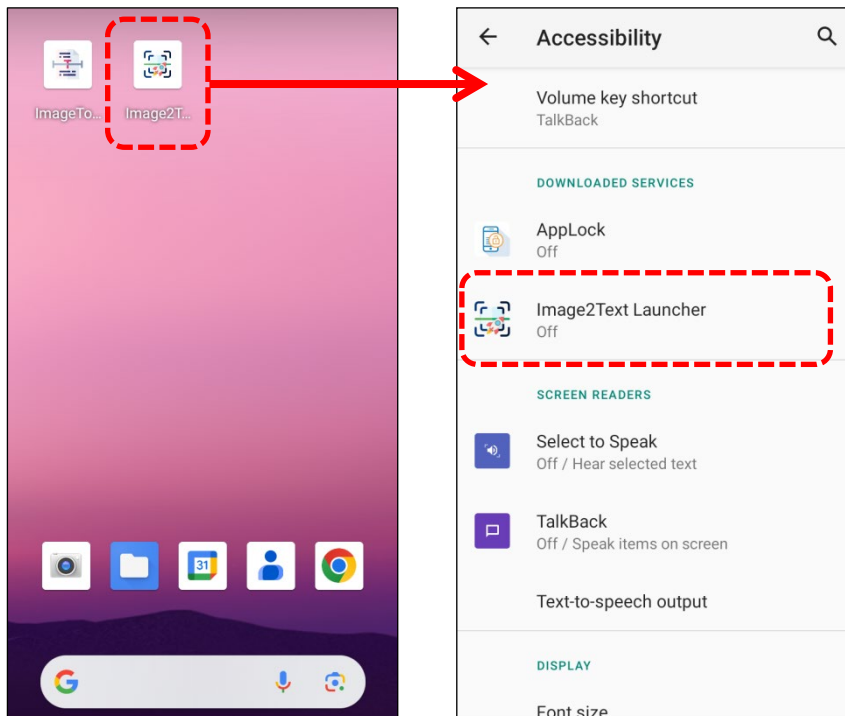
Once the popup notification appears, you are able to [initiate ImageToText with buttons](#) configured in the launcher.

- 4) Tap on “**Settings**” or the popup notification to enter “**Setup**” page within “**Image2Text Launcher**” to complete the settings.

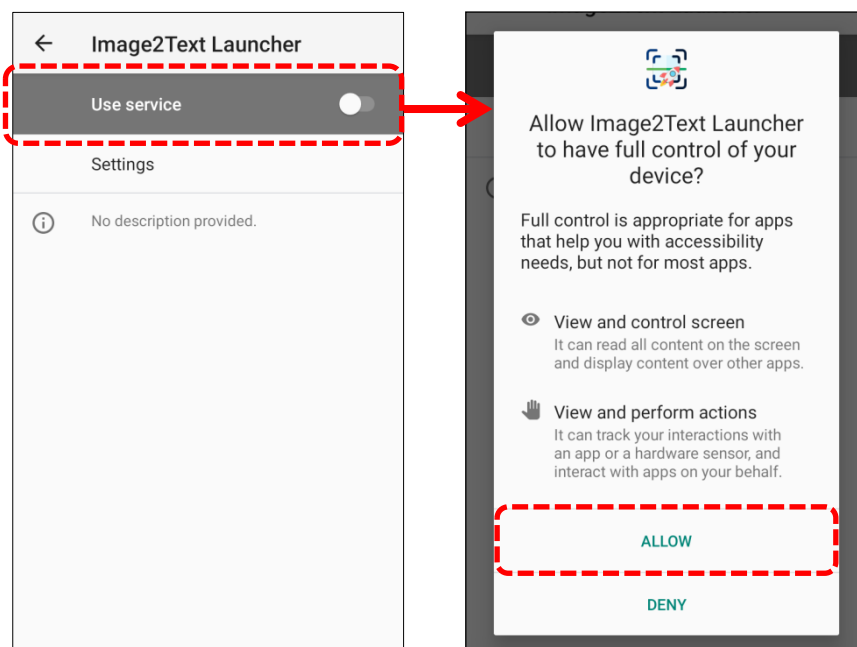


1.2.2 FOR ANDROID 10 VERSION

- 1) Open the “Image2Text Launcher” and you will be redirected to the “Accessibility” setting page.
- 2) Tap on “Image2Text Launcher”.

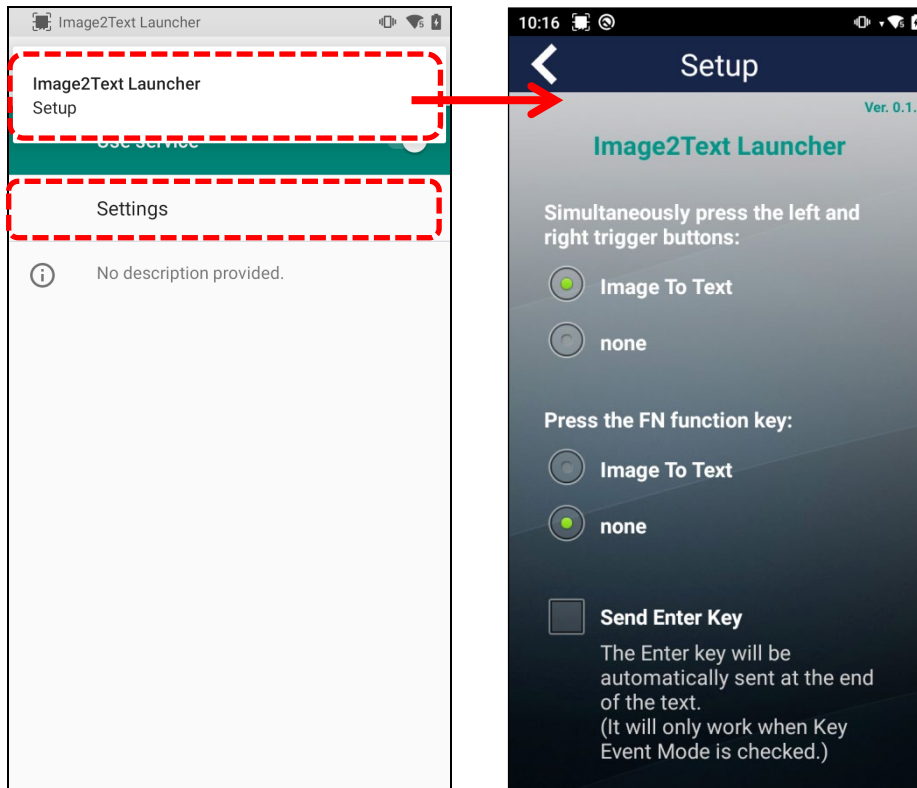


- 3) Tap on “Use service” and proceed to select “**ALLOW**” when asked “Allow Image2Text Launcher to have full control of your device?”.



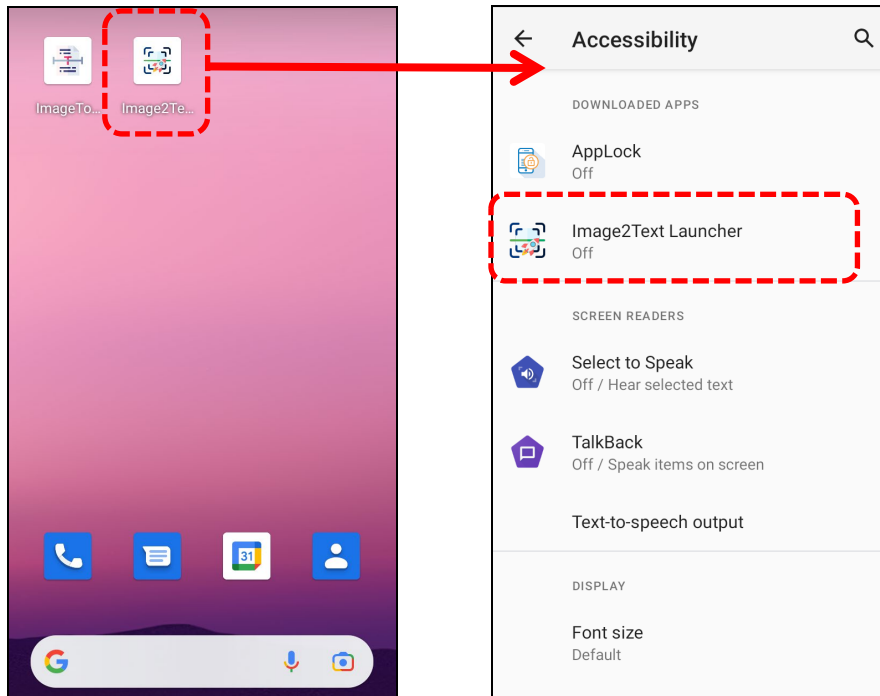
Once the popup notification appears, you are able to [initiate ImageToText with buttons](#) configured in the launcher.

- 4) Tap on **"Settings"** or the popup notification to enter **"Setup"** page within **"Image2Text Launcher"** to complete the settings.

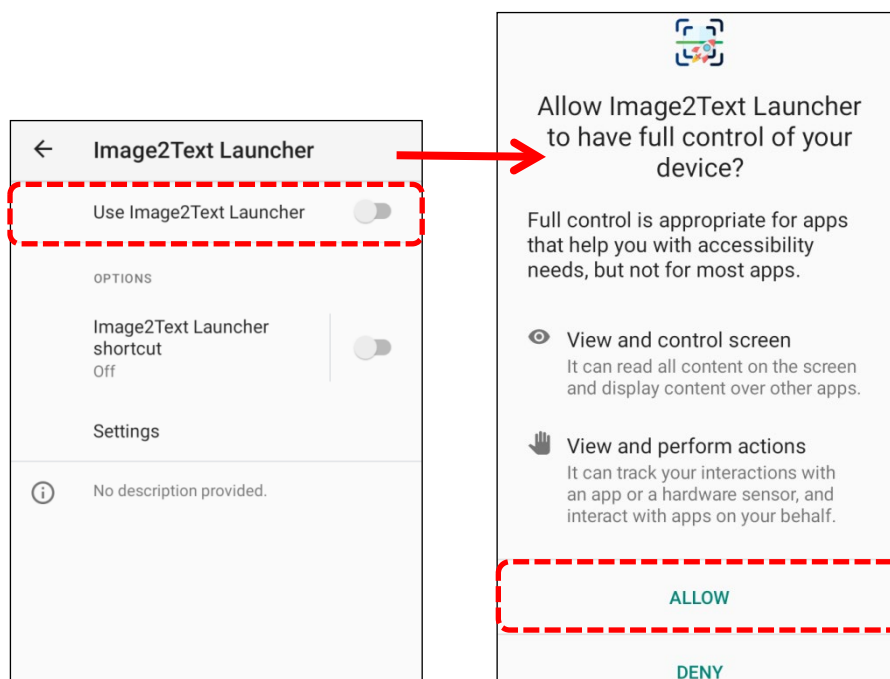


1.2.3 FOR ANDROID 11 VERSION

- 1) Open the “Image2Text Launcher” and you will be redirected to the “Accessibility” setting page.
- 2) Tap on “Image2Text Launcher”.

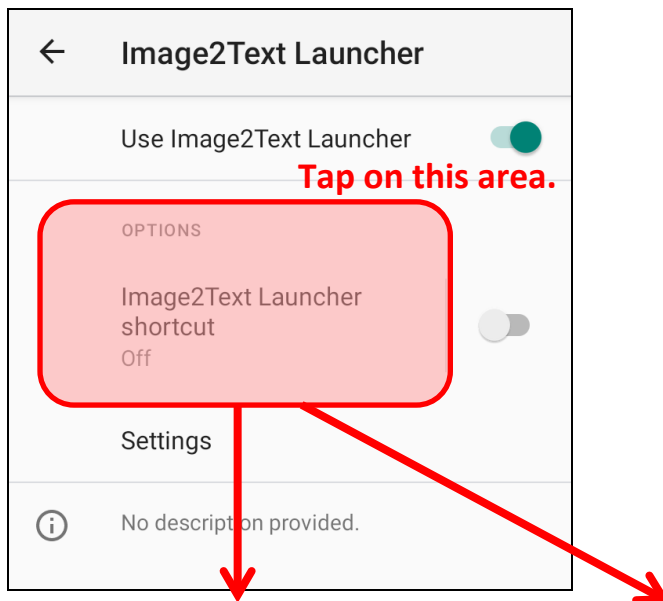



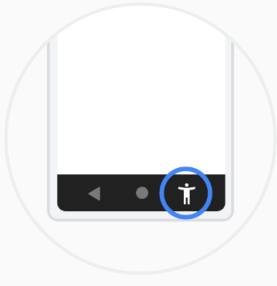
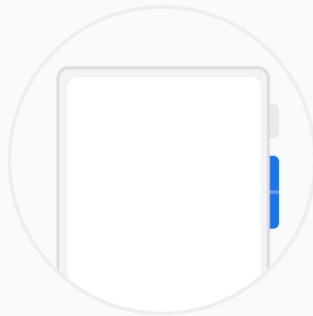

- 3) Tap on “Image2Text Launcher” and proceed to select “ALLOW” when asked “Allow Image2Text Launcher to have full control of your device?”.




- 4) Tap **"Image2Text Launcher shortcut"** (not the toggle button) to open the settings.

Choose from the two options to quickly enable or disable **"Image2Text Launcher"** based on your selection.

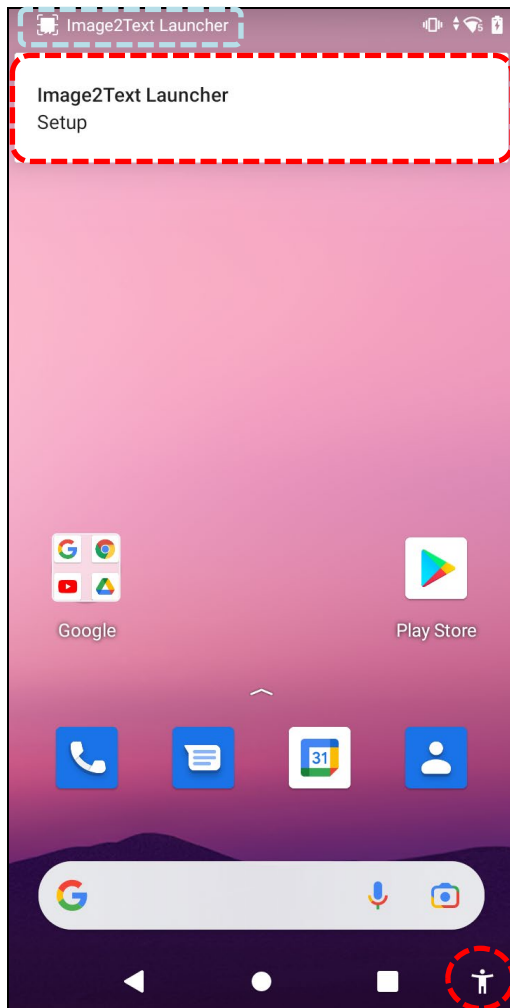


(Option 1 : Tap accessibility button)	(Option 2 : Hold volume keys)
<div data-bbox="252 1099 730 1615"> <input type="checkbox"/> Tap accessibility button Tap the accessibility button  at the bottom of your screen. To switch between features, touch & hold the accessibility button.  </div>	<div data-bbox="850 1106 1390 1608"> <input type="checkbox"/> Hold volume keys Press & hold both volume keys  </div>
<p>With this option selected, the accessibility icon  will appear at the bottom right corner of your screen. Tapping on this icon allows you to easily toggle the "Image2Text Launcher" on or off.</p>	<p>With this option selected, you can quickly turn on or off the "Image2Text Launcher" by pressing and holding the both volume keys for approximately 5 seconds.</p>

After the “**Image2Text Launcher shortcut**” is set, you are ready to turn on or off the launcher by pressing and holding the shortcut keys:

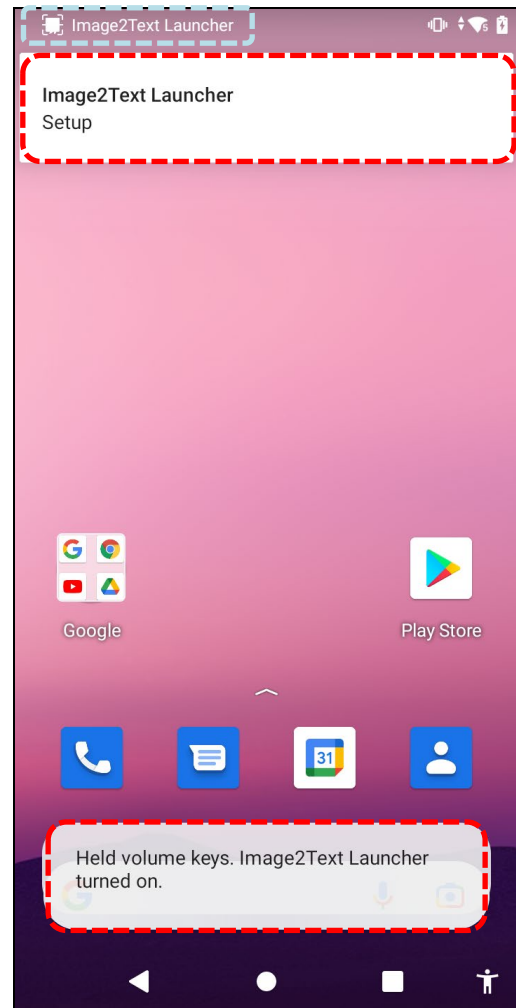
With “**accessibility button**” enabled, tapping  in the corner of the screen will prompt the launcher to turn on or off. Alternatively, with “**volume keys**” enabled, you can also turn on or off the launcher by pressing them.


Initiate Launcher with Accessibility Button



Tap and hold the icon.

Initiate Launcher with Volume Keys



Once the launcher is turned on, a notification appears on the screen, and an icon  will appear on the upper left corner of the screen.

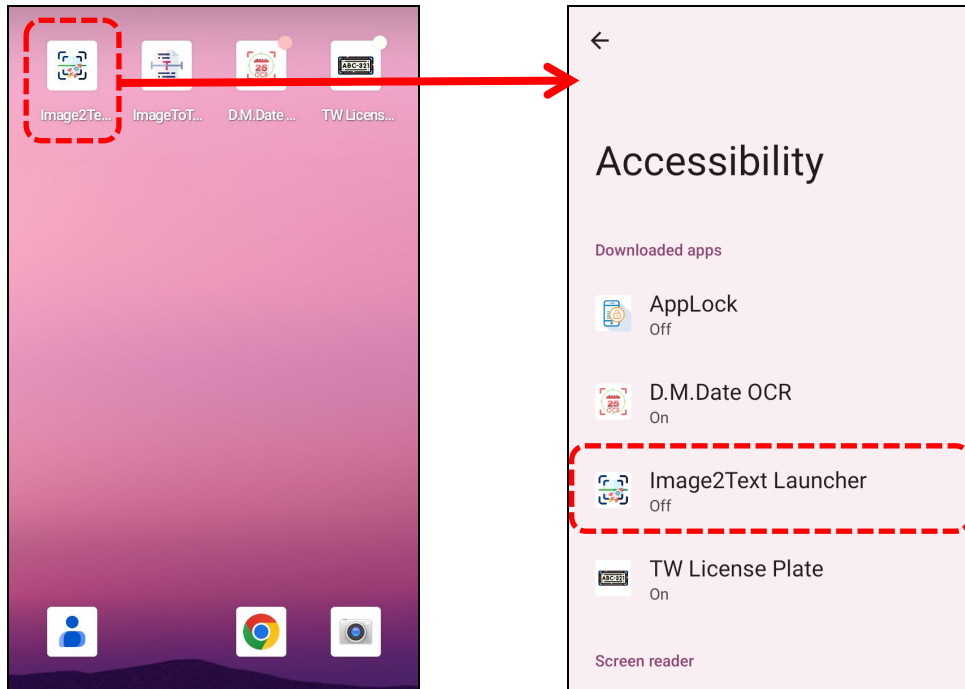
5) [Press the trigger buttons or the FN function](#) key to initiate **ImageToText**.

OR

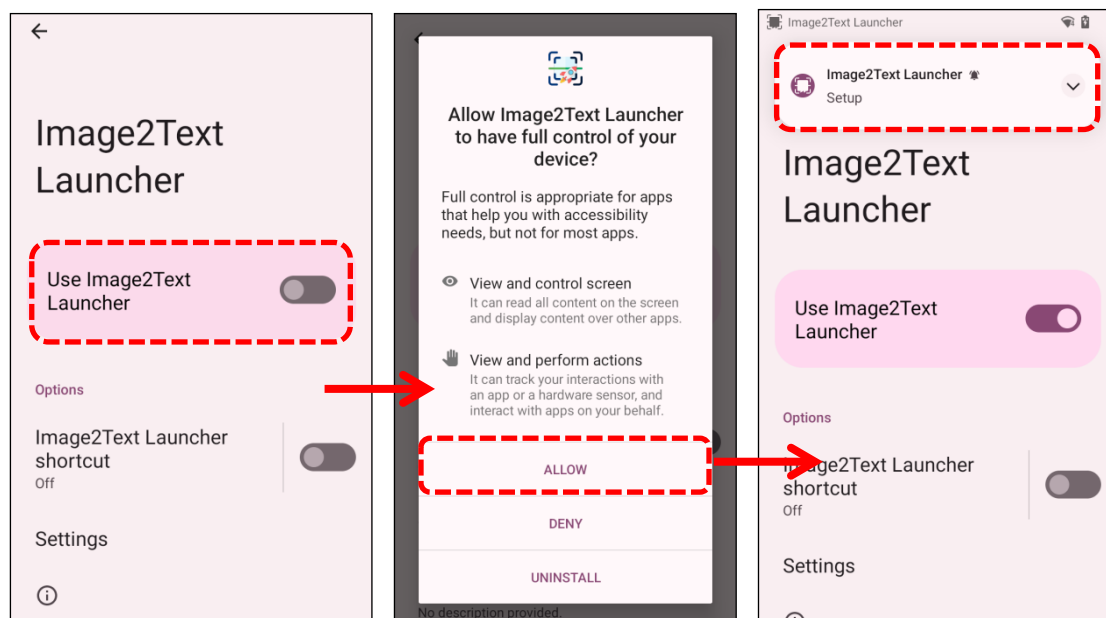
Tap on the notification and you will be guided to the **Setup** page within “**Image2Text Launcher**” to change the settings.

1.2.4 FOR ANDROID 12 VERSION

- 1) Open the "Image2Text Launcher" and you will be redirected to the "Accessibility" setting page.
- 2) Tap on "Image2Text Launcher".

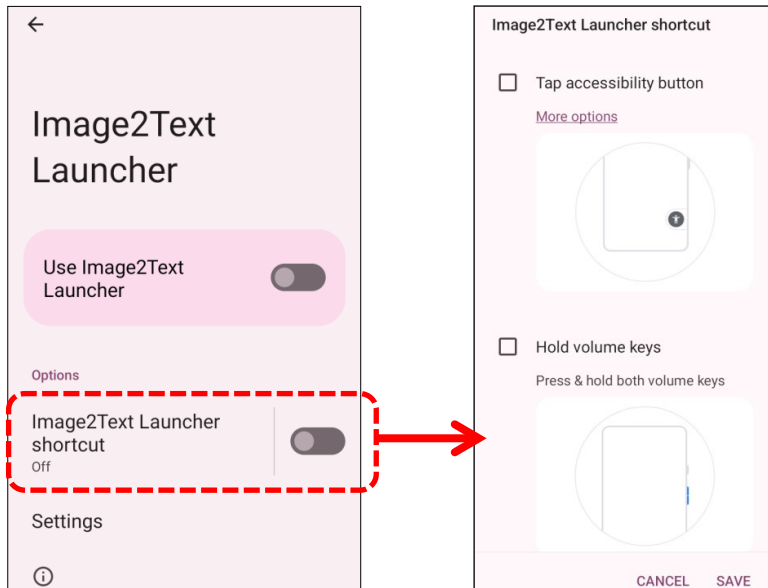


- 3) Tap on "Use Image2Text Launcher" and proceed to select "ALLOW" when asked "Allow Image2Text Launcher to have full control of your device?". You will now be directed to the "Setup" page of the launcher.

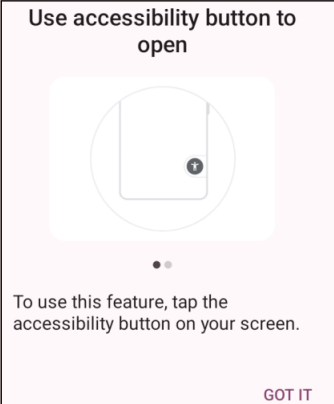
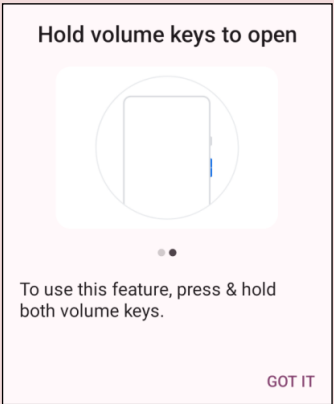



To configure “**Image2Text Launcher shortcut**” settings:


- 1) Tap on “**Image2Text Launcher shortcut**”.
- 2) Select the desired button(s) as shortcut to initiate **Image2Text Launcher**, and tap “**SAVE**”.



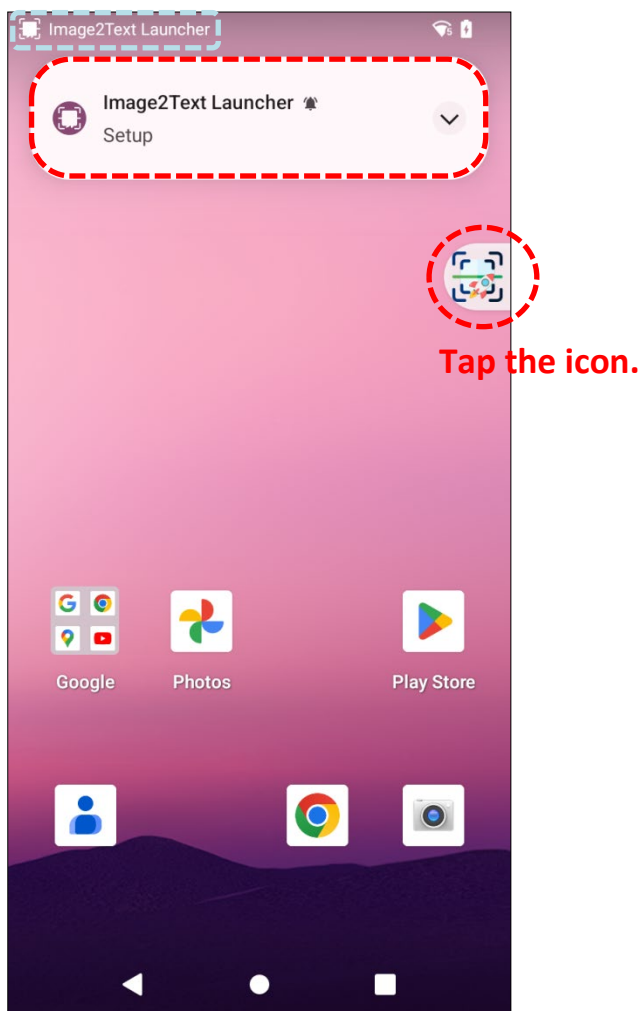
The two options are “**accessibility button**” and “**volume keys**”, shown in the following table.

(Option 1 : Tap accessibility button)	(Option 2 : Hold volume keys)
	
<p>With this option selected, the accessibility icon  will appear at the side of your screen. Tapping on it allows you to easily toggle the “Image2Text Launcher” on or off.</p>	<p>With this option selected, you can easily toggle the “Image2Text Launcher” on or off by pressing and holding the both volume keys for approximately 5 seconds.</p>

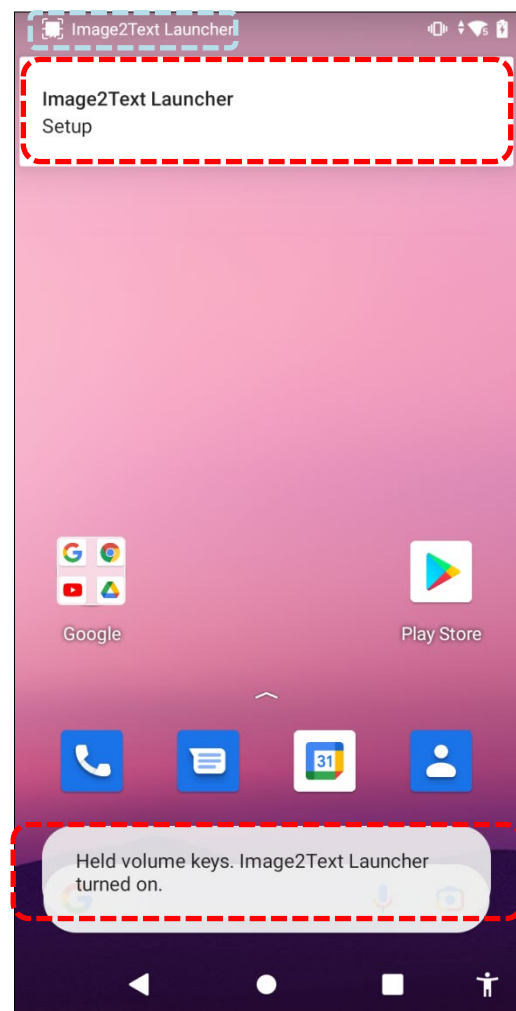
After the “**Image2Text Launcher shortcut**” is set, you are ready to turn on or off the launcher by pressing and holding the shortcut keys:


With “**accessibility button**” enabled, tapping  will prompt the launcher to turn on or off. Alternatively, with “**volume keys**” enabled, you can also turn on or off the launcher by pressing them.

Initiate Launcher with Accessibility Button



Initiate Launcher with Volume Keys



Once the launcher is turned on, a notification appears on the screen. , and an icon  will appear on the upper left corner of the screen.

6) [Press the trigger buttons or the FN function key](#) to initiate “**ImageToText**”.

OR

Tap on the notification and you will be guide to the **Setup** page within “**Image2Text Launcher**” to change the settings.

1.3 SETTING UP LAUNCH KEYS

On the “**Setup**” page, select your preferred keys as trigger buttons to initiate ImageToText:

Select “ImageToText” to quickly launch the App by pressing both trigger buttons at the same time.

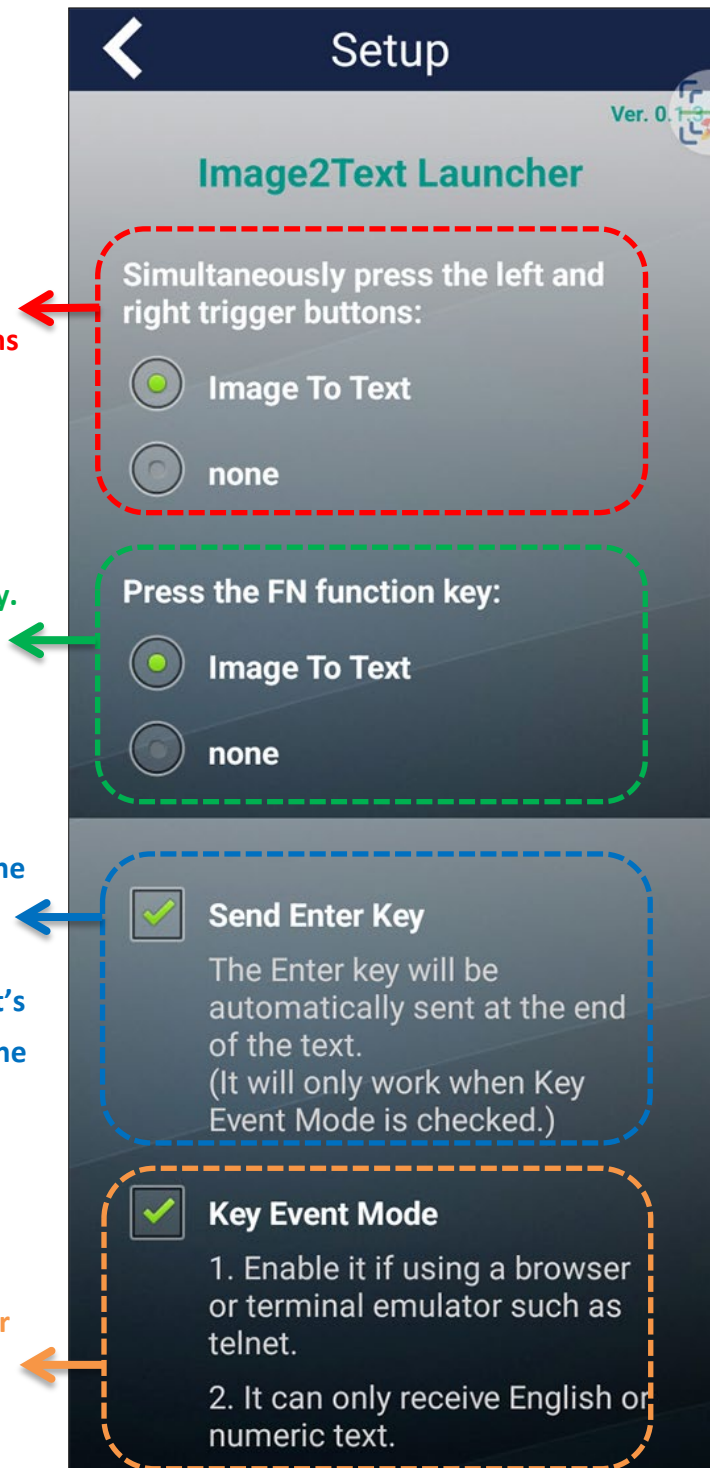
Select “ImageToText” to quickly launch the App by pressing the FN function key.

Select “Send Enter Key” is allowed, the function of enter key will be automatically executed after sending the ImageToText’s results.

Namely, after sending the ImageToText’s results, the text cursor will be sent to the next line, or a certain command will be executed, such as searching and submitting.

This mode allows you to send the ImageToText’s results to the browser or terminal emulator.

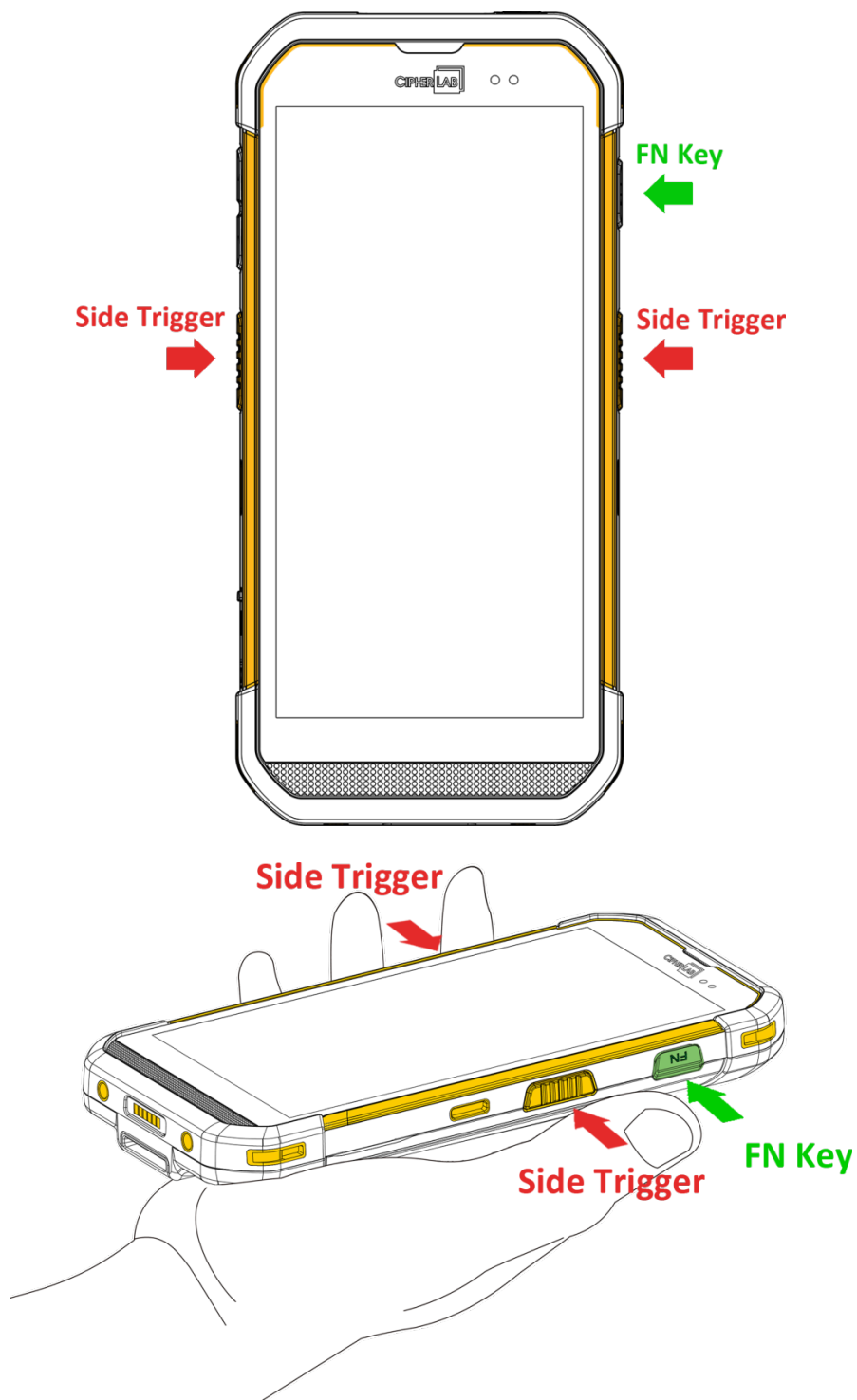
Note that ImageToText will only work with English text and digits for this mode.



1.4 KEY LOCATION AND PRESSING FOR APP LAUNCH

After configuring the launcher options, you can launch ImageToText using the specified keys. The images below illustrate the key positions and the corresponding key presses.

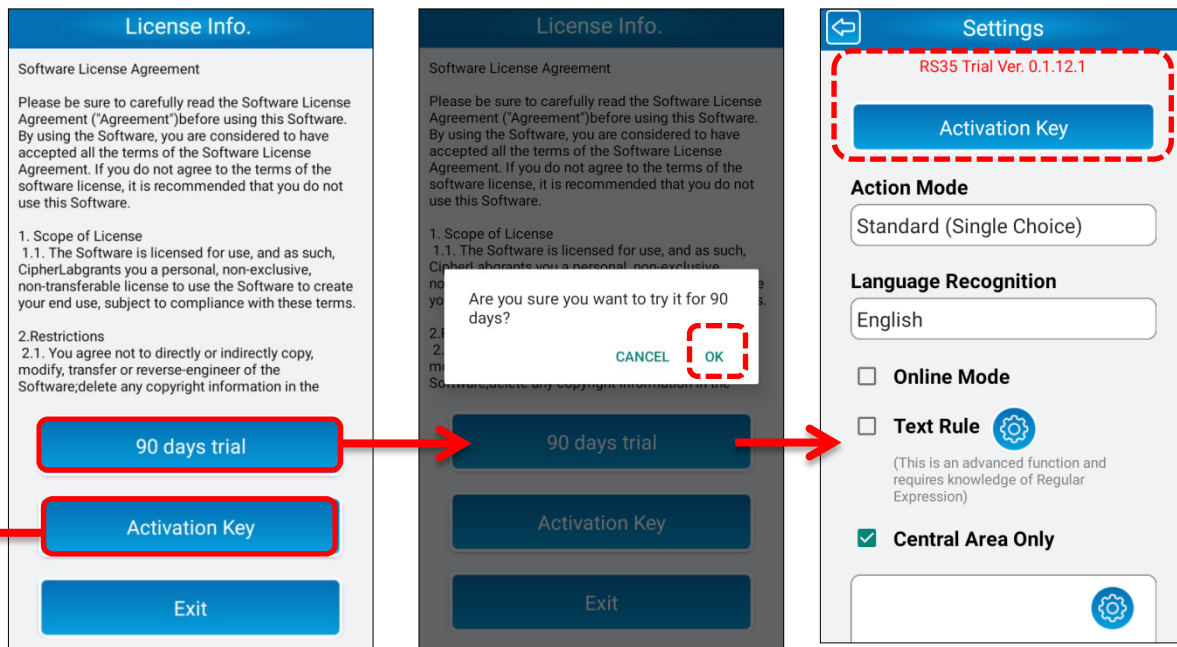
Press the left and right trigger buttons at the same time or press the FN function key to launch ImageToText according to your configuration.



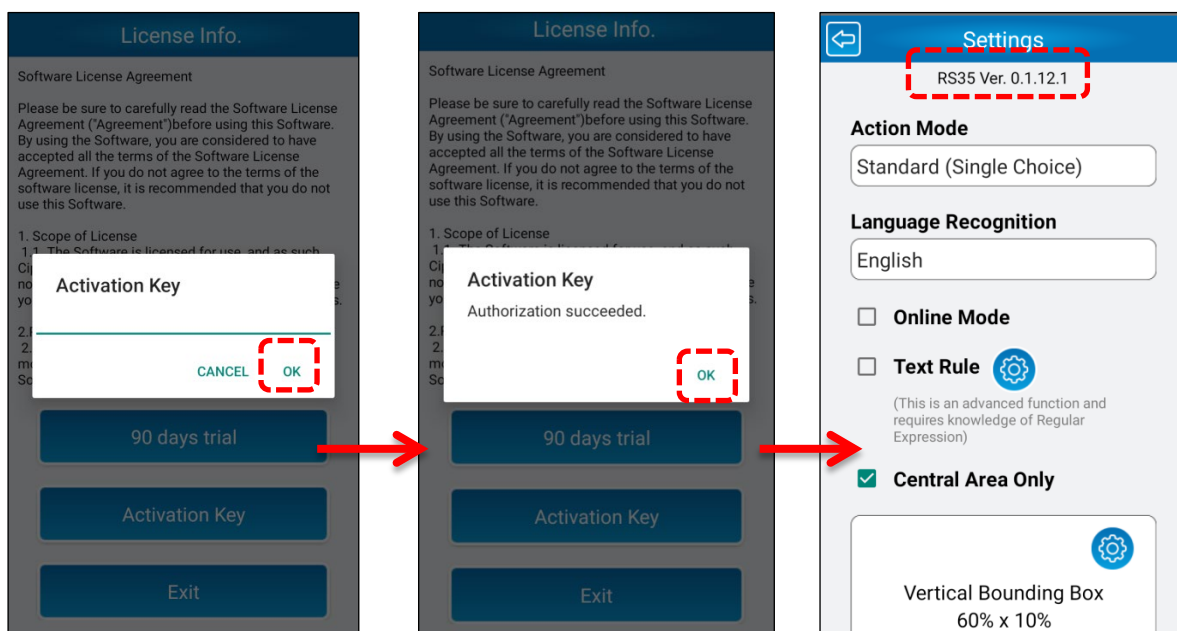
1.5 LICENSE INFORMATION

Begin your project with a 90-day ImageToText free trial. Simply go through the Software License Agreement and you can access full functionality of ImageToText during this trial period. To inquire about ImageToText licensing, please contact [the local sales representative](#) for purchasing an Activation Key.

Start with a 90-Day Trial



Start with an Activation Key



Chapter 2

CHAPTER 2: GETTING STARTED

This chapter provides an overview of the primary user interface of ImageToText.

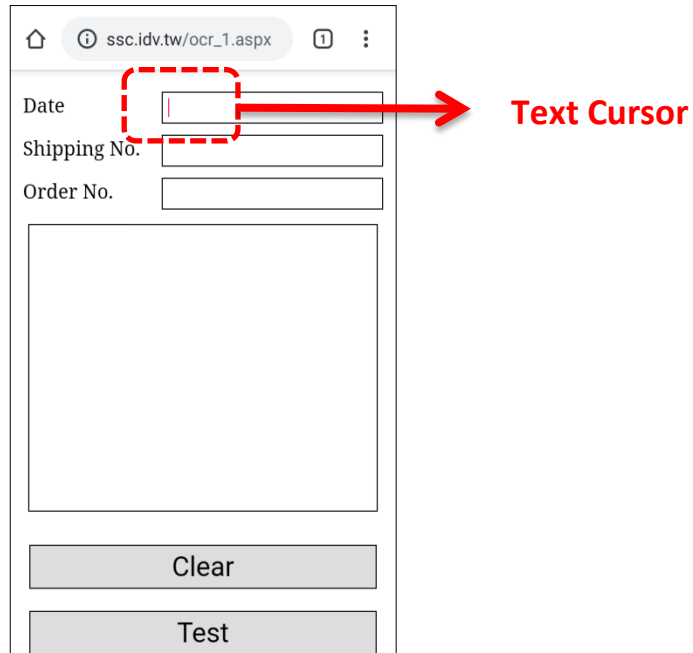
IN THIS CHAPTER

2.1 Positioning the Text Cursor	24
2.2 User Interface Overview	26

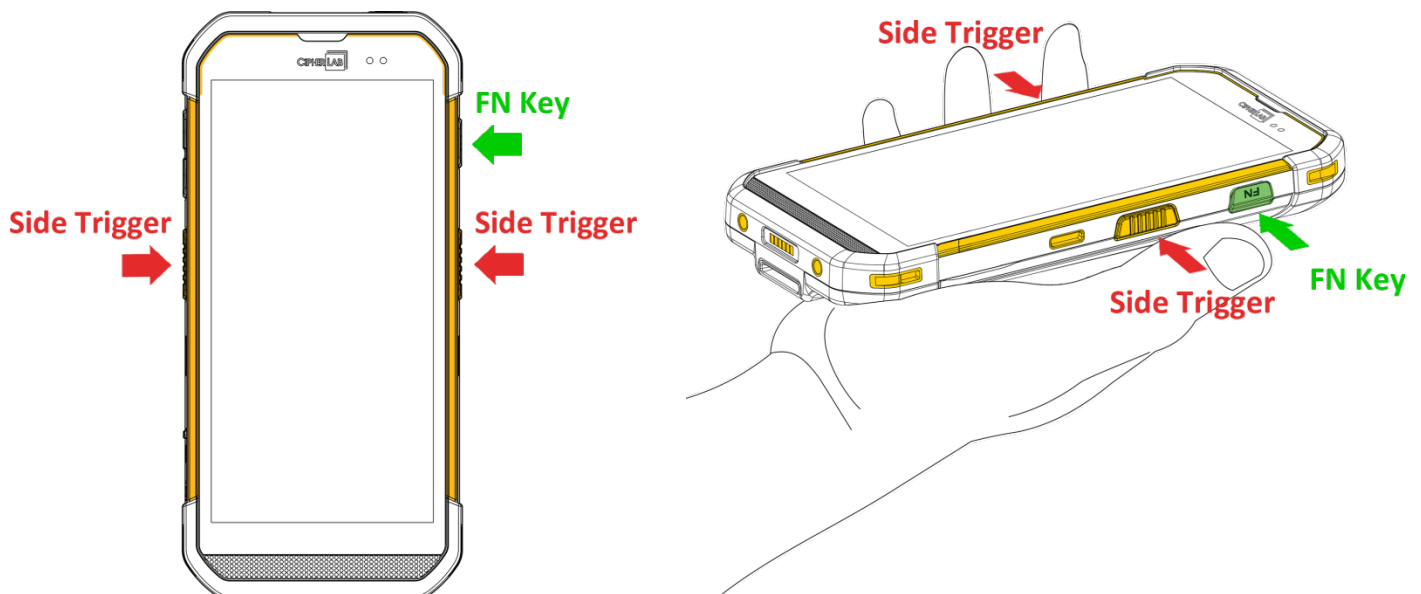
2.1 POSITIONING THE TEXT CURSOR


After configuring the launch options, you can initiate ImageToText by pressing the pre-configured trigger button. For improved convenience in tasks such as data entry and text extraction, please follow the following steps:

- 1) Open the relevant App/Website where you intend to input text and place the text cursor in the designated input field.

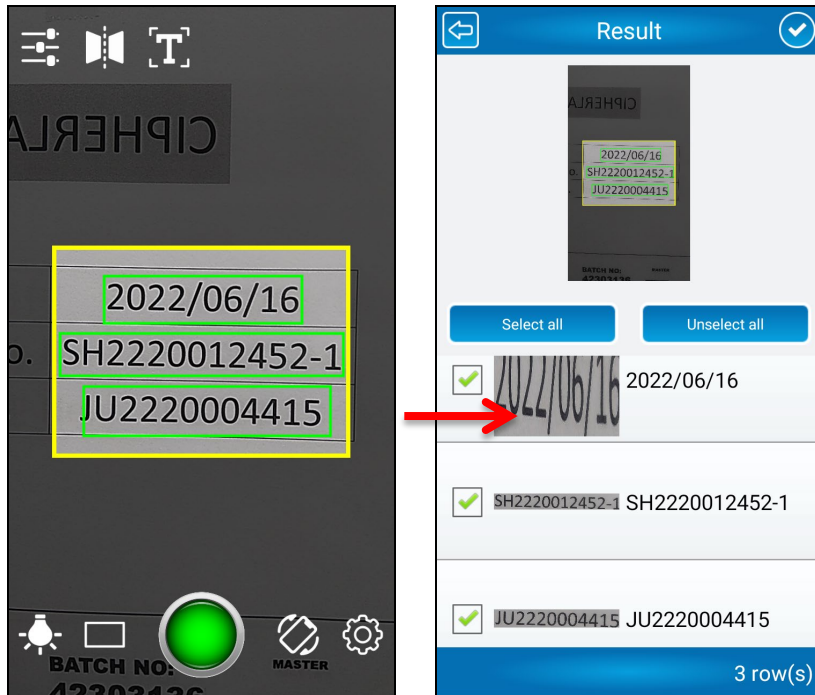


- 2) Activate ImageToText using your pre-configured trigger button.



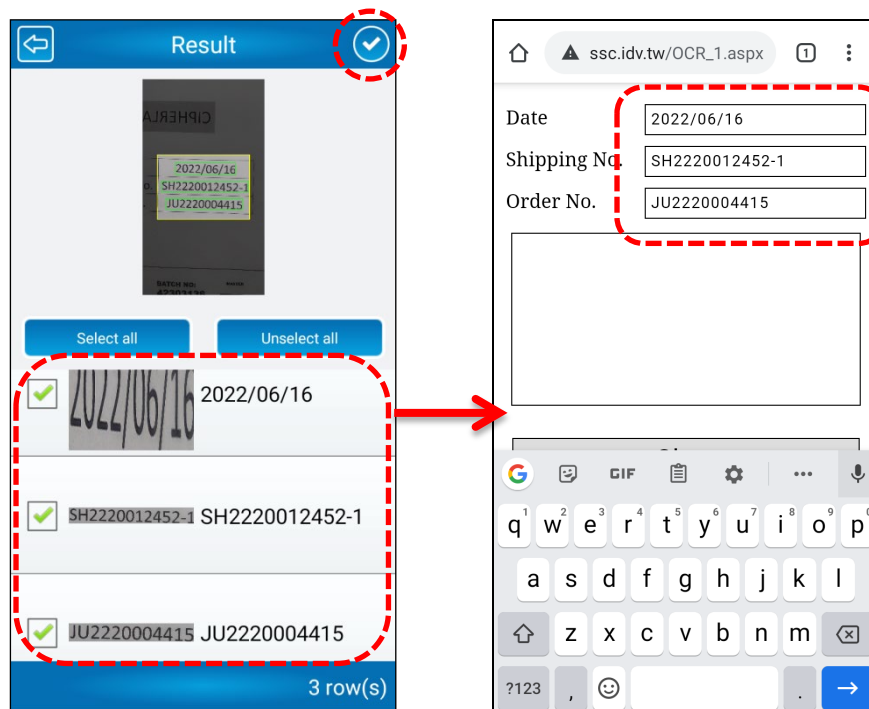
- 3) Aim the camera/reader to the desired texts and tap the shutter button  to capture the image.

After capturing the image, the recognized texts will be listed on the result page.



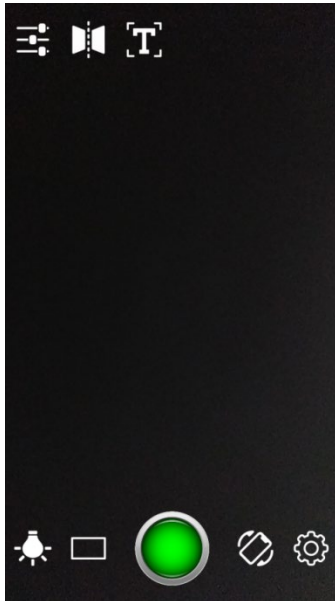
- 4) Select the desired texts and then tap on .











As shown in the following screenshot, the text will be automatically extracted and placed to the previously selected input field.



2.2 USER INTERFACE OVERVIEW


The screenshot below presents the main user interface within ImageToText. The on-screen icons provide quick access to various actions, which are described in the following table.






Icon	Item	Description
	Brightness/Contrast	To adjust brightness and contrast by tapping the  and  icons or dragging the sliders.
	Image Horizontal Flip Mode	To enable reading and recognizing horizontally reversed text.
	Text Rule	To identify and capture text that follows a particular structure based on Regular Expression.
	Flashlight	To enhance visibility and accuracy when scanning in low-light environment.
	Bounding Box Shortcut	To quickly select or set up a customized bounding boxes.
	Shutter Button	To serve as a trigger for initiating the scanning or image-capturing process.
	Screen Orientation Lock	To fix the screen's orientation to either portrait or landscape mode.
	Settings	To configure and adjust the device's overall settings. Please refer to Settings for more details.

2.2.1 BRIGHTNESS/CONTRAST

The Brightness/Contrast functions improve image quality and appearance. Increasing brightness helps in low-light conditions, while adjusting contrast enhances text legibility.

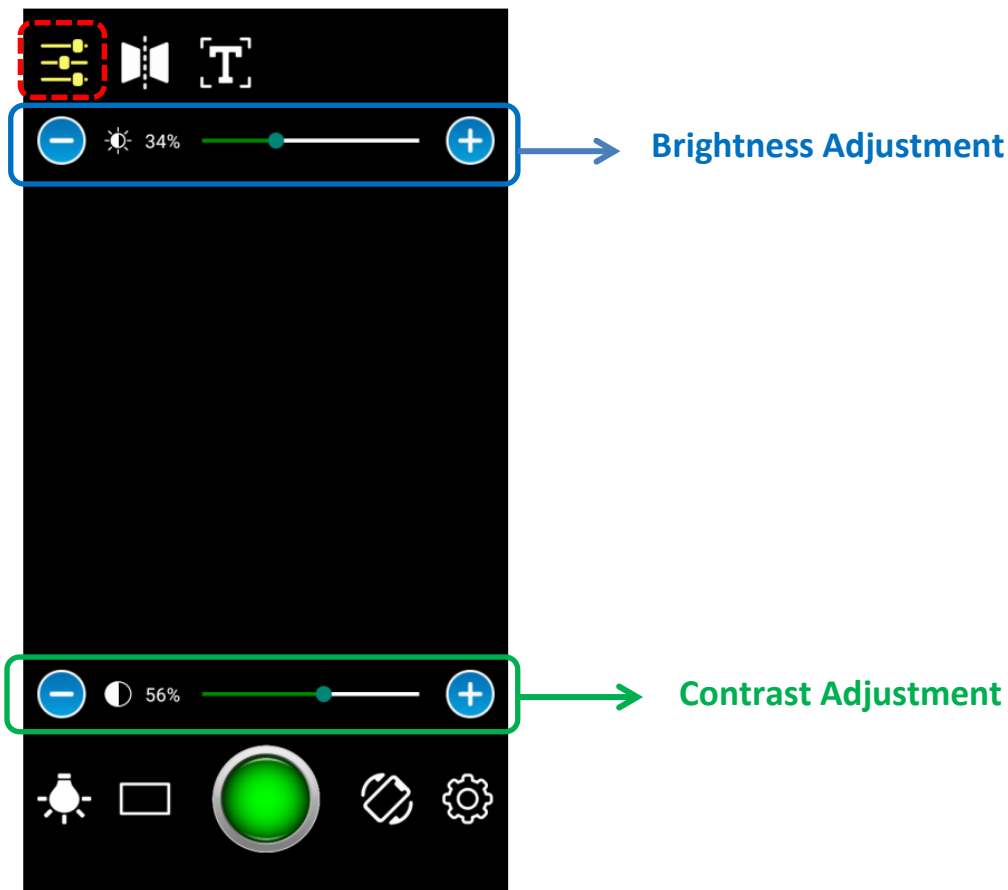
1) First tap the Brightness/Contrast icon  to bring up the sliders.

The upper panel allows you to adjust brightness, and the lower panel for contrast adjustment.


2) Tap the  and  icons or slide the respective control  to achieve your desired image capture conditions.


3) Tap the shutter button  to capture the image.

Brightness/Contrast: On

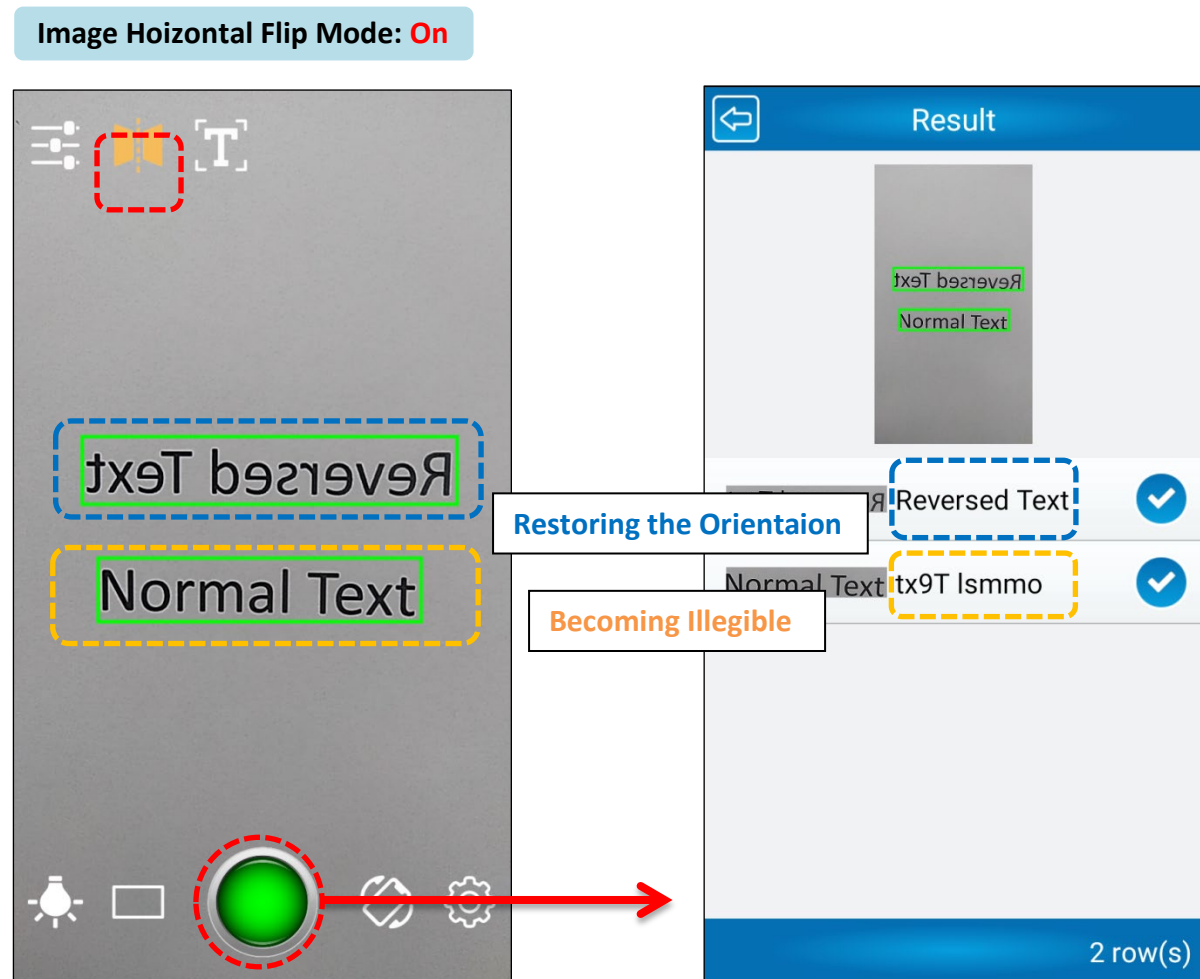


2.2.2 IMAGE HORIZONTAL FLIP MODE

When capturing images with reversed text or horizontally flipped words, tap to enable **Image Horizontal Flip Mode** icon .

- 1) Aim the camera or the reader at the target text.
- 2) Tap the shutter button  to capture the image.

The result page will then appear, automatically restoring the reversed text or flipped words to their regular orientation, as demonstrated in the following pictures.









Note:

Normal text may be illegible or incorrectly recognized with Image Horizontal Flip Mode enabled.

2.2.3 TEXT RULE

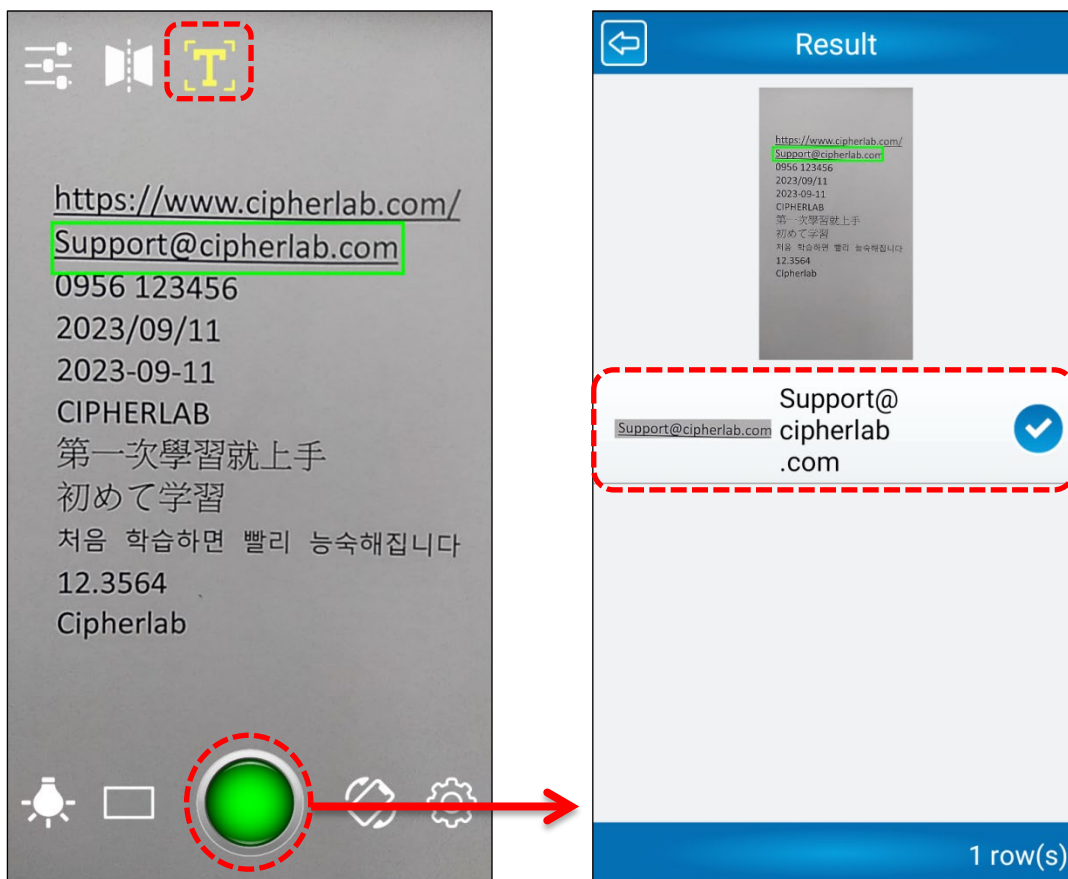
The **"Text Rule"** feature allows you to extract specific information by using filter criteria based on Regular Expressions.

We provide nine predefined filter templates, including Date, Time, Number, Uppercase Character, and more, to make it easier to capture the data you need.

- 1) Tap on **Settings**  | **Text Rule** | 
- 2) Select the desired filter in the settings, for example, **"E-mail"**  08.E-Mail.
- 3) Tap on  twice to return to the camera/reader page.
- 4) Tap the icon  to enable Text Rule.
- 5) Aim the camera or the reader at the target text and tap the shutter button .


The result page will then appear, automatically presents the captured information, as demonstrated in the following pictures.

Text Rule: On (Filter: "E-Mail")



2.2.4 FLASHLIGHT

Flashlight provides additional lighting to ensure improved image quality in low-light conditions.








Tap the flashlight icon  to enhance visibility during image captureing.

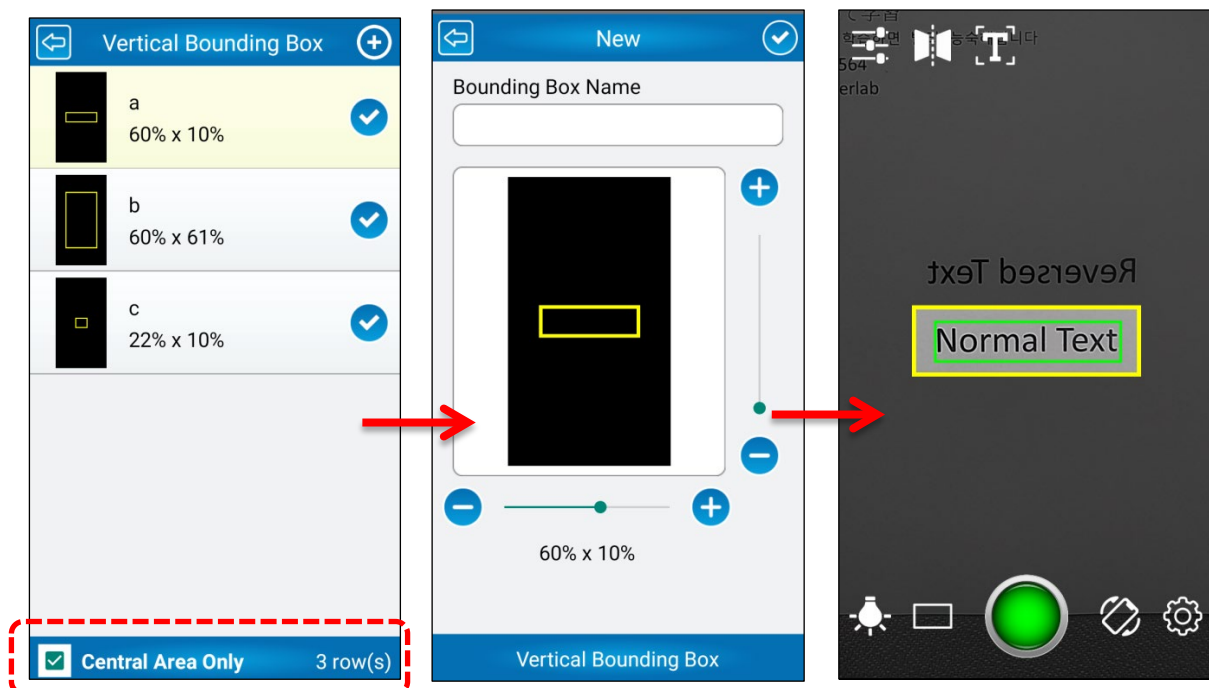
The following pictures illustrate the difference between capturing an image in a low-light condition with and without a flashlight.



2.2.5 BOUNDING BOX SHORTCUT

Different sizes of bounding boxes are designed to accommodate a diverse range of text sizes and layouts. To accurately capture the text or filter out irrelevant information, select a customized bounding box that suits your needs.

- 1) Tap on the Bounding Box Shortcut icon . This action will bring up either a Vertical Bounding Box page or a Horizontal Bounding Box page based on your screen orientation.
- 2) Tap the  icon to select a bounding box that you have customized previously, or tap the  icon in the upper-right corner to add a new one. Adjust the sizes of the box by tapping  and  icons or dragging the respective control .
- 3) Tap  to select your desired bounding box, and you will be guided to the main page to start capturing information with the selected bounding box.





Note:

Ensure you check "**Central Area Only**" on the bottom-left page to enable Bounding Box on the main page.

2.2.6 SCREEN ORIENTATION LOCK

Screen Orientation Lock allows users to maintain a fixed display orientation for a consistent and convenient viewing experience.

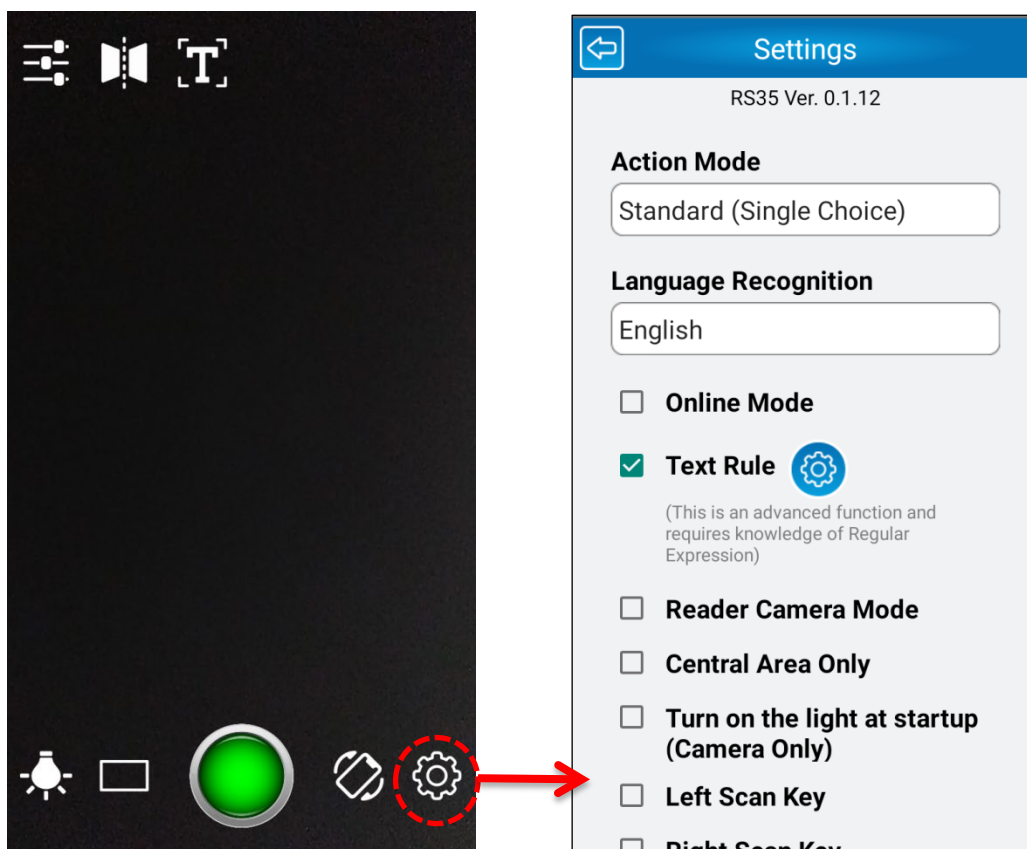
Tap the **Screen Orientation Lock** icon  to set the screen's orientation to either portrait or landscape mode. The icon changes to  when Screen Orientation Lock is enabled.

2.2.7 SETTINGS

To configure and adjust the device's overall settings, tap the **Settings** icon .

The **Settings** page provides access to a range of configurable options and preferences.

For more details, please refer to [the following chapter](#).



Chapter 3

CHAPTER 3: SETTINGS



This chapter carries the introduction of how to use ImageToText to recognize texts.3.1

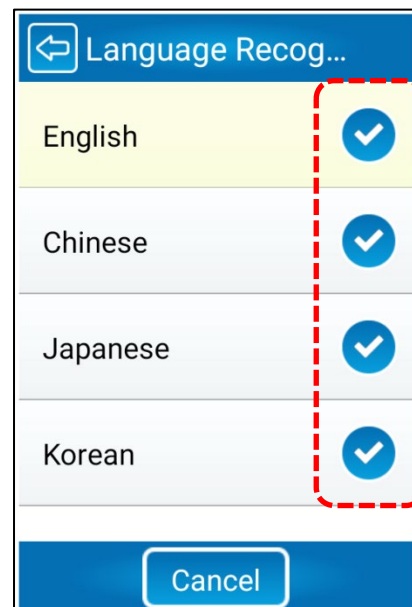
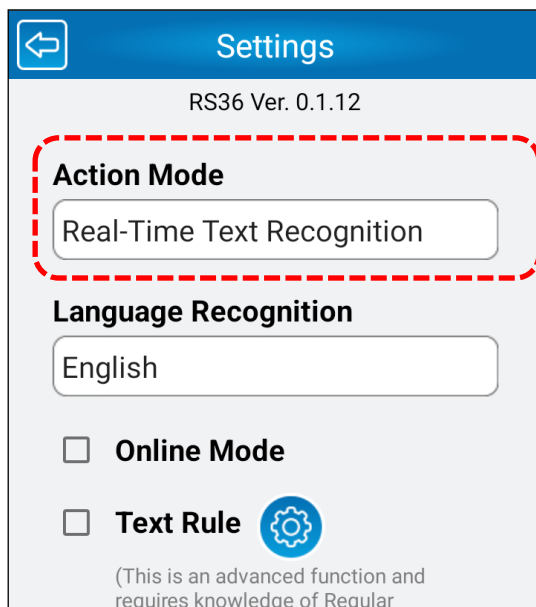
IN THIS CHAPTER

3.1 Action Mode	34
3.2 Language Recognition.....	40
3.3 Text Rule	41
3.4 Reader Camera Mode	43
3.5 Central Area Only.....	44
3.6 Turn on the Light at Startup (Camera Only)	46
3.7 Scan Key	47
3.8 Quick Box Switching.....	48
3.9 Manual Focus Position.....	49
3.10 Save Photo.....	50
3.11 Remove Blank Characters.....	52
3.12 Image Horizontal Flip Mode	53
3.13 Dot Matrix Text.....	54
3.14 Image Size.....	55
3.15 Sound Effect.....	55
3.16 Ask Before Exiting the App	56

3.1 ACTION MODE

Action Mode offers users customizable OCR modes, enabling personalized text extraction to enhance user efficiency. You have the flexibility to switch the OCR mode at any time.

- 1) Tap  to enter the “**Settings**” page.
- 2) Tap to unfold the option list.
- 3) Tap  to select the mode that best suits your needs.




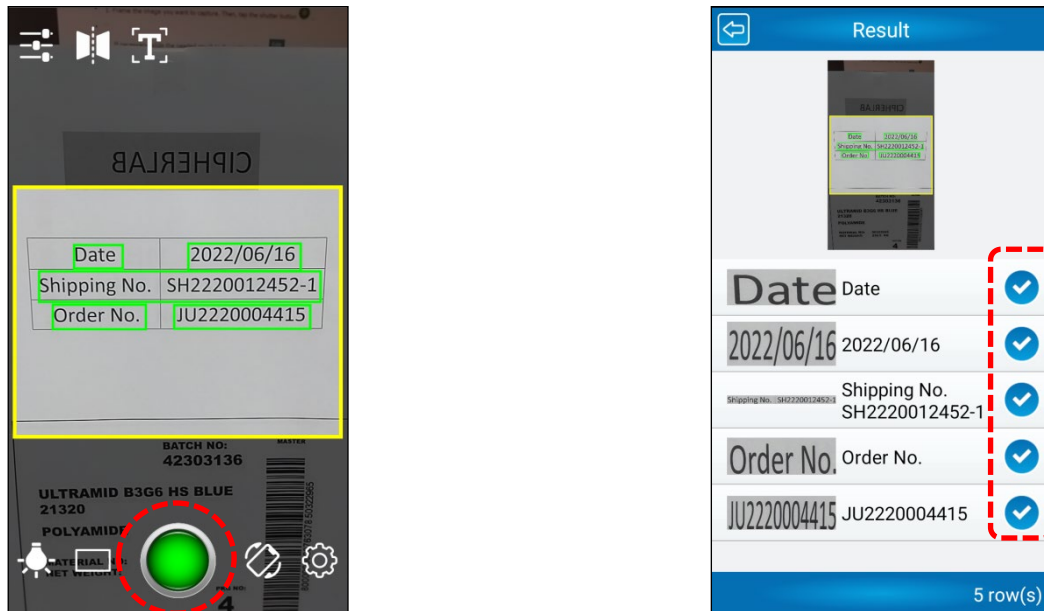
The options available are as follows:



Mode	Description
Standard (Single Choice)	Click the shutter button to generate OCR results. You can select one text result to send.
Standard (Multiple Choice)	Click the shutter button to generate OCR results. You can select multiple text results to send.
Real-Time Text Recognition	The OCR results will be generated and displayed on the screen immediately when the image is scanned. You can select one text result to send.
Album Photo (Single Choice / Multiple Choice)	Upload a photo from the album to generate OCR results. You can select either one or multiple results to send depending on the mode you use.

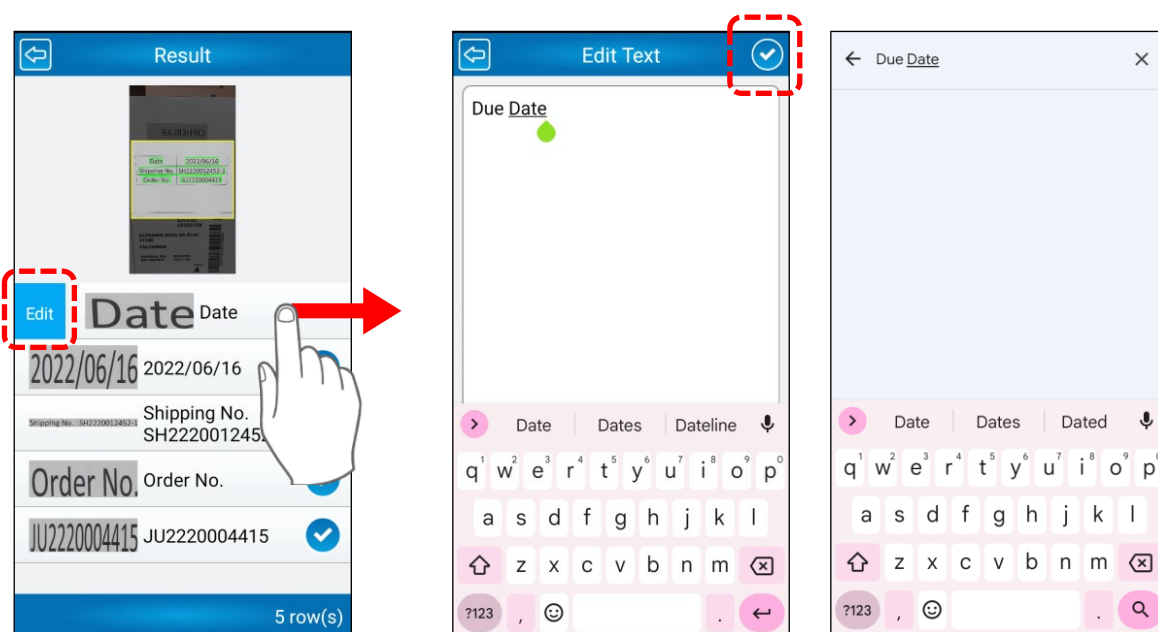
STANDARD (SINGLE CHOICE)

To generate OCR results in **Standard (Single Choice) Mode**:

- 1) Frame the image you want to capture and tap the shutter button .



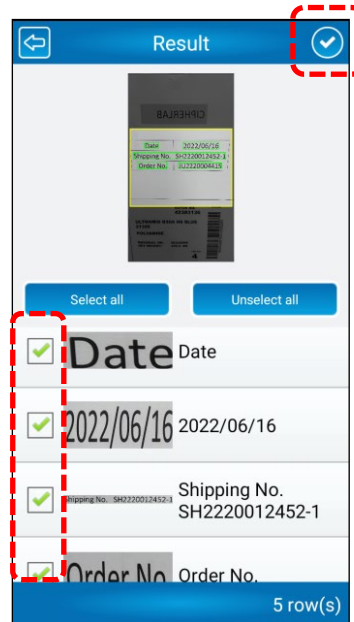
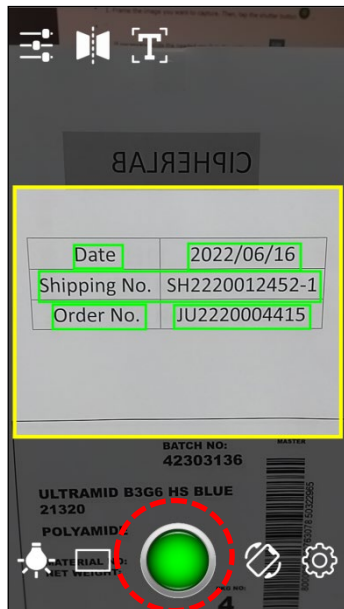
- 2) Tap  to select and send the result you need.
- 3) If necessary, slide the needed result to the right and tap **Edit** to edit the result. When done, tap  to confirm the changes and send the edited result.





STANDARD (MULTIPLE CHOICE)

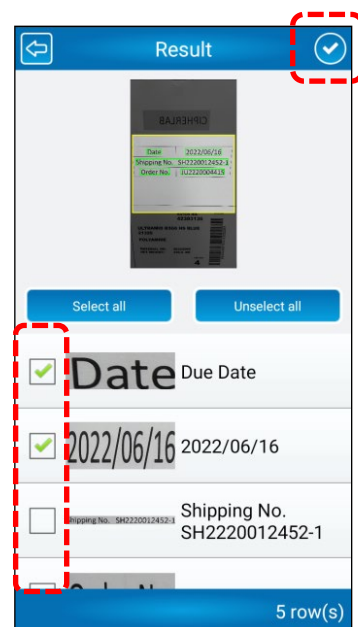
To generate OCR results in **Standard (Multiple Choice) Mode**:

- 1) Frame the image you want to capture and tap the shutter button .



- 2) Tap ☐ to select the results you need, and tap  in the top-right corner to send.

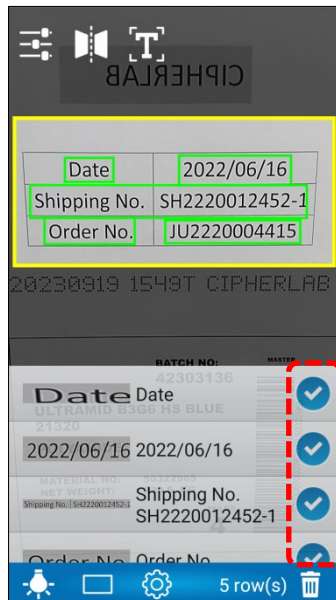
- 3) If necessary, slide the needed result to the right and tap **Edit** to edit the result. When done, tap  to confirm the changes.






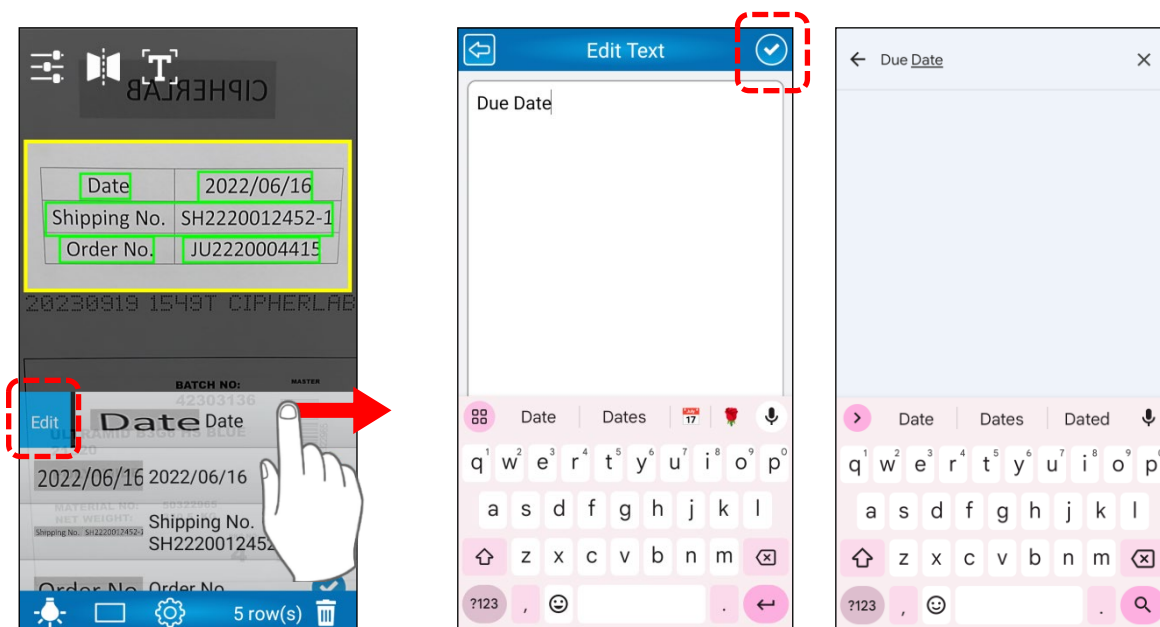
REAL-TIME TEXT RECOGNITION

To generate OCR results in **Real-Time Text Recognition Mode**:

- 1) Frame the image you want to capture, and the OCR results will be immediately displayed at the bottom.



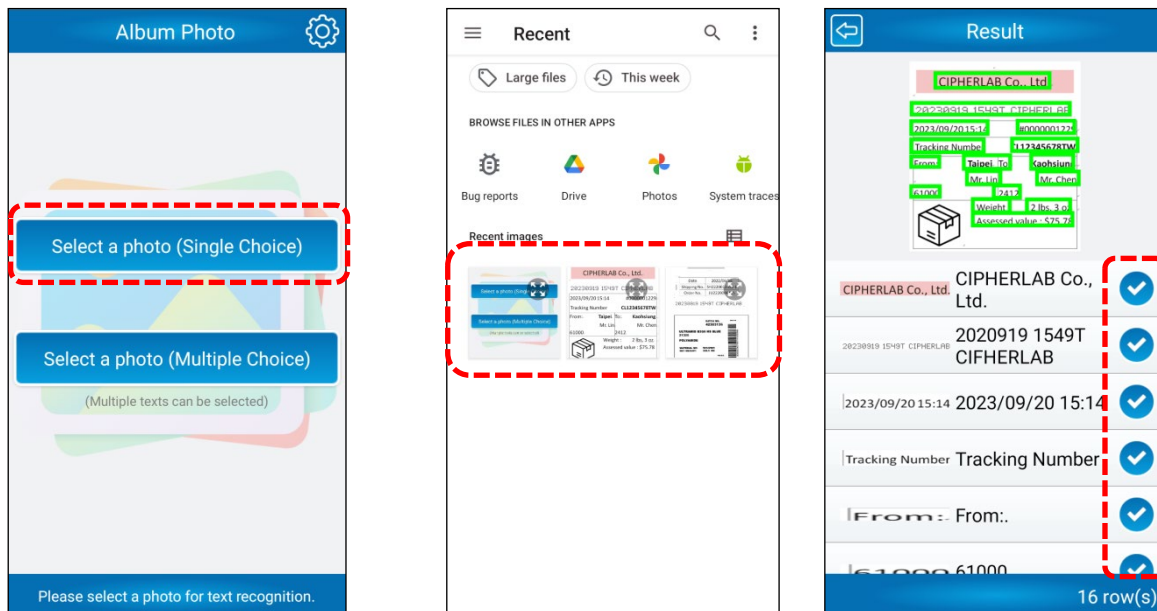
- 2) Tap  to select and send the result you need.
- 3) If necessary, slide the needed result to the right and tap  to edit the result. When done, tap  to confirm the changes and send the edited result.






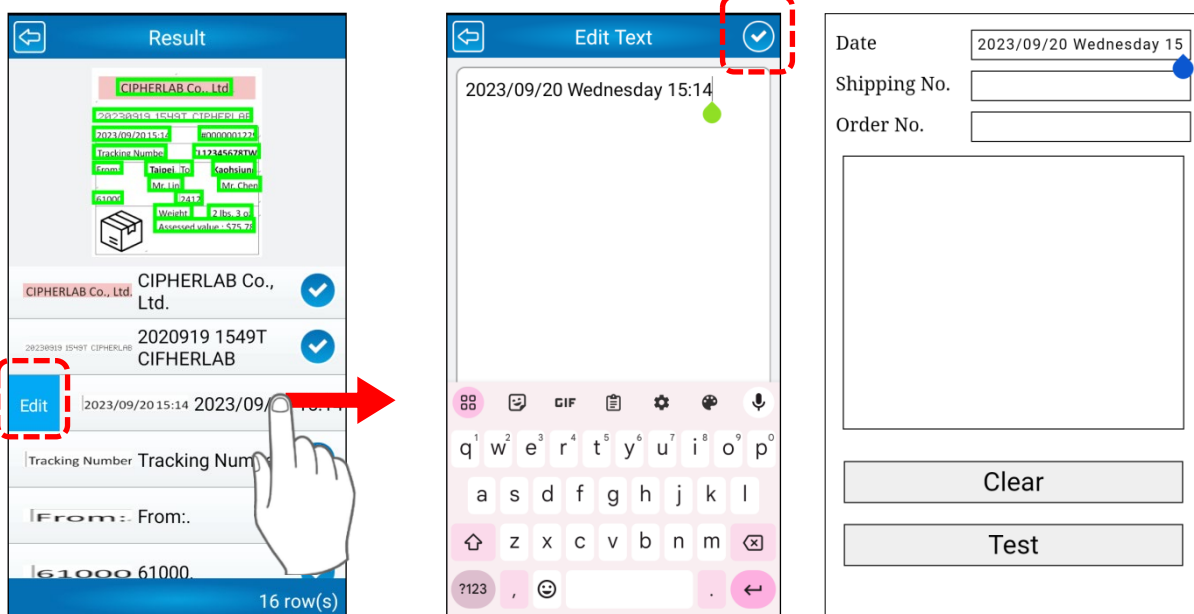
ALBUM PHOTO (SINGLE CHOICE)

To generate OCR results in **Album Photo (Single Choice) Mode**:

- 1) Tap **"Select a photo (Single Choice)"** and select a photo to upload.



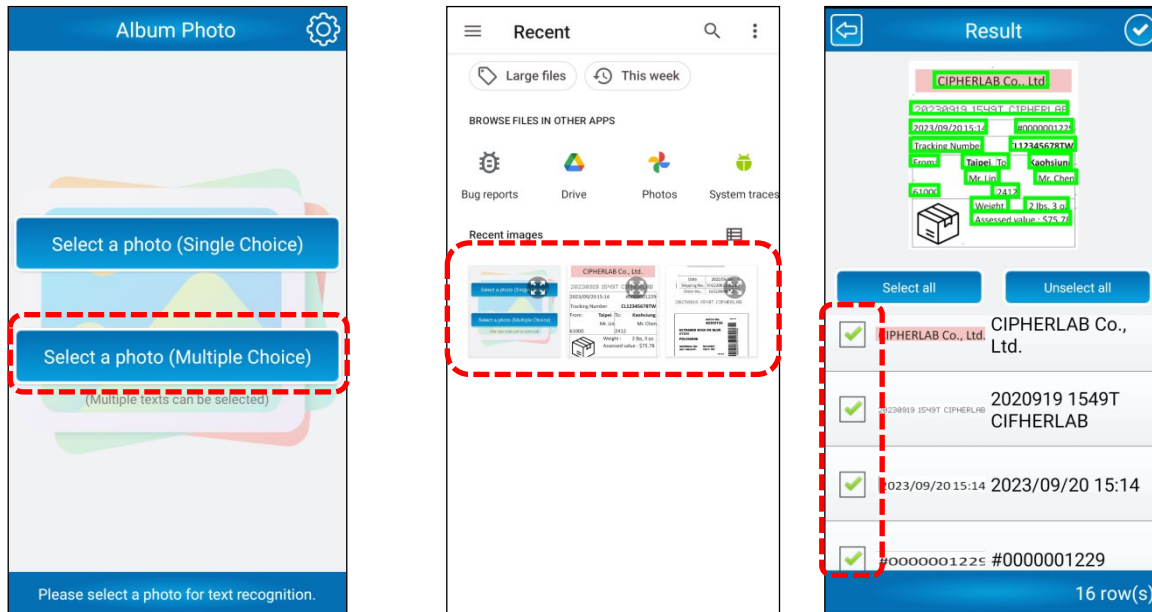
- 2) Tap  to select and send the result you need.
- 3) If necessary, slide the needed result to the right and tap  to edit the result. When done, tap  to confirm the changes and send the edited result.



ALBUM PHOTO (MULTIPLE CHOICE)

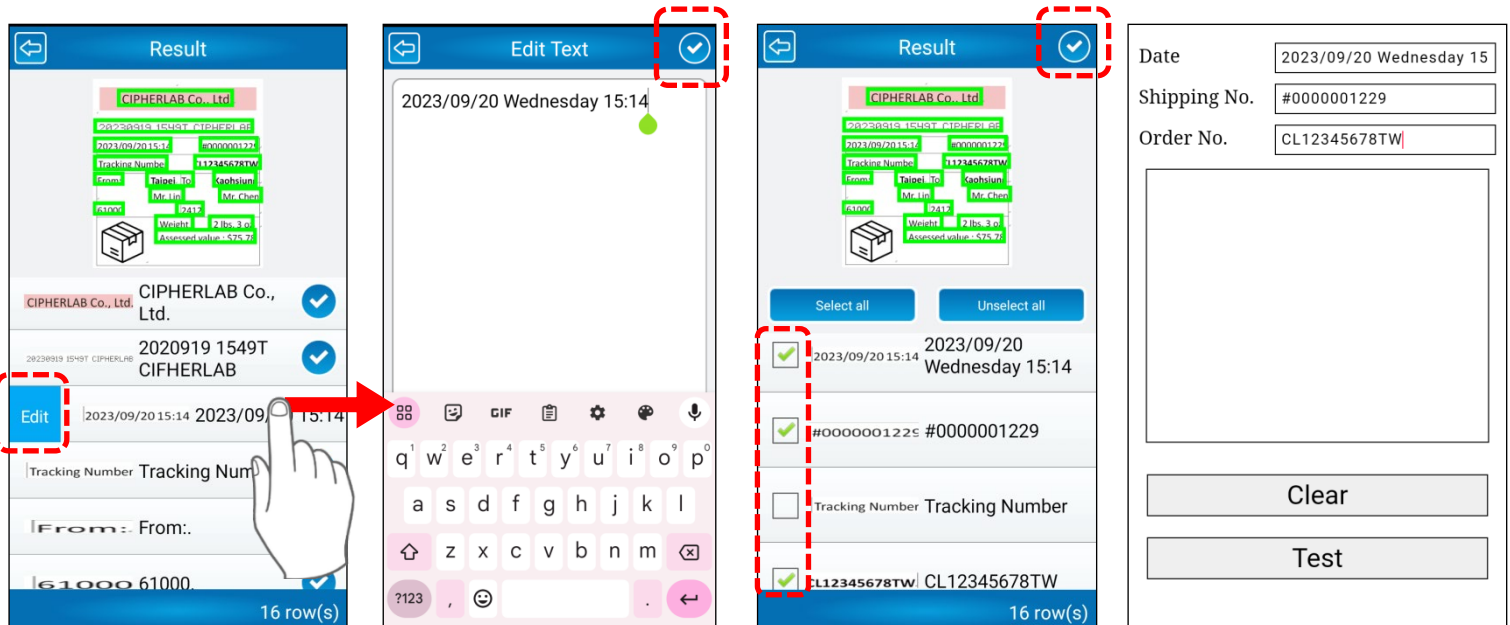
To generate OCR results in **Album Photo (Multiple Choice) Mode**:

- 1) Tap **"Select a photo (Multiple Choice)"** and select a photo to upload.





- 2) Tap ☐ to select the results you need, and tap ☒ in the top-right corner to send.

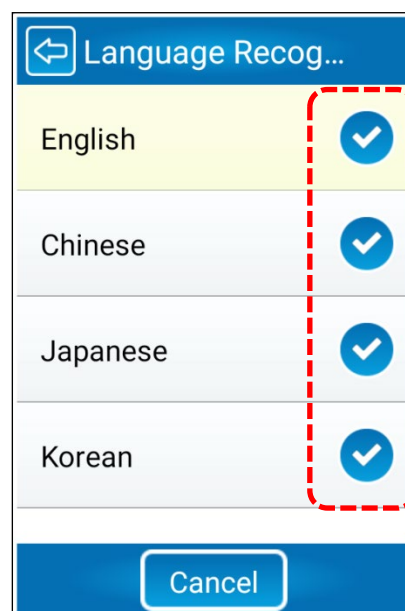
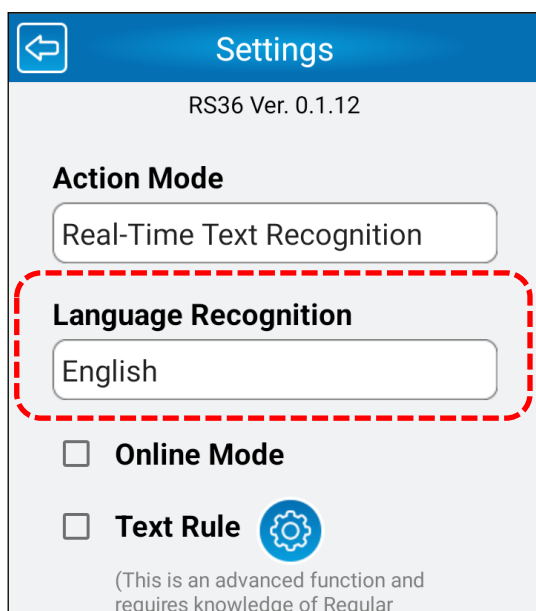
- 3) If necessary, slide the needed result to the right and tap **Edit** to edit the result. When done, tap ☒ to confirm the changes.



3.2 LANGUAGE RECOGNITION

The recognition engine of ImageToText supports the recognition of multiple languages. You can change the recognition language through the “**Language Recognition**” setting.

- 1) Tap  to enter the “**Settings**” page.
- 2) Tap to unfold the option list.
- 3) Tap  to select the language that best suits your needs.



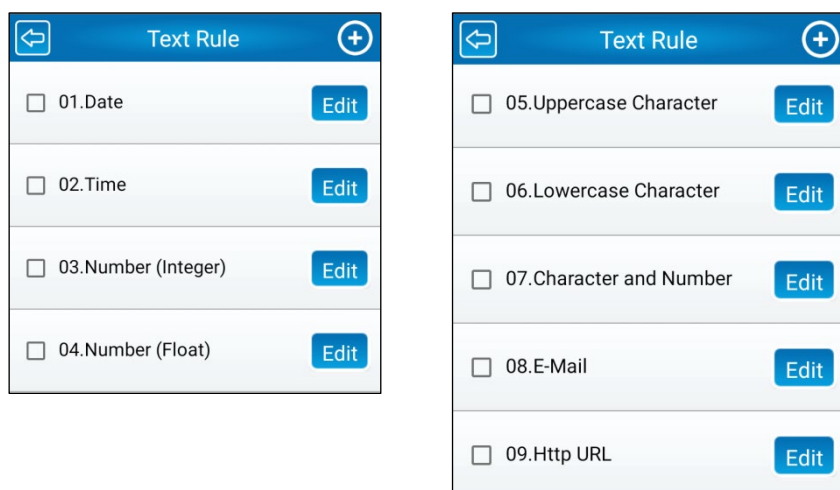
The options available are as follows:

- **English:**
Recognizes English text and digits.
- **Chinese:**
Recognizes Traditional and simplified Chinese text, English text, and digits.
- **Japanese:**
Recognizes Japanese text, English text, and digits.
- **Korean:**
Recognizes Korean text, English text, and digits.




3.3 TEXT RULE

The **Text Rule** feature allows you to extract specific information by using filter criteria based on Regular Expressions. We provide nine filtering templates, including Date, Time, Number, Uppercase Character, and more, to make it easier to capture the data you need.

Text Rule Filtering Templates

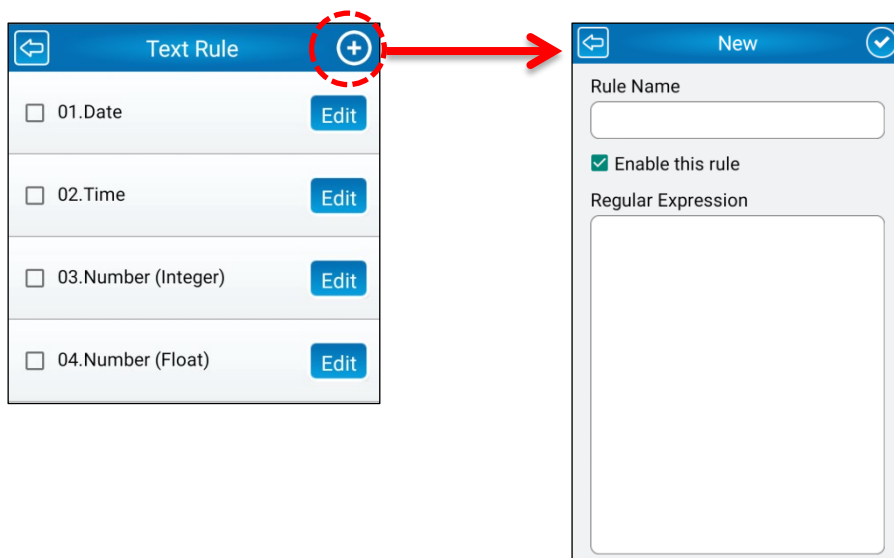


To extract desired information based on Regular Expressions:

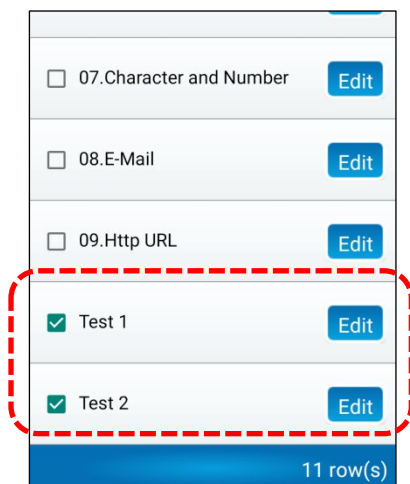
- 1) Tap on **Settings**  | **Text Rule** | .
- 2) Select the desired filtering template in the settings, for example, **"E-mail"**  08.E-Mail.





You can also add your own filter by tapping  to define a rule name and its filter criteria based on Regular Expressions.

Add a New Filter



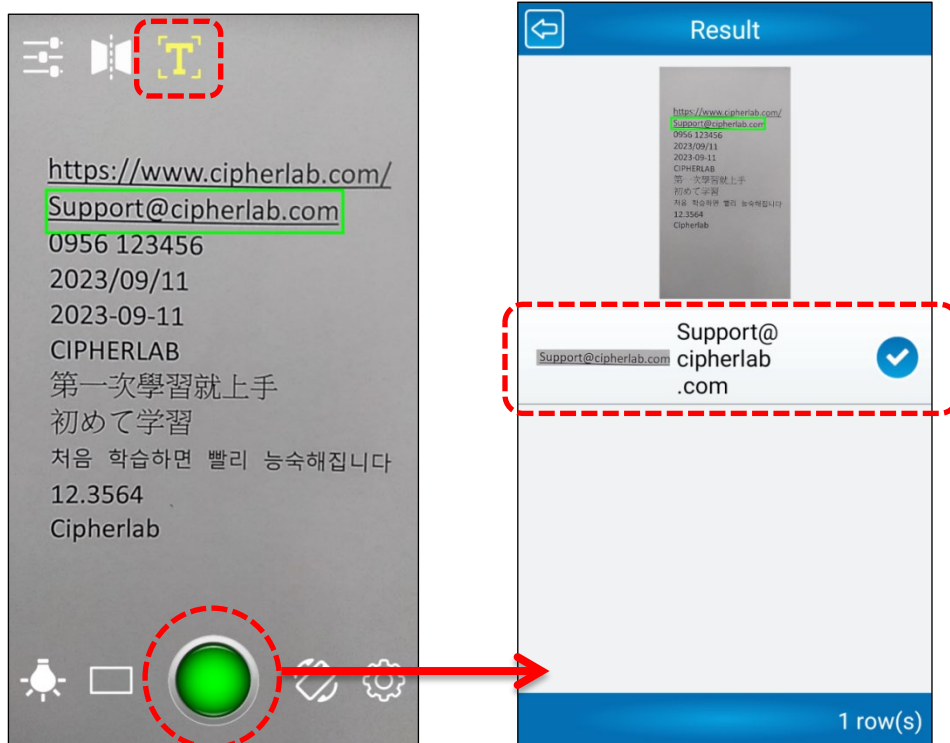
Your newly added filters will be listed below the nine filtering templates.



- 3) After selecting your desired filter(s), tap  to return to the camera/reader page.
- 4) Tap the icon  to enable "Text Rule" or select the option  in the "Settings" page.
- 5) Aim the camera or the reader at the target text and tap the shutter button .

The result page will then appear, automatically presents the captured information, as demonstrated in the following pictures.


Text Rule: On (Filter: "E-Mail")

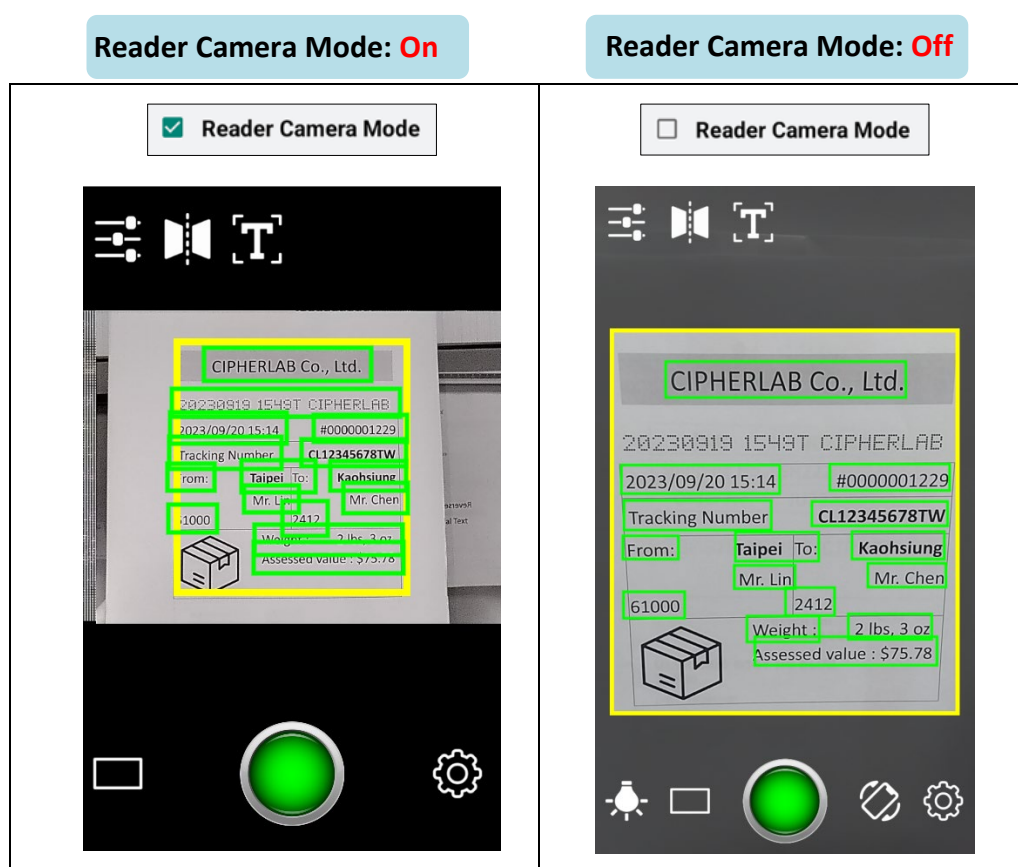


3.4 READER CAMERA MODE

By default, the input source for capturing images is the camera, but when **"Reader Camera Mode"** is activated, it switches to the barcode reader.

Follow the steps to activate **"Reader Camera Mode"**:

- 1) Tap  to enter the **"Settings"** page.
- 2) Tap the checkbox ☐ next to **"Reader Camera Mode"** to enable this function.





Note:

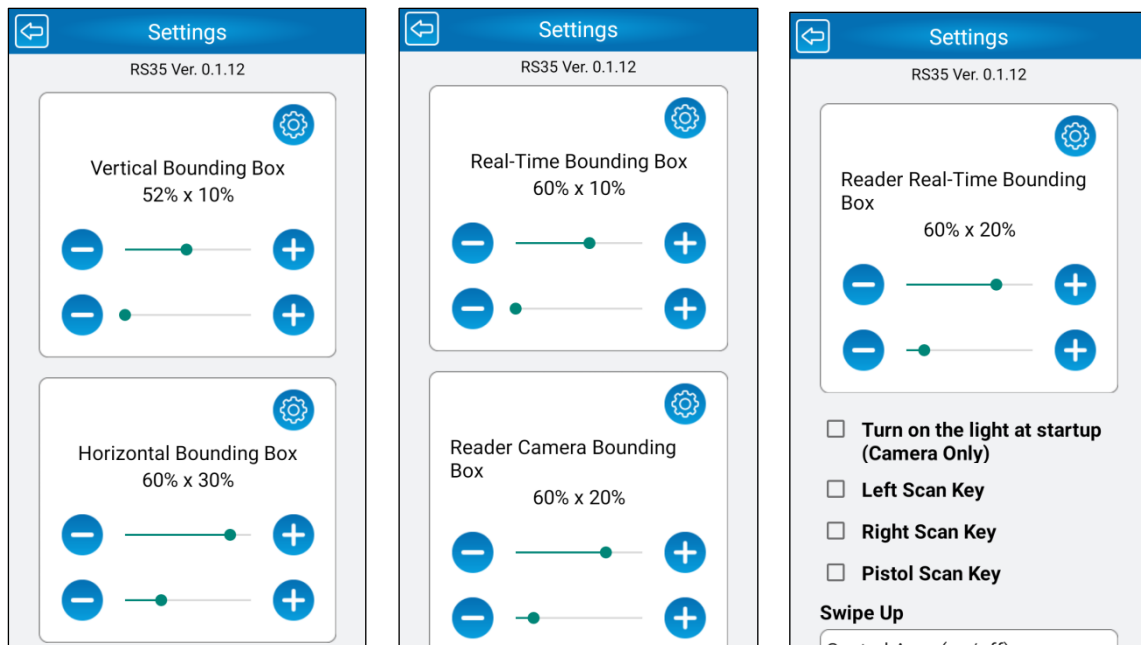
When Reader Camera Mode is enabled, certain functions like Flashlight, Bounding Box Shortcut, and Screen Orientation Lock are deactivated.

3.5 CENTRAL AREA ONLY




By applying **"Central Area Only"**, users can selectively recognize text within a defined region, reducing irrelevant content and enhancing accuracy in text extraction.

- 1) Tap  to the **"Settings"** page and scroll down to select the option  **Central Area Only**.

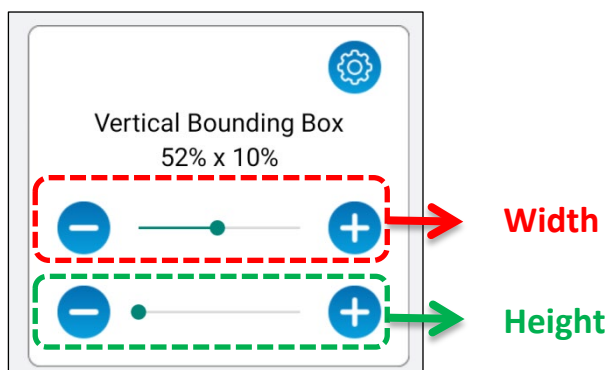
The adjustment options for Vertical/Horizontal/Real-Time/Reader Camera and Reader Real-Time Bounding Boxes will appear on the screen.




To promptly adjust the sizes of the bounding box:

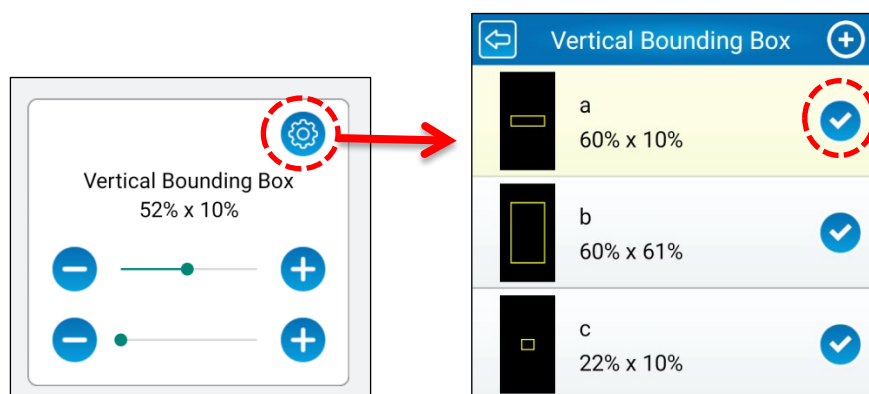
- 2) Tap the  and  icons or drag the sliders .

Note that the upper slider is for width adjustment and the lower slider for height.



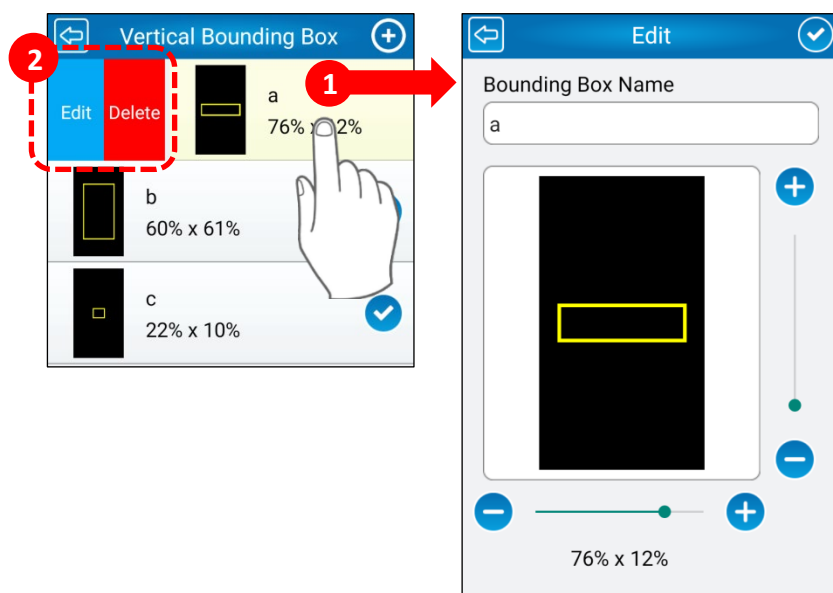
- 3) Tap  to return to the camera page, and your adjusted bounding box will be applied.

You can also tap the settings icon  to select a bounding box you customized previously.

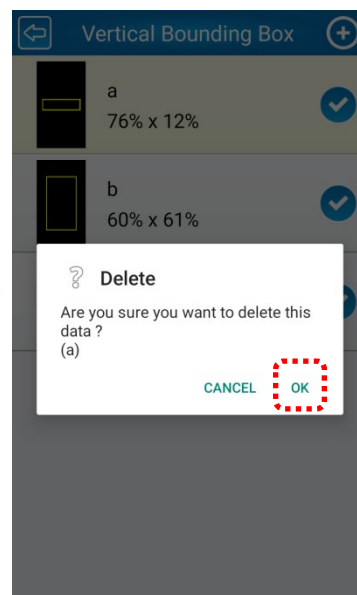



To adjust the sizes of the customized bounding box, swipe right on the screen and tap on **"Edit"**. Swipe right to tap **"Delete"** if you want to delete the bounding box.

Edit the Bounding Box




Delete the Bounding Box

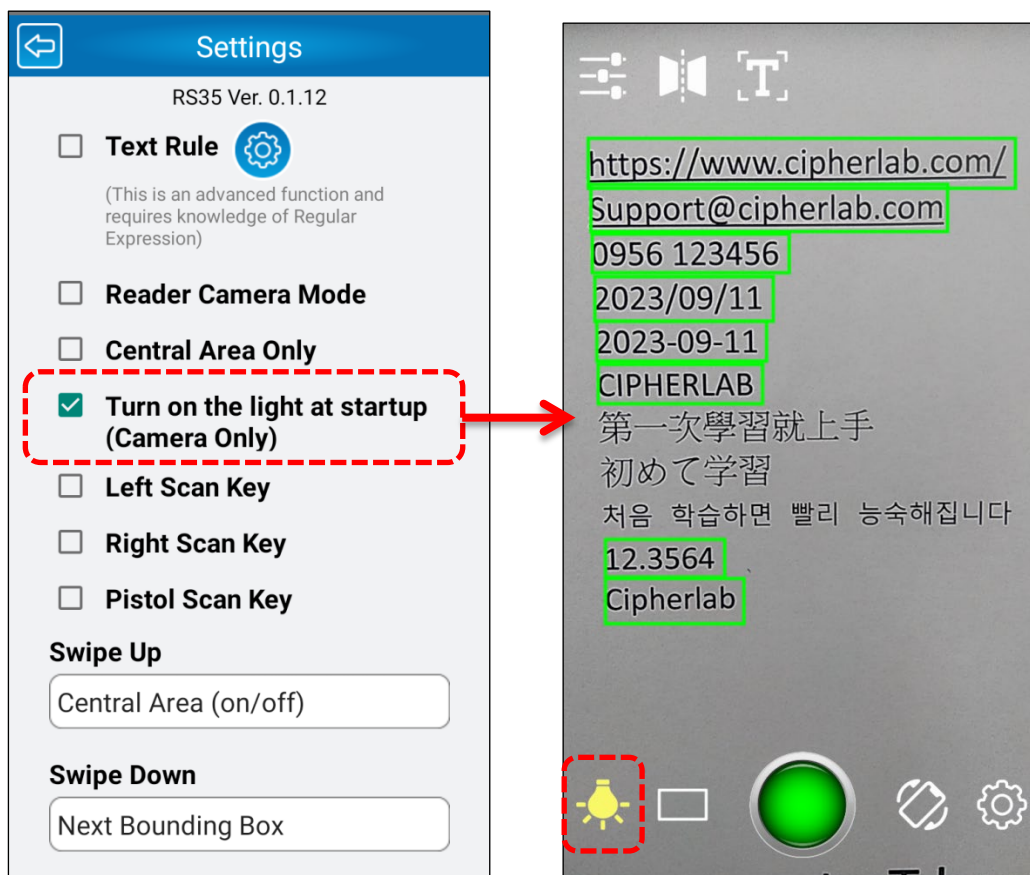


After complete editing the sizes of the bounding boxes, tap  to return to the camera/reader page, and your selected bounding box will be applied.

3.6 TURN ON THE LIGHT AT STARTUP (CAMERA ONLY)

“**Turn on the Light at Startup**” enables users to automatically activate the light source as soon as they launch ImageToText, ensuring optimal visibility in low-light or dark environments.

Tap the **Settings** icon  and swipe down to select the option “**Turn on the light at startup**”.




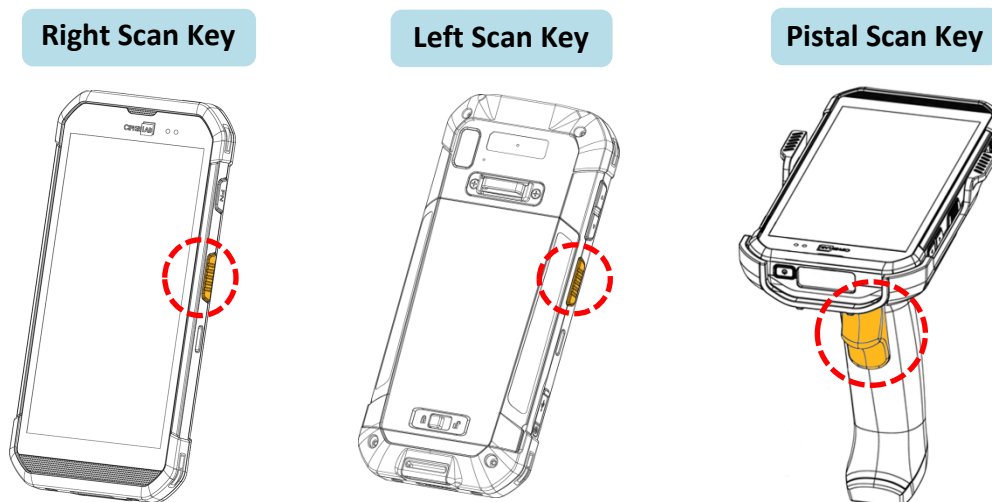
The flashlight is automatically turned on at startup.

Note:


- (1) The flashlight is exclusively designed for use in camera mode.
 - (2) You are required to restart ImageToText to apply the changes to this setting.
-

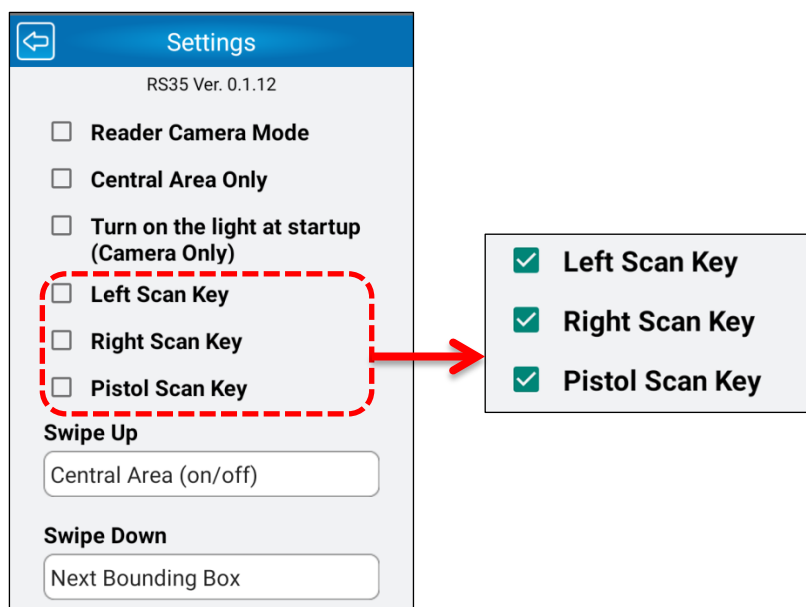
3.7 SCAN KEY


In addition to the shutter button  , there are more scan keys available for capturing images, including **Left**, **Right**, and **Pistol Scan Keys**.



To enable the scan keys as trigger:

- 1) Tap  to enter the “**Settings**” page and scroll down to the **Scan Key** options.
- 2) Select your preferred scan keys to trigger image capture.



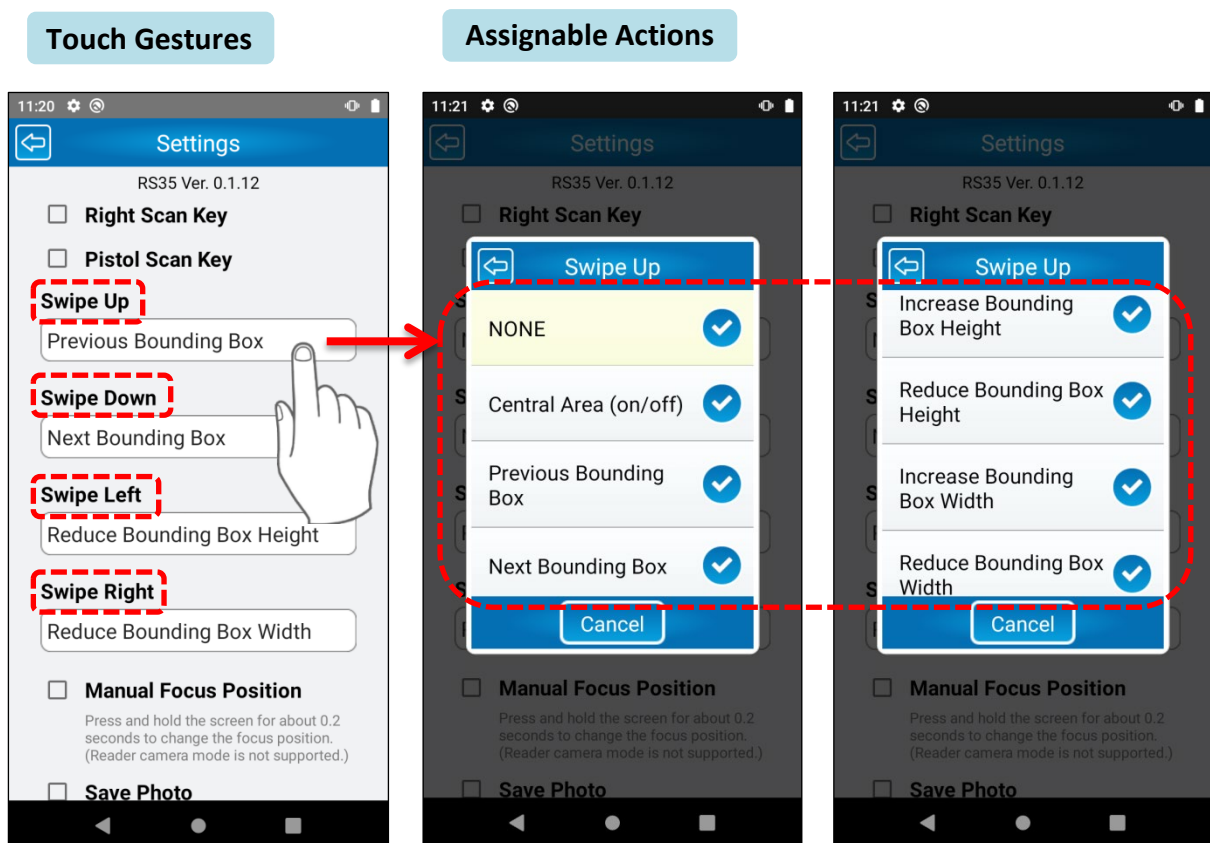
- 3) Tap  to return to the camera/reader page, and you are ready to capture images with the selected scan keys.




3.8 QUICK BOX SWITCHING

“**Quick Box Switching**” allows you to effortlessly switch between customized bounding boxes with a simple swipe of your fingers.

By swiping fingers in different directions, you can quickly switch between customized bounding boxes or to adjust their width and height.

The following pictures display a list of gestures and their assignable actions.








- 1) Go to **Settings**  and swipe down to the listed gestures.
- 2) Choose your preferred gesture and tap on the white column below it.
A list of assignable actions appears.
- 3) Tap  to assign an action.
- 4) Finally, tap  to return to the camera/reader page.

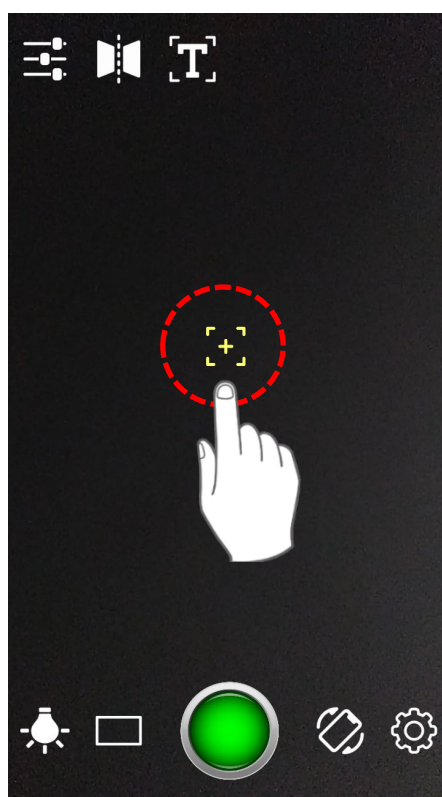
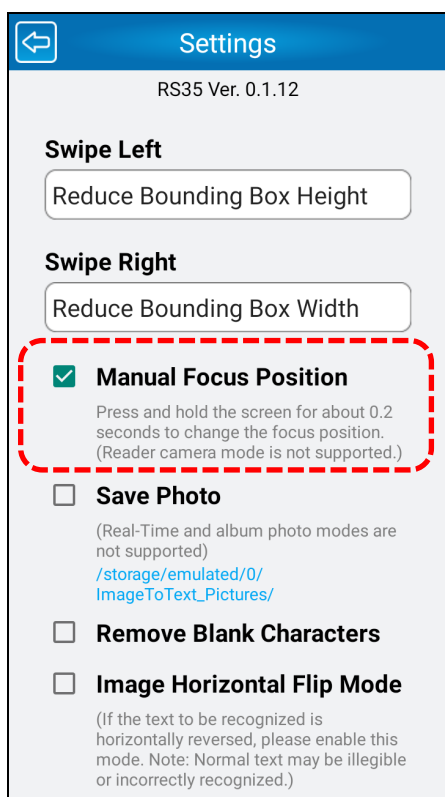
Now, you are ready to switch between bounding boxes or adjust their sizes using the assigned gestures.

3.9 MANUAL FOCUS POSITION

“**Manual Focus Position**” allows users to manually adjust focus settings for capturing clear and accurate text.

- 1) Go to **Settings**  and swipe down to select the option .
- 2) Tap  to return to the camera/reader page.
- 3) Press and hold the desired focus point on the screen; a focus indicator  will appear at that location.
- 4) Then press the shutter button  or the scan keys to capture the images.

Manual Focus Position: On




Note:

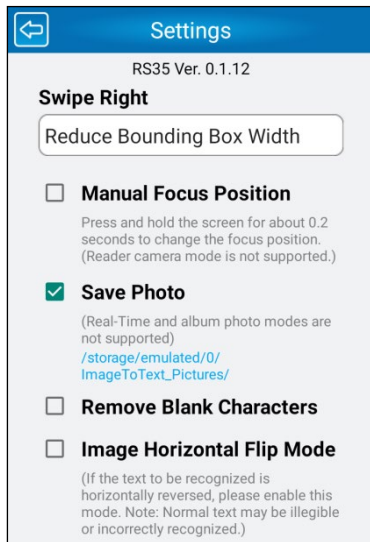
Manual Focus Position is not supported in Reader Camera Mode.



3.10 SAVE PHOTO

Saving photos within ImageToText enhances data management, security, accessibility, and overall usability of the captured content.

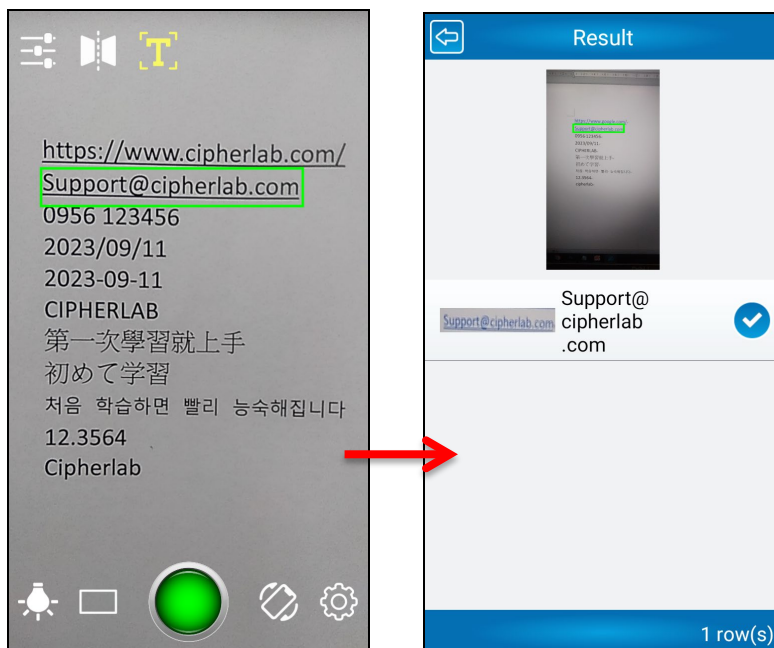
To save photos when capturing images:


- 1) Go to **Settings**  and swipe down to select the item .

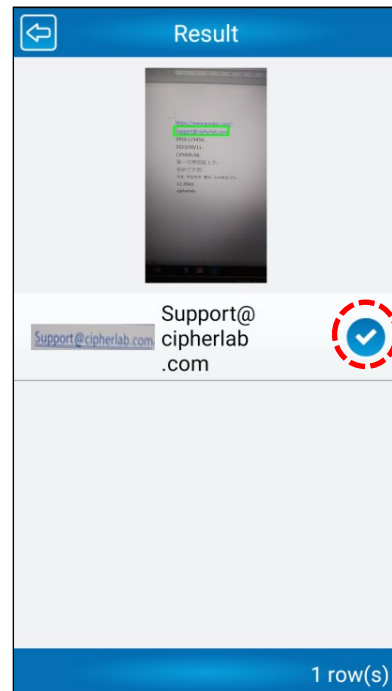


- 2) Tap  to return to the camera/reader page and tap the shutter button  to capture the image.

After capturing the image, the recognized text will be listed on the result page.



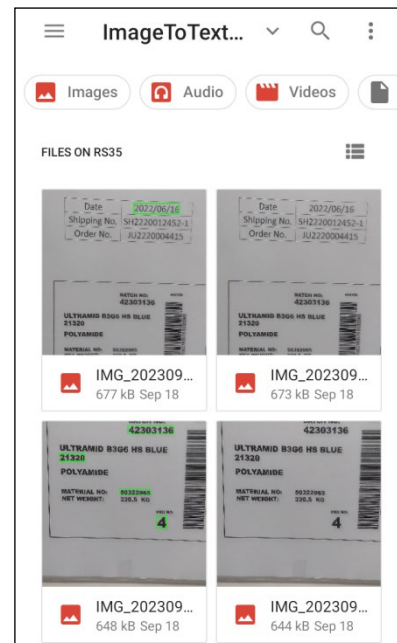
- 3) Make sure you tap on  to select the desired text and complete the process of saving the photo.



To retrieve your saved photos:

Open the file on your device and proceed to the designated path for access:

/storage/emulated/0/ImageToText_Pictures/.




Note:

The options for **Real Time Text Recognition** and **Album Photo** modes in Action Mode are not supported.

3.11 REMOVE BLANK CHARACTERS

You can use this function to remove all of the blank characters from the generated ImageToText result.

1) Tap  to enter the "Settings" page.

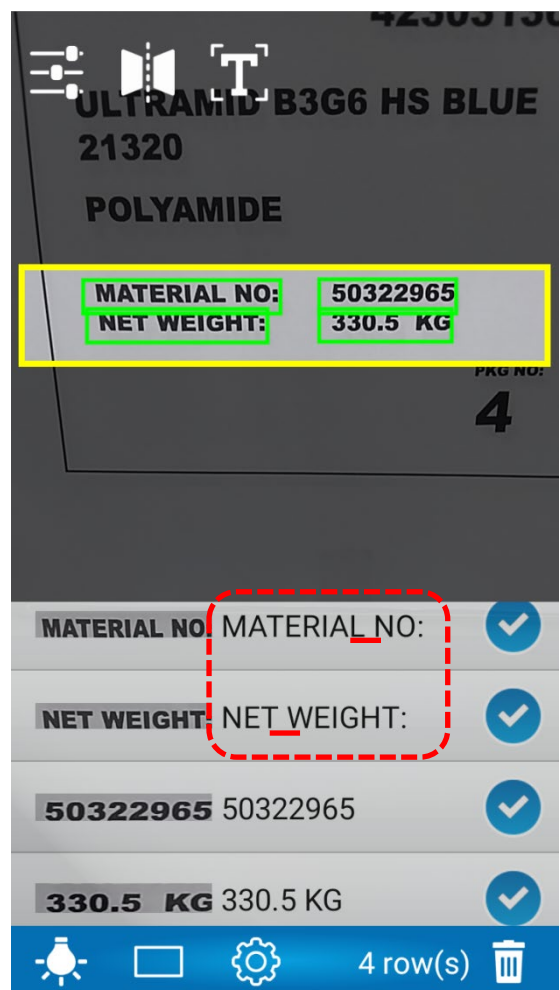
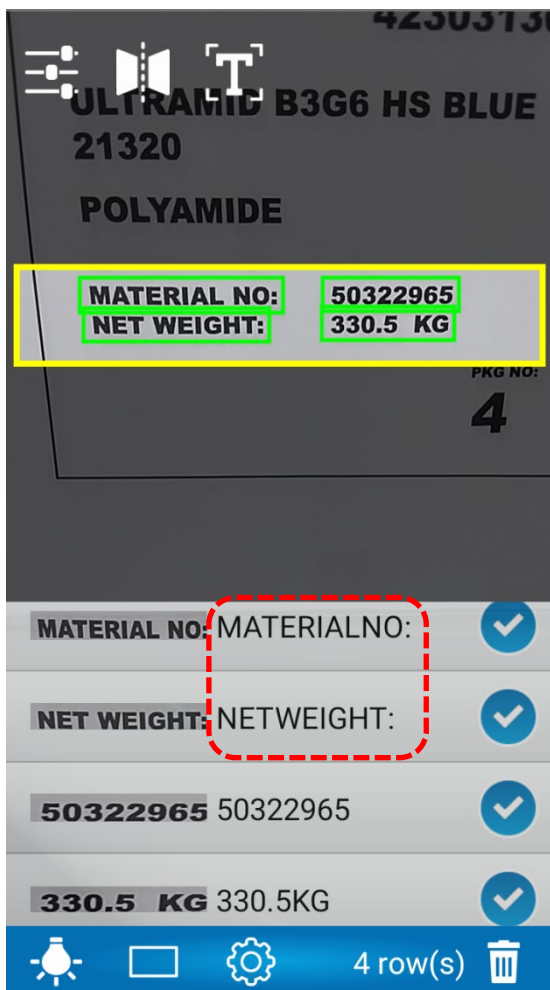
2) Tap the checkbox ☐ of "Remove Blank Characters" to enable this function.

Remove Blank Characters: **On**

☒ Remove Blank Characters

Remove Blank Characters: **Off**


☐ Remove Blank Characters




3.12 IMAGE HORIZONTAL FLIP MODE

“Image Horizontal Flip Mode” is a preprocessing technique that involves flipping an image of text horizontally before text recognition. It is often applied to enhance character recognition accuracy, especially when dealing with texts written in a mirrored orientation.



To extract horizontally flipped text:

- 1) Tap on the **Image Horizontal Flip Mode** icon  on the main user interface or tap the **Settings** icon  and scroll down to select the option  **Image Horizontal Flip Mode**.

Once the feature is applied, the icon on the main user interface turned .

Horizontal Flip Mode: On



- 2) Aim the camera/reader to the text and tap the shutter button  to capture the image. The result page will then appear, restoring the flipped text to their regular orientation.
- 3) Tap  to send the recognized characters or to save photos for data management.

Note:

Normal text may be illegible or incorrectly recognized with Image Horizontal Flip Mode enabled.

3.13 DOT MATRIX TEXT

“**Dot Matrix Text**” is designed to accommodate the unique characteristics of dot matrix text. It enhances character recognition for dot matrix text by handling irregularities in dot density and placement, resulting in more accurate and reliable text extraction from documents printed in this format.

To enable **Dot Matrix Text**, go to **Settings**  and scroll down to select the option

☒ **Dot Matrix Text**

Take the dot matrix text `20230919 1549T CIPHERLAB` for example, as seen in the pictures provided, the recognition of the dot matrix text is improved when the feature is enabled.


Dot Matrix Text: Off

☐ **Dot Matrix Text**

Dot Matrix Text: On

☒ **Dot Matrix Text**

←
Result
✓




Select all
Unselect all

☒
20230319 1549T CIPHERLAE

Misrecognized

1 row(s)

←
Result
✓



Select all
Unselect all

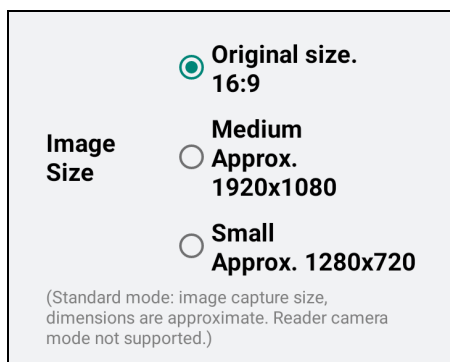
☒
20230919 1549T CIPHERLAB

Correctly recognized

1 row(s)

3.14 IMAGE SIZE

Whether you need high-resolution images for detailed analysis or smaller file sizes for streamlined storage, you can adjust the size of [the photo you saved](#) through the “Image Size” setting.



The options available are as follows:

Image Size	Description
Original size 16:9	To save the photo in a 16:9 aspect ratio. The image size matches the device’s maximum 16:9 resolution, which may vary depending on the device’s camera model.
Medium (Approx. 1920x1080)	To save the photo with an approximate resolution of 1920x1080 pixels.
Small (Approx. 1280x720)	To save the photo with an approximate resolution of 1280x720 pixels.

3.15 SOUND EFFECT

The “**Sound Effect**” feature enhances user interaction and experience by adding auditory cues to key actions. When enabled, this feature provides distinct sound feedback for initiating ImageToText, capturing images, and generating OCR results.

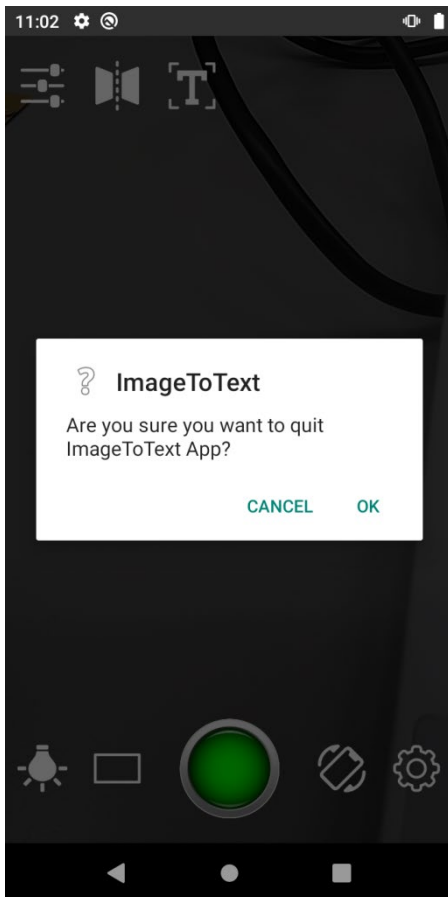
Note:

You are required to restart ImageToText to apply the changes to this setting.

3.16 ASK BEFORE EXITING THE APP

The “**Ask Before Exiting the App**” function prompts to confirm users’ intent before closing the application.

After activating this setting, a confirmation dialog “**Are you sure you want to quit ImageToText App?**” will appear when you attempt to exit ImageToText. Tap “**OK**” to exit.



Note:

You are required to restart ImageToText to apply the changes to this setting.
