

BOS™ OneScan

**USER
GUIDE**



This user manual is protected by

Copyright © 2025 Bluebird Inc. All rights reserved.

This is the designer and manufacturer of Bluebird handheld mobiles.

This manual and the programs in this device are protected under international copyright laws, and may not be copied, distributed, translated, or removed by any means.

Registered Trademark



BLUEBIRD is an emerging global brand, striving to lead the market in performance and mobility. Their products represent reliability, innovation, and innovative technology. Bluebird is a registered trademark from the global brand of Bluebird Inc. and is copyright protected.

- Bluebird and stylized Bluebird Logo are registered trademarks and symbols of Bluebird Inc.
- Qualcomm® IZat™ is a registered trademark of Qualcomm Atheros, Inc. trademark of Qualcomm Atheros, Inc.
- Adobe® is a registered trademark of Adobe Systems Inc.
- All other trademarks and copyrights are the property of their respective owners.

Contents

Contents

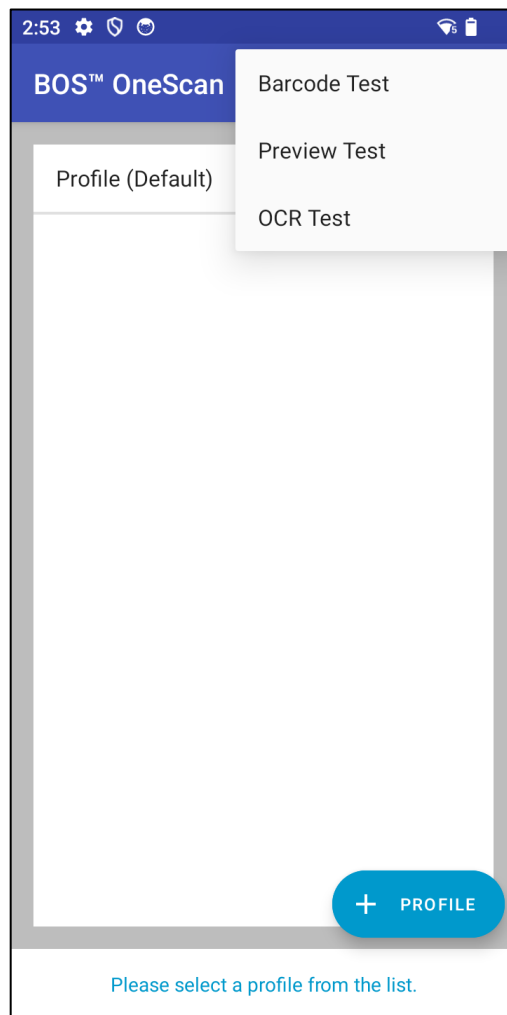
1.	Glossary	3
2.	Initial Application setup	1
3.	Getting started with the BOST™ OneScan	2
3.1	Home Screen	3
3.2	Access Point details	3
3.3	Device Details	4
4.	Description of each Test app	4
5.	BBSettings Description	5
5.1	Multi Profile	8
5.2	Advanced Data Formatting	12
5.3	Datawedge Mode Setting in Peripheral Device	14
5.4	BBSettings Setting Example	16
5.5	Trigger Mode – Autostand	21
5.6	Inverse 1D	22
5.7	Mobile Phone Display Mode	23
5.8	Barcode Symbology	24
		25
		26

1. Glossary

- This user manual is made reference to application BOS OneScan 2.0 version
- BOS OneScan is applied from Android 14 (depends on Devices)
- BOS OneScan Package name
: **kr.co.bluebird.android.onescan**

2. Initial Application setup

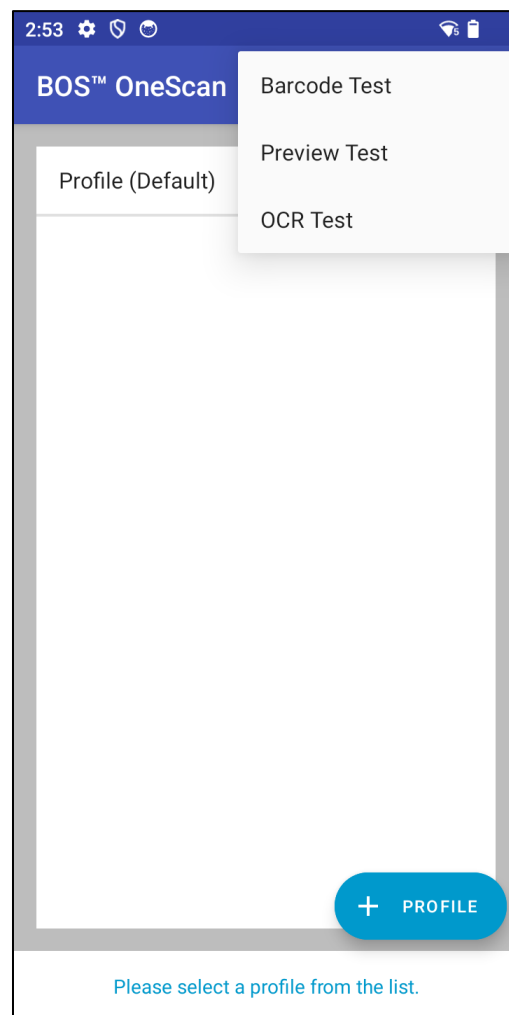
- This is the initial screen when you launch the OneScan app.



3. Getting started with the BOS™ OneScan

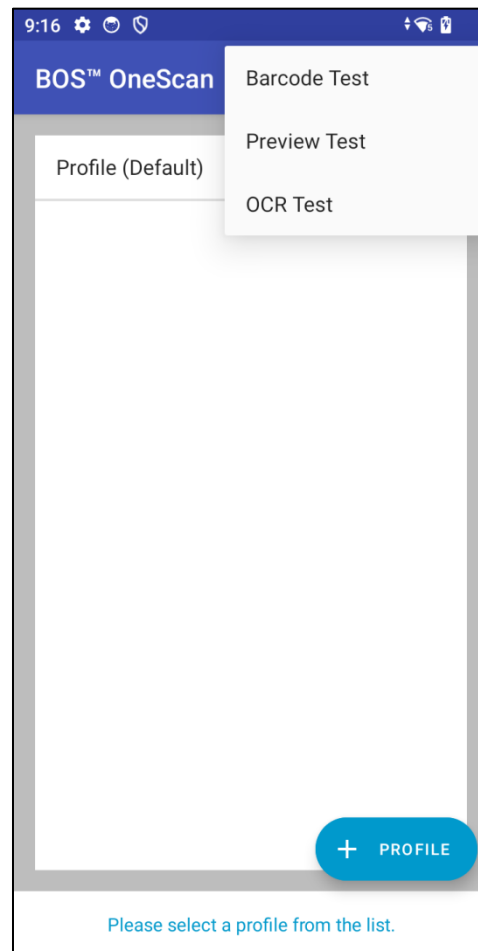
3.1 Home Screen

This screen displays when you launch the OneScan app



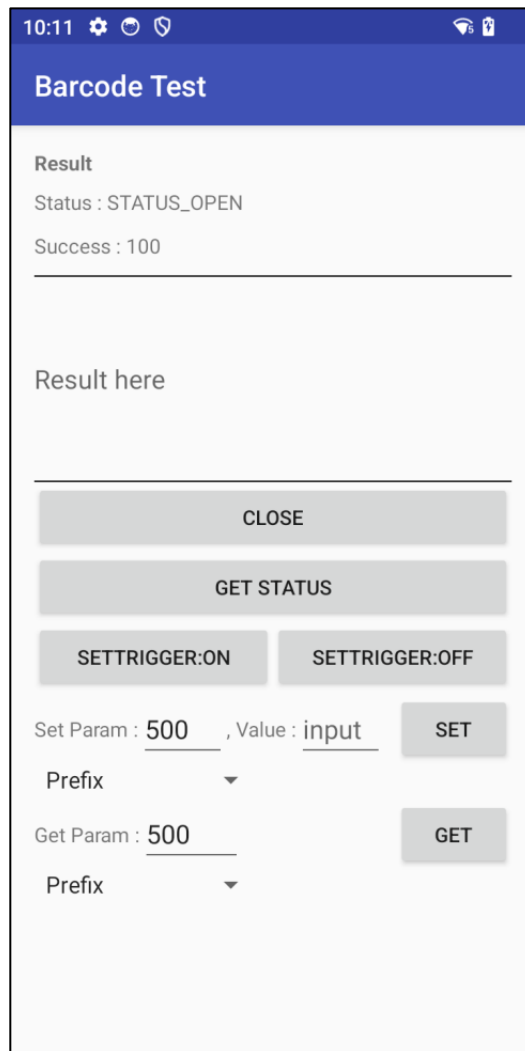
3.2 Access Point details

On this screen, you can test Barcode test, preview test, and OCR test by selecting the menu.

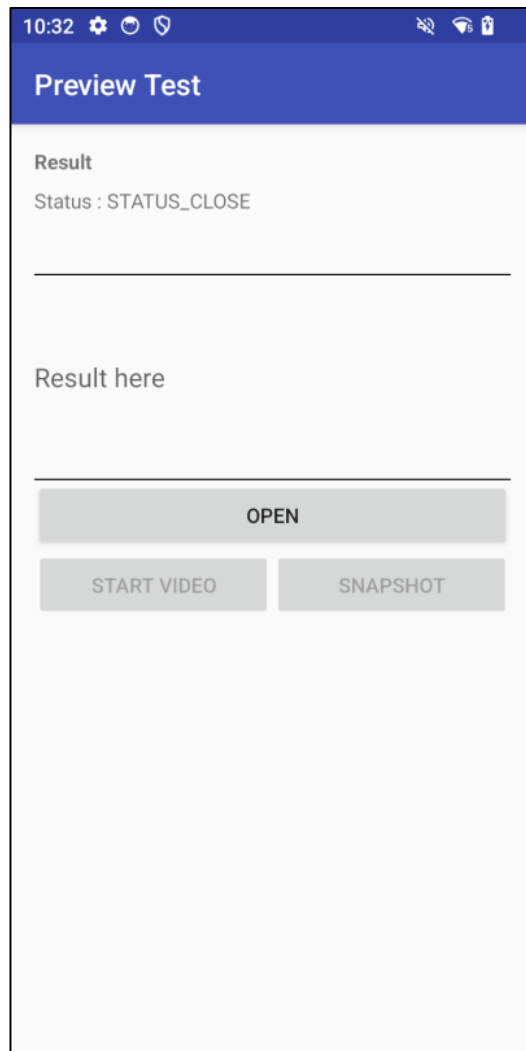


3.3 Device Details

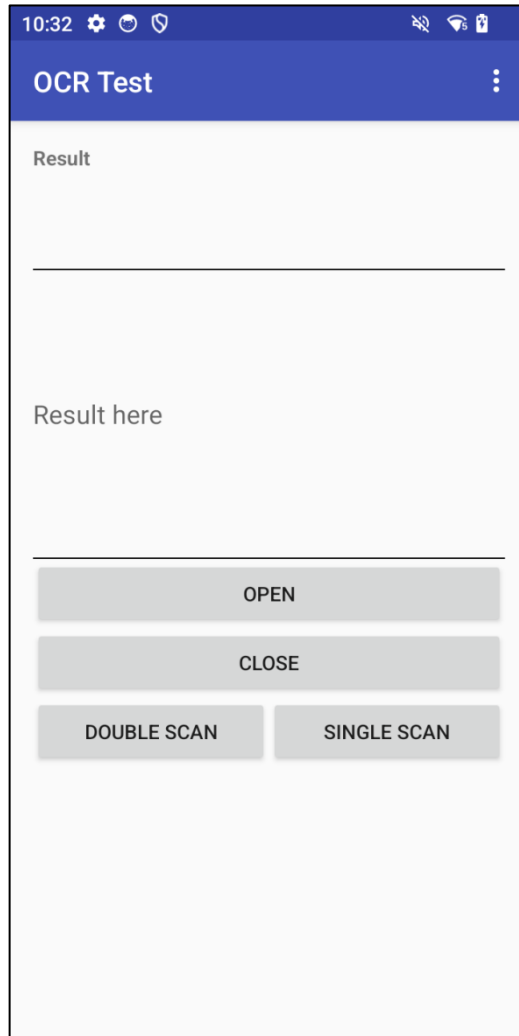
This screen displays the Barcode Test, where you can check barcode open/close.



This app is a Preview Test demo, where the preview can be viewed using the module.



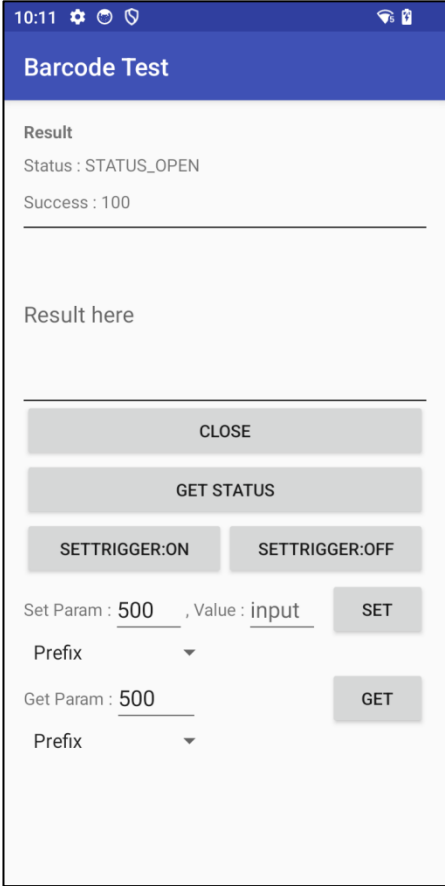
This app is an OCR Test app, and it can read OCR (passport, ID card, etc.)



4. Description of each Test app

- Barcode TEST app

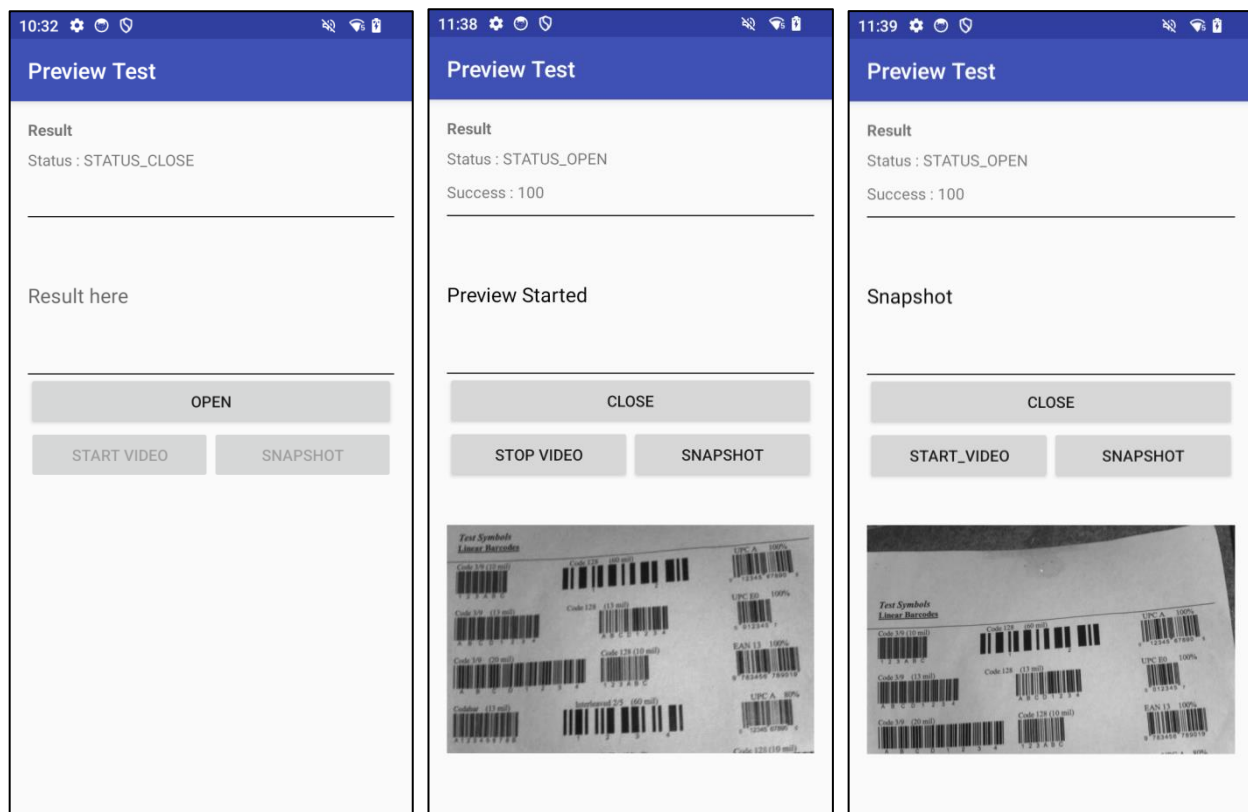
- This program can check barcode status and barcode information
- Count : Number of scanning
- Symbology : barcode type
- Data : barcode data
- Open/Close : open/close barcode module
- Get status : showing barcode module status
- SetTrigger:on : set trigger on by software
- SetTrigger:off : set trigger off by software



The screenshot shows the Barcode Test app interface. At the top, the status bar displays the time 10:11 and various system icons. The app title "Barcode Test" is shown in a blue header. Below the header, the "Result" section displays "Status : STATUS_OPEN" and "Success : 100". A horizontal line separates this from a large empty area labeled "Result here". Below this area are four buttons: "CLOSE", "GET STATUS", "SETTRIGGER:ON", and "SETTRIGGER:OFF". The "SET" section includes a "Set Param" field with the value "500", a "Value" field with the value "input", and a "SET" button. Below this is a "Prefix" dropdown menu. The "GET" section includes a "Get Param" field with the value "500" and a "GET" button, followed by another "Prefix" dropdown menu.

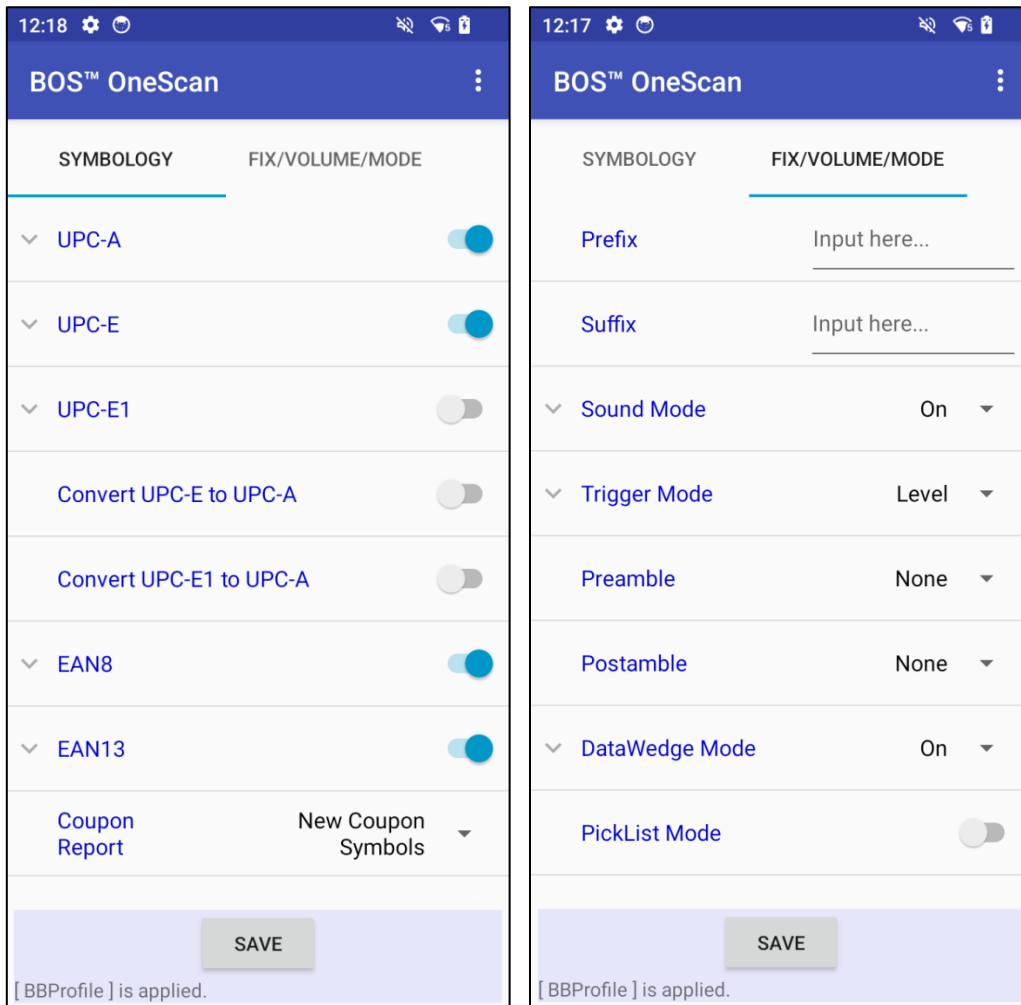
- **Preview Test app**

- This program can check preview barcode by module.
- you can see the video of barcode by module.
- You can take snapshot of barcode.



- **BBsettings**

- You can enable/disable the barcode type you want to use.
- You can configure various options such as DataWedge Mode, prefix, suffix, and other related settings.



<Symbology>

<FIX/VOLUME/MODE>

5. BBSettings Description

There're features of BBSettings.

Name	Type	Description
Preamble	Select spinner	Value added to the front buffer (None, LF, CR, Tab, Unknown) LF – Line Feed (\n), CR – Carriage Return (\r), Tab – Tab (\t)
Postamble	Select spinner	Value added to the back buffer (None, LF, CR, Tab, Unknown) LF – Line Feed (\n), CR – Carriage Return (\r), Tab – Tab (\t)
Datawedge Mode	Select spinner	On/Off the Data Wedge Mode
Datawedge Type	Select spinner	Clipboard – Features that are available where you inherit the Google base class TextView. Keyboard – Available regardless of TextView class or specific Web form.\
Keyboard Type	Select spinner	Features used when Data wedge type is keyboard Cursor – Pass key event to selected view Injection – Pass key values by ACTION_UP / ACTION_DOWN
Picklist Mode	Switch button	Scan barcode in center if there are many barcodes in aimer area
Intent Action	Input text	Intent information entered allows decode data to be received from the application. Intent action - Specifies the action to handle the intent. Intent action category – Specifies the category of intent to be handled. Intent action extra name – Specifies the extra name of intent to be handled.

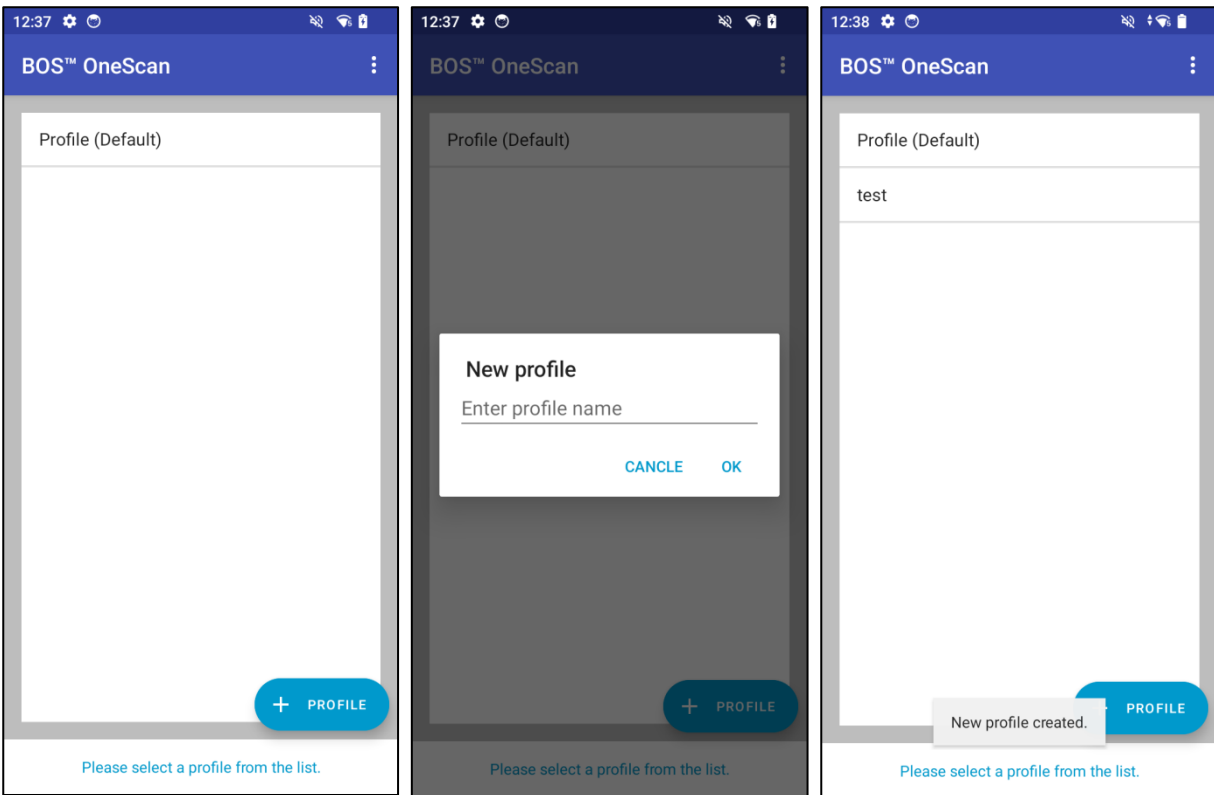
\n (New Line) → Line break

\r (Carriage Return) → Moves the cursor to the beginning of the line

Name	Type	Description
Multi Decode Mode	Switch button	Enable/Disable decoding multiple barcodes within the scanner's field of view.
Barcode To Read	Input text	Sets the number of barcode to read when Multi Decode Mode is enabled.
Full Read Mode	Input text	Replace FNC1 value with entered value.
FNC1	Select spinner	Clipboard – Features that are available where you inherit the Google base class TextView Keyboard – Available regardless of TextView class or specific Web form.\
Transmit Code ID Character	Select spinner	Code ID character identifies the code type of a scanned barcode. None - Normal decode AIM Code ID Character - Inserted AIM Code ID character before decoding data Symbol Code ID Character - Inserted Symbol Code ID character before decoding data
Inter Character Delay	Input text	Features used when Data wedge type is keyboard-Injection type. Inter character with entered time delay. (Min: 0 / Max: 1000 (ms))
No Read Message	Input text	When Timeout occurs, entered value was decoded
Fuzzy 1D Processing	Switch button	Optimize decode performance on 1D barcodes.

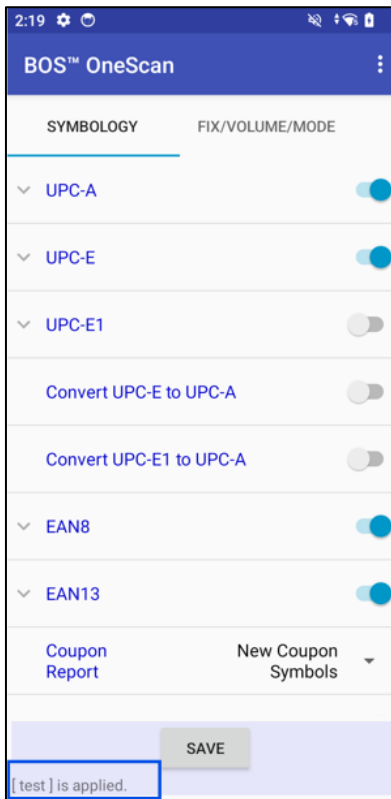
5.1 Multi Profile

You can set several profiles and set the bbsettings for each profiles.

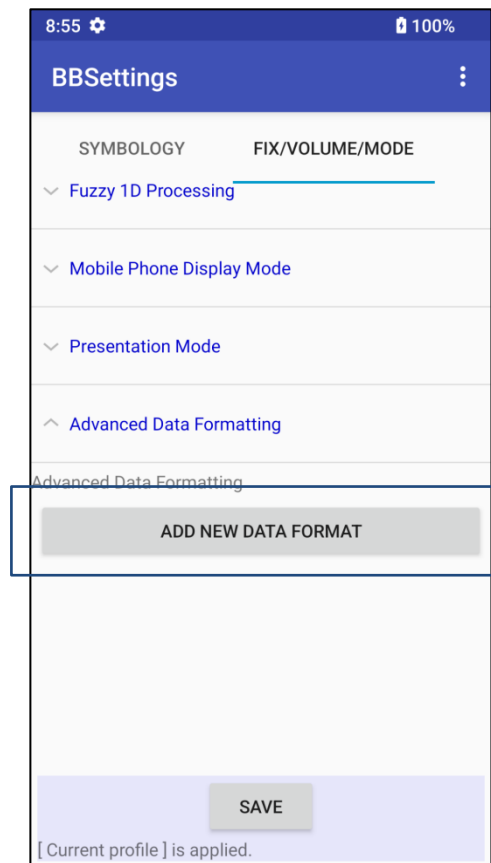


- You can add Profile
- Enter new file name

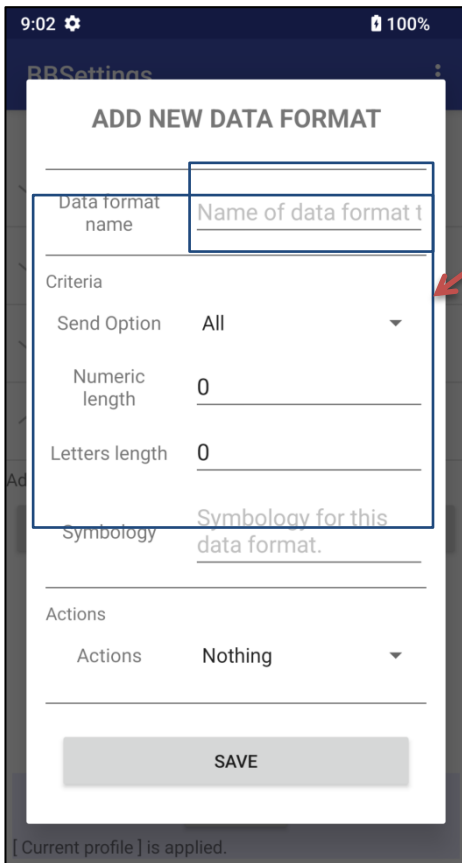
Verify that the selected profile is set to default



5.2 Advanced Data Formatting



- Click “ADD NEW DATA FORMAT” button to add new data format setting



9:02 100%

BBSettings

ADD NEW DATA FORMAT

Data format name: Name of data format 1

Criteria

Send Option: All

Numeric length: 0

Letters length: 0

Symbology: Symbology for this data format.

Actions

Actions: Nothing

SAVE

[Current profile] is applied.

- Set Criteria

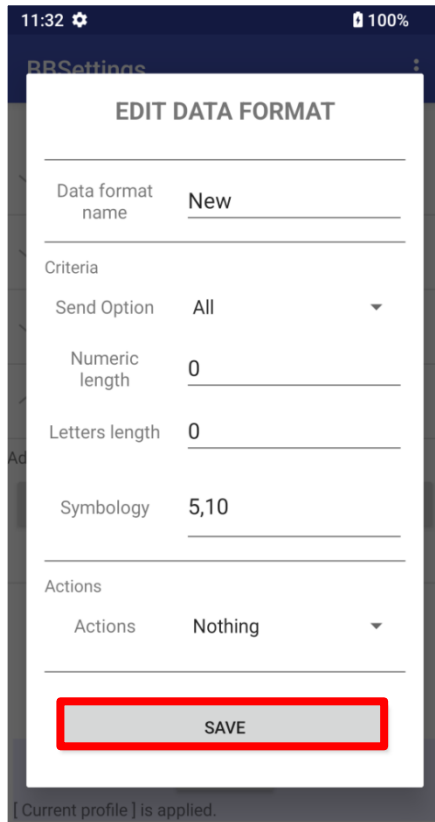
- Select option (*All, Data Wedge, Intent*)

- Set Numeric length & Letters length :
Data Formatting is performed only when the number of numbers / strings and entered values are matched.

If you do not want to specify it, set it to '0'.

- Symbology : set symbology for this data formatting

- Click dialog save button and click total save button to be completely saved



11:32 100%

BBSettings

EDIT DATA FORMAT

Data format name New

Criteria

Send Option All

Numeric length 0

Letters length 0

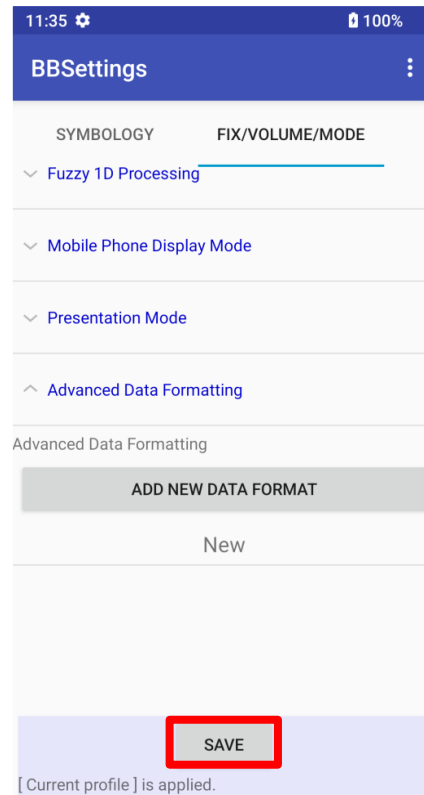
Symbology 5,10

Actions

Actions Nothing

SAVE

[Current profile] is applied.



11:35 100%

BBSettings

SYMBOLOLOGY FIX/VOLUME/MODE

∨ Fuzzy 1D Processing

∨ Mobile Phone Display Mode

∨ Presentation Mode

∧ Advanced Data Formatting

Advanced Data Formatting

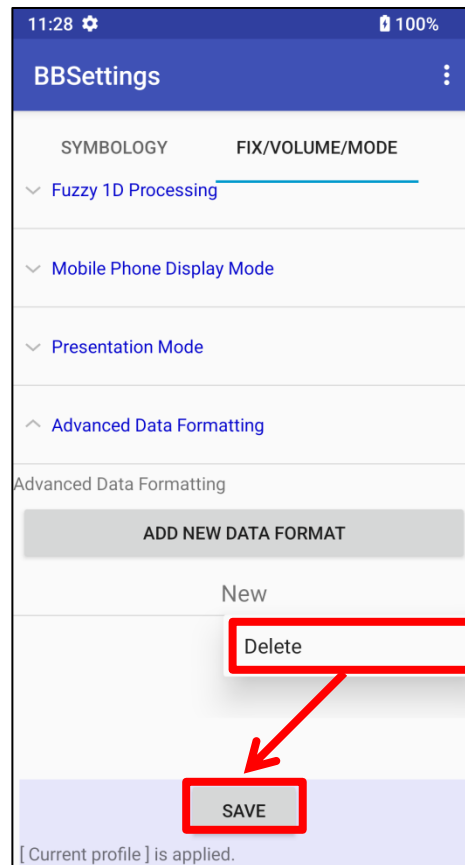
ADD NEW DATA FORMAT

New

SAVE

[Current profile] is applied.

- Long Click option to delete and click save button to be completely saved



Choose action that you want

Action	Input	Description	Example
Nothing	-	selected symbology is not decoded.	[01234567] → []
Send String	String(String)	Decode to the specified String	String : ABC / [01234567] → [ABC]
Send Index	Start(number), Length(number)	Return values as long as 'Length' from 'Start' Index	Start: 1 / Length: 3 / [01234567] → [123]
Remove characters	Remove From(<i>front, end</i>), How many characters(number)	Remove characters as many as 'how many characters' from 'Remove From (<i>front, end</i>)' direction	Remove From: end / How many characters: 5 / [01234567] → [012]
Separate data into 2 parts	Separator(String), 1 st part- position(number), length(number), 2 st part- position(number), length(number)	According to the two entered startPosition and length, the value is divided into two parts based on the entered separator	Separator : ABC / 1 st part: 0,2 / 2 st part: 4,3 / [01234567] → [01ABC456]
Only numeric data	-	Return only numeric data	[0a1b2c3d] → [0123]
Send Remaining After	Remove chars(String), Length(number)	Return data as long as 'Length' after the 'Remove chars'	Remove chars : Ca / Length: 2 / [ABCabc] → [bc]

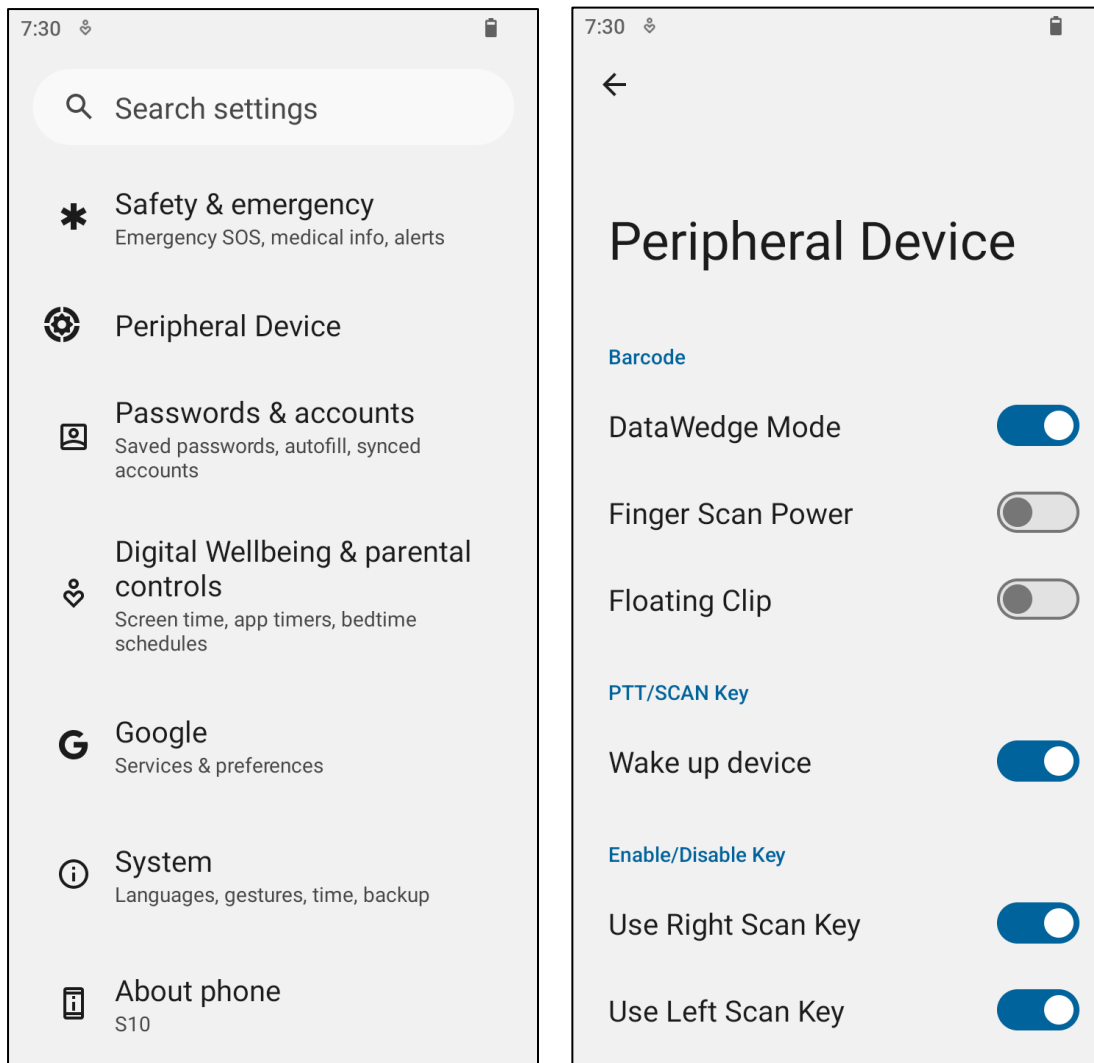
5.3 Datawedge Mode Setting in Peripheral Device

DataWedge Mode setting : Setting - Peripheral Device - Datawedge Mode

Disable Application can control but user cannot control barcode operation.

Enable Application and User can control barcode operation.

It means Barcode beam emit when user push barcode scan button.



5.4 BBSettings Setting Example

BBsettings FIX/VOLUME/MODE Suffix - \n

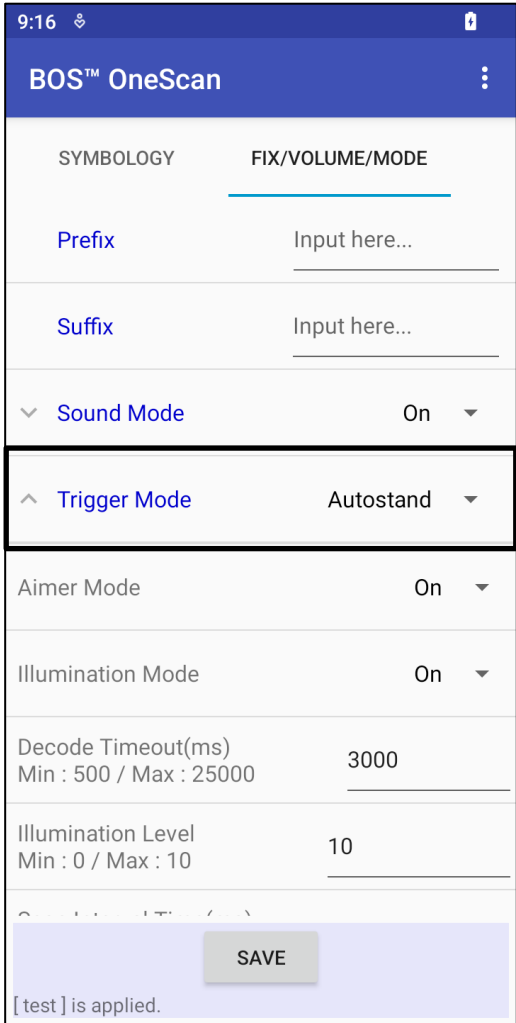
To input the 'Enter' on Suffix to add 'enter' key after scan barcode

Caution point : \n is Enter (Reverse slash symbol)



5.5 Trigger Mode – Autostand

If you want to continue scanning, set Trigger mode to **Autostand** in BBSettings.



The screenshot shows the BOS™ OneScan settings interface. The 'Trigger Mode' is highlighted with a black border and is set to 'Autostand'. Other settings include Sound Mode (On), Aimer Mode (On), Illumination Mode (On), Decode Timeout (3000 ms), and Illumination Level (10). A 'SAVE' button is visible at the bottom.

SYMBOLOLOGY	FIX/VOLUME/MODE
Prefix	Input here...
Suffix	Input here...
Sound Mode	On
Trigger Mode	Autostand
Aimer Mode	On
Illumination Mode	On
Decode Timeout(ms) Min : 500 / Max : 25000	3000
Illumination Level Min : 0 / Max : 10	10

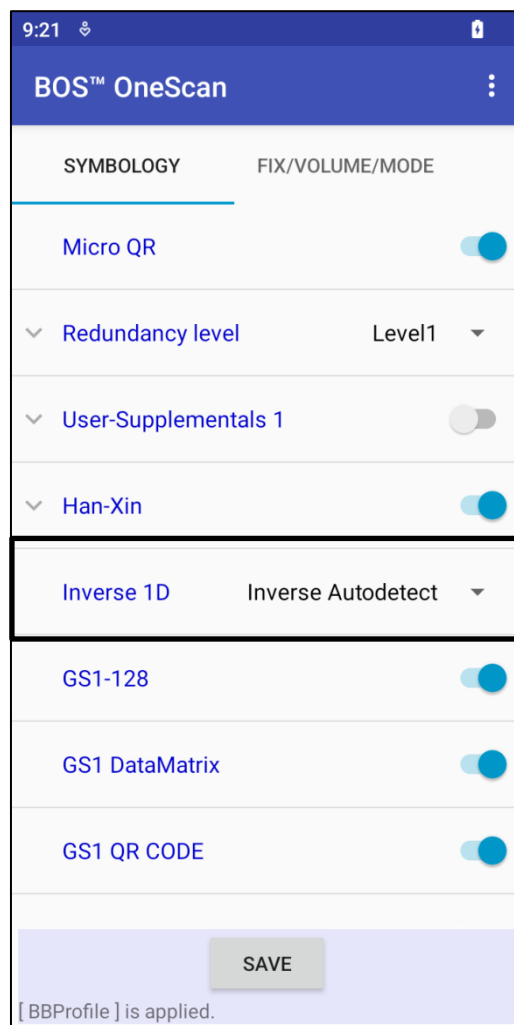
[test] is applied.

5.6 Inverse 1D

The basic format of a barcode is black bars on a white background.

If you want to scan a barcode in the opposite format, turn on

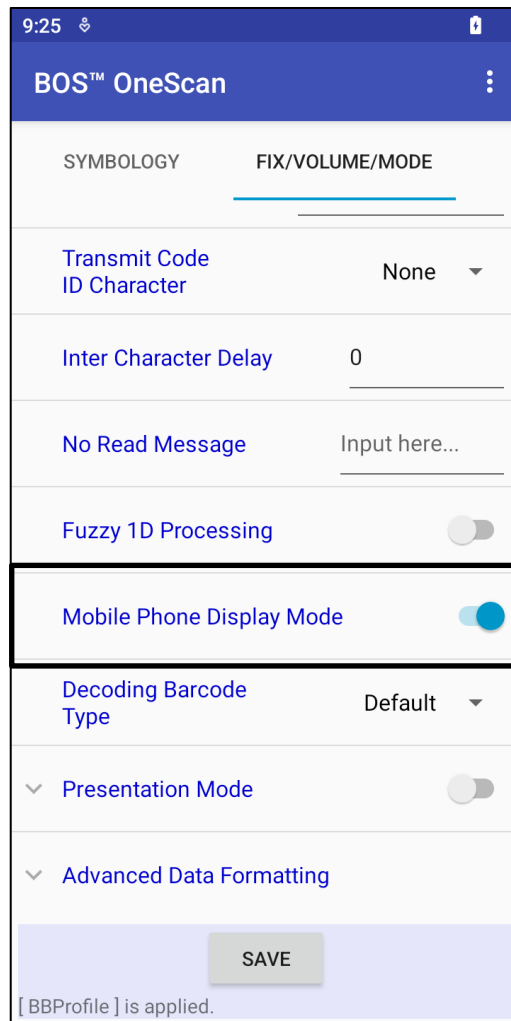
Inverse mode – Inverse Autodetect



5.7 Mobile Phone Display Mode

Set this mode when scanning barcodes that are covered in Plastic or highly reflective.

Use this mode when reading barcodes that are difficult to recognize



5.8 Barcode Symbology

Name	ID	Name	ID	Name	ID
SYMBOLGY_UPC_A	1	SYMBOLGY_CODE11	13	SYMBOLGY_TRIOPTIC_CODE	25
SYMBOLGY_UPC_E	2	SYMBOLGY_MSI	14	SYMBOLGY_DISCRETE2OF5	26
SYMBOLGY_UPC_E1	3	SYMBOLGY_GS1	15	SYMBOLGY_USPS4CB	27
SYMBOLGY_EAN8	4	SYMBOLGY_PDF417	16	SYMBOLGY_AUSTRALIA_POST	28
SYMBOLGY_EAN13	5	SYMBOLGY_ISBT128	17	SYMBOLGY_UK_POST	29
SYMBOLGY_BOOKLAND	6	SYMBOLGY_COMPOSITE_CC_C	18	SYMBOLGY_CHINESE_POST	30
SYMBOLGY_SUPPLEMENTAL_CODE	7	SYMBOLGY_MATRIX2OF5	19	SYMBOLGY_JAPANESE_POST	31
SYMBOLGY_CODE39	8	SYMBOLGY_DATAMATRIX	20	SYMBOLGY_NETHERLANDS_POST	32
SYMBOLGY_CODE93	9	SYMBOLGY_MAXICODE	21	SYMBOLGY_KOREAN_POST	33
SYMBOLGY_CODE128	10	SYMBOLGY_AZTECCODE	22	SYMBOLGY_US_POSTNET	34
SYMBOLGY_INTERLEAVED2OF5	11	SYMBOLGY_MICROPDF	23	SYMBOLGY_US_PLANET	35
SYMBOLGY_CODABAR	12	SYMBOLGY_QRCODE	24	SYMBOLGY_UPC_A_PREAMBLE	36

Name	ID	Name	ID	Name	ID
SYMBOLGY_UPC_A_TRANSMIT_CHECK_DIGIT	37	SYMBOLGY_CODE39_CHECK_DIGIT	49	SYMBOLGY_CODABAR_LENGTH_MIN	61
SYMBOLGY_UPC_E_PREAMBLE	38	SYMBOLGY_CODE39_TRANSMIT_CHECK_DIGIT	50	SYMBOLGY_CODABAR_LENGTH_MAX	62
SYMBOLGY_UPC_E_TRANSMIT_CHECK_DIGIT	39	SYMBOLGY_CODE39_FULL_ASCII	51	SYMBOLGY_CODABAR_NOTIS_EDITING	63
SYMBOLGY_UPC_E1_PREAMBLE	40	SYMBOLGY_CODE93_LENGTH_MIN	52	SYMBOLGY_AUSTRALIA_POST	64
SYMBOLGY_UPC_E1_TRANSMIT_CHECK_DIGIT	41	SYMBOLGY_CODE93_LENGTH_MAX	53	SYMBOLGY_CODE11_LENGTH_MIN	65
SYMBOLGY_EAN8_EXTEND	42	SYMBOLGY_CODE128_LENGTH_MIN	54	SYMBOLGY_CODE11_LENGTH_MAX	66
SYMBOLGY_EAN_TRANSMIT_ISSN	43	SYMBOLGY_CODE128_LENGTH_MAX	55	SYMBOLGY_CODE11_CHECK_DIGIT	67
SYMBOLGY_BOOKLAND_ISBN	44	SYMBOLGY_CODE128_EMULATION	56	SYMBOLGY_CODE11_TRANSMIT_CHECK_DIGIT	68
SYMBOLGY_SUPPLEMENTAL_REDUNDANCY	45	SYMBOLGY_INTERLEAVED2OF5_LENGTH_MIN	57	SYMBOLGY_MSI_LENGTH_MIN	69
SYMBOLGY_SUPPLEMENTAL_AIM_ID	46	SYMBOLGY_INTERLEAVED2OF5_LENGTH_MAX	58	SYMBOLGY_MSI_LENGTH_MAX	70
SYMBOLGY_CODE39_LENGTH_MIN	47	SYMBOLGY_INTERLEAVED2OF5_CHECK_DIGIT	59	SYMBOLGY_MSI_CHECK_DIGIT	71
SYMBOLGY_CODE39_LENGTH_MAX	48	SYMBOLGY_INTERLEAVED2OF5_TRANSMIT_CHECK_DIGIT	60	SYMBOLGY_MSI_TRANSMIT_CHECK_DIGIT	72

Name	ID	Name	ID	Name	ID
SYMBOLGY_MSI_CHECK_DIGIT_ALGORITHM	73	SYMBOLGY_COMPOSITE_TLC_39	85	SYMBOLGY_CONVERT_UPCE1_TO_A	97
SYMBOLGY_GS1_LIMITED	74	SYMBOLGY_COMPOSITE_UPC	86	SYMBOLGY_CONVERT_CODE39_TO_32	98
SYMBOLGY_GS1_LIMITED_SECURITY_LEVEL	75	SYMBOLGY_DATAMATRIX_INVERSE	87	SYMBOLGY_CONVERT_I2OF5_TO_EAN13	99
SYMBOLGY_ISBT128_CONCATENATION	76	SYMBOLGY_DATAMATRIX_ONLY	88	SYMBOLGY_CONVERT_GS1_TO_UPCEAN	100
SYMBOLGY_ISBT128_CHECK_TABLE	77	SYMBOLGY_DISCRETE2OF5_LENGTH_MIN	89	SYMBOLGY_GS1_DATABAR_EXPANDED	101
SYMBOLGY_ISBT128_CONCATENATION_REDUNDANCY	78	SYMBOLGY_DISCRETE2OF5_LENGTH_MAX	90	SYMBOLGY_GS1_128_EMULATION_FOR_UCC_COMPOSITE_CODE	102
SYMBOLGY_MATRIX2OF5_LENGTH_MIN	79	SYMBOLGY_US_TRANSMIT_CHECK_DIGIT	91	SYMBOLGY_INVERSE_1D	103
SYMBOLGY_MATRIX2OF5_LENGTH_MAX	80	SYMBOLGY_QRCODE_INVERSE	92	SYMBOLGY_UPU_FICS_POSTAL	104
SYMBOLGY_MATRIX2OF5_SUPPLEMENTAL_REDUNDANCY	81	SYMBOLGY_SPECIFIC_SECURITY	93	SYMBOLGY_AZTEC_INVERSE	106
SYMBOLGY_MATRIX2OF5_CHECK_DIGIT	82	SYMBOLGY_SPECIFIC_INTERCHARACTER	94	SYMBOLGY_SPECIFIC_REDUNDANCY_LEVEL	107
SYMBOLGY_MATRIX2OF5_TRANSMIT_CHECK_DIGIT	83	SYMBOLGY_COUPON_REPORT	95	SYMBOLGY_AUSTRALIA_POST_FORMAT	108
SYMBOLGY_COMPOSITE_CC_AB	84	SYMBOLGY_CONVERT_UPCE_TO_A	96	SYMBOLGY_TRANSMIT_UK_POST_CHECK_DIGIT	109

Name	ID	Name	ID	Name	ID
SYMBOLGY_TRANSMIT_UK_POST_CHECK_DIGIT	109	SYMBOLGY_DOTCODE_INVERSE	170		
SYMBOLGY_USER_SUPPLEMENTAL_1	111	SYMBOLGY_DOTCODE_MIRROR	171		
SYMBOLGY_USER_SUPPLEMENTAL_2	112				
SYMBOLGY_MICROQR	113				
SYMBOLGY_CODE32	119				
SYMBOLGY_HANXIN	134				
SYMBOLGY_HANXIN_INVERSE	135				
SYMBOLGY_EAN128	137				
SYMBOLGY_GS1_DATABAR	139				
SYMBOLGY_GS1_DATAMATRIX	167				
SYMBOLGY_GS1_QRCODE	168				
SYMBOLGY_DOTCODE	169				



BLUEBIRD
A **TSC** Company

BLUEBIRD CUSTOMER SERVICE

Operating Hours

The center operates from Monday to Friday and is closed on Saturdays, Sundays, and Korean national holidays.

Bluebird Inc

3F, 115, Irwon-ro, Gangnam-gu,
Seoul, Republic of Korea (063555)

Bluebird constantly strives to bring utmost satisfaction to all our customers.