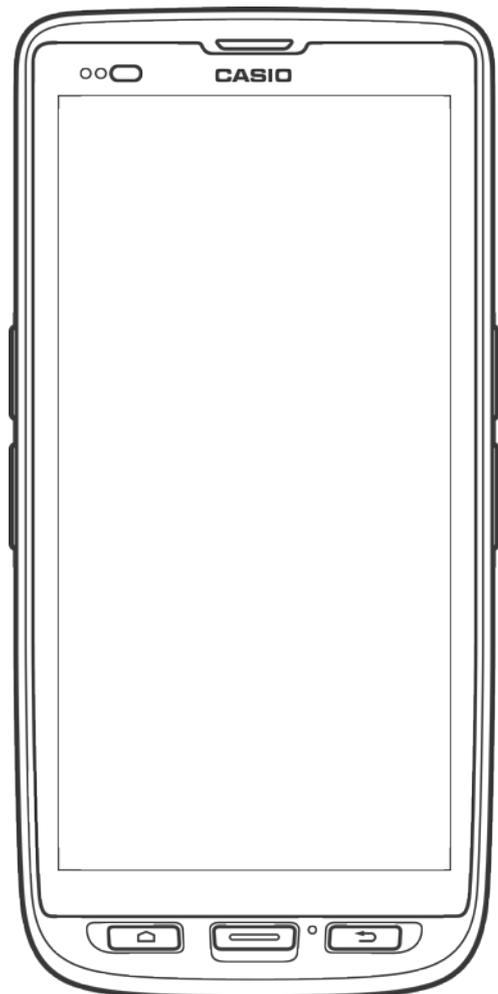


CASIO®

ET-L10 Series

Barcode Scanner Control Manual

This document explains how to control the barcode scanner on ET-L10.



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- Table of contents -

1. Overview	2
1.1 Purpose	2
2. Barcode Scanner Specification	3
2.1 Control Method	3
2.2 Basic Functions	3
2.2.1 Illumination and Aimer	3
2.2.2 Notification	4
2.2.3 Symbologies	5
2.2.4 Reading Conditions	7
2.2.5 Centering Mode	8
3. Scan Setting Control	10
3.1 Setting List	10
4. Application Control	16
4.1 Function List	16
4.2 Function detail	17
4.2.1 Launch Scan Setting	17
4.2.2 Open/Close the barcode scanner	17
4.2.3 Return all barcode scanner settings to default	17
4.2.4 Notification LED control	17
4.2.5 Notification Vibrator control	18
4.2.6 Notification Sound control	18
4.2.7 Readable barcode control	19
4.2.8 Output type control	20
4.2.9 Terminator control	21
4.2.10 Trigger key enable/disable control	21
4.2.11 Trigger key timeout control	21
4.2.12 Software control of Trigger key	22
4.3 Application Development	23
4.3.1 Permissions	23
4.3.2 API Level	23
4.3.3 Intent Filter	23
4.3.4 Control from multiple applications	23
4.3.5 Usage	24
4.3.6 Attention	24

1. Overview

1.1 Purpose

The barcode scanner installed in the ET-L10 provides barcode reading and output control etc.

This document describes these functions and the function that can be controlled from the application.

2. Barcode Scanner Specification

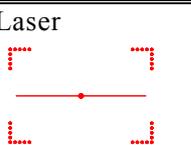
2.1 Control Method

There are two methods to control the barcode scanner installed in the ET-L10. The first method is to use setting tool "Scan Setting" installed in the device. The second method is that develop an application to change barcode scanner settings. To use Scan Setting, refer to "3 Scan Setting Control (p. 10)". And details on how to control from the application, refer to "4 Application Control (p. 16)".

2.2 Basic Functions

2.2.1 Illumination and Aimer

The barcode scanner has an illumination LED and a laser aimer to indicate the scan position. When reading(scanning) barcodes, the illumination and aimer light alternately.

Aimer shape	Description
	A frame showing the angle of view is displayed in the four corners, and a cross is displayed at the center. Since the optical axis of the camera and the aimer are not parallel, so the center of the camera and the aimer change with the distance from the object.

2.2.2 Notification

(1) Notification LED

When scanning and reading is completed or failed(canceled), notification LED is turned on. The following patterns can be set.

Device	Setting	Scanning	Scan success	Scan failed
LED	OFF	None	None	None
	ON (default)	Red	Blue	None

(2) Notification Sound

When reading is completed or failed(canceled), notification audio is played. The following patterns can be set.

Device	Setting	Scan success	Scan failed
Audio	SUCCESS OFF	None	-
	SUCCESS ON (default)	Success sound	-
	FAIL OFF (default)	-	None
	FAIL ON	-	Failure sound

(3) Notification Vibrator

When reading is completed or failed(canceled), notification vibrator vibrates. The following patterns can be set.

Device	Setting	Scan success	Scan failed
Vibrator	OFF (default)	None	None
	ON	Vibrate	None

2.2.3 Symbologies

Readable barcodes and settable conditions are shown below.

1D symbol

Symbol	Reading digits	Check Digit Calculation	Check Character Output	Other conditions
EAN8/JAN8	8 (+2/5)	Always enabled	Enable /Disable	2digit/5digit add ons
EAN13/JAN13	13 (+2/5)	Always enabled	Enable /Disable	2digit/5digit add ons
UPC-A	12 (+2/5)	Always enabled	Enable /Disable	Add output character 2digit/5digit add ons Extend EAN13
UPC-E	6 (+2/5)	Always enabled	Enable /Disable	Add output character 2digit/5digit add ons
Code39	1-48	Enable /Disable	Enable /Disable	Start/Stop code output Convert Full ASCII
Codabar (NW7)	2-60	Enable /Disable	Enable /Disable	Start/Stop code output
ITF (Interleaved 2 of 5)	2-80	Enable /Disable	Enable /Disable	
Code93	1-80	Always enabled	Always disabled	
Code128	1-80	Always enabled	Always disabled	
GS1 128(EAN128)	1-80	Always enabled	Always disabled	
MSI	4-48	Always enabled	Enable /Disable	
GS1 DataBar (RSS)	1-80 (※1)	Always enabled	Enable /Disable	GS1 DataBar-14 reading GS1 DataBar-Limited reading GS1 DataBar-Expanded reading

(※1) GS1 DataBar-14 and GS1 DataBar Limited are fixed 14 digits.

2D symbol (Stacked)

Symbol	Reading digits	Check Digit Calculation	Check Character Output	Other conditions
PDF417	1-2750	Always enabled	Always disabled	
MicroPDF	1-2750	Always enabled	Always disabled	
Composite	1-300	Always enabled	Always disabled	Composite Compatibility (EAN8/EAN13/UPC-A/UPC-E/GS1 DataBar/GS1 128)
GS1 DataBar (RSS) Stacked type (※1)	1-80 (※2)	Always enabled	Always disabled	GS1 DataBar-14/GS1 DataBar Expanded

(※1) Standard Omnidirectional type is included.

(※2) GS1 DataBar-14 Stacked type is fixed 14 digits.

2D symbol (Matrix code)

Symbol	Reading digits	Check Digit Calculation	Check Character Output	Other conditions
Aztec	1-3832	Always enabled	Always disabled	
QR Code / Micro QR Code	1-7089	Always enabled	Always disabled	Model 2 only (※1)
Maxicode	1-150	Always enabled	Always disabled	
DataMatrix	1-3166	Always enabled	Always disabled	ECC000/050/080/100/140/200
Han Xin (Chinese Sensible Code)	1-6000	Always enabled	Always disabled	

(※1) Model 1 is not supported.

Note!

Readable digits are changed depends on the print quality of the barcode and environmental conditions. Please check the barcode to be used.

2.2.4 Reading Conditions

It is possible to shorten the barcode reading time by setting the reading conditions.

(1) Specify the readable barcode

Specify the barcode to enable or disable reading. By setting to enable only the barcode to be used, it can shorten the reading time.

(2) Specify the number of reading digits

For each barcode, specify the minimum number of digits and the maximum number of digits to be read. By setting the number of reading digits per the barcode to be used, the misreading rate can be reduced.

(3) Check Digit Calculation, Check Character Output

For some barcodes, switchable enable/disable of "check digit calculation".

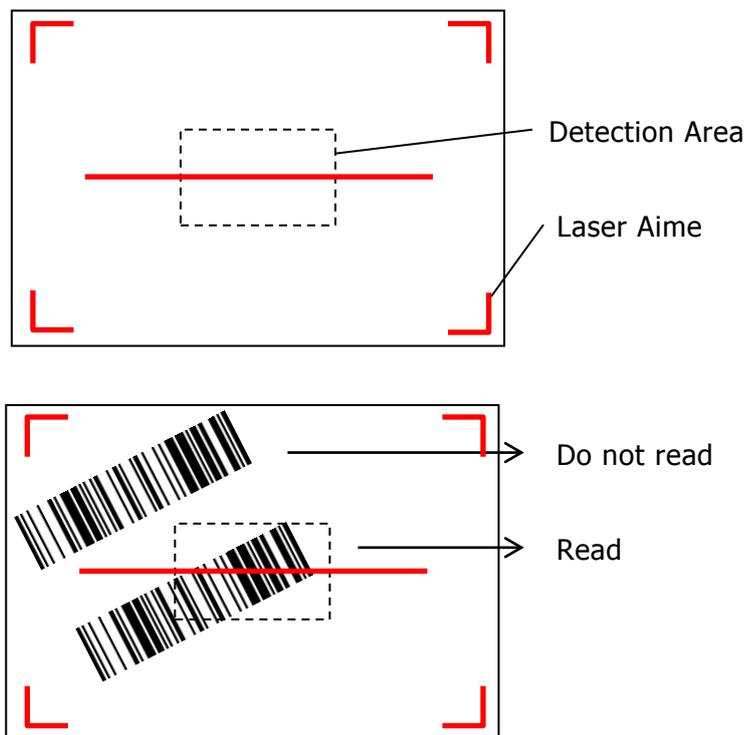
Also, specify whether to add "check character" to the read character string. By performing "check digit calculation", misreading rate can be reduced.

2.2.5 Centering Mode

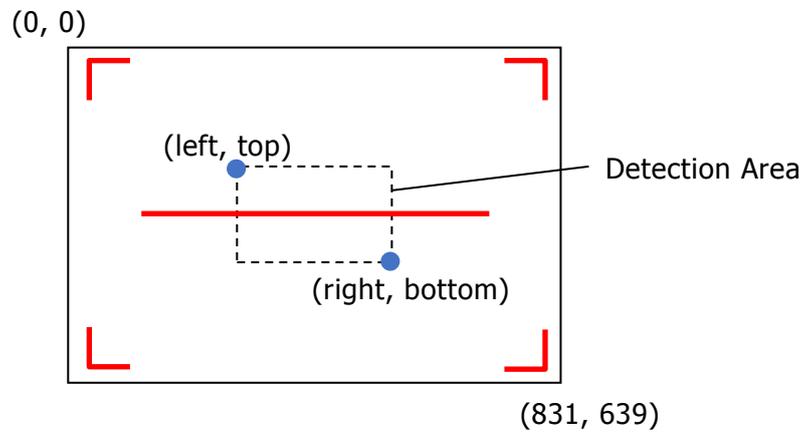
Centering Mode limits the detection area to the center of the angle. This is useful when read only the barcode at the center in a situation with crowded barcodes.

Setting	Explanation
Disable	Centering Mode is disabled (default)
Enable	Centering Mode is enabled

Refer to the figure below for the barcode that can be read while the centering mode is in effect. If part of the barcode is included in the detection area, read the barcode.



The detection area can be set by specifying two points. Set the detection area according to the customer's operation. Refer to the figure below for the coordinate system. The relationship between the laser aimer and coordinates changes depending on the distance or the angle from device to barcode.



3. Scan Setting Control

Scan Setting is a tool for changing barcode scanner settings. This is useful if not developing an application to control the barcode scanner.

3.1 Setting List

Function Name	Default	Function / Setable value
Barcode scanner	Open barcode scanner	Switch Open/Close barcode scanner. [Open barcode scanner], [Close barcode scanner]
Notification		
Success sound	Notification sound played in success	Set the behavior of the notification sound in success. [Notification sound played in success], [Notification sound not sound in success]
Fail sound	Notification sound not sound in fail	Set the behavior of the notification sound in failure. [Notification sound not sound in fail], [Notification sound played in fail]
Vibrator	Vibrator does not vibrate	Set the behavior of the notification vibrator in success. [Vibrator does not vibrate], [Vibrator vibrates in success]
Notification LED	Notification LED turns on	Set the behavior of the notification LED. [Notification LED turns on], [Notification LED turns off]
Symbology Setting		
Advanced setting		
About		

Inside Symbology Setting

Function Name	Default	Function / Setable value
All on/off setting		
All on/off	Enable all barcode	Set readable barcodes at once. [Enable all barcode], [Disable all barcode]
1D Symbologies		
Codabar	Enable	Set Enable/Disable. [Enable], [Disable]
Code39	Enable	Set Enable/Disable. [Enable], [Disable]
Code93	Enable	Set Enable/Disable. [Enable], [Disable]
Code128	Enable	Set Enable/Disable. [Enable], [Disable]
EAN8/JAN8	Enable	Set Enable/Disable. [Enable], [Disable]
EAN13/JAN13	Enable	Set Enable/Disable. [Enable], [Disable]
GS1 128	Enable	Set Enable/Disable. [Enable], [Disable]
ITF(Interleaved 2 of 5)	Enable	Set Enable/Disable. [Enable], [Disable]

MSI	Enable	Set Enable/Disable. [Enable], [Disable]
GS1 DataBar	Enable	Set Enable/Disable. [Enable], [Disable]
GS1 DataBar Limited	Enable	Set Enable/Disable. [Enable], [Disable]
GS1 DataBar Expanded	Enable	Set Enable/Disable. [Enable], [Disable]
UPC-A	Enable	Set Enable/Disable. [Enable], [Disable]
UPC-E	Enable	Set Enable/Disable. [Enable], [Disable]
UPC-E1	Enable	Set Enable/Disable. [Enable], [Disable]
2D Symbologies		
Micro PDF	Enable	Set Enable/Disable. [Enable], [Disable]
PDF417	Enable	Set Enable/Disable. [Enable], [Disable]
Aztec	Enable	Set Enable/Disable. [Enable], [Disable]
DataMatrix	Enable	Set Enable/Disable. [Enable], [Disable]
Han Xin	Enable	Set Enable/Disable. [Enable], [Disable]
Maxiode	Enable	Set Enable/Disable. [Enable], [Disable]
QR Code	Enable	Set Enable/Disable. [Enable], [Disable]
Composite	Enable	Set Enable/Disable. [Enable], [Disable]
Property settings		

Inside Advanced setting

Function Name	Default	Function / Setable value
Advanced setting		
Output type	Output to the focus edit box	Set the output type. [Output to the focus edit box], [Broadcast], [Keyboard event], [Store in clipboard]
Terminator	Enter	Set the terminator. [None], [Enter], [TAB], [LF]
Character set	auto	Set the character set. [auto], [GB2312], [GBK], [GB18030], [UTF-8], [ISO-8859-1], [BIG5], [SJIS], [EUC-JP]
Trigger key timeout (s)	10	Set the trigger key timeout. 1-10 seconds.
Centering Mode Setting	Centering Mode Off	Set the behavior of the centering mode. [Centering Mode Off], [Centering Mode On]
Detection area	Left: 386 Top: 290 Right: 446 Bottom: 350	Set the position of the detection area. Left, Right: 0-831 Top, Bottom: 0-639
Notification bar icon	Hide the notification bar icon	Set the behavior of the notification bar icon. [Hide the notification bar icon], [Show the notification bar icon]

Output log	Disable	Switch Enable/Disable log output. [Disable], [Enable]
Restore defaults	-	All barcode scanner settings return to the default.

Inside Property settings

Symbology Name	Property Name	Default	Function / Setable value
Aztec	Min Length	1	Set the minimum digit of reading. 1-3832
	Max Length	3832	Set the maximum digit of reading. 1-3832
Codabar	Check Digit Calculate	Disable	Set the reading operation according to the check digit calculation. [Enable], [Disable]
	Output Check Digit Character	Enable	Set the check digit character output. [Enable], [Disable]
	Output Start/Stop Character	Enable	Set the start/stop character output. [Enable], [Disable]
	Codabar Concatenate	Disable	Do not change this setting.
	Min Length	2	Set the minimum digit of reading. 2-60
	Max Length	60	Set the maximum digit of reading. 2-60
Code39	Check Digit Calculate	Disable	Set the reading operation according to the check digit calculation. [Enable], [Disable]
	Output Check Digit Character	Disable	Set the check digit character output. [Enable], [Disable]
	Output Start/Stop Character	Disable	Set the start/stop character output. [Enable], [Disable]
	Append	Disable	Do not change this setting.
	Full ASCII	Disable	Set the operation of converting to Full ASCII. [Enable], [Disable]
	Min Length	0	Set the minimum digit of reading. 0-48
	Max Length	48	Set the maximum digit of reading. 0-48
Code93	Min Length	0	Set the minimum digit of reading. 0-80
	Max Length	80	Set the maximum digit of reading. 0-80
Code128	Min Length	0	Set the minimum digit of reading. 0-80
	Max Length	80	Set the maximum digit of reading. 0-80
Composite	Composite UPC	Disable	Set whether to scan UPC/EAN Composite. [Enable], [Disable]
	Min Length	1	Set the minimum digit of reading. 1-300
	Max Length	300	Set the maximum digit of reading. 1-300
DataMatrix	Min Length	1	Set the minimum digit of reading. 1-3166
	Max Length	3166	Set the maximum digit of reading. 1-3166
EAN8	Output Check Digit Character	Disable	Set the check digit character output. [Enable], [Disable]
	Addenda Separator	Disable	Set the space output between barcode data and add-on. [Enable], [Disable]
	2-Digit Addenda	Disable	Set whether to scan the 2 digits add-on.

			[Enable], [Disable]
	5-Digit Addenda	Disable	Set whether to scan the 5 digits add-on. [Enable], [Disable]
	Addenda Required	Disable	Set whether to scan depending on the presence of add-on. [Enable], [Disable]
EAN13	Output Check Digit Character	Enable	Set the check digit character output. [Enable], [Disable]
	Addenda Separator	Disable	Set the space output between barcode data and add-on. [Enable], [Disable]
	2-Digit Addenda	Disable	Set whether to scan the 2 digits add-on. [Enable], [Disable]
	5-Digit Addenda	Disable	Set whether to scan the 5 digits add-on. [Enable], [Disable]
	Addenda Required	Disable	Set whether to scan depending on the presence of add-on. [Enable], [Disable]
GS1 128	Min Length	0	Set the minimum digit of reading. 0-80
	Max Length	80	Set the maximum digit of reading. 0-80
Han Xin	Min Length	1	Set the minimum digit of reading. 1-6000
	Max Length	6000	Set the maximum digit of reading. 1-6000
ITF (Interleaved 2 of 5)	Check Digit Calculate	Disable	Set the reading operation according to the check digit calculation. [Enable], [Disable]
	Output Check Digit Character	Disable	Set the check digit character output. [Enable], [Disable]
	Min Length	2	Set the minimum digit of reading. 2-80
	Max Length	80	Set the maximum digit of reading. 2-80
Maxiode	Min Length	1	Set the minimum digit of reading. 1-150
	Max Length	150	Set the maximum digit of reading. 1-150
Micro PDF	Min Length	1	Set the minimum digit of reading. 1-2750
	Max Length	2750	Set the maximum digit of reading. 1-2750
MSI	Output Check Digit Character	Disable	Set the check digit character output. [Enable], [Disable]
	Min Length	4	Set the minimum digit of reading. 4-48
	Max Length	48	Set the maximum digit of reading. 4-48
PDF417	Min Length	1	Set the minimum digit of reading. 1-2750
	Max Length	2750	Set the maximum digit of reading. 1-2750
QR Code	Min Length	1	Set the minimum digit of reading. 1-7089
	Max Length	7089	Set the maximum digit of reading. 1-7089
RSS	Min Length	1	Set the minimum digit of reading. 1-80
	Max Length	80	Set the maximum digit of reading.

			1-80
UPC-A	Output Check Digit Character	Enable	Set the check digit character output. [Enable], [Disable]
	Output System Character	Enable	Set the system character output. [Enable], [Disable]
	Addenda Separator	Disable	Set the space output between barcode data and add-on. [Enable], [Disable]
	2-Digit Addenda	Disable	Set whether to scan the 2 digits add-on. [Enable], [Disable]
	5-Digit Addenda	Disable	Set whether to scan the 5 digits add-on. [Enable], [Disable]
	Adenda Required	Disable	Set whether to scan depending on the presence of add-on. [Enable], [Disable]
	Translate UPCA to EAN13	Disable	Set the operation of converting to EAN13. [Enable], [Disable]
UPC-E	Output Check Digit Character	Enable	Set the check digit character output. [Enable], [Disable]
	Output System Character	Enable	Set the system character output. [Enable], [Disable]
	Addenda Separator	Disable	Set the space output between barcode data and add-on. [Enable], [Disable]
	2-Digit Addenda	Disable	Set whether to scan the 2 digits add-on. [Enable], [Disable]
	5-Digit Addenda	Disable	Set whether to scan the 5 digits add-on. [Enable], [Disable]
	Adenda Required	Disable	Set whether to scan depending on the presence of add-on. [Enable], [Disable]

4. Application Control

4.1 Function List

The following functions can be controlled from the application by the barcode scanner installed in the ET-L10. Please issue the following intent to use.

Function	Action
Launch the Scan Setting	"android.intent.action.LAUNCH_SCANSETTING"
Open/Close the barcode scanner	"android.intent.action.BARCODESCAN"
Return all barcode scanner settings to default	"android.intent.action.DEFAULT"
Notification LED control	"android.intent.action.LIGHT"
Notification Vibrator control	"android.intent.action.VIBRATE"
Notification Sound control	"android.intent.action.BEEP"
	"android.intent.action.FAILUREBEEP"
Readable barcode control	"android.intent.action.ENABLESYMBOLOGIES"
Output type control	"android.intent.action.BARCODEOUTPUT"
Terminator control	"android.intent.action.TERMINATOR"
Trigger key enable/disable control	"android.intent.action.SCANBYTRIGGERKEY"
	"android.intent.action.NOTSCANBYTRIGGERKEY"
Trigger key timeout control	"android.intent.action.TIMEOUT"
Software control of Trigger key	"android.intent.action.BARCODESTARTSCAN"
	"android.intent.action.BARCODESTOPSCAN"

4.2 Function detail

4.2.1 Launch Scan Setting

Launch "Scan Setting (Barcode scanner setting change tool)".

action	"android.intent.action.LAUNCH_SCANSETTING"
--------	--------------------------------------------

4.2.2 Open/Close the barcode scanner

Open/Close the barcode scanner. Open when use the barcode scanner, Close when not using it.

If change the barcode scanner settings when it is Close, the function may not work properly.

action	"android.intent.action.BARCODESCAN"
extra key	Same as action
extra value	boolean true : Open the barcode scanner false : Close the barcode scanner

4.2.3 Return all barcode scanner settings to default

All barcode scanner settings return to the default.

action	"android.intent.action.DEFAULT"
--------	---------------------------------

4.2.4 Notification LED control

Control the behavior of the notification LED.

When enabled, the notification LED lights blue in success, and lights red in pressed the trigger key. (default)

When disabled, the notification LED does not light.

action	"android.intent.action.LIGHT"
extra key	Same as action
extra value	boolean true : Enable the notification LED false : Disable the notification LED

4.2.5 Notification Vibrator control

Control the behavior of the notification vibrator.

When enabled, the notification vibrator vibrates in success.

When disabled, the notification vibrator does not vibrate. (default)

action	"android.intent.action.VIBRATE"
extra key	Same as action
extra value	boolean true : Enable the notification vibrator false : Disable the notification vibrator

4.2.6 Notification Sound control

Control the behavior of the notification sound depending on the scan result.

When enabled, the notification sound plays in success. (default)

When disabled, the notification sound does not play in success.

action	"android.intent.action.BEEP"
extra key	Same as action
extra value	boolean true : Enable the notification sound in success false : Disable the notification sound in success

When enabled, the notification sound plays in failure.

When disabled, the notification sound does not play in failure. (default)

action	"android.intent.action.FAILUREBEEP"
extra key	Same as action
extra value	boolean true : Enable the notification sound in failure false : Disable the notification sound in failure

4.2.7 Readable barcode control

Set Enable/Disable of the specified symbology.

action	"android.intent.action.ENABLESYMBOLOGIES"
extra key1	"symbologies"
extra value1	int 0 : Aztec 1 : Codabar 3 : Code128 4 : Code39 6 : Code93 7 : Composite 8 : DataMatrix 9 : EAN8 10 : EAN13 11 : Interleaved 2 of 5(ITF) 12 : Maxicode 13 : Micro PDF 15 : PDF417 17 : QR code 18 : GS1 DataBar 19 : UPC-A 20 : UPC-E0 21 : UPC-E1 31 : MSI 47 : GS1 128 48 : Han Xin 99 : All barcode
extra key2	"enable"
extra value2	boolean true : Enable (Readable) false : Disable (Not read)

4.2.8 Output type control

Control the behavior of the output type.

When "Output to the focus edit box" specified, the scan result outputs to the focused edit box. (default)

When "Broadcast" specified, the scan result is broadcast. Refer to the bellow table about the intent filter to receive.

When "Keyboard event" specified, the scan result outputs by key event.

When "Store in clipboar" specified, the scan result stored in the clipboard.

action	"android.intent.action.BARCODEOUTPUT"
extra key1	Same as action
extra value1	int 0 : Output to the focus edit box 1 : Broadcast 2 : Keyboard event 3 : Store in clipboar

Intent filter for receive

action	"android.intent.action.SCANRESULT"
extra key1	"value"
extra value1	String Scan result data
extra key2	"byteData"
extra value2	byte[] Sacn result data(byte)
extra key3	"length"
extra value3	int Scan result length
extra key4	"type"
extra value4	int Read symbologie's ID 122 : Aztec 97 : Codabar 106 : Code128 98 : Code39 105 : Code93 119 : DataMatrix 68 : EAN8 100 : EAN13 101 : Interleaved 2 of 5(ITF) 120 : Maxicode 82 : Micro PDF 114 : PDF417 115 : QR code 121 : GS1 DataBar 123 : GS1 DataBar Limited 125 : GS1 DataBar Expanded 99 : UPC-A 69 : UPC-E0 69 : UPC-E1 103 : MSI 73 : GS1 128 72 : Han Xin

	When read "Composite" code, the obtained ID depends on the 1D barcode placed in the lower.
extra key5	"decodetime"
extra values5	int Reading time

4.2.9 Terminator control

Control the terminator to be added to the end of the scan result.

When "Output to the focus edit box" or "Keyboard event" specified to the output type, the terminator can add the behavior such as line break. Default terminator is "Enter".

action	"android.intent.action.TERMINATOR"
extra key1	Same as action
extra value1	int 0 : None 1 : Enter 2 : TAB 3 : LF

4.2.10 Trigger key enable/disable control

Set Enable/Disable of the trigger key.

If want to switch use/unuse the barcode scanner at high speed, it is recommended to use this function instead of Open/Close the barcode scanner.

[When use the trigger key]

action	"android.intent.action.SCANBYTRIGGERKEY"
--------	------------------------------------------

[When unused the trigger key]

action	"android.intent.action.NOTSCANBYTRIGGERKEY"
--------	---------------------------------------------

4.2.11 Trigger key timeout control

Control the timeout of the trigger key.

Specify a value in seconds. The settable range is 1 to 10, and the default is 10 seconds.

action	"android.intent.action.TIMEOUT"
extra key1	Same as action
extra value1	int The range is 1 to 10.

4.2.12 Software control of Trigger key

Control the behavior of the trigger key by software.

[When the trigger key is pressed]

action	"android.intent.action.BARCODESTARTSCAN"
--------	------------------------------------------

[When the trigger key is released]

action	"android.intent.action.BARCODESTOPSCAN"
--------	-----------------------------------------

4.3 Application Development

Describe how to develop applications using the intents.

4.3.1 Permissions

There is no Android permission required to use the intents.

4.3.2 API Level

There are no restrictions on the API level for using the intents. For the minimum API level and target API level, set appropriate levels according to the OS and functions used by the application creator.

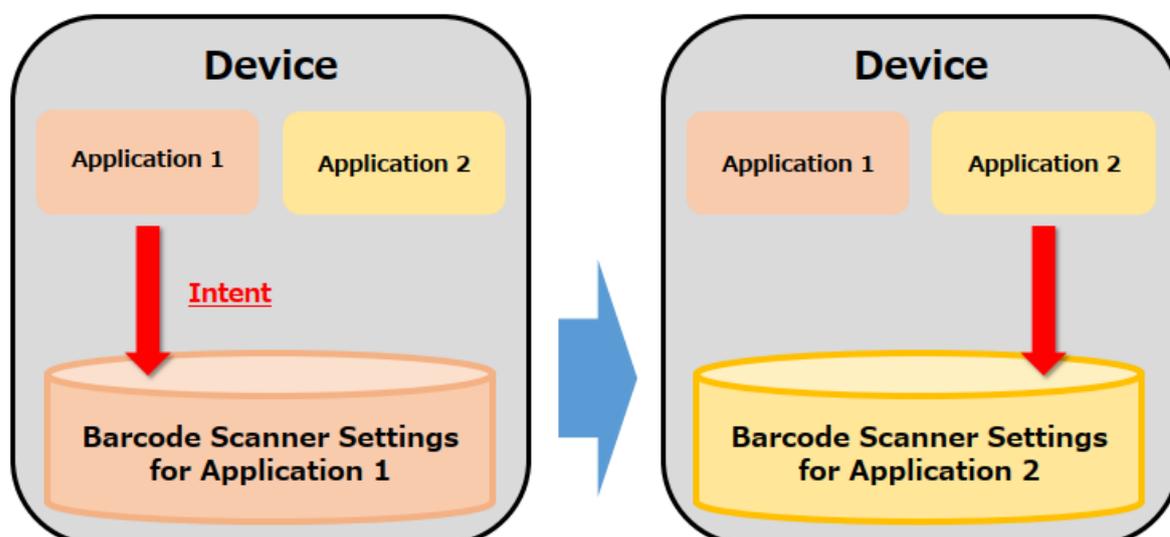
4.3.3 Intent Filter

If "Broadcast" is specified for the output type, create an intent filter and obtain the scan result. Refer to "4.2.8 Output type control (p. 20)".

4.3.4 Control from multiple applications

If multiple applications are change the barcode scanner setting, the later changing will be applied.

For example, if the Application 2 changes the barcode scanner setting after the Application 1 changes, the setting of the barcode scanner becomes the setting of Application 2.



4.3.5 Usage

Describe the standard intent issuing method for Android.

```
public static final String SCANNER_OPENCLOSE = "android.intent.action.BARCODESCAN";

public void openScanner() {
    Intent intent = new Intent(SCANNER_OPENCLOSE);
    intent.putExtra(SCANNER_OPENCLOSE, true);
    sendBroadcast(intent);
}
```

4.3.6 Attention

When developing an application, refer to "4.2 Function detail (p. 17)" and set the correct parameters. Operation is not guaranteed if invalid parameters are set.

Due to the nature of the intent, the application that issued the intent cannot detect that the intent has been successful (the barcode scanner setting has changed completely).

When developing an application, check the timing and other operations.