2D Barcode Scanner User Manual

V1.0

Chapter 1 Comprehensive Settings

1.1 Version number

Use the scanner to scan the version number barcode, you can view the current scanner version number information.

Version number

1.2 Default settings

All scanners have a default setting. Reading the "Restore Factory Default" setting barcode will make all the scanner's properties setting software default state.

Restore factory default

1.3 Sound settings

All Sound

On*

Off

Power-on Sound

Turn on or turn off the beep sound when starting up

On*

Off

Sound for reading successful

On*

Off

Sound volume for reading successful

Low

Medium

High*

1.4 Iindicator Light

On*

Off

Duration of the indicator light

100ms

200ms*

500ms

1.5 Lighting settings

Fill light illuminator

On*

Off

Always On

Aiming light

On*

Off

Always On

1.6 Data Format

Data input format

Auto*

GGBK (GB2312)

UTF-8

Data output format

Codeepage code (notepad, Excel, etc.)

Unicode code (WORD)

1.7 Image recognition settings

Image inversion (reverse white) setting

Normal barcode: dark barcode with light background

Inverted barcode: light barcode with dark background

Inverse: On

Inverse: Off*

1D Inverse: On

1D Inverse: Off*

QR Inverse: On

QR Inverse: Off*

Data Matrix Inverse: On

Data Matrix Inverse: Off*

PDF 417 Inverse: On

PDF 417 Inverse: Off*

Chapter 2 Communication Settings

Introduction

When using this scanner to communicate with different hosts, you need to set the scanner to the corresponding communication interface mode. You can set the scanner's functions by scanning one or more setting bar codes. You can choose to use USB (USB-KBW, USB-COM), TTL, RS232 serial communication interface modes, etc.

2.1 USB keyboard interface

The default scanner uses USB-KBW communication, simulating USB keyboard input mode, no driver installation is required.

USB-KBW*

2.2 National keyboard layout

The keyboard layout setting is applicable to the USB-KBW interface mode, and the default is "American English keyboard".

American English*

Germany (German)

United Kingdom (British English)

Spain (Spanish)

France (French)

Italy (Italian)

Portugal (Portuguese)

Brazil (Portuguese)

Belgium (Dutch)

Turkish-Q

2.3 Case Conversion

Normal*

Upper

Lower

Inverse

2.4 USB transmission speed (delay between characters)

Keyboard output character interval, default: 2ms

Default*

No delay

Short delay

Long delay

USB polling speed

The keyboard polling speed can be set to 1~10 ms by the following setting code. The smaller the set value, the faster the reading module can send characters to the host. If the host will lose characters, please increase the polling speed setting value.

Polling speed 1ms*

Polling speed 2ms

Polling speed 3ms

Polling speed 4ms

Polling speed 5ms

Polling speed 6ms

Polling speed 7ms

Polling speed 8ms

Polling speed 9ms

Polling speed 10ms

2.5 USB-COM virtual serial interface

When the scanner uses a USB connection, and at the same time you want the host to receive data through a serial port, you should use the USB virtual serial port. From the point of view of the host system interface, the scanner is equivalent to connecting with the host through a serial port. This function requires the corresponding driver to be installed on the host.

USB-COM

2.6 USB HID-POS interface

The USB HID-POS interface is recommended for new application software. Based on the HID interface, no driver is required.

USB HID-POS

Protocol format

vid：0x26f1

pid：0x8803

Host send data format

Byte	content
0	Message ID (0x04)
1	Effective data length
2-61	data
62	0x00, 1 byte reserved
63	0x00 (no data behind) 0x01 (data behind)

Data format sent by scanning device to host

Byte	content
0	Message ID (0x02)
1	Effective data length
2-57	data
58-62	0x00, 5 bytes reserved
63	0x00 (no data behind) 0x01 (data behind)

2.7 TTL/RS232 serial interface

The default communication protocol of the serial port: baud rate 9600, data bit 8 bits, check character NONE, stop bit 1 bit.

TTL/RS232

parameter	default
Serial communication type	Standard TTL/RS232
Baud Rate	9600
Parity Type	None
Data Bits	8
Stop Bits	1

Baud rate

1200bps

2400bps

4800bps

9600bps*

19200bps

38400bps

57600bps

115200bps

Parity Type

Odd parity ODD

Even parity EVEN

NONE*

Chapter 3 Reading Mode

3.1 Manual reading mode

Set to manual reading mode, press the button to start reading, and the reading will not stop when the button is released, the reading will stop if the reading is successful or the reading exceeds the single reading time.

Manual*

Manual – Trigger Timeout

When timeout is reached, the scanner stops scanning and waits for another trigger press.

3000ms*

5000ms

3.2 Continuous reading mode

After setting, the scanner will be in continuous scanning state without triggering and the scanning engine starts to scan the code immediately. When the scanning is successful or the single scanning time is over, the scanning engine will wait for a period of time (settable) and it will start next scanning automatically.

Continuous

Continuous - single reading time

In the continuous mode, it refers to the maximum duration of continuous acquisition and recognition before the reading is successful. After the timeout, it will enter the interval of no acquisition and reading according to the setting. The default time is 3000ms.

Quick setting of single reading time

3000ms*

5000ms

Continuous – Delay between double scanning

The default time is 1000ms

500ms

1000ms*

2000ms

5000ms

0ms

3.3 Inductive / auto-sensing reading mode

In the auto-sensing mode, the reading module will monitor the captured images. When the scene changes, it will be read within the "single reading time" within a limited time. After the reading is successful, it will output information or timeout, and then re-enter the monitoring the state of the scene change.

When the reading module works in this mode, it can also respond to the trigger level and enter the reading state. After the trigger level is cancelled, the reading is successful, or the timeout, it will re-enter the state of monitoring scene changes. Before entering the monitoring state again, the trigger level needs to be cancelled.

auto-sensing mode

Induction mode-single reading time limit

Single reading time limit: it is the longest time allowed to maintain the shooting and reading attempt after the scene change is monitored and the reading state is entered, and the reading is not successful. When this time is exceeded, the reading state will return to the monitoring state. The default time is 3000ms.

3000ms*

5000ms

Induction reading mode-same barcode reading delay

The same barcode reading delay means that after reading a barcode, within the set time, refuse to read the same barcode. Only after the duration has expired can it be read and output.

a.) Set to "Reading the same barcode without delay", the same barcode will be output immediately after reading.

b.) Set to "require the same barcode reading delay" and set "reread timeout without reset", which means that the same barcode can be read and transmitted after the timeout limit time after reading the same barcode.

c.) Set to "require the same barcode reading delay" and set "reread timeout reset", which means that the same barcode will not be read and transmitted if it continues to read the same barcode.

No delay when reading the same barcode*

Require the same barcode reading delay

Reread timeout without reset

Reread timeout reset

Read the following setting codes, you can quickly modify the limit value of the same code reading delay time. The default duration is 1500ms.

1000ms

1500ms*

3000ms

5000ms

Induction Mode-Sensitivity

Sensitivity refers to the degree of change in the detection scene in the induction reading mode. When the reading module judges that the degree of scene change meets the requirements, it will switch from the monitoring state to the reading state.

Very high sensitivity

High sensitivity*

Medium sensitivity

Low sensitivity

Chapter 4 Data Editing

Introduction

This is the prefix and suffix of the barcode data information, Which not only satisfies the demand but does not need to modify the content of the barcode information.

Data editing format:

<Code ID><custom prefix><barcode data><custom suffix><terminator>

4.1 Code ID settings

Code ID prefix

We can use the Code ID prefix to identify the barcode type. Please refer to "Appendix-Code ID" for the corresponding barcode type of Code ID.

The default is "Turn off Code ID".

Turn on Code ID

Turn off Code ID*

Restore all barcode Code ID default values

Code ID prefix order

Code ID + custom prefix*

Custom prefix + Code ID

4.2 Custom Code ID

The Code ID corresponding to each barcode type can be modified freely. The Code ID of all barcodes is 1 character and must be a letter, and cannot be set as a number, invisible character, or punctuation, etc.

The Code ID of each barcode type can be modified independently, it needs to be used by reading the corresponding setting code and combining with the data code.

Modify PDF417 Code ID

Modify Code128 Code ID

Modify QR Code ID

Modify DM Code ID

Modify EAN8 Code ID

Modify EAN13 Code ID

Modify UPCE0 Code ID

Modify UPCE1 Code ID

Modify UPCA Code ID

Modify IATA25 Code ID

Modify Code 39 Code ID

Modify Code 93 Code ID

Modify Interleaved 2 of 5 Code ID

Modify Codabar Code ID

Modify Industrial 25 Code ID

Modify Matrix 25 Code ID

Modify Code 11 Code ID

Modify MSI Plessey Code ID

Modify Micro QR Code ID

Modify Code32 Code ID

Modify ISBN Code ID

Modify ISSN Code ID

Modify GS1 DataBar Code ID

Modify GS1 DataBar Limited Code ID

Modify GS1 DataBar Expanded Code ID

For example: Modify PDF417 Code ID to the letter ‘p’

1. Look up the table and get the hexadecimal value corresponding to "p" is 70;

2. Scan the "modify PDF417 Code ID" setting code;

3. Scan the "7" and "0" setting codes in "Appendix-Data Code" in turn;

4. Scan the "Save" setting code in "Appendix-Save and Cancel Settings";

4.3 User-defined prefix

Send user-defined prefix

If the user has set a custom prefix, the scanner needs to be set to transmit the custom prefix to transmit the user-defined prefix information. The default is "Do not transmit user-defined prefixes".

Send user-defined prefix

Do not transmit user-defined prefixes*

User-defined prefix setting

Users can set custom prefixes for different barcode types according to the "Appendix-Code ID" information. Add up to 10 characters for the custom prefix.

Set custom prefix

For example: Add a custom prefix of XYZ to all barcode types

The HEX corresponding to XYZ is 58, 59, 5A by querying.

Step 1: Scan the "Set custom prefix" setting code;

Step 2: Scan "5", "8", "5", "9", "5", and "A" in "Appendix-Data Code" in turn.

Step 3: Scan "Appendix-Save or Cancel" the "Save" setting code.

Step 4: Scan the " Send user-defined Prefix" setting code to complete the configuration.

4.4 User-defined suffix

Send user-defined suffix

If the user has set a custom suffix, the scanner needs to be set to transmit the custom suffix to transmit the user-defined suffix information. The default is "Do not transmit user-defined suffixes".

Send user-defined suffix

Do not transmit user-defined suffixes*

User-defined suffix setting

Users can set custom suffixes for different barcode types according to the "Appendix-Code ID" information. Add up to 10 characters for the custom suffix.

Set custom suffix

For example: Add a custom suffix of XYZ to all barcode types

The HEX corresponding to XYZ is 58, 59, 5A by querying.

Step 1: Scan the "Custom Suffix" setting code;

Step 2: Scan "5", "8", "5", "9", "5", and "A" in "Appendix-Data Code" in turn.

Step 3: Scan "Appendix-Save or Cancel" the "Save" setting code.

Step 4: Scan the " Send user-defined suffix" setting code to complete the configuration.

4.5 Hidden characters

The function of hiding characters can realize the function of displaying only a certain segment of data by controlling different fields of the barcode content to achieve the function of hiding the data.

First, we divide a barcode data into three groups of Start, Center, and End data, and then set the length of the Start and End according to actual needs. Finally, set the fields that need to be displayed according to actual needs.

Step 1: Set the field length

Set the length of the Start field

Set the length of End field

Note: The length of the field is in bytes (1 byte for English characters and 2 bytes for Chinese characters), using hexadecimal data for configuration. The length modification range is 0-255.

For example: Set the length of the Start field to 4 (hexadecimal 0x04) and the length of the End field to 12 (hexadecimal 0x0C).

Step 1: Scan the "Set Start field length" setting code;

Step 2: Scan the number “0” "4" of "Appendix-Data Code" to set the code;

Step 3: Scan the "Save" setting code of "Appendix-Save and Cancel Settings".

Step 4: Scan the "Set End Field Length" setting code;

Step 5: Scan the "Appendix-Data Code" number "0" "C" setting code in turn;

Step 6: Scan the "Save" setting code of "Appendix-Save and Cancel Settings".

Step 2: Set the transmission field

Transfer complete Data field*

Only the Start field is transmitted

Only transfer the Center field

Only the End field is transmitted

For example: After setting the complete Data barcode "12345678901234567890", the length of the Start field is 4 and the length of the End field is 12:

Set "Transfer Complete Data Field" and the output result is: 12345678901234567890

Set "only transfer Start field", output result is: 1234

Set "only transfer Center field", output result is: 5678

Set "Transfer End Field Only", the output result is: 901234567890

4.6 Terminator

The terminator is used to mark the end of a complete data message. The terminator must be the last content when a piece of data is sent, and there will be no additional data after that.

Allow terminator*

Do not add terminator

CR*

CR+LF

Custom Terminator

Read the "Modify Terminator" and combine to read the data code to modify the character content of the terminator.

When modifying end terminator, use 2 hexadecimal values to represent the characters, and read 2 or 4 values sequentially to represent 1 character or 2 characters. For the hexadecimal conversion of characters, please refer to "Appendix-ASCII Code Table".

Modify Terminator

For example: Modify terminator to 0x0D

1. Scan the " Modify Terminator " setting code;

2. Scan the "0" and "D" setting codes in "Appendix-Data Code" in turn;

3. Scan the "Save" setting code in "Appendix-Save and Cancel Settings";

Chapter 5 Barcode Parameter Setting

Introduction

Each type of barcode has its own unique attributes, and the scanner can be adjusted to adapt to these attribute changes through the setting codes in this chapter. The fewer barcode types that enable "Allow Reading", the faster the scanning speed of the scanner. You can prevent the scanner from reading unused barcode types to improve the scanner's working performance.

5.1 Global Settings

All barcodes

Turn on all barcodes

Turn off all barcodes

All 1D barcodes

Turn on all 1D barcodes

Turn off all 1D barcodes

All 2D barcodes

Turn on all 2D barcodes

Turn off all 2D barcodes

5.2 UPC-A

On*

Off

Transmit Check Character

The UPC-A barcode data is fixed to 12 characters, and the 12th digit is the check character, which is used to verify the correctness of all 12 characters. The default is to transmit the check character.

Transmit check character*

Do not transmit check characters

Transmit system characters

The first digit of UPC-A barcode is a system character, and its value is fixed as "0"

Transmist system characters*

Do not transmit system characters

2/5 additional bits

Additional digits refer to the 2 or 5 digital barcodes appended to the normal barcode, as shown in the figure below. The blue line frame on the left is the normal barcode, and the red line frame on the right is the additional digit. The default is closing the additional digits.

Turn on 2 additional bits

Turn off 2 additional bits*

Turn on 5 additional bits

Turn off 5 additional bits*

Convert UPC-A to EAN-13

On

Off*

5.3 UPC-E

UPC-E0

On*

Off

Transmit check character

UPC-E0 barcode data is fixed to 8 characters, the 8th digit is a check character, used to verify the correctness of all 8 characters. The default is to transmit a check character.

Transmit check character*

Do not transmit check characters

Transmit system characters

Transmit system characters*

Do not transmit system characters

UPC-E1

On*

Off

Transmit check character

UPC-E1 barcode data is fixed to 8 characters, and the 8th digit is a check character, which is used to verify the correctness of all 8 characters. The default is to transmit a check character.

Transmit check character*

Do not transmit check characters

Transmit system characters

Transmit system characters*

Do not transmit system characters

2/5 additional bits

Additional digits refer to the 2 or 5 digital barcodes appended to the normal barcode, as shown in the figure below. The blue line frame on the left is the normal barcode, and the red line frame on the right is the additional digit. The default is closing the additional digits.

Open 2 additional bits

Turn off 2 additional bits*

Open 5-digit additional bit code

Turn off 5 additional bits*

5.4 EAN-8

On*

Off

Transmit check character

The EAN-8 barcode data is fixed to 8 characters, and the 8th digit is the check character, which is used to verify the correctness of all 8 characters. The default is to transmit the check character.

Transmit check character*

Do not transmit check characters

2/5 additional bits

Additional digits refer to the 2 or 5 digital barcodes appended to the normal barcode, as shown in the figure below. The blue line frame on the left is the normal barcode, and the red line frame on the right is the additional digit. The default is closing the additional digits.

Open 2 additional bits

Turn off 2 additional bits*

Open 5-digit additional bit code

Turn off 5 additional bits*

5.5 EAN-13

On*

Off

Transmit check character

The EAN-13 barcode data is fixed to 13 characters, and the 13th digit is the check character, which is used to verify the correctness of all 13 characters. The default is to transmit the check character.

Transmit check character*

Do not transmit check characters

2/5 additional bits

Additional digits refer to the 2 or 5 digital barcodes appended to the normal barcode, as shown in the figure below. The blue line frame on the left is the normal barcode, and the red line frame on the right is the additional digit. The default is closing the additional digits.

Open 2 additional bits

Turn off 2 additional bits*

Open 5-digit additional bit code

Turn off 5 additional bits*

Convert to ISBN

On

Off*

Convert to ISSN

On

Off*

5.6 Code 128

On*

Off

5.7 Code 39

On*

Off

Check character setting

Code 39 barcode data is not mandatory to include a check character. If there is a check character, it is the last character of the data. The check character is a value calculated based on all data to check whether the data is correct. You can turn on or off the check according to your needs, and set whether to transmit verification characters.

Off*

Check and transmit verification

Check but do not transmit verification

Transmit start and end character

Code 39 barcode data has a character "*" before and after it is used as the start character and stop character. You can set whether to transmit the start character and stop character together with the barcode data after the barcode is successfully read.

Transmit start and end character

Do not transmit start and end characters*

Full ASCII recognition range

Code 39 code data can include all ASCII characters, but the scanner only reads part of ASCII characters by default. By setting, you can turn on the function of reading complete ASCII characters

The default is "Do not recognize full ASCII characters"

Recognize full ASCII characters

Does not recognize full ASCII characters*

5.8 Code 32

Code 32, Code 32 Pharmaceutical, is a form of Code 39 barcode used by Italian pharmacies. This bar code is also called PARAF.

The output format of Code 32 is: The output format is: * + A + 8 digits + 1 digit check + *.

On

Off*

Note: Code 32 is converted from Code39 to Code32. When Code32 is turned on, Code 39 will be affected. It can be read only when Code39 is enabled and without verification, and Code 32 can be read without verification. .

5.9 Code 93

On*

Off

5.10 Codabar (NW-7)

On*

Off

Check digit setting

Off*

MODE 10, Transmit

MODE 10, Not Transmit

MODE 16, Transmit

MODE 16, Not Transmit

Start and stop character setting

Codabar start and end characters are allowed to be one of the four characters "A", "B", "C", and "D"; the terminator is also allowed to be "T", "N", "*", " E" one of these four characters. The start and end characters are not transmitted by default

Do not transmit start and end characters*

Start and end characters ABCD/ABCD

Start and end ABCD/TN*E

Start and end abcd/abcd

Start and end abcd/tn*e

5.11 Interleaved 2 of 5

On*

Off

Check character setting

Interleaved 2 of 5 barcode data is not mandatory to include a check character. If there is a check character, it is the last character of the data. The check character is a value calculated based on all data to check whether the data is correct. You can turn on or off the check according to your needs, and set whether to send check characters.

The code digits of Interleaved 2 of 5 barcodes must be even, the check character is included in the code, if it is odd, the first digit must be 0.

Off*

Check and Transmit

Check but Not Transmit

5.12 Matrix 2 of 5

On

Off*

Check character setting

Matrix 2 of 5 barcode data is not mandatory to include a check character. If there is a check character, it must be the last byte of the data. The check character is a value calculated from all data except the check character to verify whether the data is correct.

Off*

Check and Transmit

Check but Not Transmit

5.13 Industrial 2 of 5

On

Off*

Check character setting

Industrial 2 of 5 barcode data does not compulsorily include a check character. If there is a check character, it must be the last byte of the data. The check character is a value calculated from all data except the check character, used to check whether the data is correct.

Off*

Check and Transmit

Check but Not Transmit

5.14 Standard 2 of 5(IATA)

On

Off*

Check character setting

Standard 2 of 5 barcode data is not mandatory to include a check character. If there is a check character, it must be the last byte of the data. The check character is a value calculated from all data except the check character, used to check whether the data is correct.

Off*

Check and Transmit

Check but Not Transmit

5.15 Code 11

On

Off*

5.16 MSI Plessey

On

Off*

5.17 QR Code

On*

Off

5.18 Micro QR Code

On

Off*

5.19 Data Matrix

On*

Off

5.20 PDF 417

On*

Off

5.21 Micro PDF 417

On

Off*

5.22 Aztec Code

On

Off*

5.23 GS1 DataBar 14

On*

Off

5.24 GS1 DataBar Limited

On*

Off

5.25 GS1 DataBar Expanded

On*

Off

Chapter 6 Appendix

6.1 Appendix-Data Code

0

1

2

3

4

5

6

7

8

9

A

B

C

D

E

F

6.2 Appendix-save and cancel settings

After reading the data code, you must read the save code to save the read data. If an error occurs when reading the data code, you can cancel reading the wrong data in addition to resetting.

For example, read a certain setting code and read the data "1", "2", and "3" in turn. At this time, if you read "cancel the previous data read", the last read number "3" will be cancelled , If you read "Cancel a string of data previously read", the read data "123" will be canceled; if you read "Cancel current setting", it will cancel the setting code together.

Save Settings

Cancel the previous data read

Cancel a string of data previously read

Cancel current setting

6.3 Appendix-Default Setting Table

Parameter Name	Default Setting	Description
Comprehensive settings		
Setting code function	ON	Default On
Send setting code	OFF	
All tones	ON	
Power-on prompt	ON	
Setup code prompt tone	ON	
Prompt for successful reading	ON	
Volume	high	
Reading success indicator light	ON	
Duration of the indicator light	ON	200ms
Fill light	ON	
Aiming light	ON	
Aiming light flashes	ON	
Image inversion	OFF	
Communication settings		
Interface mode	USB-KBW	
Inter-character delay	2ms	
USB polling speed	1ms	
Keyboard mode	American English	

Baud rate	9600
Serial verification	NONE
Data bit	8 bits
Stop bit	1bit
Reading mode	
Reading mode	Manual reading
Manual reading mode-single reading time	3s
Manual reading mode-the same barcode reading delay	No delay
Continuous reading mode-single reading time	3s
Continuous reading mode-reading interval time	1000ms
Continuous reading mode-the same barcode reading delay	No delay
Induction reading mode-single reading time	3s
Induction reading mode-induction sensitivity	High sensitivity
Data editing	
Send Code ID	OFF

Code ID prefix	Code ID+ Custom prefix	
Send custom prefix	OFF	
Send custom suffix	OFF	
Hide header data	OFF	
Hide central data	OFF	
Hide tail data	OFF	
Allow terminator	ON	
Terminator	ON	CR
Barcode parameter setting		
All barcode type	OFF	
All 1D barcode	OFF	
All 2D barcode	OFF	
UPC-A		
Allow reading	ON	
Transmit check character	ON	
Transmit system characters	ON	
Read 2 additional bits	OFF	
Read 5 additional bits	OFF	
Convert to EAN-13	OFF	
UPC-E		
Allow reading UPC-E0	ON	
UPC-E0 Transmit system character	ON	

Allow reading UPC-E1	ON
Transmit check character	ON
UPC-E1 Transmit system characters	ON
Read 2 additional bits	OFF
Read 5 additional bits	OFF
Mandatory additional bits, 2 bits allowed	OFF
Mandatory additional bits, 5 bits allowed	OFF
EAN-8	
Allow reading	ON
Transmit check character	ON
Read 2 additional bits	OFF
Read 5 additional bits	OFF
EAN-13	
Allow reading	ON
Transmit check character	ON
Read 2 additional bits	OFF
Read 5 additional bits	OFF
Convert to ISBN	OFF
Convert to ISSN	OFF
Code 128	

Allow reading	ON
Code 39	
Allow reading	ON
Check	OFF
Transmit check character	OFF
Transmit start and end character	OFF
Recognize Full ASCII	OFF
Code 32	
Allow reading	OFF
Code 93	
Allow reading	ON
Codabar	
Allow reading	ON
Check	OFF
Transmit check character	OFF
Transmit start and end character	OFF
Start and end characters format	ABCD/ABCD
Interleaved 2 of 5	
Allow reading	ON
Check	OFF
Transmit check character	OFF
Matrix 2 of 5	

Allow reading	OFF
Check	OFF
Transmit check character	OFF
Industrial 2 of 5	
Allow reading	OFF
Check	OFF
Transmit check character	OFF
Standard 2 of 5	
Allow reading	OFF
Check	OFF
Transmit check character	OFF
Code 11	
Allow reading	OFF
MSI Plessey	
Allow reading	OFF
QR Code	
Allow reading	ON
Micro QR Code	
Allow reading	ON
Data Matrix	
Allow reading	ON
PDF 417	

Allow reading	ON
Micro PDF 417	
Allow reading	OFF
Aztec	
Allow reading	OFF
GS1 databar14	
Allow reading	ON
GS1 databar Limited	
Allow reading	ON
GS1 databar Expanded	
Allow reading	ON

6.4 Appendix-Code ID

No.	Barcode type	Code ID code
1	UPC-A, UPC-E	c
2	EAN-8, EAN-13,ISBN,ISSN	d
3	CODE 39，Code 32	b
4	Codabar	a
5	Code 128	j
6	Code 93	i
7	Interleaved 2 of 5	e
8	Matrix 2 of 5	v
9	Industrial 2 of 5	D
10	Standard 2 of 5 (IATA25)	s
11	PDF 417	r
12	DataMatrix	u
13	QR Code，Micro QR	Q
14	Code 11	H
15	MSI Plessey	J
16	GS1 DataBar	R
17	GS1 DataBar Limited	R
18	GS1 DataBar Expanded	R

6.5 Appendix-ASCII code table

Hexadecimal	ASCII (decimal)	character
00	00	NUL (Null char.)
01	01	SOH (Start of Header)
02	02	STX (Start of Text)
03	03	ETX (End of Text)
04	04	EOT (End of Transmission)
05	05	ENQ (Enquiry)
06	06	ACK (Acknowledgment)
07	07	BEL (Bell)
08	08	BS (Backspace)
09	09	HT (Horizontal Tab)
0A	10	LF (Line Feed)
0B	11	VT (Vertical Tab)
0C	12	FF (Form Feed)
0D	13	CR (Carriage Return)
0E	14	SO (Shift Out)
0F	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)

13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1A	26	SUB (Substitute)
1B	27	ESC (Escape)
1C	28	FS (File Separator)
1D	29	GS (Group Separator)
1E	30	RS (Request to Send)
1F	31	US (Unit Separator)
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)

29	41	) (Right / Closing Parenthesis)
2A	42	* (Asterisk)
2B	43	+ (Plus)
2C	44	, (Comma)
2D	45	- (Minus / Dash)
2E	46	. (Dot)
2F	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3A	58	: (Colon)
3B	59	; (Semi-colon)
3C	60	< (Less Than)
3D	61	= (Equal Sign)
3E	62	> (Greater Than)

3F	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4A	74	J
4B	75	K
4C	76	L
4D	77	M
4E	78	N
4F	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T

55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5A	90	Z
5B	91	[(Left / Opening Bracket)
5C	92	\ (Back Slash)
5D	93	] (Right / Closing Bracket)
5E	94	^ (Caret / Circumflex)
5F	95	_ (Underscore)
60	96	' (Grave Accent)
61	97	a
62	98	b
63	99	c
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i
6A	106	j

6B	107	k
6C	108	l
6D	109	m
6E	110	n
6F	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7A	122	z
7B	123	{ (Left/ Opening Brace)
7C	124	| (Vertical Bar)
7D	125	} (Right/Closing Brace)
7E	126	~ (Tilde)
7F	127	DEL (Delete)

Note: 0-31 of ASCII code table are invisible characters, 32-127 are visible characters.