

**brother**

**BARCODE SCANNER**

**PA-BR-001**

**Users Menu Book**

**BROTHER INDUSTRIES, LTD.**

Ver.0

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## Introduction

Thank you for purchasing BARCODE SCANNER PA-BR-001.

This menu book explains BARCODE SCANNER's function setting method by the menu barcode.

This book consists of 3 sections as below.

- |        |   |
|--------|---|
| Part 1 | Menu barcode setting method and initialization. |
| Part 2 | Set readable code.                              |
| Part 3 | BARCODE SCANNER operation setting.              |

Part 1 describes various setting procedures and notes from the normal reading operation status, and menu barcode to return to default setting (factory default setting).

In Part 2 and 3, the readable code setting and BARCODE SCANNER operation setting can be change according to customer's usage.

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# Part 1 Menu barcode setting method and Initialization

## 1. Shifting to menu setting mode and setting completion

To change setting using the menu barcode with PA-BR-001, you need to shift from the normal reading operation status to the menu setting status. Read SET menu barcode to shift to the menu setting status. Read END to record / finish the menu setting and return to the normal reading operation status.

When reading of SET / END menu barcode and reading each menu barcode during menu setting, different than normal scan operation buzzer will sound and read (blue) LED light.

Also, reading SET and until the completion of menu setting, buzzer to state the menu setting status will sound and become the auto scanning mode which red light (illumination LED) continue to light. During this time, trigger key operation is not required.

Please do not turn off the power (disconnect the USB connection) during setting. In such case, setting is not stored, please retry setting from beginning.

To turn the power off after menu setting, after sounding of reading END buzzer, wait for a moment (about 2 seconds) and turn off.

## 2. Reading menu barcode

The User's menu book contains various menu barcodes. To prevent from reading undesired barcode, menu barcode table's setting barcode are listed with a shift to the left and right.

Referring below drawing, please adjust the distance between BARCODE SCANNER and menu barcode by using illumination LED width as a guide.

|                           | Code | Menu barcode |  |
|---------------------------|------|--------------|--|
| <b>SET</b>                | ZZ   |              |  |
| All codes<br>excl. add-on | A0   |              |  |
| UPC only                  | J1   |              |  |
| UPC add-on<br>+2 only     | J2   |              |  |
| UPC add-on<br>+5 only     | J3   |              |  |
| EAN only                  | J4   |              |  |

If unnecessary menu barcode is read, for example reading menu barcode to disable setting A; Please continue setting, and read the menu barcode to enable setting A. The last read setting will be reflected.




In case erroneously read menu is unknown, not read END but turn off the power and restart setting. Or, after reading END, process default setting which is listed on 3. Default option. Then re-start setting from beginning.

In addition, paying attention to the following will lead to reduction of misreading.

- Covering unnecessary setting menu barcode by hands.
- Not move BARCODE SCANNERS scan window direction too much, but move entire BARCODE SCANNER.
- Don't apart BARCODE SCANNER and menu barcode distance too much. When taking the distance, reading light largely move even with small move of scanner.

### 3. Default Option

This default option allows you to undo all previous configured options and bring the scanner's configuration back to the factory default settings. Each settings factory default settings are printed in bold.

|                 | Code       | Menu barcode  |
|-----------------|------------|---|
| SET             | ZZ         | <br>Z Z   |
| Default setting | <b>BAP</b> | <br>B A P |
| END             | ZZ         | <br>Z Z   |















## Part 2 Setting of readable codes



















PA-BR-001 can read various read code. Selecting readable code to match to purpose of use, and optimizing reading options enables comfortable usage. This section provide following setting.

1. Select readable code. By performing enable readable codes, selected readable code becomes target.
2. Set option for the enabled readable code.
3. Set various options, for example CD calculated / not calculated.

### 1. Enabling a single read code


















With this option you can set the scanner to read a selected bar code type only. If you want to set several barcode only, by performing single read code option followed by the next chapter 2. Enabling of readable codes, adding of enable types is possible.














|                           | Code | Menu barcode   |  |
|---------------------------|------|--|--|
| <b>SET</b>                | ZZ   | <br>Z Z   |  |
| All codes<br>excl. add-on | A0   |  | <br>A 0  |
| UPC only                  | J1   | <br>J 1 |  |
| UPC add-on<br>+2 only     | J2   |  | <br>J 2 |
| UPC add-on<br>+5 only     | J3   | <br>J 3 |  |
| EAN only                  | J4   |  | <br>J 4 |
| EAN add-on<br>+2 only     | J5   | <br>J 5 |  |
| EAN add-on<br>+5 only     | J6   |  | <br>J 6 |
| Code 39 only              | A2   | <br>A 2 |  |
| Tri-Optic only            | JD   |  | <br>J D |
| NW-7(Codabar) only        | A3   | <br>A 3 |  |
| <b>END</b>                | ZZ   |  | <br>Z Z |

|  | Code | Menu barcode   |  |
|--|------|--|--|
| <b>SET</b>                                   | ZZ   | <br>Z Z   |  |
| Industrial<br>2 of 5 only                    | J7   |  | <br>J 7     |
| Interleaved 2 of 5 only                      | J8   | <br>J 8   |  |
| Code 93 only                                 | A5   |  | <br>A 5     |
| Code 128 only                                | A6   | <br>A 6   |  |
| GS1-128 only<br>(Code 128 need to be enable) | JF   |  | <br>J F     |
| S-Code only                                  | RA   | <br>R A   |  |
| MSI/Plessey only                             | A7   |  | <br>A 7     |
| UK/Plessey only                              | A1   | <br>A 1  |  |
| TELEPEN only                                 | A9   |  | <br>A 9   |
| Chinese Post Matrix 2 of 5<br>only           | JE   | <br>J E |  |
| IATA only                                    | A4   |  | <br>A 4   |
| GS1 DataBar<br>Omnidirectional only          | J9   | <br>J 9 |  |
| GS1 DataBar<br>Limited only                  | JJ   |  | <br>J J   |
| GS1 DataBar<br>Expanded only                 | JK   | <br>J K |  |
| Code 11only                                  | BLB  |  | <br>B L B |
| Korean Postal<br>Authority Code only         | JL   | <br>J L |  |
| <b>END</b>                                   | ZZ   |  | <br>Z Z   |

## 2. Enabling of readable codes

Differ from previous Chapter 1. Enabling a single read code, with keeping previous enabled readable barcode type setting, to add anew is possible.













|  | Code      | Menu barcode   |  |
|--|-----------|--|--|
| <b>SET</b>                                     | ZZ        | <br>Z Z   |  |
| All codes excl. add-on                         | A0        |  | <br>A 0   |
| Enable UPC                                     | <i>R1</i> | <br>R 1   |  |
| Enable UPC + 2                                 | R2        |  | <br>R 2   |
| Enable UPC + 5                                 | R3        | <br>R 3   |  |
| Enable EAN                                     | <i>R4</i> |  | <br>R 4   |
| Enable EAN + 2                                 | R5        | <br>R 5  |  |
| Enable EAN + 5                                 | R6        |  | <br>R 6 |
| Enable Code 39                                 | <i>B2</i> | <br>B 2 |  |
| Enable Tri-Optic                               | <i>JZ</i> |  | <br>J Z |
| Enable NW-7(Codabar)                           | <i>B3</i> | <br>B 3 |  |
| Enable Industrial 2 of 5                       | <i>R7</i> |  | <br>R 7 |
| Enable Interleaved 2 of 5                      | <i>R8</i> | <br>R 8 |  |
| Enable Code 93                                 | <i>B5</i> |  | <br>B 5 |
| Enable Code 128                                | <i>B6</i> | <br>B 6 |  |
| Enable GS1-128<br>(Code 128 need to be enable) | <i>0G</i> |  | <br>0 G |
| <b>END</b>                                     | ZZ        | <br>Z Z |  |

|  | Code      | Menu barcode   |  |
|--|-----------|--|--|
| <b>SET</b>                             | ZZ        | <br>Z Z     |  |
| Enable S-Code                          | <i>R9</i> |  | <br>R 9   |
| Enable MSI/Plessey                     | <i>B7</i> | <br>B 7     |  |
| Enable UK/Plessey                      | <i>B1</i> |  | <br>B 1   |
| Enable TELEPEN                         | <i>B9</i> | <br>B 9     |  |
| Enable Chinese Post Matrix<br>2 of 5   | JS        |  | <br>J S   |
| Enable IATA                            | <i>B4</i> | <br>B 4     |  |
| Enable GS1 DataBar<br>Omnidirectional  | <i>JX</i> |  | <br>J X   |
| Enable GS1 DataBar<br>Limited          | <i>JY</i> | <br>J Y    |  |
| Enable GS1 DataBar<br>Expanded         | <i>DR</i> |  | <br>D R |
| Enable Code 11                         | BLC       | <br>B L C |  |
| Enable Korean Postal<br>Authority Code | WH        |  | <br>W H |
| <b>END</b>                             | ZZ        | <br>Z Z   |  |

### 3. Setting code specific options

#### 3.1. EAN -13, EAN-8, UPC-A, UPC-E and Code 39 Opticon

|  | Code      | Menu barcode   |  |
|--|-----------|--|--|
| <b>SET</b>                                   | ZZ        | <br>Z Z   |  |
| UPC-A<br>Leading zero,<br>Transmit CD        | E2        |  | <br>E 2   |
| UPC-A<br>No leading zero,<br>Transmit CD     | <i>E3</i> | <br>E 3   |  |
| UPC-A<br>Leading zero,<br>Not transmit CD    | E4        |  | <br>E 4   |
| UPC-A<br>No leading zero,<br>Not transmit CD | E5        | <br>E 5   |  |
| UPC-E<br>Leading zero,<br>Transmit CD        | E6        |  | <br>E 6   |
| UPC-E<br>No leading zero,<br>Transmit CD     | <i>E7</i> | <br>E 7   |  |
| UPC-E<br>Leading zero,<br>Not transmit CD    | E8        |  | <br>E 8  |
| UPC-E<br>No leading zero,<br>Not transmit CD | E9        | <br>E 9 |  |
| <b>END</b>                                   | ZZ        |  | <br>Z Z |

|                                | Code      | Menu barcode  |   |
|--------------------------------|-----------|---|---|
| <b>SET</b>                     | ZZ        |    |   |
| EAN-13:<br>Not transmit CD     | 6J        |   |    |
| EAN-13:<br>Transmit CD         | <i>6K</i> |    |   |
| EAN-8:<br>Not transmit CD      | 6H        |   |    |
| EAN-8:<br>Transmit CD          | <i>6I</i> |    |   |
| Code 39:<br>Check CD           | C0        |   |    |
| Code 39:<br>Not check CD       | <i>C1</i> |    |   |
| Code 39:<br>Transmit CD        | <i>D9</i> |   |    |
| Code 39:<br>Not transmit CD    | D8        |  |   |
| Code 39:<br>Transmit ST/SP     | D0        |   |  |
| Code 39:<br>Not transmit ST/SP | <i>D1</i> |  |   |
| <b>END</b>                     | ZZ        |   |  |

### 3.2. Option for 2 of 5

2 of 5 include following code.







Industrial 2 of5

Interleaved 2 of 5
















S-Code

Matrix 2 of 5

Chinese Post Matrix 2 of 5















|                            | Code      | Menu barcode   |  |
|----------------------------|-----------|--|--|
| <b>SET</b>                 | ZZ        | <br>Z Z   |  |
| 2 of 5:<br>Not check CD    | <i>G0</i> |  | <br>G 0   |
| 2 of 5:<br>Check CD        | G1        | <br>G 1   |  |
| 2 of 5:<br>Transmit CD     | <i>E0</i> |  | <br>E 0  |
| 2 of 5:<br>Not transmit CD | E1        | <br>E 1 |  |
| <b>END</b>                 | ZZ        |  | <br>Z Z |









### 3.3. Option for NW-7(Codabar), GS1 DataBar Omnidirectional

|   | Code      | Menu barcode   |  |
|---|-----------|--|--|
| <b>SET</b>  | ZZ        | <br>Z Z   |  |
| NW-7(Codabar):<br>Not check CD  | <i>H7</i> |  | <br>H 7   |
| NW-7(Codabar):<br>Check CD  | H6        | <br>H 6   |  |
| NW-7(Codabar):<br>Transmit CD   | <i>H8</i> |  | <br>H 8   |
| NW-7(Codabar):<br>Not transmit CD   | H9        | <br>H 9   |  |
| NW-7(Codabar):<br>Not transmit ST/SP                                      | F0        |  | <br>F 0   |
| NW-7(Codabar):<br>ST/SP: ABCD/TN*E  | F1        | <br>F 1   |  |
| NW-7(Codabar):<br>ST/SP: abcd/tn*e  | F2        |  | <br>F 2   |
| NW-7(Codabar):<br>ST/SP: ABCD/ABCD  | <i>F3</i> | <br>F 3 |  |
| NW-7(Codabar):<br>ST/SP: abcd/abcd  | F4        |  | <br>F 4 |
| GS1 DataBar<br>Omnidirectional:<br>Not transmit CD                        | DM        | <br>D M |  |
| GS1 DataBar<br>Omnidirectional:<br>Transmit CD                            | <i>DL</i> |  | <br>D L |
| GS1 DataBar<br>Omnidirectional:<br>Not transmit Application<br>Identifier | DT        | <br>D T |  |
| GS1 DataBar<br>Omnidirectional:<br>Transmit Application<br>Identifier     | <i>DS</i> |  | <br>D S |
| <b>END</b>  | ZZ        | <br>Z Z |  |



### 3.4. Option for Coda 93, Code128, GS1-128 and other code

|                                  | Code      | Menu barcode   |  |
|----------------------------------|-----------|--|--|
| <b>SET</b>                       | ZZ        | <br>Z Z   |  |
| Code 93:<br>Not check CD         | 9Q        |  | <br>9 Q   |
| Code 93:<br>Check CD             | AC        | <br>A C   |  |
| Code128/GS1-128:<br>Not check CD | <i>MF</i> |  | <br>M F   |
| Code128/GS1-128:<br>Check CD     | ME        | <br>M E   |  |
| MSI/Plessey:<br>Not check CD     | 4A        |  | <br>4 A   |
| MSI/Plessey:<br>Check CD1        | <i>4B</i> | <br>4 B   |  |
| MSI/Plessey:<br>Transmit CD      | 4E        |  | <br>4 E  |
| MSI/Plessey:<br>Not transmit CD  | <i>4G</i> | <br>4 G |  |
| UK/Plessey:<br>Transmit CD       | <i>4N</i> |  | <br>4 N |
| UK/Plessey:<br>Not transmit CD   | 40        | <br>4 0 |  |
| IATA:<br>Transmit CD             | <i>4L</i> |  | <br>4 L |
| IATA:<br>Not transmit CD         | 4M        | <br>4 M |  |
| <b>END</b>                       | ZZ        |  | <br>Z Z |

|                             | Code       | Menu barcode   |  |
|-----------------------------|------------|--|--|
| <b>SET</b>                  | ZZ         | <br>Z Z   |  |
| Code 11:<br>Not check CD    | BLF        |  | <br>B L F |
| Code 11:<br>Check CD1       | BLG        | <br>B L G |  |
| Code 11:<br>Check CD2       | BLH        |  | <br>B L H |
| Code 11:<br>Check CD1or CD2 | <i>BLI</i> | <br>B L I |  |
| Code 11:<br>Transmit CD     | BLK        |  | <br>B L K |
| Code 11:<br>Not transmit CD | <i>BLJ</i> | <br>B L J |  |
| <b>END</b>                  | ZZ         |  | <br>Z Z   |

## 4. String Opticon
















Set prefix and suffix string (maximum 4 characters).












To configure, scan desire barcode type's menu barcode, and scan desire character from 5. Direct input string menu barcode, then scan END to complete.

Numeric, character, lower case character can be set. Mix of character type is also possible.



















If you want to clear only single / specific barcode type prefix or suffix, after scanning barcode type menu barcode, not perform direct input but complete with END.









### 4.1. Setting prefix

|                    | Code | Menu barcode   |  |
|--------------------|------|--|--|
| <b>SET</b>         | ZZ   | <br>Z Z   |  |
| All codes          | RY   |  | <br>R Y   |
| UPC-A              | N1   | <br>N 1   |  |
| UPC-A + add on     | M0   |  | <br>M 0   |
| UPC-E              | N2   | <br>N 2 |  |
| UPC-E + add on     | M1   |  | <br>M 1 |
| EAN-13             | N3   | <br>N 3 |  |
| EAN-13 + add on    | M2   |  | <br>M 2 |
| EAN-8              | N4   | <br>N 4 |  |
| EAN-8 + add on     | M3   |  | <br>M 3 |
| Code 39            | M4   | <br>M 4 |  |
| NW-7(Codabar)      | M5   |  | <br>M 5 |
| Industrial 2 of 5  | M6   | <br>M 6 |  |
| Interleaved 2 of 5 | M7   |  | <br>M 7 |
| Code 93            | M8   | <br>M 8 |  |

|                                 |     |   |  |
|---------------------------------|-----|---|--|
| Code 128                        | M9  |   | <br>M 9   |
| S-Code                          | MB  | <br>M B  |  |
| MSI/Plessey                     | N0  |   | <br>N 0   |
| Matrix 2 of 5                   | GL  | <br>G L  |  |
| IATA                            | I8  |   | <br>I 8   |
| GS1 DataBar<br>Omnidirectional  | OE  | <br>O E  |  |
| Code 11                         | BLD |   | <br>B L D |
| Korean Postal<br>Authority Code | *\$ | <br>* \$ |  |
| Clear all prefixes              | MG  |   | <br>M G   |
| Preamble<br>(Common prefix)     | MZ  | <br>M Z |  |
| <b>END</b>                      | ZZ  |   | <br>Z Z |

#### 4.2. Setting suffix












|                    | Code | Menu barcode   |  |
|--------------------|------|--|--|
| <b>SET</b>         | ZZ   | <br>Z Z   |  |
| All codes          | RZ   |  | <br>R Z   |
| UPC-A              | N6   | <br>N 6   |  |
| UPC-A + add on     | 00   |  | <br>0 0   |
| UPC-E              | N7   | <br>N 7   |  |
| UPC-E + add on     | 01   |  | <br>0 1   |
| EAN-13             | N8   | <br>N 8   |  |
| EAN-13 + add on    | 02   |  | <br>0 2  |
| EAN-8              | N9   | <br>N 9 |  |
| EAN-8 + add on     | 03   |  | <br>0 3 |
| Code 39            | 04   | <br>0 4 |  |
| NW-7(Codabar)      | 05   |  | <br>0 5 |
| Industrial 2 of 5  | 06   | <br>0 6 |  |
| Interleaved 2 of 5 | 07   |  | <br>0 7 |
| Code 93            | 08   | <br>0 8 |  |
| Code 128           | 09   |  | <br>0 9 |
| S-Code             | 0B   | <br>0 B |  |
| MSI/Plessey        | N5   |  | <br>N 5 |

|                                 |     |  |  |
|---------------------------------|-----|--|--|
| Matrix 2 of 5                   | GM  | <br>G M |  |
| IATA                            | I9  |  | <br>I 9   |
| GS1 DataBar<br>Omnidirectional  | PQ  | <br>P Q |  |
| Code 11                         | BLE |  | <br>B L E |
| Korean Postal<br>Authority Code | *%  | <br>* % |  |
| Clear all suffixes              | PR  |  | <br>P R   |
| Postamble<br>(Common suffixes)  | PS  | <br>P S |  |
| <b>END</b>                      | ZZ  |  | <br>Z Z   |



















## 5. Direct input

Direct input is use when settings prefix / suffix string (maximum 4 characters).










### 5.1. Direct input numeric

|            | Code | Menu barcode  |   |
|------------|------|---|---|
| 0          | Q0   |    |   |
| 1          | Q1   |   |    |
| 2          | Q2   |    |   |
| 3          | Q3   |   |    |
| 4          | Q4   |    |   |
| 5          | Q5   |   |    |
| 6          | Q6   |   |   |
| 7          | Q7   |   |  |
| 8          | Q8   |  |   |
| 9          | Q9   |   |  |
| <b>END</b> | ZZ   |  |   |



















## 5.2. Direct input character










|   | Code | Menu barcode  |   |
|---|------|---|---|
| A | 0A   |    |   |
| B | 0B   |   |    |
| C | 0C   |    |   |
| D | 0D   |   |    |
| F | 0E   |    |   |
| F | 0F   |   |    |
| G | 0G   |    |   |
| H | 0H   |   |    |
| I | 0I   |  |   |
| J | 0J   |   |  |
| K | 0K   |  |   |
| L | 0L   |   |  |
| M | 0M   |  |   |
| N | 0N   |   |  |
| O | 0O   |  |   |
| P | 0P   |   |  |
| Q | 0Q   |  |   |
| R | 0R   |   |  |



|            |    |   |  |
|------------|----|---|--|
| S          | 0S | <br>0 S  |  |
| T          | 0T |   | <br>0 T |
| U          | 0U | <br>0 U  |  |
| V          | 0V |   | <br>0 V |
| W          | 0W | <br>0 W  |  |
| X          | 0X |   | <br>0 X |
| Y          | 0Y | <br>0 Y  |  |
| Z          | 0Z |   | <br>0 Z |
| <b>END</b> | ZZ | <br>Z Z |  |

### 5.3. Direct input lower case character

|   | Code | Menu barcode  |   |
|---|------|---|---|
| a | \$A  |    |   |
| b | \$B  |   |    |
| c | \$C  |    |   |
| d | \$D  |   |    |
| e | \$E  |    |   |
| f | \$F  |   |    |
| g | \$G  |    |   |
| h | \$H  |   |    |
| i | \$I  |  |   |
| j | \$J  |   |  |
| k | \$K  |  |   |
| l | \$L  |   |  |
| m | \$M  |  |   |
| n | \$N  |   |  |
| o | \$O  |  |   |
| p | \$P  |   |  |
| q | \$Q  |  |   |
| r | \$R  |   |  |

|     |     |  |   |
|-----|-----|--|---|
| S   | \$S |   |   |
| t   | \$T |  |  |
| U   | \$U |   |   |
| V   | \$V |  |  |
| W   | \$W |   |   |
| X   | \$X |  |  |
| y   | \$Y |   |   |
| Z   | \$Z |  |  |
| END | ZZ  |  |   |

### 5.4. Data add (newline code)

Following 4 ways are possible to set newline code to suffix.

② is to set some of old type keyboard correspond to “execution key (right Ctrl key)”.

In order to send 2 operations, press key and release, please scan “7X” twice for “press” and “release” as shown in following table.

|                         |                   | Code      | Menu barcode   |  |
|-------------------------|-------------------|-----------|--|--|
| <b>SET</b>              |                   | ZZ        | <br>Z Z   |  |
| ①<br>Add<br>new<br>line | 1) Set suffix     | RZ        |  | <br>R Z   |
|                         | 2) Add “Enter”    | 7I        | <br>7 I   |  |
| ②<br>Add<br>action      | 1) Set suffix     | RZ        |  | <br>R Z   |
|                         | 2) Press “Ctrl”   | 7X        | <br>7 X  |  |
|                         | 3) Release “Ctrl” | 7X        |  | <br>7 X |
| ③<br>Add<br>TAB         | 1) Set suffix     | RZ        | <br>R Z |  |
|                         | 2) Add TAB        | 7H        |  | <br>7 H |
| ④<br>No add             | 1) Delete suffix  | <i>PR</i> | <br>P R |  |
| <b>END</b>              |                   | ZZ        |  | <br>Z Z |

## 5.5. Other direct character input


In case you want to copy barcode, adding print start command “^FF” to suffix enables to start label printer to print by just scanning barcode to be copied.

No need to scan print start command barcode again.

Following is the collective setting to add print start command to all barcode type and to clear (clear all suffix).

Without reading menu setting method: SET~END, setting complete with only reading following menu barcode.


Collective setting menu to add print start command to all barcode type

|   | Menu barcode   |
|---|--|
| Add print start command “^FF” to all barcode type suffixes. |  |

### Notes when suffix is set to “^FF”

- Template number cannot be change. Please only use barcode copy of default setting’s template number.
- Printing start at same time as reading 1 barcode. When printing template that read multiple of barcode, please read collective setting menu barcode to clear print command (clear all suffix) or return to default setting status.

Collective setting menu to clear print start command (clear all suffix)

|                  | Menu barcode   |
|------------------|--|
| Clear all suffix |  |

## 6. Setting of number of characters





Reading of a known length barcode, by setting fixed number of characters, verifies if read label are correct lengths or not and will not output non-specified length label. This can be done for up to two lengths.

This is effective for reading Interleaved 2 of 5 or others which do not provides sufficient security against partial scan.

Setting procedure

Read length ON menu barcode follow by reading of actual barcode label of desired barcode type/lengths to be set. And setting completes with reading END menu barcode.

Fixing length can be done for up to two lengths; different barcode type/length can also be set.

|                            | Code | Menu barcode  |  |
|----------------------------|------|---|--|
| <b>SET</b>                 | ZZ   | <br>Z Z  |  |
| Fixed length OFF all codes | H0   |   | <br>H 0   |
| Fixed length ON all codes  | H1   | <br>H 1 |  |
| <b>END</b>                 | ZZ   |   | <br>Z Z |

# Part 3 BARCODE SCANNER operation setting

## 1. Reading options

### 1.1. Read mode options

#### Single read:







Reading start by pressing trigger key, and when barcode is read, illumination LED stop and become wait mode. Even fail to read barcode, will stop after 2 seconds (default setting) and becomes wait mode.

#### Multiple read:

Reading start by pressing trigger key, and read barcode and continue to read further. Continuously read barcode one after another, but same label cannot be read continuously. When 2 seconds (default setting) of barcode unreadable time continues, reading operation stops, and become wait mode.

#### Trigger key:

Selecting “Disable trigger”, maintains operating status without pressing trigger key. However, please note its affect to the life of optical components which is a light source. If selecting “Enable trigger”, readable time can be set.

|                 | Code | Menu barcode  |   |
|-----------------|------|---|---|
| <b>SET</b>      | ZZ   |  |   |
| Single read     | S0   |   |  |
| Multiple read   | S1   |  |   |
| Disable trigger | S7   |   |  |
| Enable trigger  | S8   |  |   |
| <b>END</b>      | ZZ   |   |  |

## 1.2. Read time options

### Readable time:

Function to automatically stop reading operations if fails to read barcode within selected time. In initial setting status, it is set to 2 seconds.







Incidentally, when trigger key is disabled, this function becomes disabling.

|                | Code      | Menu barcode   |  |
|----------------|-----------|--|--|
| <b>SET</b>     | ZZ        | <br>Z Z   |  |
| 0 sec          | Y0        |  | <br>Y 0   |
| 1 sec          | Y1        | <br>Y 1   |  |
| 2 sec          | <b>Y2</b> |  | <br>Y 2   |
| 4 sec          | Y4        | <br>Y 4  |  |
| 6 sec          | Y6        |  | <br>Y 6 |
| Read time * 10 | YL        | <br>Y L |  |
| <b>END</b>     | ZZ        |  | <br>Z Z |



### 1.3. Auto trigger options

These options are used to activate the auto trigger option of the scanner.

|                         | Code      | Menu barcode  |   |
|-------------------------|-----------|---|---|
| <b>SET</b>              | ZZ        |  |   |
| Disable auto trigger    | <i>+F</i> |   |  |
| Enable auto trigger     | +I        |  |   |
| Disable stand detection | <i>*5</i> |   |  |
| Enable stand detection  | *4        |  |   |
| <b>END</b>              | ZZ        |   |  |







Stand detection is the function to detect that BARCODE SCANNER is attached to the dedicated stand.

By combined use of this function and the auto trigger function, enabling auto trigger when BARCODE SCANNER is attached to the stand is possible.

## 1.4. Redundancy









### Data matching:

By automatically read more than 2 times consecutively and matching the result, increases reliability of the data.

|                                 | Code | Menu barcode  |  |
|---------------------------------|------|---|--|
| <b>SET</b>                      | ZZ   |  |  |
| Read 1 time,<br>redundancy = 0  | X0   |   |   |
| Read 2 times,<br>redundancy = 1 | X1   |  |  |
| Read 3 times,<br>redundancy = 2 | X2   |   |   |
| Read 4 times,<br>redundancy = 3 | X3   |  |  |
| <b>END</b>                      | ZZ   |   |  |

## 1.5. Positive and negative barcodes

Usually bar codes are printed black on white, but sometimes white on black. These labels are called positive and negative respectively. In case the 'negative bar codes' option has been selected, positive labels may not be decoded anymore or with difficulty. This also applies to menu labels.

|                                 | Code | Menu barcode  |   |
|---------------------------------|------|---|---|
| <b>SET</b>                      | ZZ   |    |   |
| Positive barcodes               | V2   |   |    |
| Negative barcodes               | V3   |    |   |
| Positive and negative bar codes | V4   |   |    |
| Positive barcodes               | V2   |    |   |
| Positive and negative bar codes | V4   |   |  |
| SET / END                       | ZZ   |  |   |
| <b>END</b>                      | ZZ   |   |  |

## 1.6. Illumination LED

By switching illumination LED On/Off, scanning performance may improve. This illumination is possible to set.






- Enable illumination LED: The scanner reads a bar code with the illumination LED turned ON. This mode is default.
- Disable illumination LED: The scanner reads a bar code using the LCD backlight as illumination source and without turning on the illumination LED.
- Alternating illumination LED: The scanner reads a bar code with the illumination LED turned ON and OFF
- Preventing specular reflection: This mode is for scanning a barcode on a glossy surface. When the barcode is scanned with the illumination LED ON and the captured image is too bright to read, then the scanner will turn the illumination LED OFF and scan the bar code again. The mode is not suitable for scanning in a dark place.

|                                | Code       | Menu barcode  |   |
|--------------------------------|------------|---|---|
| <b>SET</b>                     | ZZ         |   |   |
| Enable illumination LED        | <i>D39</i> |   |  |
| Disable illumination LED       | D3A        |  |   |
| Alternating illumination LED   | D3B        |   |  |
| Preventing specular reflection | D3Q        |  |   |
| <b>END</b>                     | ZZ         |   |  |

## 2. Indicator options






### 2.1. Buzzer settings

The buzzer can be disabling or duration and loudness can be set.

|                             | Code | Menu barcode  |   |
|-----------------------------|------|---|---|
| <b>SET</b>                  | ZZ   |    |   |
| Disable buzzer              | W0   |   |    |
| Enable buzzer               | W8   |    |   |
| Single tone buzzer          | W1   |   |    |
| High – low buzzer           | W2   |   |   |
| Buzzer duration 50 msec     | W7   |   |  |
| Buzzer duration 200 msec    | W5   |  |   |
| Buzzer loudness:<br>Maximum | T0   |   |  |
| Buzzer loudness:<br>Middle  | T2   |  |   |
| <b>END</b>                  | ZZ   |   |  |

## 2.2. Good read LED





The Good Read LED can be disabled or several durations can be set.

|                                 | Code      | Menu barcode  |   |
|---------------------------------|-----------|---|---|
| <b>SET</b>                      | ZZ        |  |   |
| Disable indicator               | T4        |   |  |
| Indicator duration:<br>200 msec | <i>T5</i> |  |   |
| Indicator duration:<br>400 msec | T6        |   |  |
| <b>END</b>                      | ZZ        |  |   |

### 3. Other

#### 3.1. Keyboard language

Keyboard is US language at default setting.














|                               | Code      | Menu barcode   |  |
|-------------------------------|-----------|--|--|
| <b>SET</b>                    | ZZ        | <br>Z Z |  |
| Keyboard language<br>US       | <i>KE</i> |  | <br>K E |
| Keyboard language<br>Japanese | PM        | <br>P M |  |
| <b>END</b>                    | ZZ        |  | <br>Z Z |

### 3.2. Intercharacter delay

Intercharacter delay is use to adjust data transmission speed to host device. If transmit speed is too fast, some host device may fail to receive all character. Please adjust intercharacter delay until data are correctly received.

Delay time will be waiting time within scanner.

Because actual transmitting time will be define by host device and USB poring interval, it will be different from the following time.

|                     | Code | Menu barcode   |  |
|---------------------|------|--|--|
| <b>SET</b>          | ZZ   | <br>Z Z   |  |
| No delay            | LA   |  | <br>L A   |
| Delay 1<br>2 msec   | LB   | <br>L B   |  |
| Delay 2<br>4 msec   | LC   |  | <br>L C  |
| Delay 3<br>6 msec   | LD   | <br>L D |  |
| Delay 4<br>8 msec   | LE   |  | <br>L E |
| Delay 5<br>10 msec  | LF   | <br>L F |  |
| Delay 6<br>12 msec  | LG   |  | <br>L G |
| Delay 7<br>14 msec  | LH   | <br>L H |  |
| Delay 8<br>16 msec  | LI   |  | <br>L I |
| Delay 9<br>18 msec  | LJ   | <br>L J |  |
| Delay 10<br>20 msec | LK   |  | <br>L K |
| <b>END</b>          | ZZ   | <br>Z Z |  |



## Contact

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Please visit our support website at [support.brother.com](http://support.brother.com).

You can find following information:

- Software downloads
- Manuals/Documents
- Frequently Asked Questions (Troubleshooting, Useful tips on using printer)
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