

marson

MT8200S

2D Handheld Scanner

User Manual

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- Table of Contents -

1 Getting Started.....	1
1.1 Introduction.....	1
1.2 Configuring MT8200S.....	1
1.2.1 Barcode Configurability.....	1
1.2.2 Factory Default.....	2
1.2.3 Custom Default.....	2
1.2.4 Check Version.....	2
2 Interface.....	3
2.1 USB HID.....	3
3 Reading Mode.....	5
3.1 Trigger Mode.....	5
3.2 Continuous Mode.....	6
3.3 Auto-sensing Mode.....	8
4 Centering.....	10
5 Illumination and Aimer.....	12
5.1 Illumination.....	12
5.2 Aimer.....	12
6 Buzzer and Output.....	13
6.1 Buzzer - General.....	13
6.2 Buzzer - Good Read.....	13
6.3 Encoding Format.....	14
6.4 Keyboard Layout.....	15
6.5 Alt Code.....	16
6.6 Receipt Mode.....	16
6.7 Inverse Barcode.....	16
6.8 Mirrored Barcode.....	17
7 Data Editing.....	18
7.1 Preamble.....	18
7.2 Postamble.....	19
7.3 CODE ID.....	20
7.4 Terminator.....	22
7.5 Truncate.....	23
7.6 Read Fail.....	25
7.7 Protocol.....	25
8 Symbologies.....	26
8.1 All Symbologies.....	26
8.2 Roll Angle Tolerance.....	26
8.3 Pitch/Skew Angle Tolerance.....	26
8.4 EAN13.....	27
8.5 EAN8.....	27

8.6 UPC-A.....	28
8.7 UPC-E0.....	29
8.8 UPC-E1.....	29
8.9 Code 128.....	30
8.10 Code 39.....	30
8.11 Code 93.....	31
8.12 Codabar.....	32
8.13 QR Code.....	33
8.14 Interleaved 2 of 5.....	33
8.15 Industrial 2 of 5.....	34
8.16 Matrix 2 of 5.....	34
8.17 Code 11.....	35
8.18 MSI.....	36
8.19 GS1 Databar (RSS-14).....	36
8.20 Data Matrix.....	37
8.21 PDF417.....	38
9 Appendix A: Code ID Table.....	39
10 Appendix B: ASCII Table.....	40
11 Appendix C: Numeric Barcodes.....	44
12 Appendix D: Save / Delete / Abort.....	46

1 Getting Started

1.1 Introduction

MT8200S is a 2D handheld scanner capable of decoding major 2D barcodes as well as all major 1D barcodes. It is designed to achieve the efficient and affordable barcode scanning solution. This cost-effective, reliable handheld scanner is an ideal choice for a variety of applications, including ticketing, access control, mobile payment and manufacturing.

1.2 Configuring MT8200S

With industry-leading image capture and decode capability, MT8200S can read barcodes accurately and easily even when the barcode is tilted in various angles. To read a barcode, simply press the trigger and make sure the aimer is positioned on top of the barcode.

1.2.1 Barcode Configurability

Scanning below configuration barcodes will allow/prohibit user to change settings by scanning configuration barcodes in this manual.



***Enable Barcode Configurability**



Disable Barcode Configurability

Scan below configuration barcodes to enable/disable configuration barcode data output.



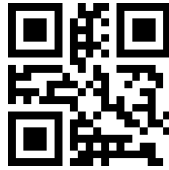
***Disable Configuration Barcode Data Output**



Enable Configuration Barcode Data Output

1.2.2 Factory Default

Scanning below configuration barcode will reset MT8200S to factory default settings.



Factory Default

1.2.3 Custom Default

You can create your own custom default. Scan **Save Custom Default** configuration barcode below and the entire current settings of MT8200S will be saved to your custom default, with previous custom default, if any, being overwritten. Scan **Custom Default** to reset MT8200S to the custom default settings.



Save Custom Default



Custom Default

1.2.4 Check Version

To check firmware version, please scan below configuration barcode.



Check Version

2 Interface

MT8200S operates with USB HID interface. The following paragraph offers user all the functions related to the interface.

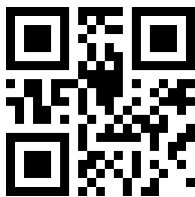
2.1 USB HID

Scanning below configuration barcode will set MT8200S to USB HID interface, in which data is transferred in HID keyboard format.

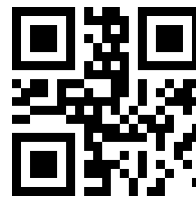


*USB HID

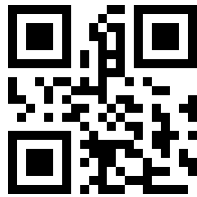
Below configuration barcodes allow you to modify the polling intervals between host and MT8200S.



*1ms



3ms

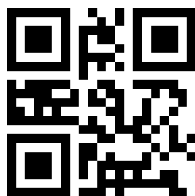


5ms



10ms

Below configuration barcodes allow you to modify Inter-character Delay.



*0ms



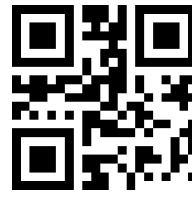
1ms



5ms



10ms



15ms

Below configuration barcodes allow you to modify Inter-block Delay.



0ms



*1ms



5ms



10ms



15ms

Below configuration barcodes allow you to enable/disable CapsLock.



*Off



On

3 Reading Mode

3.1 Trigger Mode

In Trigger Mode MT8200S will start scanning when trigger button is pressed and stop scanning after trigger button is released or a barcode is successfully decoded.



***Trigger Mode**

In Trigger Mode MT8200S can enter Deep Sleep after a period of inactivity once this function is enabled.



Enable Deep Sleep



***Disable Deep Sleep**

Once in Deep Sleep MT8200S can be woken up by pressing the trigger button, after which MT8200S will restart.

If Deep Sleep is not enabled, below configuration barcodes allow you to modify the period of inactivity before MT8200S automatically enters Light Sleep.



0ms



***500ms**



3000ms



5000ms

3.2 Continuous Mode

In Continuous Mode MT8200S scans barcode continuously without the need of pressing trigger button. After a successful decode, MT8200S waits for a period of time (configurable) before the next scan starts. A press to the trigger button will prompt MT8200S to stop scanning; another press will prompt MT8200S to start scanning again.



Continuous Mode

Scan Period

In Continuous Mode MT8200S first enters Scan Period, during which MT8200S will try capturing any barcode within focus. Scan Period terminates when a barcode is successfully decoded or this pre-set period of time has elapsed. Afterwards MT8200S enters Scan Interval, during which MT8200S stops scanning. Scan Period is configurable from 0.1 to 25.5 seconds (unit = 0.1 sec); when set to 0 second, it means Scan Period is infinite. By default Scan Period is 5 seconds.



1000ms



3000ms



***5000ms**



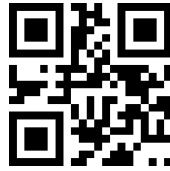
0 (Infinite)

Scan Interval

Scan Interval is the period of time between one Scan Period and another. MT8200S stops scanning within Scan Interval, which is configurable from 0 to 25.5 seconds (unit = 0.1 sec); by default Scan Interval is 1 second.



0ms



500ms



*1000ms



1500ms



2000ms

Same Code Interval

Same Code Interval is the period of time between two consecutive scans on the same barcode. Once enabled, MT8200S does not decode the same barcode twice before Same Code Interval terminates.



Enable Same Code Interval



*Disable Same Code Interval

After enabling Same Code Interval, you may further adjust the period of Same Code Interval using below configuration barcodes.



Infinite



500ms



1000ms



3000ms



5000ms

3.3 Auto-sensing Mode

In Auto-sensing Mode MT8200S starts detecting any image change within its range. When image change occurs, MT8200S will start scanning (**Scan Period**) after **Image Stabilization Period** terminates. After a barcode is successfully decoded or the Scan Period terminates, MT8200S enters **Scan Interval** and detection state respectively. Pressing the trigger button will prompt MT8200S to start scanning immediately. After the trigger button is released or a barcode has been successfully decoded MT8200S will switch back to detection state.



Auto-sensing Mode

Scan Period

Scan Period is a period of time during which MT8200S tries capturing any barcode within range. Scan Period terminates when a barcode is successfully decoded or this pre-set period of time has elapsed. Afterwards MT8200S enters Scan Interval, during which MT8200S stops scanning and detects image change only. Scan Period is configurable from 0.1 to 25.5 seconds (unit = 0.1 sec); when set to 0 second, it means Scan Period is infinite. By default Scan Period is 5 seconds.



1000ms



*5000ms



3000ms



0 (Infinite)

Scan Interval

MT8200S enters Scan Interval when a barcode has been decoded or Scan Period terminates. MT8200S will start detecting image change until Scan Interval terminates, which is configurable from 0 to 25.5 seconds (unit = 0.1 sec); by default Scan Interval is 1 second.



Infinite



500ms



*1000ms



1500ms



2000ms

Image Stabilization Period

Image Stabilization Period is the period of time for which MT8200S should wait until the image stabilizes before switching from detection to scanning (**Scan Period**). Image Stabilization Period is configurable from 0 to 25.5 seconds (unit = 0.1 sec); by default Scan Interval is 0.4 second.



100ms



*400ms



1000ms



2000ms

Image Sensitivity

Image Sensitivity is a range that increases or decreases MT8200S's reaction time to image change. When the image changes to the level that conforms to/ surpasses the pre-set degree of sensitivity MT8200S will switch from detection to scanning (**Scan Period**).



*Normal



Low



High



Extra High

Same Code Interval

Same Code Interval is the period of time between two consecutive scans on the same barcode. It prevents MT8200S from scanning the same barcode twice within a pre-set period of time. Please refer to **Same Code Interval** under **3.2 Continuous Mode** chapter for configuration barcodes.

4 Centering

Use Centering to narrow MT8200S's field of view to make sure that it scans only those barcodes intended by the user.



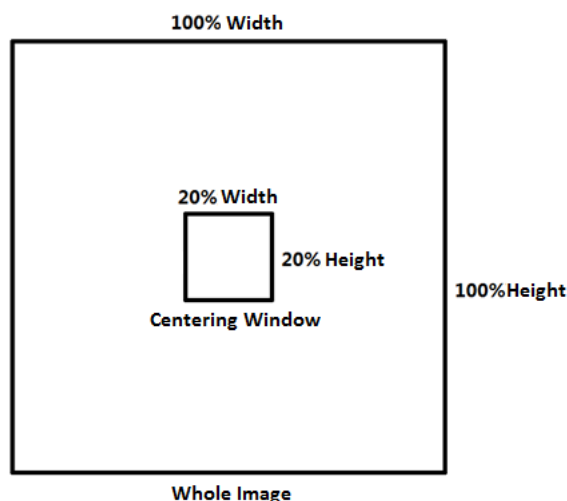
*Centering Off



Centering On

Centering Window

Centering Window is an area at the center of whole image. The size of Centering Window is set in proportion to that of the whole image, with a configurable range from 1 to 100%; for example, if set to 20%, Centering Window is a square the size of 20% of the whole image at the center.



Centering Window Size

Below are the frequently used Centering Window Sizes:



Centering Window Size-20%



Centering Window Size-40%



Centering Window Size-60%

You may also use Set Centering Window Size to modify Centering Window to a specific size.



Set Centering Window Size

Example: Set Centering Window Size to 50%

1. Find the Hexadecimal equivalent '32' to the Decimal value '50' using **ASCII Table** (see Appendix B)
2. Make sure **Barcode Configurability** is enabled (see Chapter 1.2.1)
3. Scan '**Set Centering Window Size**'
4. Scan '**3**' and '**2**' respectively from **Numeric Barcodes** (see Appendix C)
5. Scan '**Save**' configuration barcode (see Appendix D)

5 Illumination and Aimer

5.1 Illumination

Illumination increases the image quality, making it easier for MT8200S to decode barcodes when ambient light is relatively low.

Normal (Default): Illumination only turns on during scanning.

Always On: Illumination keeps as long as MT8200S is powered on.

Always Off: Illumination is always off in any condition.



*Normal



Always On



Always Off

5.2 Aimer

Aimer assists user to locate target barcode more quickly.

Normal (Default): Aimer only turns on during scanning.

Always On: Aimer keeps on as long as MT8200S is powered on.

Always Off: Aimer is always off in any condition.



*Normal



Always On



Always Off

6 Buzzer and Output

6.1 Buzzer - General

Below configuration barcodes allow you to adjust buzzer pitch (frequency):



Buzzer Pitch - Low



*Buzzer Pitch - Medium



Buzzer Pitch - High

Below configuration barcodes allow you to mute/unmute buzzer:



Mute



*Unmute

6.2 Buzzer - Good Read

Below configuration barcodes allow you to enable/disable Good Read beep indication.



*Good Read On



Good Read Off

Below configuration barcodes allow you to modify the beep duration on a Good Read, which by default is 60mS.



Good Read Duration - 30ms



***Good Read Duration - 60ms**



Good Read Duration - 90ms



Good Read Duration - 120ms

6.3 Encoding Format

Below configuration barcodes allow you to choose input data encoding format, which depends on how the characters are encoded in the barcode being scanned by MT8200S.



***Input Encoding Format - GBK**



Input Encoding Format - UTF8



Input Encoding Format - AUTO

Below configuration barcodes allow you to choose output data encoding format. This depends on which application you want to use for barcode data output. For example, GBK can be used on Notepad; UNICODE can be used on Word and other messaging applications.



***Output Encoding Format - GBK**



Output Encoding Format - UNICODE



Output Encoding Format - UTF8

6.4 Keyboard Layout

Please scan the configuration barcode below that corresponds to the keyboard layout used by your host PC:



*US



Czech



French



German



Hungarian



Italian



Japanese



Spanish



Turkish-F



Turkish-Q

6.5 Alt Code

Alt Code enables data output using the Alt Numpad method (pressing and holding the Alt key while typing the number identifying the character with the keyboard's numeric keypad). This allows user to output correct key code in any condition, at the cost of slowing down some output speed.



***Standard**



Alt Code

6.6 Receipt Mode

Receipt Mode enables MT8200S to work with receipt system. You may use following configuration barcodes to enable/disable barcode data conversion to receipt format.



***Disable Receipt Mode**



Enable Receipt Mode

6.7 Inverse Barcode

If Inverse Barcode is enabled, it allows you to scan barcodes that are inverted.



***Disable 1D Inverse Barcode**



Enable 1D Inverse Barcode



***Disable 2D Inverse Barcode**



Enable 2D Inverse Barcode

6.8 Mirrored Barcode

If Mirrored Barcode is enabled, it allows you to scan mirrored 2D barcode, at the cost of slowing down decode speed.



Enable 2D Mirrored Barcode



***Disable 2D Mirrored Barcode**

7 Data Editing

Data Editing consists of the following functions that allows you to edit barcode data, which can be helpful for data processing at host side:

- Preamble
- Postamble
- Truncate
- Code ID
- Read Fail
- Terminator

By default data format is as follows:

【Preamble】【Code ID】【Barcode Data】【Postamble】【Terminator】

7.1 Preamble

Enable/Disable Preamble

If Preamble is enabled, your pre-defined Preamble will be added to the front of each barcode data.



Enable Preamble



***Disable Preamble**

Set Preamble

You can define up to 15 characters as Preamble using the Set Preamble configuration barcode. First you need to convert each desired character into Hexadecimal value with the help of **ASCII Table** (see Appendix B)



Set Preamble

Example: Set Preamble as 'DATA'

1. Find the Hexadecimal equivalent of each character in the word 'DATA', using **ASCII Table** (see

Appendix B) .You will get '44', '41', '54', '41'.

2. Make sure Barcode Configurability is enabled (see Chapter 1.2.1)
3. Scan '**Set Premable**'
4. Scan '4', '4', '4', '1', '5', '4', '4', '1' respectively from **Numeric Barcodes** (see Appendix C)
5. Scan '**Save**' (see Appendix D)

7.2 Postamble

Enable/Disable Postamble

If Postamble is enabled, your pre-defined Postamble will be added to the rear of each barcode data.



Enable Postamble



***Disable Postamble**

Set Postamble

You can define up to 15 characters as Postamble using the Set Postamble configuration barcode. First you need to convert each desired character into Hexadecimal value with the help of **ASCII Table** (see Appendix B)



Set Postamble

Example: Set Postamble as 'DATA'

1. Find the Hexadecimal equivalent of each character in the word 'DATA', using **ASCII Table** (see Appendix B). You will get '44', '41', '54', '41'.
2. Make sure Barcode Configurability is enabled (see Chapter 1.2.1)
3. Scan '**Set Postamble**'
4. Scan '4', '4', '4', '1', '5', '4', '4', '1' respectively from Numeric Barcodes (see Appendix C)
5. Scan '**Save**' (see Appendix D)

7.3 CODE ID

Enable/Disable CODE ID

If CODE ID is enabled, your pre-defined CODE ID for each symbology will be added to the front of each barcode data.



Enable CODE ID



*Disable CODE ID

Default CODE ID

Scan Default CODE ID configuration barcode below will reset every CODE ID to default. You may refer to **CODE ID Table** (Appendix A) for default CODE ID of each symbology.



Default CODE ID

Set CODE ID

You can define 1 character as CODE ID using each Set CODE ID configuration barcodes below. First you need to convert the desired character into Hexadecimal value with the help of **ASCII Table** (see Appendix B)

Example: Set CODE ID of Code 128 as 'A'

1. Find the Hexadecimal equivalent of 'A' using **ASCII Table** (see Appendix B). You will get '41'.
2. Make sure Barcode Configurability is enabled (see Chapter 1.2.1)
3. Scan 'Set CODE ID of Code 128'
4. Scan '4' and '1' respectively from **Numeric Barcodes** (see Appendix C)
5. Scan 'Save' (see Appendix D)

Below are Set CODE ID configuration barcodes for all symbologies:



Set CODE ID of EAN13



Set CODE ID of EAN8



Set CODE ID of UPC-A



Set CODE ID of UPC-E0



Set CODE ID of UPC-E1



Set CODE ID of Code 128



Set CODE ID of Code 39



Set CODE ID of Code 93



Set CODE ID of Codabar



Set CODE ID of Interleaved 2 of 5



Set CODE ID of Industrial 2 of 5



Set CODE ID of Matrix 2 of 5



Set CODE ID of Code 11



Set CODE ID of MSI



Set CODE ID of GS1 Databar



Set CODE ID of GS1 Databar Limited



Set CODE ID of GS1 Databar Expanded



Set CODE ID of QR Code



Set CODE ID of Data Matrix



Set CODE ID of PDF417

7.4 Terminator

Terminator is the ending character of each barcode data. It is CR by default.



None



*CR



TAB



CR+LF

7.5 Truncate

MT8200S can output part of the barcode data with Truncate function.

Based on Truncate's logic, each barcode data is divided into 3 parts:

【Start】【Center】【End】

Among them, the length of Start and End is configurable.

Below configuration barcodes allow you to decide which part of barcode data to output.



***Whole**



Start



End



Center

Set Start Length

Up to 255 digits can be defined as the length of Start. First you need to convert the number of digit into Hexadecimal value with the help of **ASCII Table** (see Appendix B).



Set Start Length

Set End Length

Up to 255 digits can be defined as the length of End. First you need to convert the number of digit into Hexadecimal value with the help of **ASCII Table** (see Appendix B).



Set End Length

To output Start only:

Example: Barcode data is '1234567890123ABC' ; you want to output the first 13 digits '1234567890123'.

1. Find the Hexadecimal equivalent '0D' to the Decimal value '13' using **ASCII Table** (see Appendix B)
2. Make sure Barcode Configurability is enabled (see Chapter 1.2.1)
3. Scan '**Set Start Length**'
4. Scan '0' and 'D' respectively from **Numeric Barcodes** (see Appendix C)
5. Scan '**Save**' (see Appendix D)
6. Scan '**Start**'

To output End only:

Example: Barcode data is '1234567890123ABC' ; you want to output the last digits 'ABC' .

1. Find the Hexadecimal equivalent '03' to the Decimal value '3' using **ASCII Table** (see Appendix B)
2. Make sure Barcode Configurability is enabled (see Chapter 1.2.1)
3. Scan '**Set End Length**'
4. Scan '0' and '3' respectively from **Numeric Barcodes** (see Appendix C)
5. Scan '**Save**' (see Appendix D)
6. Scan '**End**'

To output Center only:

Example: Barcode data is '12345678900123ABC' ; you want to output the 4 digits '0123' in the middle.

1. Find the Hexadecimal equivalent '0A' and '03' to the Decimal value '10' and '3' respectively using **ASCII Table** (see Appendix B)
2. Make sure Barcode Configurability is enabled (see Chapter 1.2.1)
3. Scan '**Set End Length**'
4. Scan '0' and '3' respectively from **Numeric Barcodes** (see Appendix C)
5. Scan '**Save**' (see Appendix D)
6. Scan '**Set Start Length**'
7. Scan '0' and 'A' respectively from **Numeric Barcodes** (see Appendix C)
8. Scan '**Save**' (see Appendix D)
9. Scan '**Center**'

7.6 Read Fail

When Read Fail is enabled, a pre-defined message will be sent when MT8200S fails to decode barcode.



Enable Read Fail



*Disable Read Fail

Set Read Fail

You can define up to 15 characters as Read Fail message using the Set Read Fail configuration barcode. First you need to convert each desired character into Hexadecimal value with the help of **ASCII Table** (see Appendix B)



Set Read Fail

Example: Set Read Fail message as 'FAIL'

1. Find the Hexadecimal equivalent of each word of 'FAIL' using **ASCII Table** (see Appendix B). You will get '46', '41', '49', '4C'.
2. Make sure Barcode Configurability is enabled (see Chapter 1.2.1)
3. Scan '**Set Read Fail**'
4. Scan '4', '6', '4', '1', '4', '9', '4', 'C' respectively from **Numeric Barcodes** (see Appendix C)
5. Scan '**Save**' (see Appendix D)

7.7 Protocol

When Protocol is enabled, data format will be:

<03><Length><Barcode Data><Terminator>



*Disable Protocol



Enable Protocol

8 Symbologies

8.1 All Symbologies

Below configuration barcodes allow you to enable or disable all symbologies. If all symbologies are disabled, MT8200S can decode configuration barcodes only.



Enable All Symbologies



Disable All Symbologies



***Default Symbologies**

8.2 Roll Angle Tolerance

When Roll Angle Tolerance is enabled, MT8200S can decode a barcode when it is rotated 180 degrees (upside down). When disabled, MT8200S has optimal decode speed.



***Enable Roll Angle Tolerance**



Disable Roll Angle Tolerance

8.3 Pitch/Skew Angle Tolerance

When enabled, MT8200S can decode a barcode from a larger reading angle through which a barcode is rotated around its lateral/vertical axis. When disabled, MT8200S has optimal decode speed.



***Disable Pitch/Skew Angle Tolerance**



Enable Pitch/Skew Angle Tolerance

8.4 EAN13

Below configuration barcodes allow you to enable/disable EAN13 symbology.



***Enable EAN13**



Disable EAN13

Below configuration barcodes allow you to enable/disable add-on supplement.



*** +2 Off**



+2 On



*** +5 Off**



+5 On

8.5 EAN8

Below configuration barcodes allow you to enable/disable EAN8 symbology.



***Enable EAN8**



Disable EAN8

Below configuration barcodes allow you to enable/disable add-on supplement.



*** +2 Off**



+2 On



*** +5 Off**



+5 On

8.6 UPC-A

Below configuration barcodes allow you to enable/disable UPC-A symbology.



***Enable UPC-A**



Disable UPC-A

Below configuration barcodes allow you to enable/disable add-on supplement.



*** +2 Off**



+2 On



*** +5 Off**



+5 On

8.7 UPC-E0

Below configuration barcodes allow you to decode UPC-E that starts with 0.



***Enable UPC-E0**



Disable UPC-E0

8.8 UPC-E1

Below configuration barcodes allow you to decode UPC-E that starts with 1.

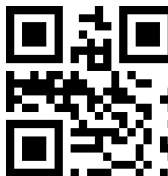


***Enable UPC-E1**



Disable UPC-E1

Below configuration barcodes allow you to enable/disable add-on supplement.



*** +2 Off**



+2 On



*** +5 Off**



+5 On

8.9 Code 128

Below configuration barcodes allow you to enable/disable Code 128 symbology.



***Enable Code 128**



Disable Code 128

Below configuration barcodes allow you to set Minimum Length of Code 128.



Code 128 Min Length = 0



***Code 128 Min Length = 4**

Below configuration barcodes allow you to set Maximum Length of Code 128.



***Code 128 Max Length = 32**



Code 128 Max Length = 255

8.10 Code 39

Below configuration barcodes allow you to enable/disable Code 39 symbology.



***Enable Code 39**



Disable Code 39

Below configuration barcodes allow you to set Minimum Length of Code 39.



Code 39 Min Length = 0



***Code 39 Min Length = 4**

Below configuration barcodes allow you to set Maximum Length of Code 39.



***Code 39 Max Length = 32**



Code 39 Max Length = 255

Below configuration barcodes allow you to enable/disable Code 32 and Full ASCII Code 39



***Disable Code 32**



Enable Code 32



***Disable Full ASCII Code 39**



Enable Full ASCII Code 39

8.11 Code 93

Below configuration barcodes allow you to enable/disable Code 93 symbology.



***Enable Code 93**



Disable Code 93

Below configuration barcodes allow you to set Minimum Length of Code 93.



Code 93 Min Length = 0



***Code 93 Min Length = 4**

Below configuration barcodes allow you to set Maximum Length of Code 93.



***Code 93 Max Length = 32**



Code 93 Max Length = 255

8.12 Codabar

Below configuration barcodes allow you to enable/disable Codabar symbology.



***Enable Codabar**



Disable Codabar

Below configuration barcodes allow you to enable/disable Start/Stop character of Codabar.



Send Start/Stop



***Not Send Start/Stop**

Below configuration barcodes allow you to set Minimum Length of Codabar.



Codabar Min Length = 0



***Codabar Min Length = 4**

Below configuration barcodes allow you to set Maximum Length of Codabar.



***Codabar Max Length = 32**



Codabar Max Length = 255

8.13 QR Code

Below configuration barcodes allow you to enable/disable QR Code symbology.



***Enable QR Code**



Disable QR Code

8.14 Interleaved 2 of 5

Below configuration barcodes allow you to enable/disable Interleaved 2 of 5 symbology.



Enable Interleaved 2 of 5



***Disable Interleaved 2 of 5**

Below configuration barcodes allow you to set Minimum Length of Interleaved 2 of 5.



Interleaved 2 of 5 Min Length = 0



***Interleaved 2 of 5 Min Length = 4**

Below configuration barcodes allow you to set Maximum Length of Interleaved 2 of 5.



***Interleaved 2 of 5 Max Length = 32**



Interleaved 2 of 5 Max Length = 255

8.15 Industrial 2 of 5

Below configuration barcodes allow you to enable/disable Industrial 2 of 5 symbology.



Enable Industrial 2 of 5



***Disable Industrial 2 of 5**

Below configuration barcodes allow you to set Minimum Length of Industrial 2 of 5.



Industrial 2 of 5 Min Length = 0



***Industrial 2 of 5 Min Length = 4**

Below configuration barcodes allow you to set Maximum Length of Industrial 2 of 5.



***Industrial 2 of 5 Max Length = 32**



Industrial 2 of 5 Max Length = 255

8.16 Matrix 2 of 5

Below configuration barcodes allow you to enable/disable Matrix 2 of 5 symbology.



Enable Matrix 2 of 5



***Disable Matrix 2 of 5**

Below configuration barcodes allow you to set Minimum Length of Matrix 2 of 5.



Matrix 2 of 5 Min Length = 0



***Matrix 2 of 5 Min Length = 4**

Below configuration barcodes allow you to set Maximum Length of Matrix 2 of 5.



***Matrix 2 of 5 Max Length = 32**



Matrix 2 of 5 Max Length = 255

Below configuration barcodes allow you to enable check digit verification of Matrix 2 of 5.



Matrix 2 of 5 CDV = Mod 10



***Matrix 2 of 5 CDV = None**

8.17 Code 11

Below configuration barcodes allow you to enable/disable Code 11 symbology.



Enable Code 11



***Disable Code 11**

Below configuration barcodes allow you to set Minimum Length of Code 11.



Code 11 Min Length = 0



***Code 11 Min Length = 4**

Below configuration barcodes allow you to set Maximum Length of Code 11.



***Code 11 Max Length = 32**



Code 11 Max Length = 255

Below configuration barcodes allow you to choose check digit verification of Code 11.



Code 11 CDV = 1 bit



*Code 11 CDV = 2 bits

8.18 MSI

Below configuration barcodes allow you to enable/disable MSI symbology.



Enable MSI



*Disable MSI

Below configuration barcodes allow you to set Minimum Length of MSI.



MSI Min Length = 0



*MSI Min Length = 4

Below configuration barcodes allow you to set Maximum Length of MSI.



*MSI Max Length = 32



MSI Max Length = 255

8.19 GS1 Databar (RSS-14)

Below configuration barcodes allow you to enable/disable GS1 Databar symbology.



Enable GS1 Databar



*Disable GS1 Databar

Below configuration barcodes allow you to enable/disable GS1 Databar Limited symbology.



Enable GS1 Databar Limited



***Disable GS1 Databar Limited**

Below configuration barcodes allow you to enable/disable GS1 Databar Expanded symbology.



Enable GS1 Databar Expanded



***Disable GS1 Databar Expanded**

Below configuration barcodes allow you to set Minimum Length of GS1 Databar.



GS1 Databar Min Length = 0



***GS1 Databar Min Length = 4**

Below configuration barcodes allow you to set Maximum Length of GS1 Databar.



***GS1 Databar Max Length = 32**



GS1 Databar Max Length = 255

8.20 Data Matrix

Below configuration barcodes allow you to enable/disable Data Matrix symbology.



***Enable Data Matrix**



Disable Data Matrix

Below configuration barcodes allow you to decode multiple Data Matrix barcodes at the same time.



***Disable Multiple Data Matrix**



Enable Multiple Data Matrix

8.21 PDF417

Below configuration barcodes allow you to enable/disable PDF417 symbology.



***Enable PDF417**



Disable PDF417

9 Appendix A: Code ID Table

Table 11-1 Code ID Table

Symbology	Code ID	Address
EAN-13	d	0x91
EAN-8	d	0x92
UPC-A	c	0x93
UPC-E0	c	0x94
UPC-E1	c	0x95
Code 128	j	0x96
Code 39	b	0x97
Code 93	i	0x98
Codabar	a	0x99
Interleaved 2 of 5	e	0x9A
Industrial 2 of 5	D	0x9B
Matrix 2 of 5	v	0x9C
Code 11	H	0x9D
MSI	m	0x9E
GS1 Databar	R	0x9F
GS1 Databar Limited	R	0xA0
GS1 Databar Expanded	R	0xA1
QR Code	Q	0xA2
Data Matrix	u	0xA3
PDF417	r	0xA4

10 Appendix B: ASCII Table

Table 12-1 ASCII Table

Hexadecimal Value	Decimal Value	ASCII
00	0	NUL
01	1	SOH
02	2	STX
03	3	ETX
04	4	EOT
05	5	ENQ
06	6	ACK
07	7	BEL
08	8	BS
09	9	HT
0a	10	LF
0b	11	VT
0c	12	FF
0d	13	CR
0e	14	SO
0f	15	SI
10	16	DLE
11	17	DC1
12	18	DC2
13	19	DC3
14	20	DC4
15	21	NAK
16	22	SYN
17	23	ETB
18	24	CAN
19	25	EM
1a	26	SUB
1b	27	ESC
1c	28	FS

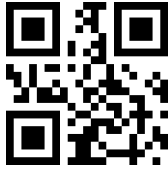
Hexadecimal Value	Decimal Value	ASCII
1d	29	GS
1e	30	RS
1f	31	US
20	32	SP
21	33	!
22	34	"
23	35	#
24	36	\$
25	37	%
26	38	&
27	39	`
28	40	(
29	41)
2a	42	*
2b	43	+
2c	44	,
2d	45	-
2e	46	.
2f	47	/
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	:
3b	59	;
3c	60	<
3d	61	=
3e	62	>

Hexadecimal Value	Decimal Value	ASCII
3f	63	?
40	64	@
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	[
5c	92	\
5d	93]
5e	94	^
5f	95	_
60	96	'

Hexadecimal Value	Decimal Value	ASCII
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	{
7c	124	
7d	125	}
7e	126	~
7f	127	DEL

11 Appendix C: Numeric Barcodes

0 ~ 9



0



1



2



3



4



5



6



7



8



9

A - F



A



B



C



D



E



F

12 Appendix D: Save / Delete / Abort

'Save' configuration barcode enables MT8200S to store variable values of a certain configuration (i.g. **Set Preamble**, Chapter 7.1). If you enter the wrong variable values with the wrong numeric barcodes, you can delete those values as well.

For example, if you have entered 'A', 'B', 'C', 'D' as variable values, you may delete the last value 'D' by scanning 'Delete Last Value', or delete all values 'ABCD' by scanning 'Delete All Values', or abort the configuration procedure by scanning 'Abort'. (*Note: After scanning 'Abort', you have to start all over again. After scanning 'Delete Last Value' or 'Delete All Values', you can go on to scan the correct numeric barcodes and 'Save' to complete the configuration)



Save



Delete Last Value



Delete All Values



Abort