
NT-480 User Manual

Release v1.0.0

2026-06-27

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Start Setup

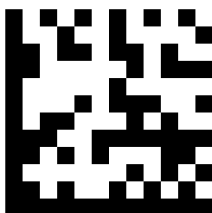
1 System Settings

Important

On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

1.1 Restore Default Settings

This restores all scanner settings to the factory defaults.



Restore Default Settings

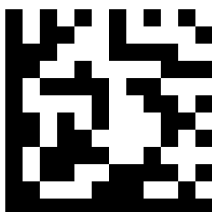
1.2 Custom Settings

Save Custom Settings

Save frequently used settings.

Load Custom Settings

Load the saved custom settings.

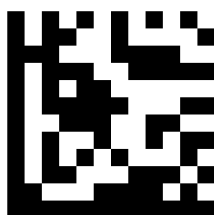


Save Custom Settings





Start Setup



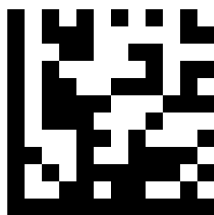
Load Custom Settings

2 Device Feature Settings

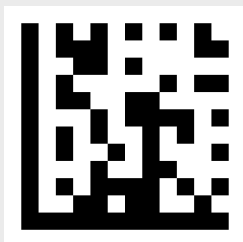
Important

On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

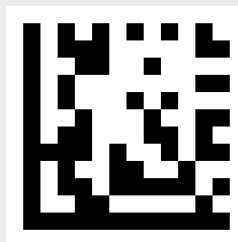
2.1 Aiming Light



Enable During Scanning



* Always Enable



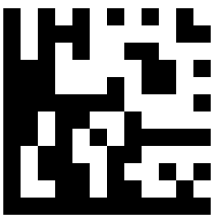
Disable

2.2 Illumination Mode

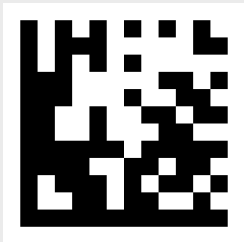




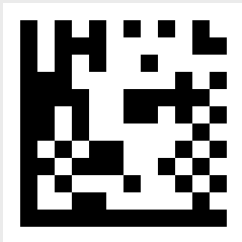
Start Setup



* Enable During Scanning

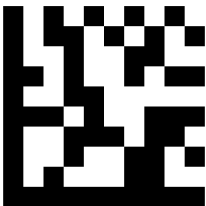


Always Enable

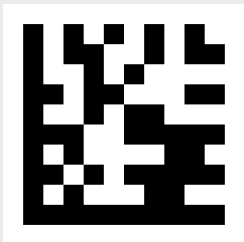


Disable

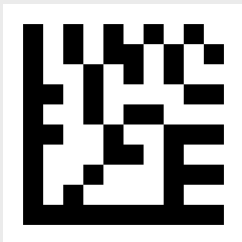
2.3 Illumination Brightness



* High Brightness



Medium Brightness



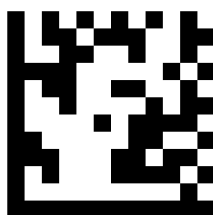
Low Brightness

2.4 Beeper





Start Setup



* Enable



Disable

3 Trigger Settings

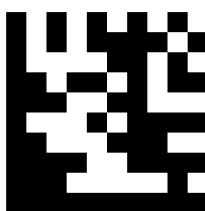
Important

On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

3.1 Scan Mode

Level Trigger

Scanning starts while the scan key is held down and ends after a successful decode or when the read timeout is reached.



* Level Trigger

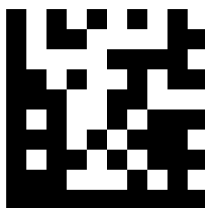
Auto Sensing

Scanning starts when image changes are detected and ends when the read timeout is reached.





Start Setup



Auto Sensing

Continuous Scanning

Continuously read one or multiple barcodes. The same-code interval setting defines the decode order. Press and release the scan key to start or stop scanning.



Continuous Scanning

3.2 Same Barcode Read Mode

In auto sensing, continuous scanning, and pulse trigger modes, you can configure how repeated reads of the same barcode are handled.

Note

By default, the same barcode is not read again within 500 ms. The interval can be set to 0~5000 ms, where 0 means no interval.

Suppress Repeated Reads

If the same barcode is read repeatedly within the suppression period, it is ignored and not output, and the timer restarts.

Interval Read

If the same barcode is read repeatedly within the interval, it is ignored and not output. It is output again after the interval expires.

Do Not Repeat Same Barcode

The same barcode is not output repeatedly.

Example: Suppress repeated reads of the same barcode within 100 ms.

1. Scan “Start Setup” .
2. Scan the “Suppress Repeated Reads” setting barcode.
3. Scan the “Read Interval” setting barcode.



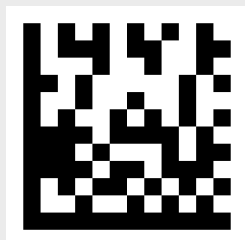


Start Setup

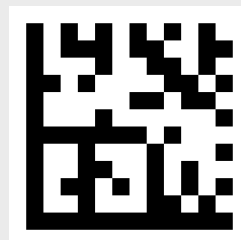
4. Scan the 1 setting barcode in *Decimal Digits*.
5. Scan the 0 setting barcode in *Decimal Digits*.
6. Scan the 0 setting barcode in *Decimal Digits*.
7. Scan “End Setup” .

i Example: Read the same barcode again after a 1-second interval.

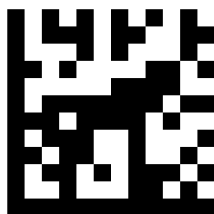
1. Scan “Start Setup” .
2. Scan the “Interval Read” setting barcode.
3. Scan the “Read Interval” setting barcode.
4. Scan the 1 setting barcode in *Decimal Digits*.
5. Scan the 0 setting barcode in *Decimal Digits*.
6. Scan the 0 setting barcode in *Decimal Digits*.
7. Scan the 0 setting barcode in *Decimal Digits*.
8. Scan “End Setup” .



* Suppress Repeated Reads



Interval Read

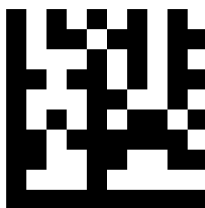


Do Not Repeat Same Barcode





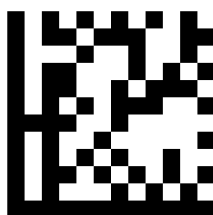
Start Setup



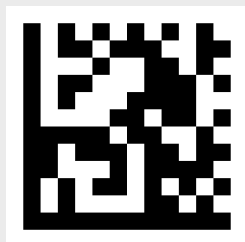
Read Interval (ms)

3.3 Decode Time

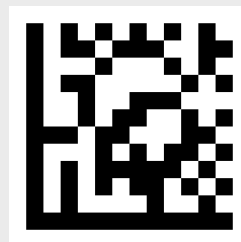
(This setting is not supported in continuous scanning mode.)



* 5 Seconds

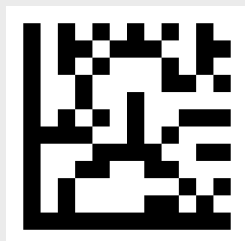


10 Seconds

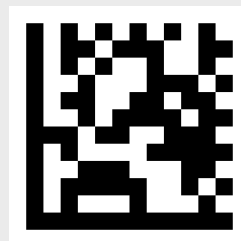


No Limit

3.4 Sleep Time



Disable

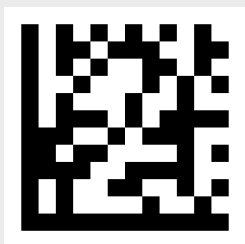


1 Second

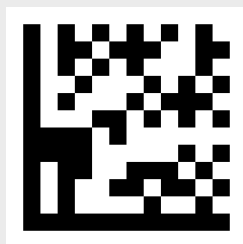




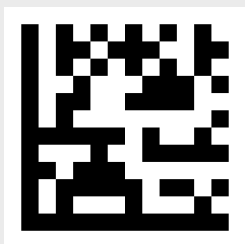
Start Setup



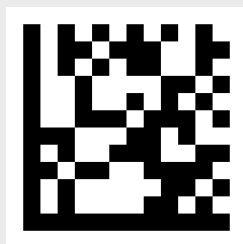
2 Seconds



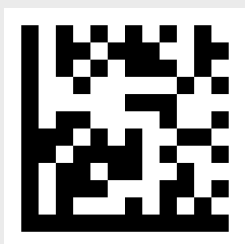
3 Seconds



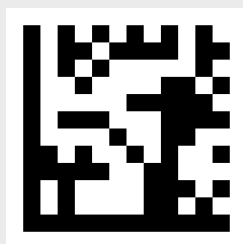
5 Seconds



7 Seconds



* 10 Seconds



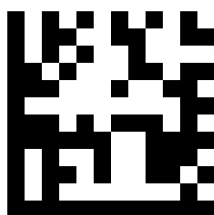
15 Seconds

3.5 Auto Sensing Sensitivity

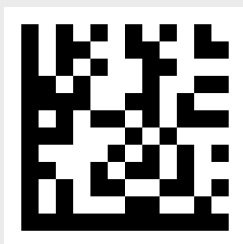




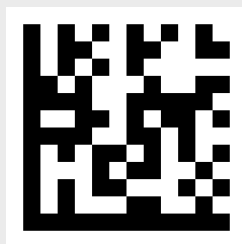
Start Setup



Low Sensitivity

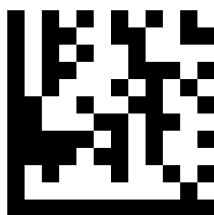


* Medium Sensitivity

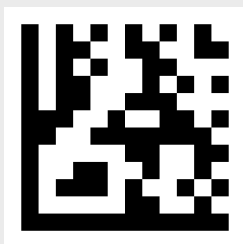


High Sensitivity

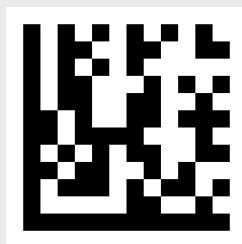
3.6 Decode Data Verification



* Disable



Output After Reading Twice



Output After Reading Three Times

4 Interface Settings





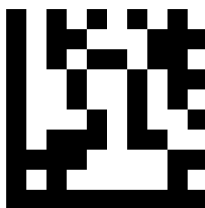
Start Setup

Important

On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

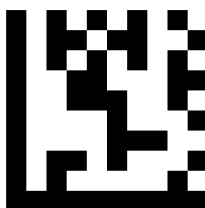
4.1 Output Mode

4.2 USB Keyboard



* USB Keyboard Output

4.3 USB Virtual COM



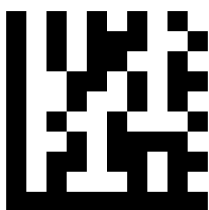
USB Virtual COM Output

4.4 Serial



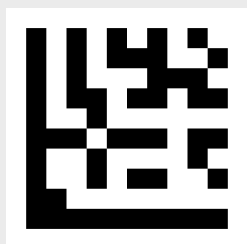


Start Setup

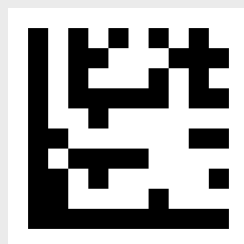


Serial Output

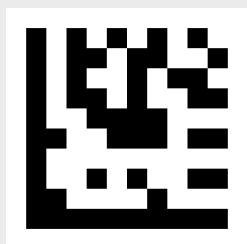
4.5 Serial Baud Rate



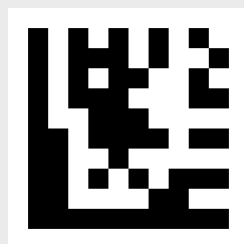
* 9600



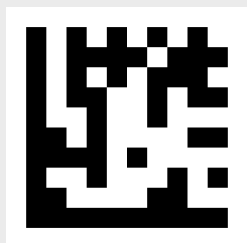
19200



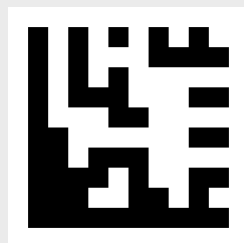
38400



57600



115200



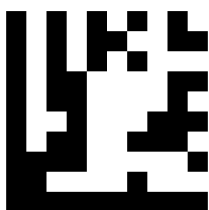
230400

4.6 Serial Data Bits

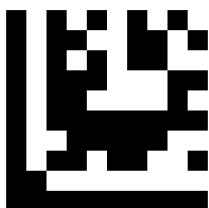




Start Setup

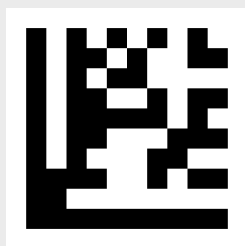


7 Data Bits

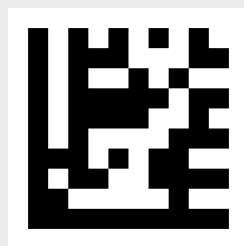


* 8 Data Bits

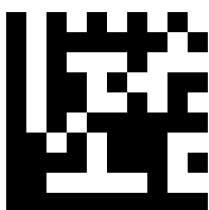
4.7 Serial Parity



* No Parity



Odd Parity



Even Parity

4.8 Serial Stop Bits

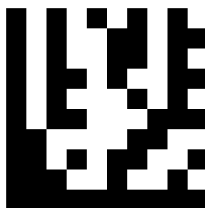




Start Setup



* One Stop Bit



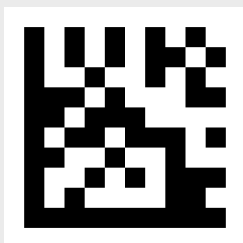
Two Stop Bits

5 Keyboard Settings

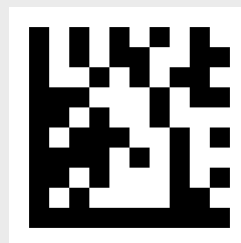
Important

On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

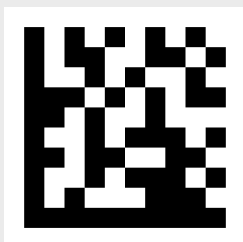
5.1 International Keyboard



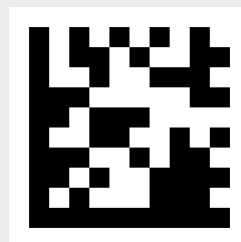
* US



Belgium



United Kingdom

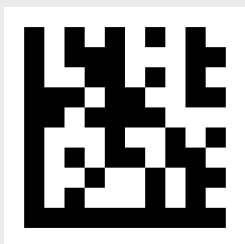


Denmark

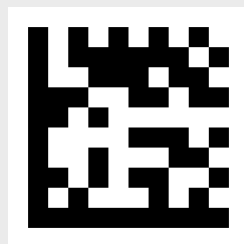




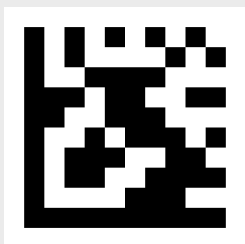
Start Setup



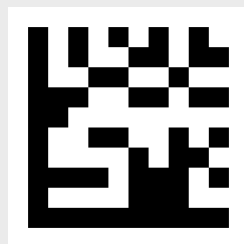
France



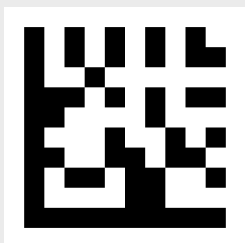
Germany



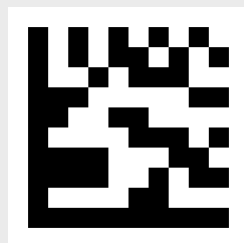
Italy



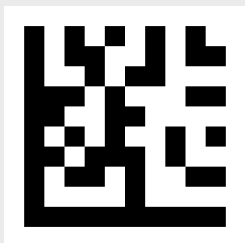
Norway



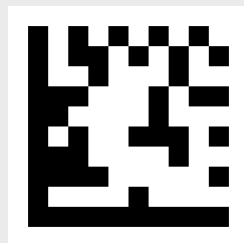
Portugal



Spain



Sweden

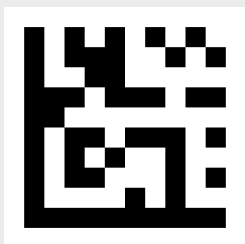


Switzerland

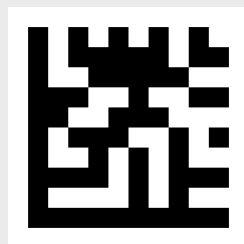




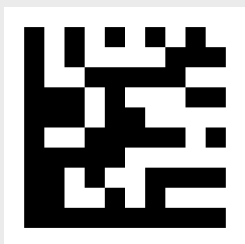
Start Setup



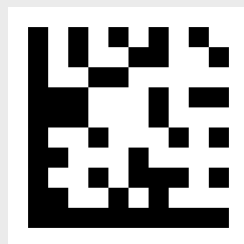
Japan



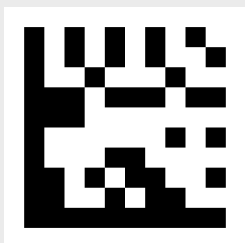
Hungary



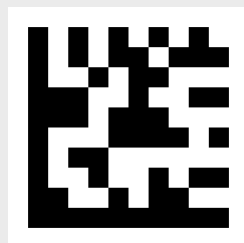
Czech Republic



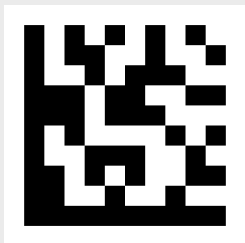
Slovakia



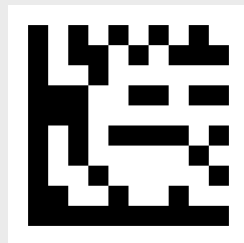
Romania



Croatia



Poland

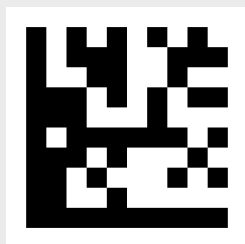


Turkey Q

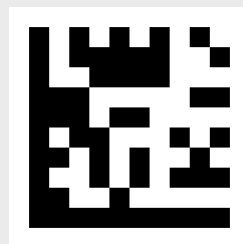




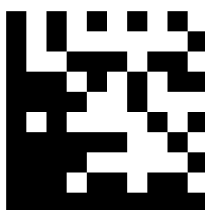
Start Setup



Brazil



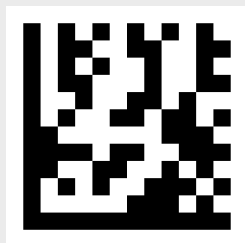
Russia



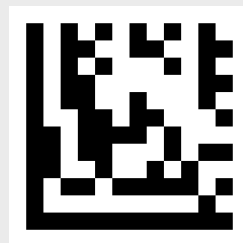
Bulgaria

5.2 QR Keyboard Output

GB2312 Simplified Chinese

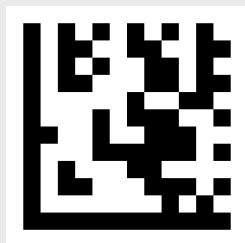


* Notepad, Excel

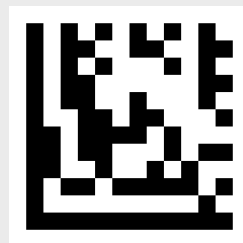


Word Output

Multilingual Generic Output (requires plugin settings)



UTF-8 - Multilingual Generic Output



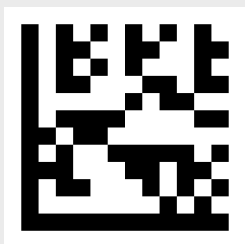
Code Page / Word Output



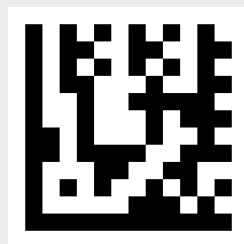


Start Setup

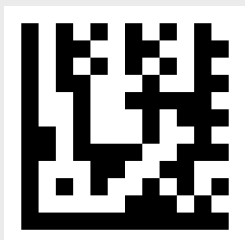
5.3 UTF-8 QR Keyboard Output



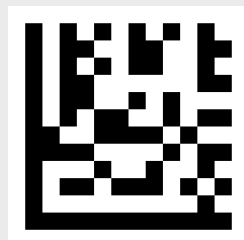
Thailand



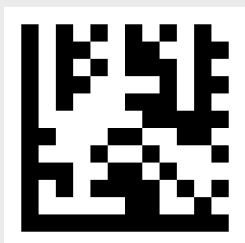
Russia



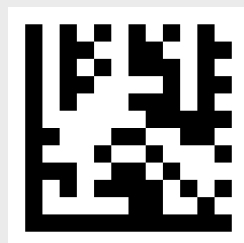
Bulgaria



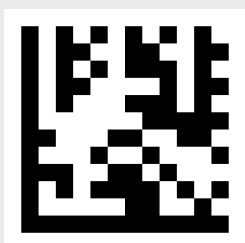
Turkey



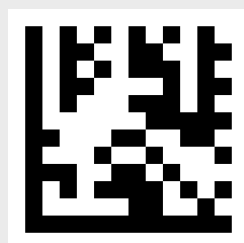
Brazil



Germany



France

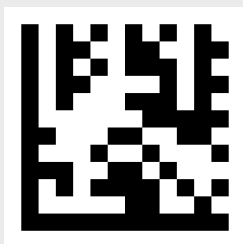


Italy

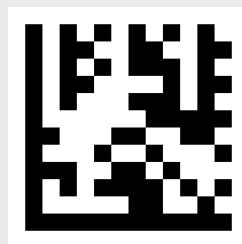




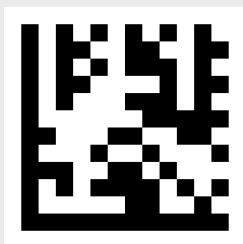
Start Setup



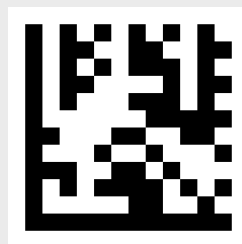
Spain



Portugal

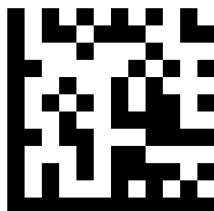


Malaysia

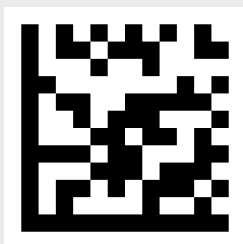


Indonesia

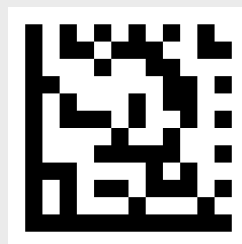
5.4 Letter Case Conversion



* Disable



Convert to Uppercase



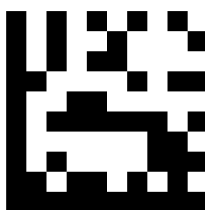
Convert to Lowercase

5.5 Caps Lock

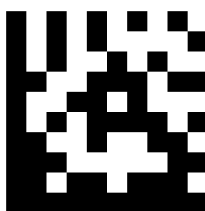




Start Setup



* Disable Caps Lock



Enable Caps Lock

5.6 GS Character Conversion

Convert the GS character in keyboard mode to another ASCII code.

Example: Convert the GS character to #.

1. Scan “Start Setup” .
2. Scan the “Convert GS Character” setting barcode.
3. Scan the # setting barcode in *ASCII Code Table*.
4. Scan “End Setup” .

Example: Convert the GS character to Enter.

1. Scan “Start Setup” .
2. Scan the “Convert GS Character” setting barcode.
3. Scan the Enter setting barcode in *ASCII Code Table*.
4. Scan “End Setup” .

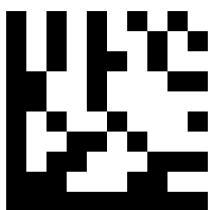
Example: Restore the default GS character setting.

1. Scan “Start Setup” .
2. Scan the “Disable GS Character Conversion” setting barcode.
3. Scan “End Setup” .

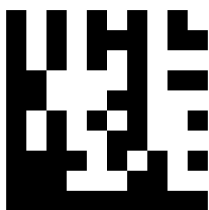




Start Setup

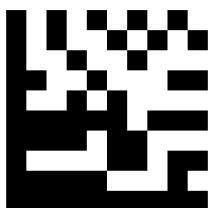


* Disable GS Character Conversion

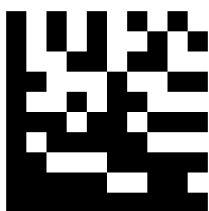


Convert GS Character

5.7 Function Key Mapping



Disable



* Enable



* Ctrl Char Mode





Start Setup



Alt + Unicode Mode

6 Data Editing

Important

On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

6.1 Output format

The following is the data output format.

Field	Length / Description
Barcode Information	4 bytes
Prefix	4 bytes
AIM ID	•
Barcode Data	•
Suffix	4 bytes
Terminator	1 byte

6.2 Barcode Information

Important

For this procedure, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

1. By default, barcode information is not output.
2. Use a serial command or scan a setting barcode to enable or disable barcode information output.



**Warning**

This function is supported only in serial mode and is not supported in USB keyboard mode.

The format is defined as follows:

Field	Length / Description
Start Flag	0x03 (1 byte)
Barcode Symbology Code	1 byte, hexadecimal
Barcode Length	2 bytes, range 0x0001 ~ 0xFFFF

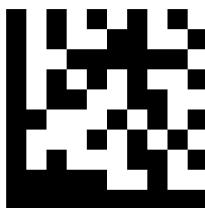
Barcode symbology codes are as follows:

Code	Barcode Type
0x41	PDF417
0x42	Micro PDF417
0x43	Data Matrix
0x44	QR Code
0x45	Micro QR
0x46	Aztec
0x47	MaxiCode
0x61	UPC-A
0x62	UPC-E
0x63	EAN-8
0x64	EAN-13
0x65	Code 128
0x66	Code 39
0x67	Code 93
0x68	Code 32
0x69	Code 11
0x6A	Codabar
0x6B	Plessey
0x6C	MSI Plessey
0x6D	Interleaved 2 of 5
0x6E	IATA 2 of 5
0x6F	Matrix 2 of 5
0x70	Straight 2 of 5
0x71	Pharmacode
0x72	GS1 DataBar 14
0x73	GS1 DataBar Expanded
0x74	GS1 DataBar Limited
0x75	Composite Code-A
0x76	Composite Code-B
0x77	Composite Code-C





Start Setup



* Disable



Enable

6.3 Prefix

Important

For this procedure, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

Add output characters before barcode data. Up to 4 characters can be set.

Example: Add the character a before all barcode data

1. Scan “Start Setup” .
2. Scan the “Set Prefix for All Symbologies” setting barcode.
3. Scan the a setting barcode in *ASCII Code Table*.
4. Scan “End Setup” .

Example: Remove the prefix

1. Scan “Start Setup” .
2. Scan the “Disable Prefix for All Symbologies” setting barcode.
3. Scan “End Setup” .

Example: Add the characters &13 before EAN-13 barcode data

1. Scan “Start Setup” .
2. Scan the “Set EAN-13 Prefix” setting barcode.



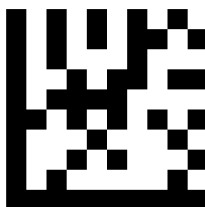


Start Setup

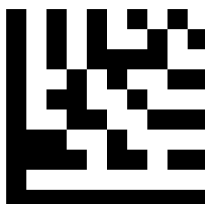
3. Scan the & setting barcode in *ASCII Code Table*.
4. Scan the 1 setting barcode in *ASCII Code Table*.
5. Scan the 3 setting barcode in *ASCII Code Table*.
6. Scan “End Setup” .

i Example: Remove the EAN-13 prefix

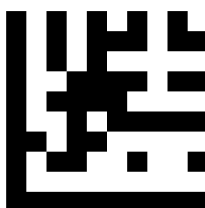
1. Scan “Start Setup” .
2. Scan the “Disable EAN-13 Prefix” setting barcode.
3. Scan “End Setup” .



* Disable Prefix for All Symbologies



Set Prefix for All Symbologies

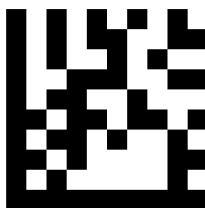


Set UPC-A Prefix

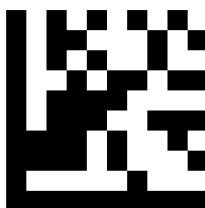




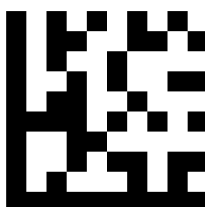
Start Setup



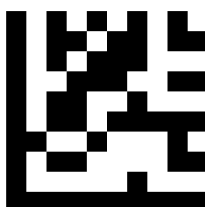
Disable UPC-A Prefix



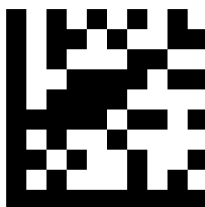
Set UPC-E Prefix



Disable UPC-E Prefix



Set EAN-8 Prefix

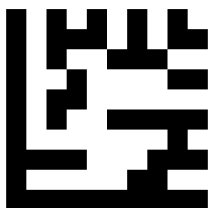


Disable EAN-8 Prefix

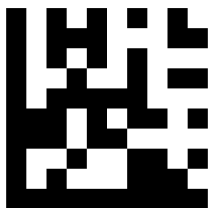




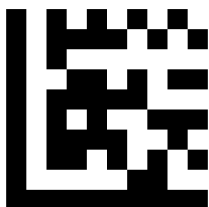
Start Setup



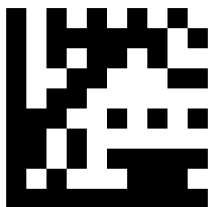
Set EAN-13 Prefix



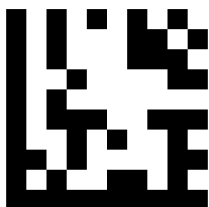
Disable EAN-13 Prefix



Set Code 128 Prefix



Disable Code 128 Prefix

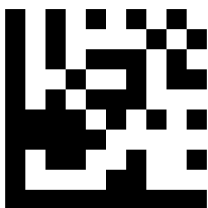


Set Code 39 Prefix

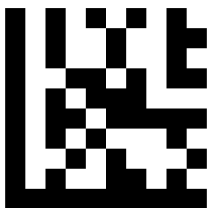




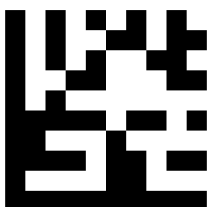
Start Setup



Disable Code 39 Prefix



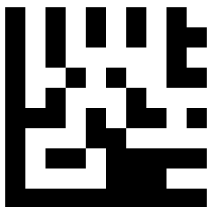
Set Code 93 Prefix



Disable Code 93 Prefix



Set Code 32 Prefix

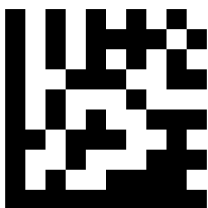


Disable Code 32 Prefix

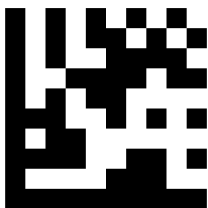




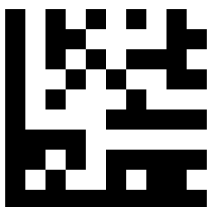
Start Setup



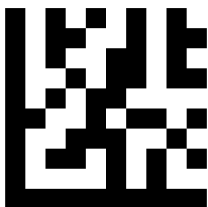
Set Code 11 Prefix



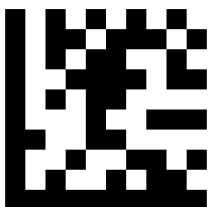
Disable Code 11 Prefix



Set Codabar Prefix



Disable Codabar Prefix

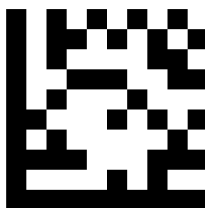


Set Plessey Prefix

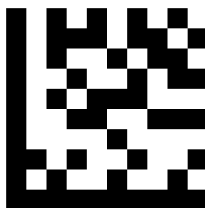




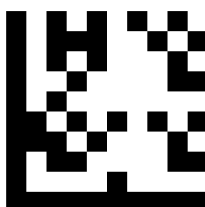
Start Setup



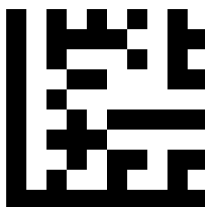
Disable Plessey Prefix



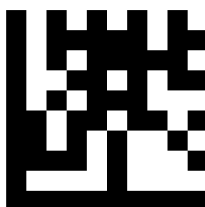
Set MSI Plessey Prefix



Disable MSI Plessey Prefix



Set Interleaved 2 of 5 Prefix

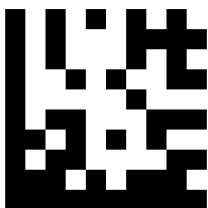


Disable Interleaved 2 of 5 Prefix

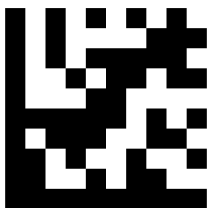




Start Setup



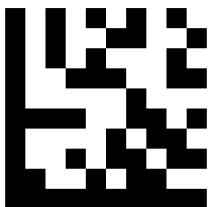
Set IATA 2 of 5 Prefix



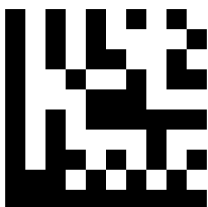
Disable IATA 2 of 5 Prefix



Set Matrix 2 of 5 Prefix



Disable Matrix 2 of 5 Prefix



Set Straight 2 of 5 Prefix

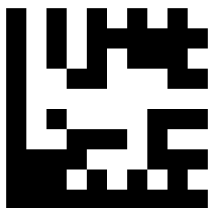




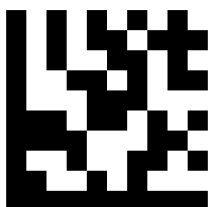
Start Setup



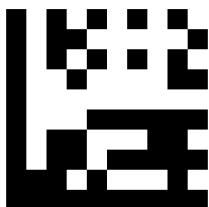
Disable Straight 2 of 5 Prefix



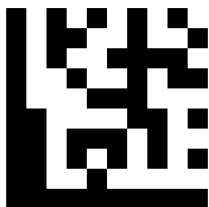
Set Pharmacode Prefix



Disable Pharmacode Prefix



Set GS1 DataBar 14 Prefix

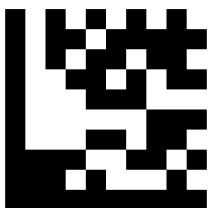


Disable GS1 DataBar 14 Prefix

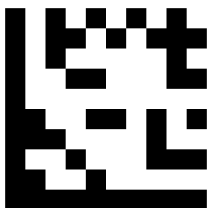




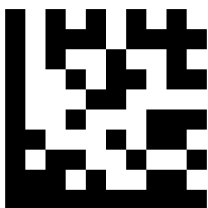
Start Setup



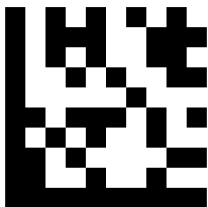
Set GS1 DataBar Expanded Prefix



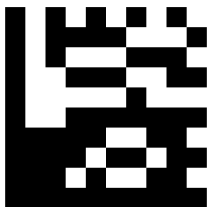
Disable GS1 DataBar Expanded Prefix



Set GS1 DataBar Limited Prefix



Disable GS1 DataBar Limited Prefix

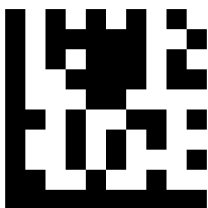


Set Composite Code A Prefix

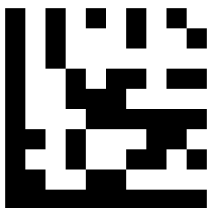




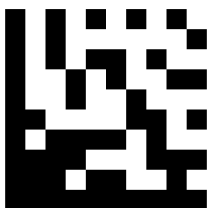
Start Setup



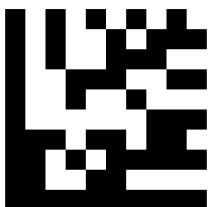
Disable Composite Code A Prefix



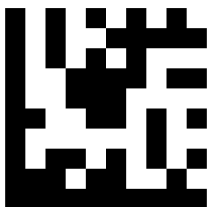
Set Composite Code B Prefix



Disable Composite Code B Prefix



Set Composite Code C Prefix

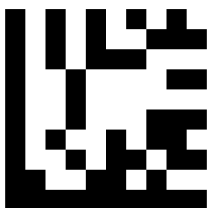


Disable Composite Code C Prefix

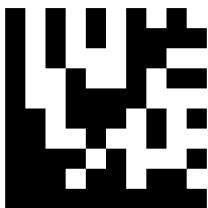




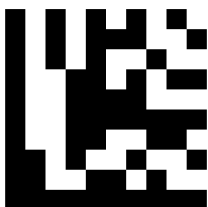
Start Setup



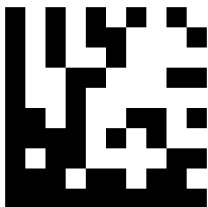
Set PDF417 Prefix



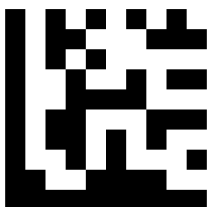
Disable PDF417 Prefix



Set Micro PDF417 Prefix



Disable Micro PDF417 Prefix

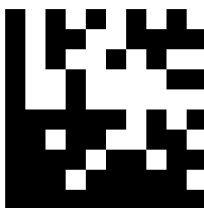


Set Data Matrix Prefix

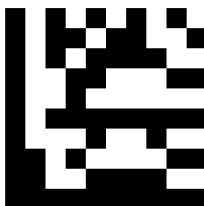




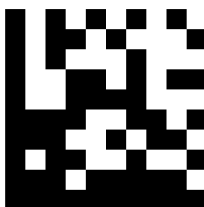
Start Setup



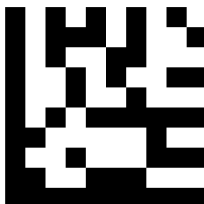
Disable Data Matrix Prefix



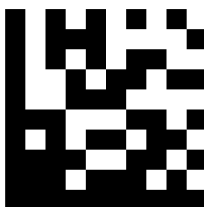
Set QR Code Prefix



Disable QR Code Prefix



Set Micro QR Prefix

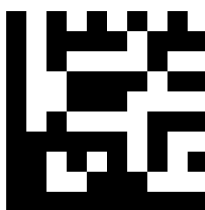


Disable Micro QR Prefix

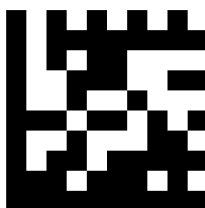




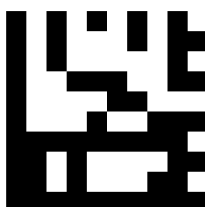
Start Setup



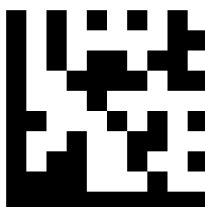
Set Aztec Prefix



Disable Aztec Prefix



Set MaxiCode Prefix



Disable MaxiCode Prefix

6.4 Suffix

Add output characters after barcode data. Up to 4 characters can be set.

Example: Add the character a after all barcode data

1. Scan “Start Setup” .
2. Scan the “Set All SymbolologiesSuffix” setting barcode.
3. Scan the a setting barcode in [ASCII Code Table](#).
4. Scan “End Setup” .



**i Example: Remove the suffix**

1. Scan “Start Setup” .
2. Scan the “Disable All SymbologiesSuffix” setting barcode.
3. Scan “End Setup” .

i Example: Add the characters &13 after EAN-13 barcode data

1. Scan “Start Setup” .
2. Scan the “Set EAN-13 Suffix” setting barcode.
3. Scan the & setting barcode in *ASCII Code Table*.
4. Scan the 1 setting barcode in *ASCII Code Table*.
5. Scan the 3 setting barcode in *ASCII Code Table*.
6. Scan “End Setup” .

i Example: Remove the EAN-13 suffix

1. Scan “Start Setup” .
2. Scan the “Disable EAN-13 Suffix” setting barcode.
3. Scan “End Setup” .

i Note

The source document does not provide extractable suffix setting barcode images for this section. The suffix options are listed below for now and can be restored to scannable items after the missing images are added.

Applicable Symbology	Setting Item	Disable Item
All Symbologies	Set Suffix for All Symbologies	* Disable Suffix for All Symbologies
UPC-A	Set UPC-A Suffix	Disable UPC-A Suffix
UPC-E	Set UPC-E Suffix	Disable UPC-E Suffix
EAN-8	Set EAN-8 Suffix	Disable EAN-8 Suffix
EAN-13	Set EAN-13 Suffix	Disable EAN-13 Suffix
Code 128	Set Code 128 Suffix	Disable Code 128 Suffix
Code 39	Set Code 39 Suffix	Disable Code 39 Suffix
Code 93	Set Code 93 Suffix	Disable Code 93 Suffix
Code 32	Set Code 32 Suffix	Disable Code 32 Suffix

continues on next page



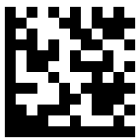


Table 2 – continued from previous page

Applicable Symbology	Setting Item	Disable Item
Code 11	Set Code 11 Suffix	Disable Code 11 Suffix
Codabar	Set Codabar Suffix	Disable Codabar Suffix
Plessey	Set Plessey Suffix	Disable Plessey Suffix
MSI Plessey	Set MSI Plessey Suffix	Disable MSI Plessey Suffix
Interleaved 2 of 5	Set Interleaved 2 of 5 Suffix	Disable Interleaved 2 of 5 Suffix
IATA 2 of 5	Set IATA 2 of 5 Suffix	Disable IATA 2 of 5 Suffix
Matrix 2 of 5	Set Matrix 2 of 5 Suffix	Disable Matrix 2 of 5 Suffix
Straight 2 of 5	Set Straight 2 of 5 Suffix	Disable Straight 2 of 5 Suffix
Pharmacode	Set Pharmacode Suffix	Disable Pharmacode Suffix
GS1 DataBar 14	Set GS1 DataBar 14 Suffix	Disable GS1 DataBar 14 Suffix
GS1 DataBar Expanded	Set GS1 DataBar Expanded Suffix	Disable GS1 DataBar Expanded Suffix
GS1 DataBar Limited	Set GS1 DataBar Limited Suffix	Disable GS1 DataBar Limited Suffix
Composite Code A	Set Composite Code A Suffix	Disable Composite Code A Suffix
Composite Code B	Set Composite Code B Suffix	Disable Composite Code B Suffix
Composite Code C	Set Composite Code C Suffix	Disable Composite Code C Suffix
PDF417	Set PDF417 Suffix	Disable PDF417 Suffix
Micro PDF417	Set Micro PDF417 Suffix	Disable Micro PDF417 Suffix
Data Matrix	Set Data Matrix Suffix	Disable Data Matrix Suffix
QR Code	Set QR Code Suffix	Disable QR Code Suffix
Micro QR	Set Micro QR Suffix	Disable Micro QR Suffix
Aztec	Set Aztec Suffix	Disable Aztec Suffix
MaxiCode	Set MaxiCode Suffix	Disable MaxiCode Suffix

6.5 Barcode Identifier

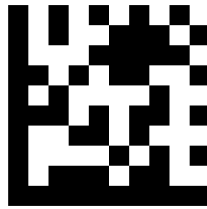
Important

For this procedure, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

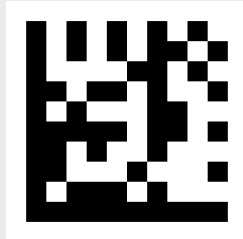




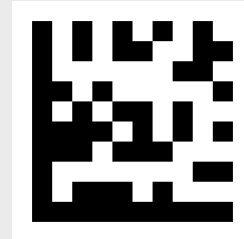
Start Setup



* Disable Barcode Identifier



Enable AIM Barcode Identifier



Enable NETUM Barcode Identifier

Barcode Identifier Table

Symbology	NETUM	AIM
UPC-A	A	E
UPC-E	E	E
EAN-8	FF	E
EAN-13	F	E
Code 128	K	C
Code 39	M	A
Code 93	L	G
Code 32	M	A
Code 11	O	H
Codabar	N	F
Plessey	P	P
MSI / Plessey	a	M
Interleaved 2 of 5	I	I
IATA 2 of 5	Z	R
Matrix 2 of 5	G	X
Straight 2 of 5	S	S
Pharmacode	H	X
GS1 DataBar 14	RS	e
GS1 DataBar Expanded	RX	e
GS1 DataBar Limited	RL	e
Composite CC-A	m	e
Composite CC-B	n	e
Composite CC-C	i	e
PDF417	r	L
Micro PDF417	s	L
Data Matrix	t	d

continues on next page





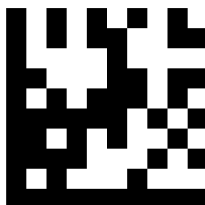
Table 3 – continued from previous page

Symbology	NETUM	AIM
QR Code	u	Q
Micro QR	j	Q
Aztec	e	Z
MaxiCode	v	U

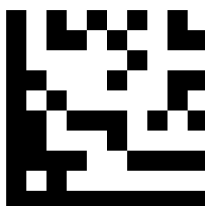
6.6 Terminator

Important

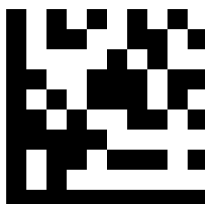
For this procedure, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.



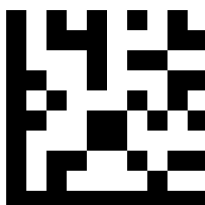
none



* Carriage Return / CR



CR / LF



TAB





7 Barcode Settings

Important

On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

7.1 Supported Symbolologies

Symbolology	Status
UPC-A	* Enable
UPC-E	* Enable
EAN-8	* Enable
EAN-13	* Enable
Code 128 / GS1-128	* Enable
Code 39	* Enable
Code 93	* Enable
Code 32	Disable
Code 11	Disable
Codabar	* Enable
Plessey	Disable
MSI Plessey	* Enable
Interleaved 2 of 5	* Enable
IATA 2 of 5	Disable
Matrix 2 of 5	Disable
Straight 2 of 5	Disable
Pharmacode	Disable
GS1 DataBar 14	* Enable
GS1 DataBar 14 Stacked	Disable
GS1 DataBar Expanded	* Enable
GS1 DataBar Expanded Stacked	Disable
GS1 DataBar Limited	* Enable
Composite Code-A	Disable
Composite Code-B	Disable
Composite Code-C	Disable
PDF417	* Enable
MicroPDF417	* Enable
Data Matrix	* Enable
QR Code	* Enable
Micro QR	* Enable
Aztec	Disable
MaxiCode	Disable

7.2 General Symbology Switches



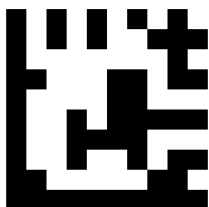


Start Setup

Important

For settings in this group, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

Enable All Barcodes



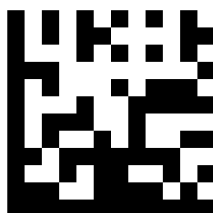
Enable All Barcodes

Enable 1D Barcodes Only



Enable 1D Barcodes Only

Enable 2D Barcodes Only



Enable 2D Barcodes Only

7.3 1D Symbology Settings

Important

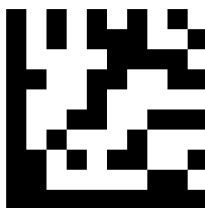
For settings in this group, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

UPC-A





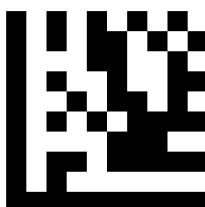
Start Setup



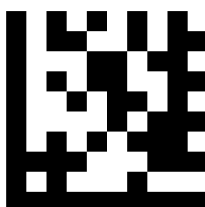
* Enable UPC-A



Disable UPC-A



* Transmit Leading Digit



Do Not Transmit Leading Digit

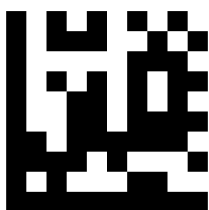


* Enable Check Digit

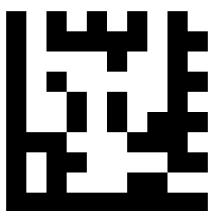




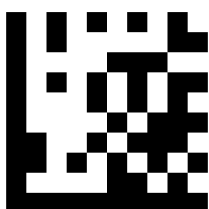
Start Setup



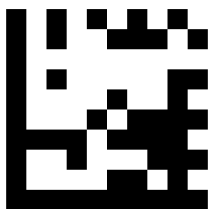
Disable Check Digit



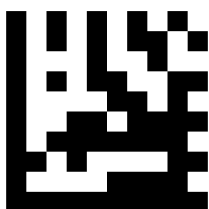
Enable EAN-13 Conversion



* Disable EAN-13 Conversion



Enable UPC-A 2/5-digit Addenda

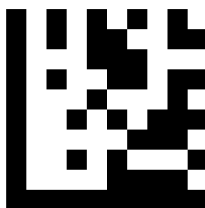


* Disable UPC-A 2/5-digit Addenda

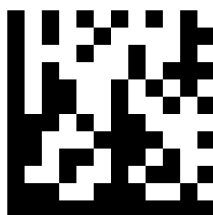




Start Setup

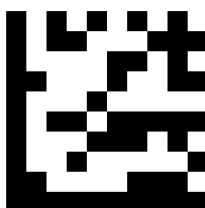


Read Only UPC-A 2/5-digit Addenda

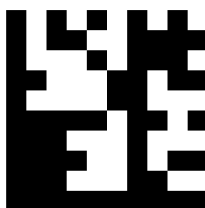


* Read UPC-A and UPC-A 2/5-digit Addenda

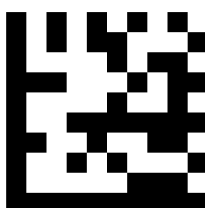
UPC-E



* Enable UPC-E



Disable UPC-A

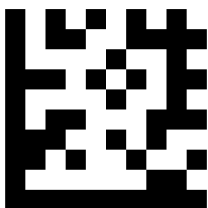


* Transmit Leading Digit

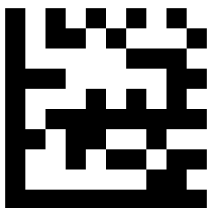




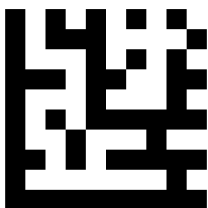
Start Setup



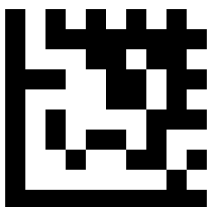
Do Not Transmit Leading Digit



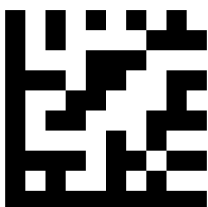
* Enable Check Digit



Disable Check Digit



Enable UPC-A Conversion

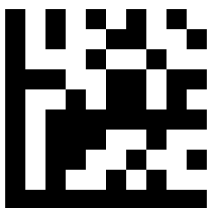


* Disable UPC-A Conversion

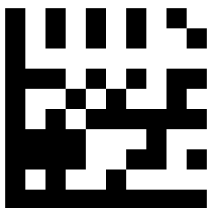




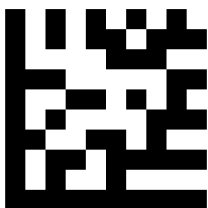
Start Setup



Enable UPC-E 2/5-digit Addenda



* Disable UPC-E 2/5-digit Addenda

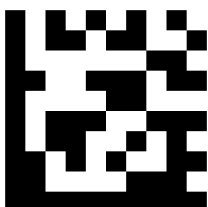


Read Only UPC-E 2/5-digit Addenda



* Read UPC-E and UPC-E 2/5-digit Addenda

EAN-8

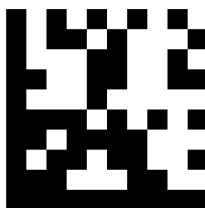


* Enable EAN-8

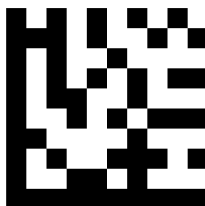




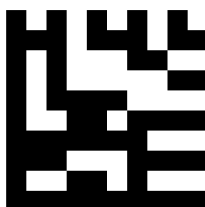
Start Setup



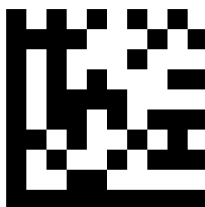
Disable EAN-8



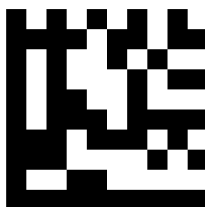
* Transmit Check Digit



Do Not Transmit Check Digit



Enable EAN-13 Conversion

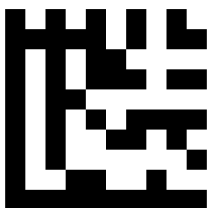


* Disable EAN-13 Conversion

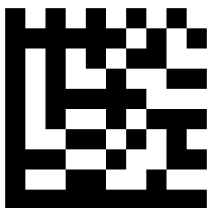




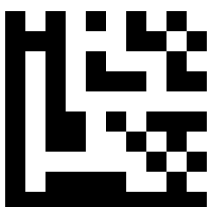
Start Setup



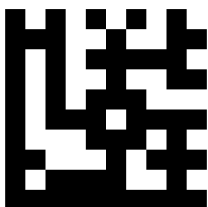
Enable EAN-8 2/5-digit Addenda



* Disable EAN-8 2/5-digit Addenda

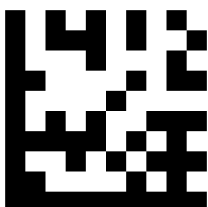


Read Only EAN-8 2/5-digit Addenda



* Read EAN-8 and EAN-8 2/5-digit Addenda

EAN-13

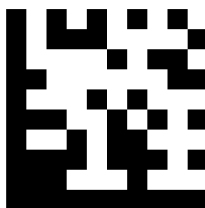


* Enable EAN-13

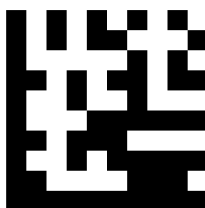




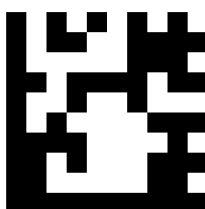
Start Setup



Disable EAN-13



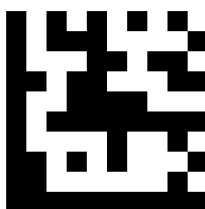
* Transmit Check Digit



Do Not Transmit Check Digit



Enable ISBN Conversion

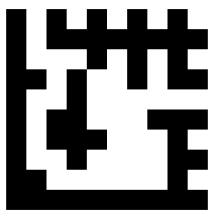


* Disable ISBN Conversion

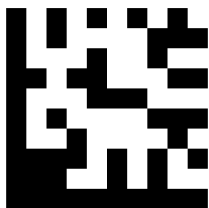




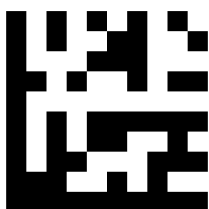
Start Setup



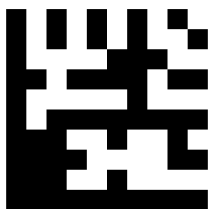
Enable ISSN Conversion



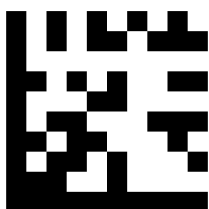
* Disable ISSN Conversion



Enable EAN-13 2/5-digit Addenda



* Disable EAN-13 2/5-digit Addenda

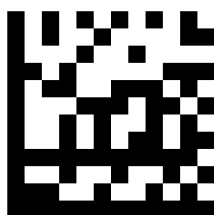


Read Only EAN-13 2/5-digit Addenda



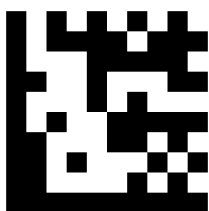


Start Setup

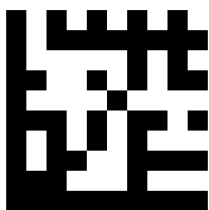


* Read EAN-13 and EAN-13 2/5-digit Addenda

Code 128 / GS1-128

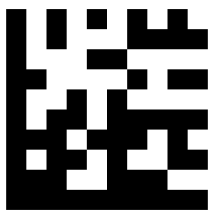


* Enable Code 128 / GS1-128

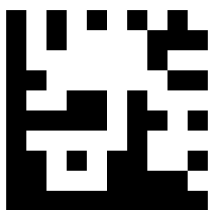


Disable Code 128 / GS1-128

Code 39



* Enable Code 39



Disable Code 39

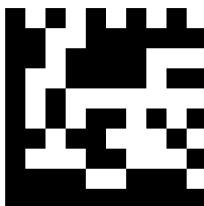




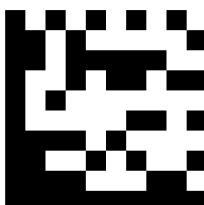
Start Setup



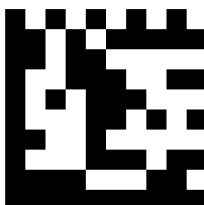
Enable Code 39 Full ASCII Function



* Disable Code 39 Full ASCII Function



Transmit Start/Stop Characters

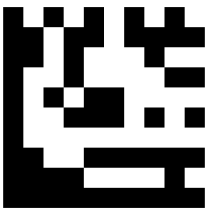


* Do Not Transmit Start/Stop Characters

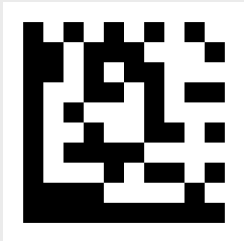




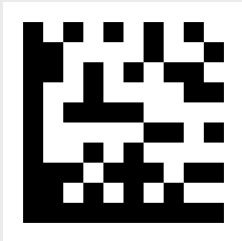
Start Setup



* No Verification

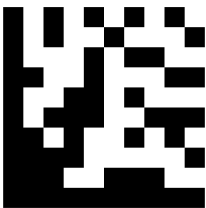


Verify and Transmit

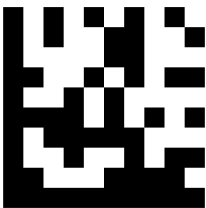


Verify Without Transmitting

Code 93

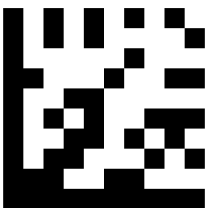


Enable Code 93



* Disable Code 93

Code 32

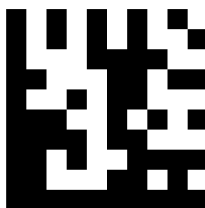


Enable Code 32



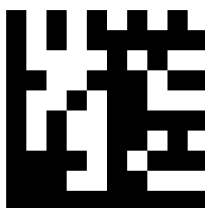


Start Setup

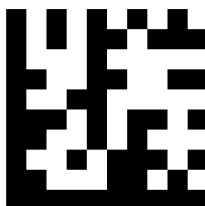


* Disable Code 32

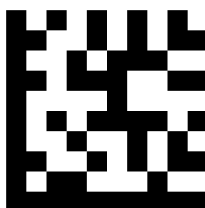
Code 11



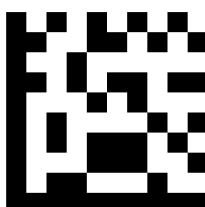
Enable Code 11



* Disable Code 11



* Transmit Check Digit

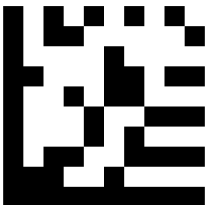


Do Not Transmit Check Digit

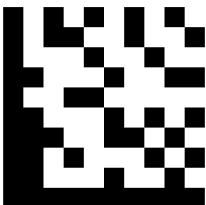




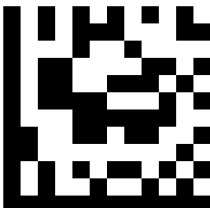
Codabar



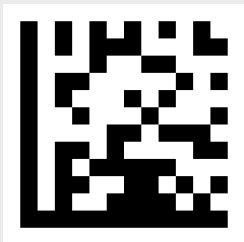
* Enable Codabar



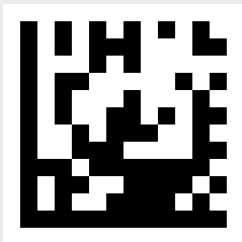
Disable Codabar



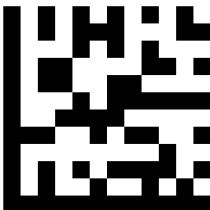
* No Verification



Verify and Transmit



Verify Without Transmitting

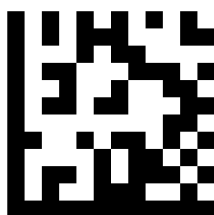


Transmit Start/Stop Characters



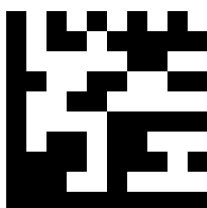


Start Setup

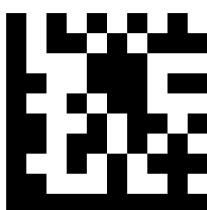


* Do Not Transmit Start/Stop Characters

Plessey

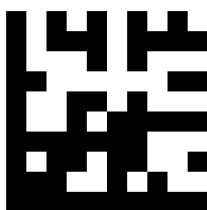


Enable Plessey

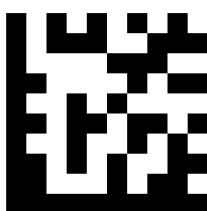


* Disable Plessey

MSI Plessey



* Enable MSI Plessey

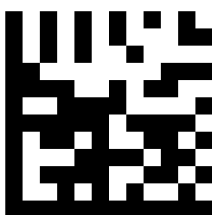


Disable MSI Plessey

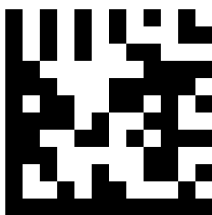




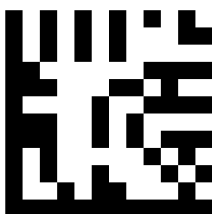
Start Setup



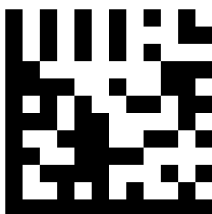
No Verification



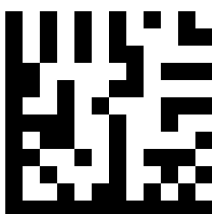
* Mod 10 Verification



Mod 10/10 Verification



Mod 11/10 Verification

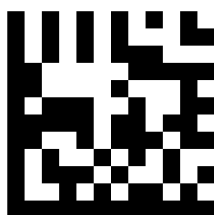


* Transmit Check Digit



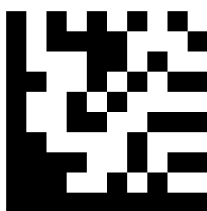


Start Setup

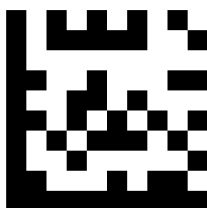


Do Not Transmit Check Digit

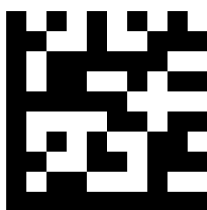
Interleaved 2 of 5



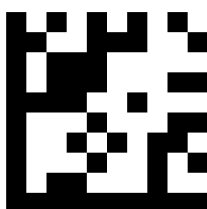
* Enable Interleaved 2 of 5



Disable Interleaved 2 of 5



* No Verification



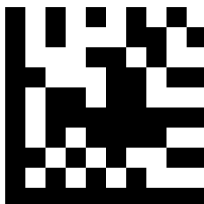
Verify and Transmit



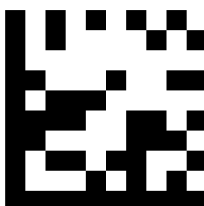


Start Setup

IATA 2 of 5

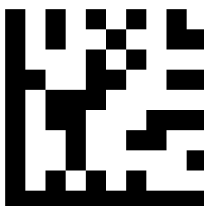


Enable IATA 2 of 5

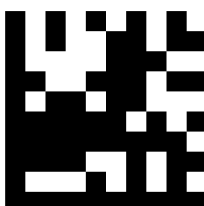


* Disable IATA 2 of 5

Matrix 2 of 5



Enable Matrix 2 of 5



* Disable Matrix 2 of 5

Straight 2 of 5

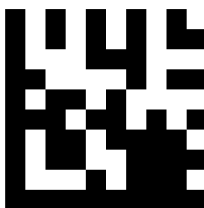


Enable Straight 2 of 5



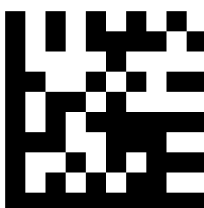


Start Setup

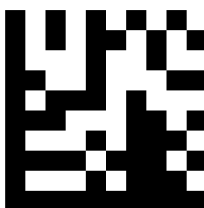


* Disable Straight 2 of 5

Pharmacode

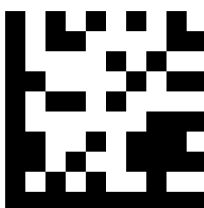


Enable Pharmacode

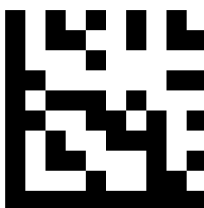


* Disable Pharmacode

GS1 DataBar 14



* Enable GS1 DataBar 14



Disable GS1 DataBar 14

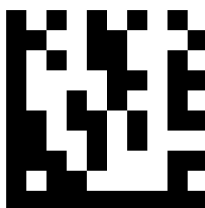




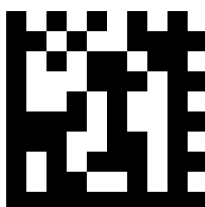
Start Setup



Enable GS1 DataBar 14 Stacked



* Disable GS1 DataBar 14 Stacked

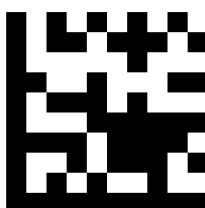


* Output AI (01) Characters



Do Not Output AI (01) Characters

GS1 DataBar Expanded

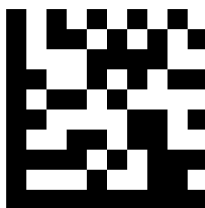


* Enable GS1 DataBar Expanded

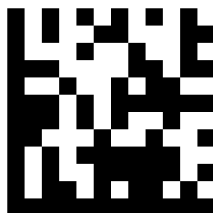




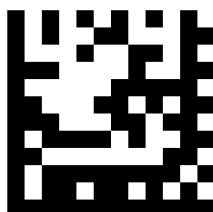
Start Setup



Disable GS1 DataBar Expanded



Enable GS1 DataBar Expanded Stacked



* Disable GS1 DataBar Expanded Stacked

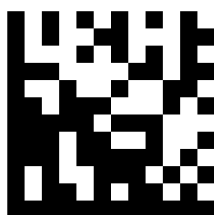


* Output AI (01) Characters



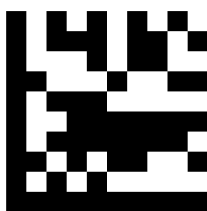


Start Setup

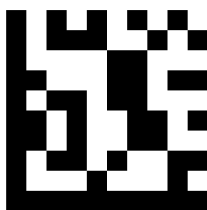


Do Not Output AI (01) Characters

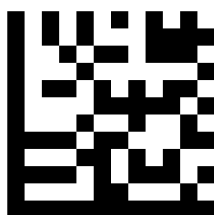
GS1 DataBar Limited



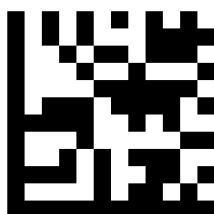
* Enable GS1 DataBar Limited



Disable GS1 DataBar Limited



* Output AI (01) Characters



Do Not Output AI (01) Characters





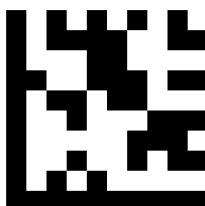
Start Setup

7.4 2D and Composite Code Settings

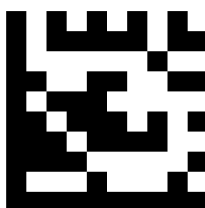
Important

For settings in this group, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

Composite Code-A

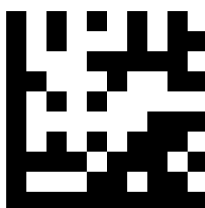


Enable Composite Code-A

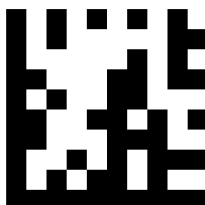


* Disable Composite Code-A

Composite Code-B



Enable Composite Code-B



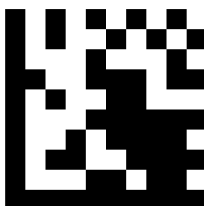
* Disable Composite Code-B



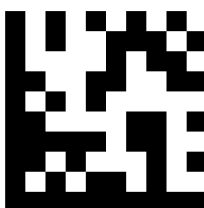


Start Setup

Composite Code-C



Enable Composite Code-C



* Disable Composite Code-C

PDF417



* Enable PDF417



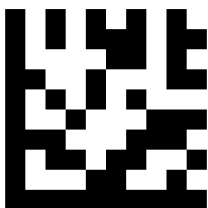
Disable PDF417

Micro PDF417

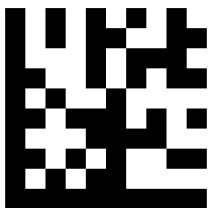




Start Setup

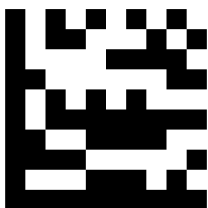


* Enable MicroPDF417

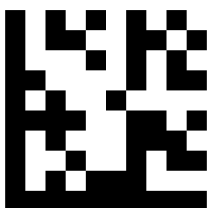


Disable Micro PDF417

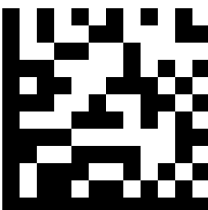
Data Matrix



* Enable Data Matrix



Disable Data Matrix

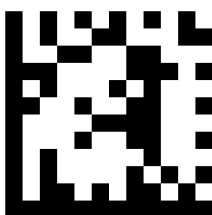


* Enable Mirror Decode

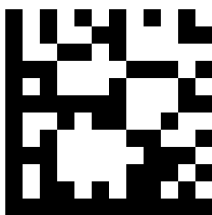




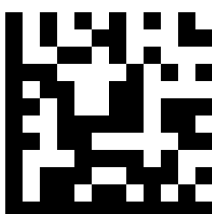
Start Setup



Disable Mirror Decode

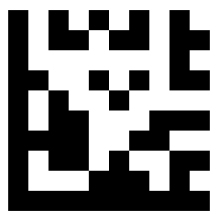


* Enable Rectangular Data Matrix

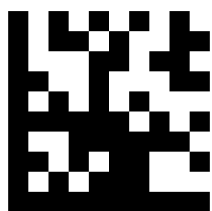


Disable Rectangular Data Matrix

QR Code



* Enable QR Code

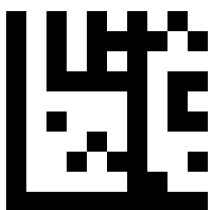


Disable QR Code

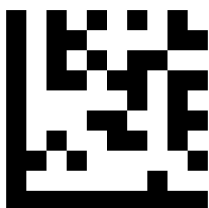




Start Setup

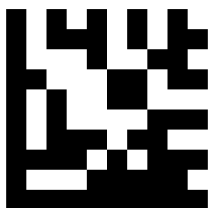


* Enable Mirror Decode

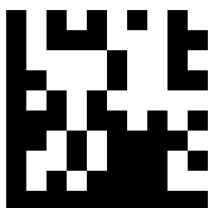


Disable Mirror Decode

Micro QR

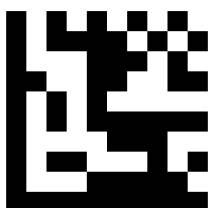


* Enable Micro QR



Disable Micro QR

Aztec

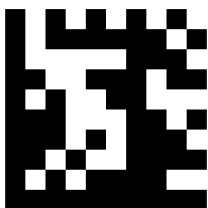


Enable Aztec

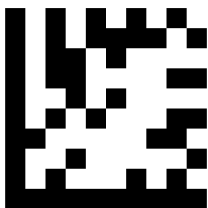




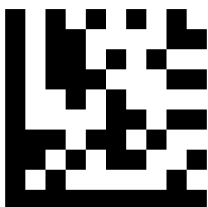
Start Setup



* Disable Aztec

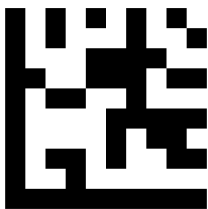


* Enable Mirror Decode

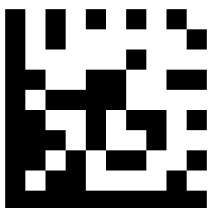


Disable Mirror Decode

MaxiCode



Enable MaxiCode



* Disable MaxiCode





7.5 Decode Length Settings

Important

For settings in this group, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

The following settings limit the readable length for each symbology; Code 128 is used as the example.

Restrict to a Single Length

Restrict reading to barcodes of a single length. For example, set Code 128 to read only barcodes with a length of 14 characters.

Example

1. Scan “Start Setup” .
2. Scan the Code 128 “Restrict to a Single Length” setting barcode.
3. Scan the 1 setting barcode in *ASCII Code Table*.
4. Scan the 4 setting barcode in *ASCII Code Table*.
5. Scan “End Setup” .

Restrict to Two Different Lengths

Restrict reading to barcodes of two different lengths. For example, set Code 128 to read barcodes with lengths of 2 and 14 characters.

Example

1. Scan “Start Setup” .
2. Scan the Code 128 “Restrict to Two Different Lengths” setting barcode.
3. Scan the 0 setting barcode in *ASCII Code Table*.
4. Scan the 2 setting barcode in *ASCII Code Table*.
5. Scan the 1 setting barcode in *ASCII Code Table*.
6. Scan the 4 setting barcode in *ASCII Code Table*.
7. Scan “End Setup” .

Restrict to a Length Range

Restrict reading to barcodes within a length range. For example, set Code 128 to read barcodes with lengths from 08~14 characters.





Start Setup

Example

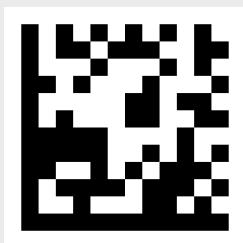
1. Scan “Start Setup” .
2. Scan the Code 128 “Restrict to a Length Range” setting barcode.
3. Scan the 0 setting barcode in *ASCII Code Table*.
4. Scan the 8 setting barcode in *ASCII Code Table*.
5. Scan the 1 setting barcode in *ASCII Code Table*.
6. Scan the 4 setting barcode in *ASCII Code Table*.
7. Scan “End Setup” .

any length

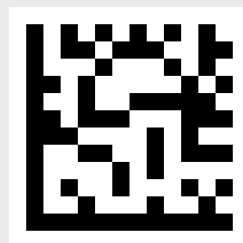
Example

1. Scan “Start Setup” .
2. Scan the Code 128 “Any Length” setting barcode.
3. Scan “End Setup” .

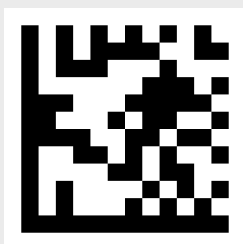
Code 128



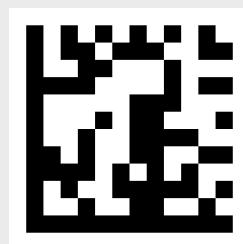
Restrict to a Single Length



Restrict to Two Different Lengths



Restrict to a Length Range



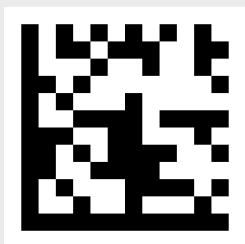
* Any Length



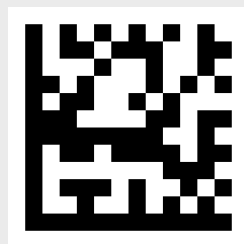


Start Setup

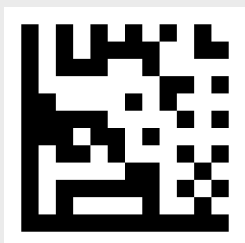
Code 39



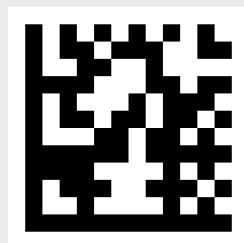
Restrict to a Single Length



Restrict to Two Different Lengths

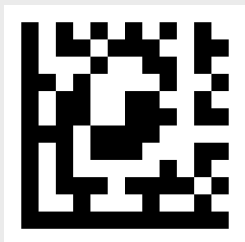


Restrict to a Length Range

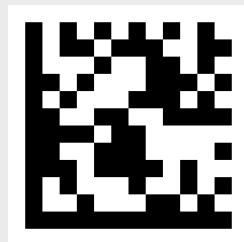


* Any Length

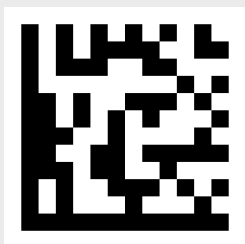
Code 93



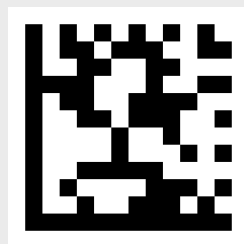
Restrict to a Single Length



Restrict to Two Different Lengths



Restrict to a Length Range



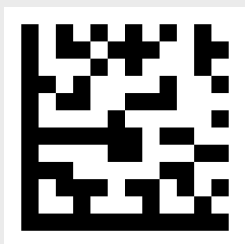
* Any Length



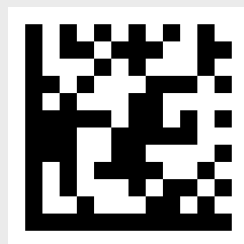


Start Setup

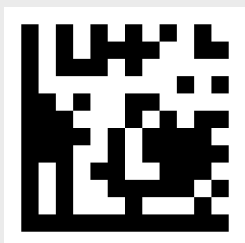
Codabar



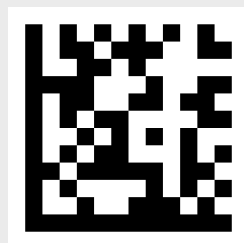
Restrict to a Single Length



Restrict to Two Different Lengths

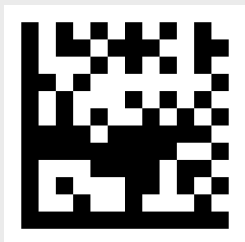


Restrict to a Length Range

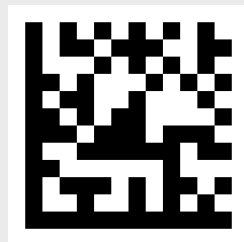


* Any Length

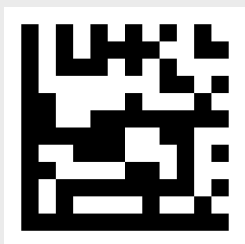
Interleaved 2 of 5



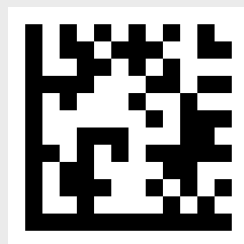
Restrict to a Single Length



Restrict to Two Different Lengths



Restrict to a Length Range



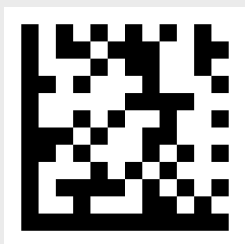
* Any Length



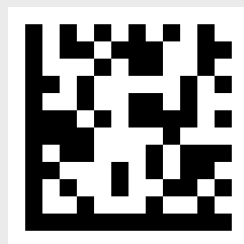


Start Setup

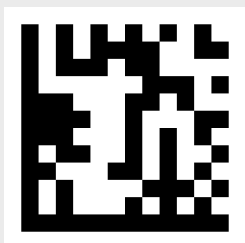
Code 11



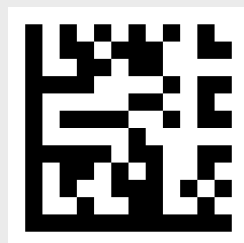
Restrict to a Single Length



Restrict to Two Different Lengths

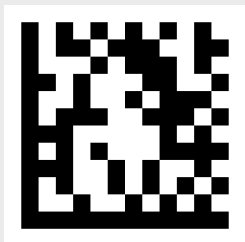


Restrict to a Length Range

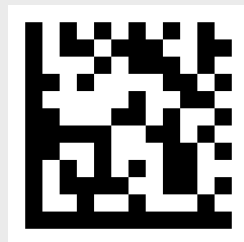


* Any Length

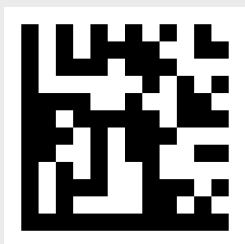
MSI Plessey



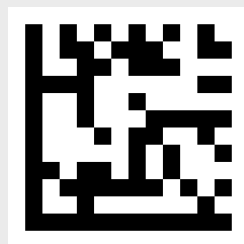
Restrict to a Single Length



Restrict to Two Different Lengths



Restrict to a Length Range



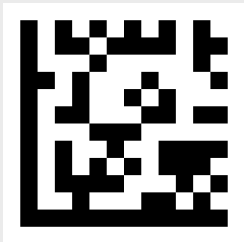
* Any Length



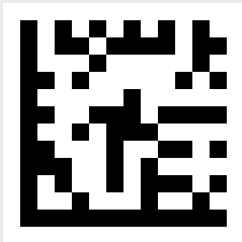


Start Setup

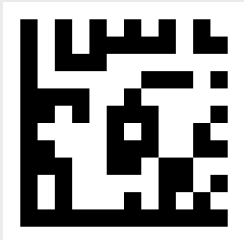
Matrix 2 of 5



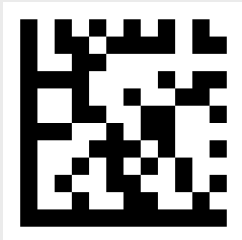
Restrict to a Single Length



Restrict to Two Different Lengths



Restrict to a Length Range



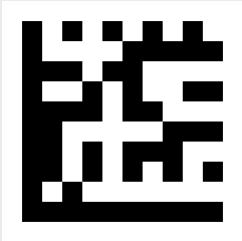
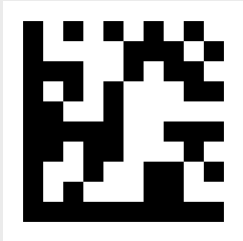
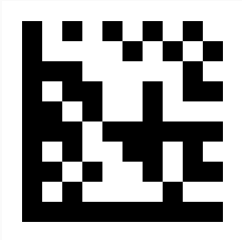
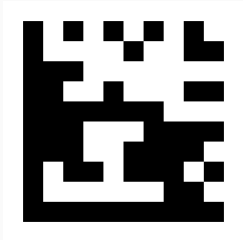
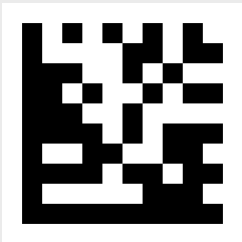
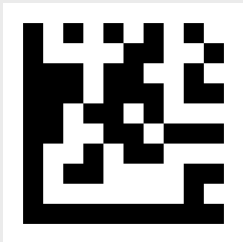
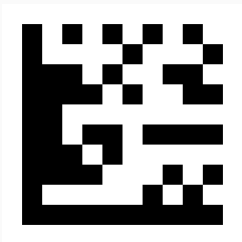
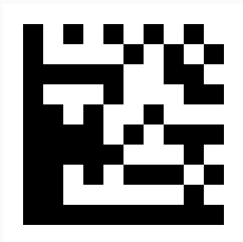
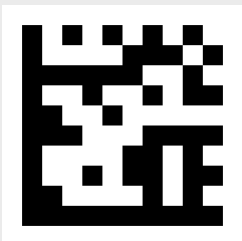
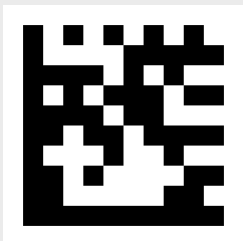
* Any Length





8 Appendix

8.1 Decimal Digits

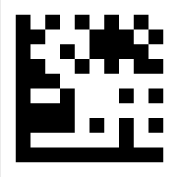
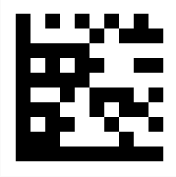
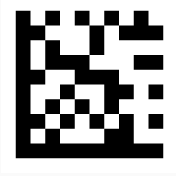
Digit	Setting Barcode	Digit	Setting Barcode
0		1	
2		3	
4		5	
6		7	
8		9	





8.2 ASCII Code Table

Control Characters (Function Key Mapping)

Hex	Dec	ASCII	Ctrl Char Mode	Alt + Unicode Mode
00	0	Null	Ctrl+@	Alt + 000
01	1	Home	Ctrl+A	Alt + 001
02	2	End	Ctrl+B	Alt + 002
03	3	Up Arrow	Ctrl+C	Alt + 003
04	4	Down Arrow	Ctrl+D	Alt + 004
05	5	Left Arrow	Ctrl+E	Alt + 005
06	6	Right Arrow	Ctrl+F	Alt + 006
07	7	Null	Ctrl+G	Alt + 007
08	8		Backspace	Alt + 008
09	9		TAB	Alt + 009
0A	10	Null	Ctrl+J	Alt + 010
0B	11	Null	Ctrl+K	Alt + 011
0C	12	Null	Ctrl+L	Alt + 012
0D	13		Enter	Enter
0E	14	Page Up	Ctrl+N	Alt + 014
0F	15	Page Down	Ctrl+O	Alt + 015
10	16	F11	Ctrl+P	Alt + 016
11	17	Null	Ctrl+Q	Alt + 017
12	18	Null	Ctrl+R	Alt + 018
13	19	Null	Ctrl+S	Alt + 019
14	20	Null	Ctrl+T	Alt + 020
15	21	F12	Ctrl+U	Alt + 021
16	22	F1	Ctrl+V	Alt + 022
17	23	F2	Ctrl+W	Alt + 023
18	24	F3	Ctrl+X	Alt + 024
19	25	F4	Ctrl+Y	Alt + 025
1A	26	F5	Ctrl+Z	Alt + 026
1B	27	F6	Ctrl+[	Alt + 027

continues on next page

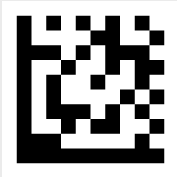
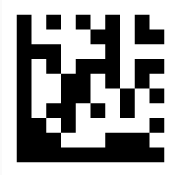
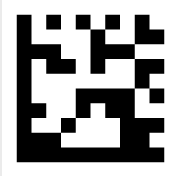
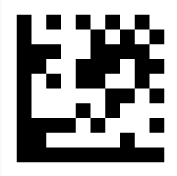
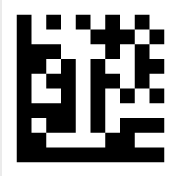
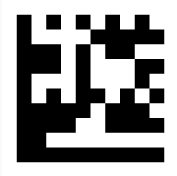




Table 5 – continued from previous page

Hex	Dec	ASCII	Ctrl Char Mode	Alt + Unicode Mode
1C	28	F7	Ctrl+\	Alt + 028
1D	29	F8	Ctrl+]	Alt + 029
1E	30	F9	Ctrl+^	Alt + 030
1F	31	F10	Ctrl+_	Alt + 031

Printable Characters and Delete

Hex	Dec	ASCII	Setting Barcode
20	32	SPACE	
21	33	!	
22	34	"	
23	35	#	
24	36	\$	
25	37	%	

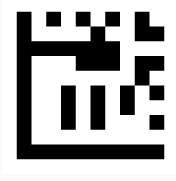
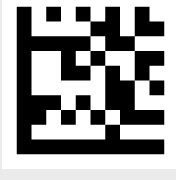
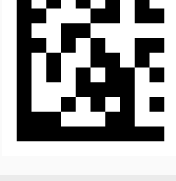
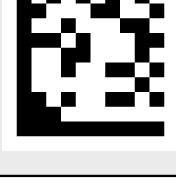
continues on next page





Start Setup

Table 6 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
26	38	&	
27	39	'	
28	40	(	
29	41	)	
2A	42	*	
2B	43	+	
2C	44	,	

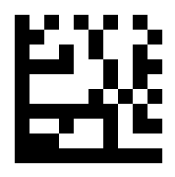
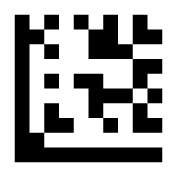
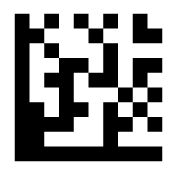
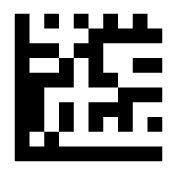
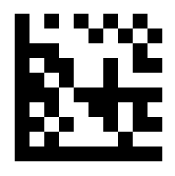
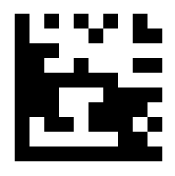
continues on next page





Start Setup

Table 6 – continued from previous page

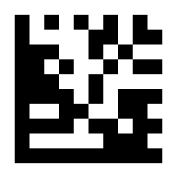
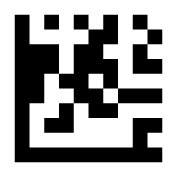
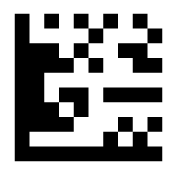
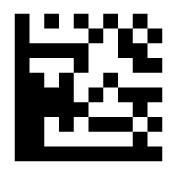
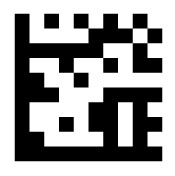
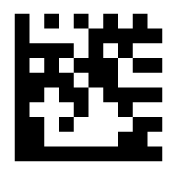
Hex	Dec	ASCII	Setting Barcode
2D	45	–	
2E	46	.	
2F	47	/	
30	48	0	
31	49	1	
32	50	2	
33	51	3	

continues on next page





Table 6 – continued from previous page

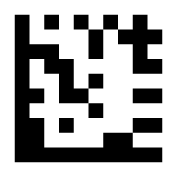
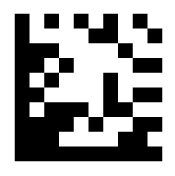
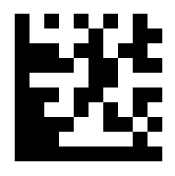
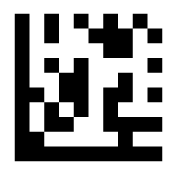
Hex	Dec	ASCII	Setting Barcode
34	52	4	
35	53	5	
36	54	6	
37	55	7	
38	56	8	
39	57	9	
3A	58	:	

continues on next page





Table 6 – continued from previous page

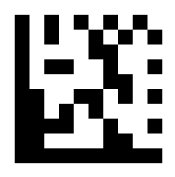
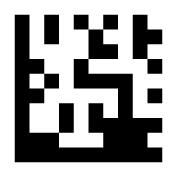
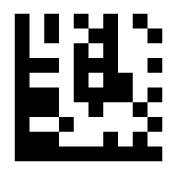
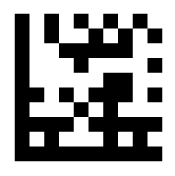
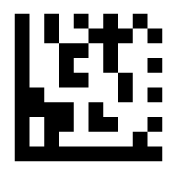
Hex	Dec	ASCII	Setting Barcode
3B	59	;	
3C	60	<	
3D	61	=	
3E	62	>	
3F	63	?	
40	64	@	
41	65	A	

continues on next page





Table 6 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
42	66	B	
43	67	C	
44	68	D	
45	69	E	
46	70	F	
47	71	G	
48	72	H	

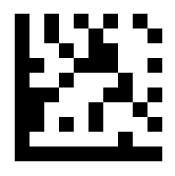
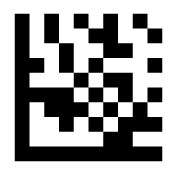
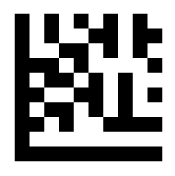
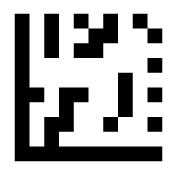
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Start Setup

Table 6 – continued from previous page

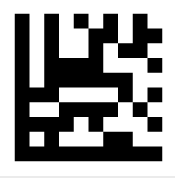
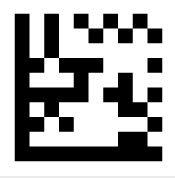
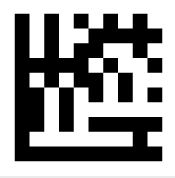
Hex	Dec	ASCII	Setting Barcode
49	73	I	
4A	74	J	
4B	75	K	
4C	76	L	
4D	77	M	
4E	78	N	
4F	79	O	

continues on next page





Table 6 – continued from previous page

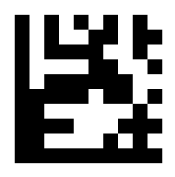
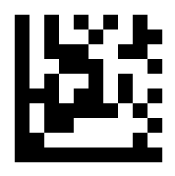
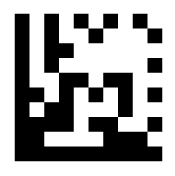
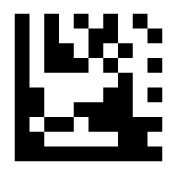
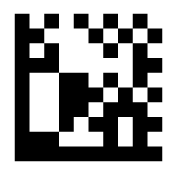
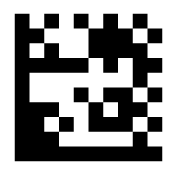
Hex	Dec	ASCII	Setting Barcode
50	80	P	
51	81	Q	
52	82	R	
53	83	S	
54	84	T	
55	85	U	
56	86	V	

continues on next page





Table 6 – continued from previous page

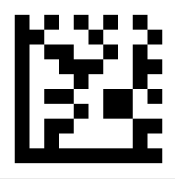
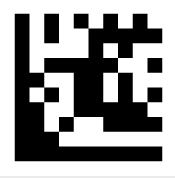
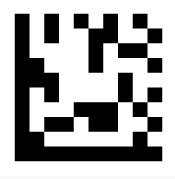
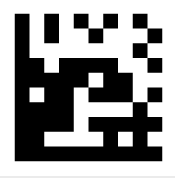
Hex	Dec	ASCII	Setting Barcode
57	87	W	
58	88	X	
59	89	Y	
5A	90	Z	
5B	91	[	
5C	92	\	
5D	93	]	

continues on next page





Table 6 – continued from previous page

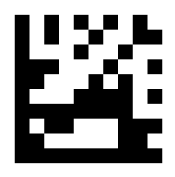
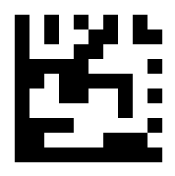
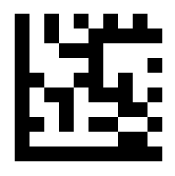
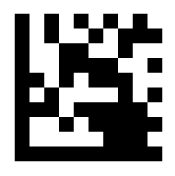
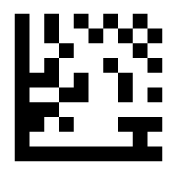
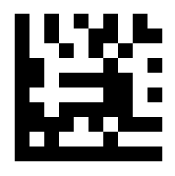
Hex	Dec	ASCII	Setting Barcode
5E	94	^	
5F	95	_	
60	96	`	
61	97	a	
62	98	b	
63	99	c	
64	100	d	

continues on next page





Table 6 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
65	101	e	
66	102	f	
67	103	g	
68	104	h	
69	105	i	
6A	106	j	
6B	107	k	

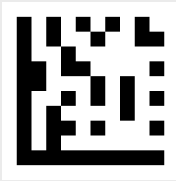
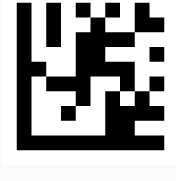
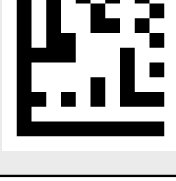
continues on next page





Start Setup

Table 6 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
6C	108	l	
6D	109	m	
6E	110	n	
6F	111	o	
70	112	p	
71	113	q	
72	114	r	

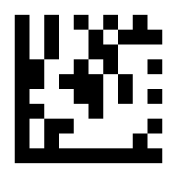
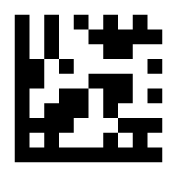
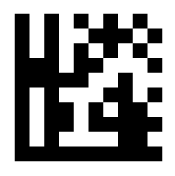
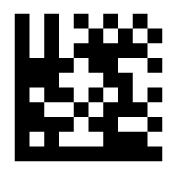
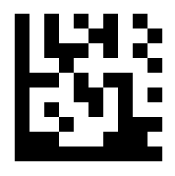
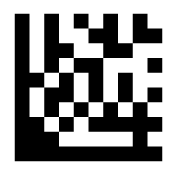
continues on next page





Start Setup

Table 6 – continued from previous page

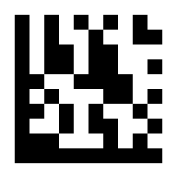
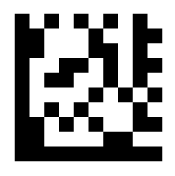
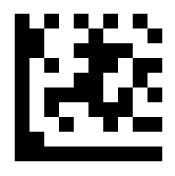
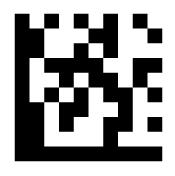
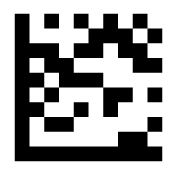
Hex	Dec	ASCII	Setting Barcode
73	115	s	
74	116	t	
75	117	u	
76	118	v	
77	119	w	
78	120	x	
79	121	y	

continues on next page





Table 6 – continued from previous page

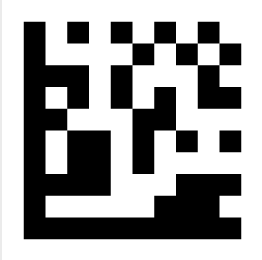
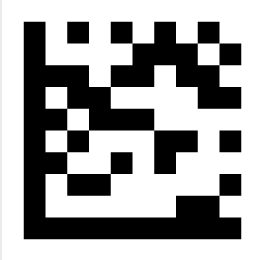
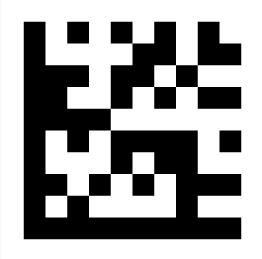
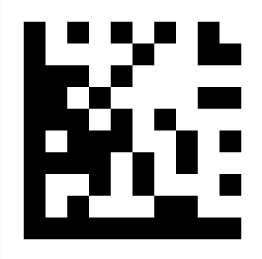
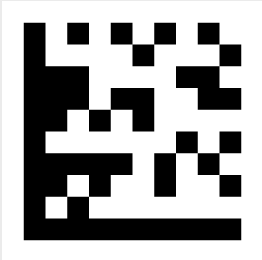
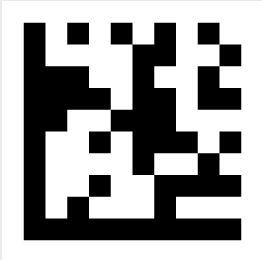
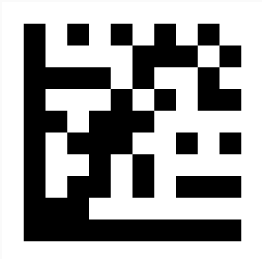
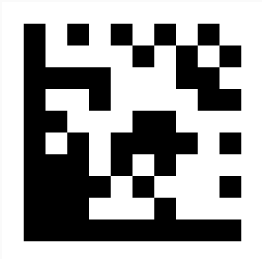
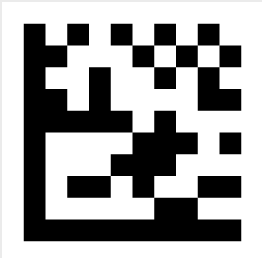
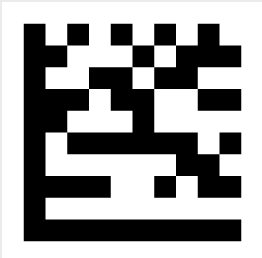
Hex	Dec	ASCII	Setting Barcode
7A	122	z	
7B	123	{	
7C	124		
7D	125	}	
7E	126	~	
7F	127	Delete	

8.3 Function Keys





Start Setup

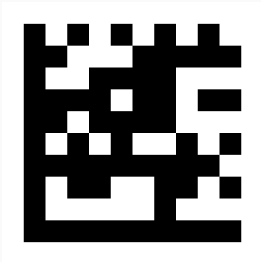
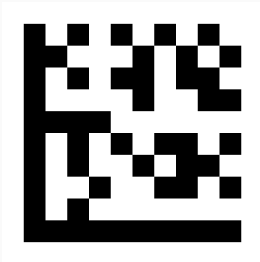
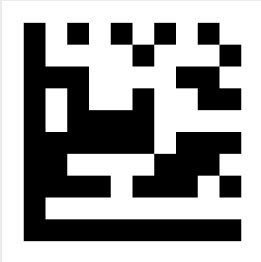
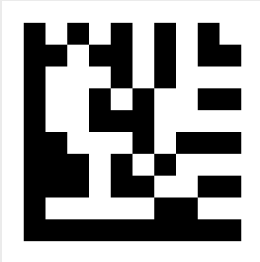
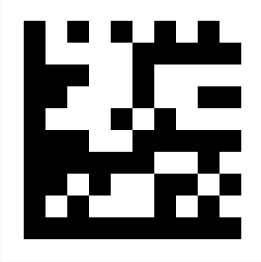
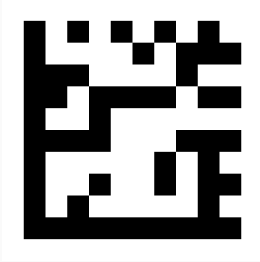
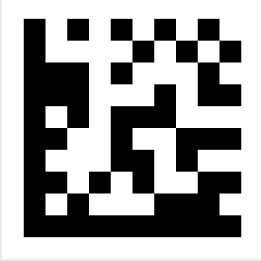
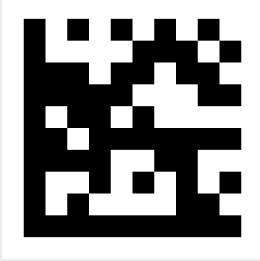
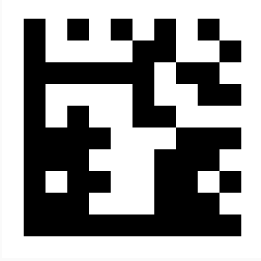
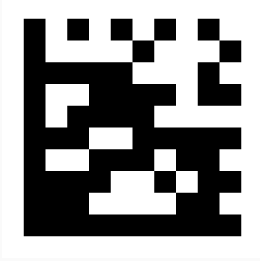
Key	Setting Barcode	Key	Setting Barcode
Insert		Delete	
Home		End	
Up Arrow		Down Arrow	
Left Arrow		Right Arrow	
Shift		ESC	

continues on next page





Table 7 – continued from previous page

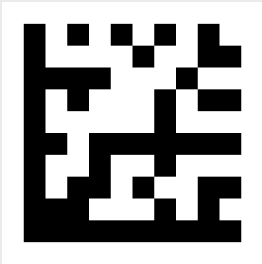
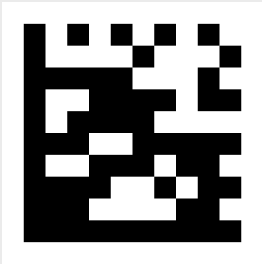
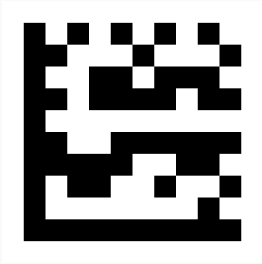
Key	Setting Barcode	Key	Setting Barcode
Page Up		Page Down	
F1		F2	
F3		F4	
F5		F6	
F7		F8	

continues on next page





Table 7 – continued from previous page

Key	Setting Barcode	Key	Setting Barcode
F9		F10	
F11		F12	