ALACRITY DIRECT

MJ-2020R

Wireless 2D Imager Scanner
User's Manual



Version
1.0

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Preface

About This Manual

Thank you for purchasing the AlacrityDirect product.
This manual explains how to install, operate and maintain our product.
No part of this publication may be reproduced or used in any form, or by any electrical or mechanical means, such as photocopying, recording, or information storage and retrieval systems, without permission in writing from the manufacturer.
The material in this manual is subject to change without notice.
All product and company names are trademarks, service marks, or registered trademarks of their respective owners.

Regulatory Compliance Statements

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

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However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement.
The device can be used in portable exposure condition without restriction.



IC Warning

This device complies with Industry Canada license-exempt RSS standard(s).
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference
that may cause undesired operation of the device.
Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.
To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
This device complies with Canadian ICES-003 and RSS-247.

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ISED Canada Statement:
This device complies with RSS Gen of the Canada Rules. Operation is subject to the following two conditions:
1) this device may not cause interference and
2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radiation Exposure: This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

IC Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Battery charge notice

It is important to consider temperature when the battery pack is charging.
Charging is most efficient at normal room temperature or in a slightly cooler environment.
It is essential that batteries are charged within the stated range of 0°C to 40°C.
Charging batteries outside of the specified range could damage the batteries and shorten their life cycle.

CAUTION! Do not charge batteries at a temperature lower than 0°C.
This will and make the batteries unstable and dangerous.
Please use a battery temperature detecting device for a charger to ensure a safe charging temperature range.

CAUTION! To ensure the unit working properly, please keep all connectors away from the contaminants staying inside of them such as dust, grease, mud, and water. The negligence may cause the unit with no communication, short circuited, overheated and so on.

CAUTION! If the connector is damaged, please ensure the connector is being fully repaired before use the unit to avoid causing short circuited.

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Storage and safety notice

Although charged batteries may be left unused for several months, their capacity may be depleted due to build up of internal resistance.
If this happens, they will require recharging prior to use.
Batteries may be stored at temperatures between -20°C to 60°C, however they may deplete more rapidly at higher temperatures.
It is recommended to store batteries at room temperature.
* The message above only applies to the usage of the removable batteries.

For the products with non-removable batteries / without batteries, please refer to the specification of each product.

Product Operation and Storage Notice

The AlacrityDirect product has applicable operation and storage temperature conditions.
Please follow the limitation of suggested temperature conditions to avoid failure, damage or malfunction.
*For applicable temperature conditions, please refer to the specification of each product.

Worldwide Support

AlacrityDirect's professional support team is available to quickly answer questions or assist with technical-related issues.
For complete contact information please visit the Web site:
https://alacritydirect.com

Warranty Policy

The items covered under the AlacrityDirect Limited Warranty are free from defects during normal use.
The warranty period is varied from each country.
Please consult with your supplier or AlacrityDirect local office for actual length of warranty period to your purchased product.
Warranty becomes void if equipment is modified, improperly installed or used, damaged by accident or neglect, or if any parts are improperly installed or replaced by the user.

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Chapter 1 - Overview

1.1 Package

Please make sure the following contents are in the box. If something is missing or damaged, please contact us.

The package contents:
MJ-2020R Scanner
Wireless Charging Cradle
User Manual
Note: Charging with cradle

NOTE: The barcode with an asterisk (*) which appears in the following chapters indicates that it is the default option for the corresponding setting

1.2 Product Detail

Scanner details



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Cradle details

Here are two steps to adjust the angle of the scanner cradle:



Step 1: Press the two positions indicated in the figure and pull them apart to detach the cradle.



Step 2: Adjust the cradle angle as needed, then reinstall it.
Red: Battery Charging Status LED
Green: Wireless Connection Status LED

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1.3 Specifications

Optical & Performance	
Sensor	640 x 480 pixels, global shutter(1280 x 960/DPM Module Optional)
Aiming Element	610nm, Red LED
Illumination	610nm, Red LED
Skew Angle	±55°
Pitch Angle Sensor	±55°
Roll Angle	±360°
Field of View	37° (H) x 28° (V)
Optical Resolution	4.0 mil 1D barcode
Printing Contrast Scale	Minimum 20%
Depth of Field	Code39 (5 mil) : 45 mm ~125 mm EAN -13 (13 mil) : 60 mm ~260 mm QR Code (15 mil) : 45 mm ~170 mm Data Matrix (10 mil) : 55 mm ~130 mm

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Communication	
Radio	Bluetooth LE® V5.0 & Bluetooth® 3.0+BR Dual mode,433Mhz Wireless
Host Interface supported	USB
Wireless Coverage	250m (line of sight)
Protocol	Serial Port and HID profiles
Memory Buffer	4MB for batch mode
Mechanical	
Dimension	96 L x 75 W x 190 H (mm)
Weight	254g without cradle
Cradle Dimension	185 L x 105 W x 75 H (mm)
Symbologies	
1D Barcodes	PC-A, UPC-E, UPC-E1, EAN-8/JAN-8, EAN-13/ JAN-13, ISBN, ISSN, Code 128, GS1-128(UCC/ EAN-128), Code 39, Code 93, Code 11, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, Codabar(NW-7), MSI Plessey, GS1 Databar(GS1 DataBar Omnidirectional/GS1 DataBar Stacked Omnidirectional/GS1 DataBar Expanded/GS1 DataBar Expanded Stacked/ GS1 DataBar Stacked/GS1 DataBar Limited/GS1 DataBar Truncated)
2D Barcodes	PDF417, Data Matrix, QR, Han Xin Code,Aztec ,MaxiCode, DotCode
DPM Barcodes	
Data Formatting	Prefix, Suffix, Code ID, Reformatting Date

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Electrical	
Operation Voltage	3.3 VDC
Current Consumption	Operating: 300mA Standby: 50mA
Indicator	LED & Beeper & Vibrator
Battery Type	Rechargeable battery
Battery Capacity	1800mAh(2600mAh Optional)
Battery Charging time	4 hours
Operating Time	6 hours
Environmental	
Mechanical Shock	3M onto concrete (scanner only)
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	95% non-condensing
IP Rating	IP65
Regulatory Approvals	
Regulatory Approvals	FCC, IC, CE,

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What comes in the box	
The standard package contents	■ MJ-2020R Scanner ■ Cradle ■ Manual
Warranty	
Hardware Warranty	12 months
Statement	This product is warranted against defects in workmanship and materials for a period of one years from the date of shipment. Accessories are warranted for three months. Our different regions have varying warranty terms, and offer extended and comprehensive warranties, so please contact your local representative for more information.

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1.4 Getting Started

Scanner Turn on : Press the trigger key once, then you will hear two different beep sound.

Scanner Turn off : Read the setting code 'Power Off'.

Power Off

How to pair the scanner with the cradle(433Mhz Wireless Mode)

Method one

1.Firstly, please connect the cradle and the PC via the USB cable. The cradle LED will show flashing green light.

2.Press the trigger to turn on the scanner, then put the scanner right on the cradle and pull the trigger twice.

3.When the pairing is completed, the scanner LED will show solid blue light, and the cradle LED will show solid green light.

Method Two

1.Firstly, please read the setting code '433Mhz Wireless'.

433Mhz Wireless

2.Read 'Pairing'. The scanner LED will show flashing green light.

Pairing

3.Connect the cradle and the PC via the USB cable and wait for a few seconds. When the pairing is completed, the scanner LED will show solid blue light, and the cradle LED will show solid green light.

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How to pair the scanner through Bluetooth

These settings are for cradleless mode only when the scanner connects to the host directly through Bluetooth.

1.Firstly, please read the setting code 'BT HID'.

BT HID

2.Read 'Pairing'. The scanner LED will show flashing green and blue light.

Pairing

3.Turn on Bluetooth on your device, then pair your device with 'BarCode Scanner HID'.

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1.5 Battery Charging

Before you use the scanner for the first time, we strongly recommend charging the battery. It takes approximately 4 hours to fully charge the battery.

Please put the scanner right on the cradle for charging.

Scanner Red LED light on: Being charged

Scanner Red LED light flashing : Fully charged

1.6 LED/Beeper Indicator

Scanner LED indicator

Description	Indication	
Charging Status	Solid Red Light	Charging
	Flashing Red Light	Fully charged
BT in pairing mode	Blue and Green Light Flashing	
BT is connected to the host & ready to send data.	Solid Blue Light	
433Mhz wireless in pairing mode	Green Light Flashing	
433Mhz wireless is connected to cradle & ready to send data.	Solid Blue Light	
Good read with Connected	Green LED flashing once	
Good read with Disconnected	Green LED flashing three times	

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Cradle LED indicator

Description	Indication
Host is connected, 433Mhz wireless is disconnected	Green Light Flashing
Host is connected, 433Mhz wireless is connected and cradle is ready to send data	Solid Green Light
Wireless charging	Red Light Flashing

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Scanner Beeper indicator

Beeper Description	Indication
Power On	One Long Beep Low to High
Power Off	One Long Beep High to Low
Good Read(Connected) /BT or 433Mhz wireless is Connected	One Short Low Beep
Good Read(Disconnected)	3 Low short beeps
Good Read(Connected) in Batch Mode	One Short Beep Low to High
Good Read(Connected) after Reading Setting Code	One Short Beep High to Low
Bad Read(Connected) after Reading Setting Code	Two Short High Beep
BT or 433Mhz wireless is Disconnected	Two Short Low Beep
Low Power Alarm	Five Short High Beep

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Chapter 2 - Command Settings

2.1 System Reset & Info



Factory Default



Send Info



Battery Level

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2.2 Scan Mode

Trigger (Level)*

A trigger press activates decode processing. Decode processing continues until the bar code decodes or you release the trigger.

Presentation (Blink)

The engine activates decode processing when it detects a bar code in its field of view. After a period of non-use, the LEDs turn off until the engine senses motion.

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2.3 Bluetooth

Bluetooth Type

Note:

These settings are for Bluetooth mode only when the scanner connects to the host directly not through cradle.

To switch the different scanner type, please do un-pair first and then select the Bluetooth type and redo Bluetooth connection.



BT Keyboard



BLE Keyboard



BT SPP

Holding the Trigger for 8 Seconds to Bluetooth Pairing



Enable*



Disable

Showing/Hiding HID Soft Keyboard



Showing/Hiding HID Soft Keybord

Double Clicking the Trigger to Showing/Hiding HID Soft Keyboard



Enable Double Clicking



Disable Double Clicking

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2.4 Operation Mode



Wedge



Batch

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2.5 Data & Memory



Send Batch



Stored Barcodes Quantity



Free Buffer

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2.6 Auto Power Off After Idle



5 Minutes



10 Minutes



30 Minutes



1 Hour



2 Hours



4 Hours



Disable Auto Power Off



Power Off

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2.7 Beeper & Vibration



Low Volume



Medium Volume



High Volume



Mute



Vibration On



Vibration Off

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2.8 HID Keyboard Character Delay (433Mhz Wireless Mode)

For example: read 'Enable Delay' and '10ms Delay' to set a 10ms delay.

Enable Delay

5ms Delay

10ms Delay

20ms Delay

Disable Delay

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2.9 HID Keyboard Character Delay (Bluetooth Mode)

BT HID High Speed

BT HID Medium Speed

BT HID Low Speed

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2.10 HID Keyboard Language



US English*



Canadian French



UK English



German



German iOS



French



Spanish



Italian



Portuguese



Swiss German



Swiss French



Dutch



Hungarian



Polish



Russian



Belgian French

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Czech

Slovak

Croatia/Serbian

Swedish/Finnish

Danish

Norwegian

Turkish Q

Turkish F

Brazilian Portuguese

Argentine

Mexican Spanish

Japanese

Vietnamese

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2.11 Data Terminator



CR



LF



CR LF*



Tab



None/ Null

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2.12 Prefix/Suffix

You can append one or more prefixes and/or one or more suffixes to scan data for use in data editing.

ASCII Printable Characters

1.Scan one of the following setting code.

Add Prefix

Add Suffix

2.Scan setting codes from <Appendix A, ASCII Printable Character Sets> that correspond to your need.
3.To cancel prefix or suffix , scan one of the following setting code.

Cancel Prefix

Cancel Suffix

ASCII Control Characters

1.Check <Appendix B, ASCII Control Character Sets>and find out the Escape Character Set corresponding to the character your need to add.
Scan one of the following setting code.

Escape Character Set 0

Escape Character Set 1

Escape Character Set 2

Escape Character Set 3

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2.Scan one of the following setting code.

Add Prefix

Add Suffix

3.Scan setting codes from <Appendix B, ASCII Control Character Sets> that correspond to your need.
4.To cancle prefix or suffix , scan one of the following setting code.

Cancel Prefix

Cancel Suffix

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Chapter 3 - 1D Symbologies

3.1 UPC-A

Scan one of the following barcodes to enable or disable UPC-A.



Enable UPC-A*



Disable UPC-A

3.1.1 Transmit UPC-A Check Digit

The check digit is the last character of the symbol used to verify the integrity of the data. Scan one of the following barcodes to transmit the barcode data with or without the UPC-A check digit. It is always verified to guarantee the integrity of the data.



Transmit UPC-A Check Digit *



Do Not Transmit UPC-A Check Digit

3.1.2 Decode UPC-A Supplemental 2



Decode UPC-A Supplemental 2



Ignore UPC-A Supplemental 2*

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3.1.3 Decode UPC-A Supplemental 5



Decode UPC-A Supplemental 5



Ignore UPC-A Supplemental 5*

3.1.4 UPC-A Preamble

Preamble characters are part of the UPC symbol, and include Country Code and System Character. Select the appropriate option for transmitting.



Transmit UPC-A System Character*



Do Not Transmit UPC-A System Character



Transmit UPC-A Country Code (“0” for USA)



Do Not Transmit UPC-A Country Code*

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3.2 UPC-E

Scan one of the following barcodes to enable or disable UPC-E.

Enable UPC-E*

Disable UPC-E

3.2.1 Transmit UPC-E Check Digit

The check digit is the last character of the symbol used to verify the integrity of the data. Scan one of the following barcodes to transmit the barcode data with or without the UPC-E check digit. It is always verified to guarantee the integrity of the data.

Transmit UPC-E Check Digit *

Do Not Transmit UPC-E Check Digit

3.2.2 Decode UPC-E Supplemental 2

Decode UPC-E Supplemental 2

Ignore UPC-E Supplemental 2*

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3.2.3 Decode UPC-E Supplemental 5



Decode UPC-E Supplemental 5



Ignore UPC-E Supplemental 5*

3.2.4 UPC-E Preamble

Preamble characters are part of the UPC symbol, and include Country Code and System Character. Select the appropriate option for transmitting.



Transmit UPC-E System Character*



Do Not Transmit UPC-E System Character



Transmit UPC-E Country Code (“0” for USA)



Do Not Transmit UPC-E Country Code*

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3.1.5 Convert UPC-E to UPC-A

Enable this to convert UPC-E (zero suppressed) decoded data to UPC-A format before transmission. After conversion, the data follows UPC-A format and is affected by UPC-A programming selections (e.g., Preamble, Check Digit).
Disable this to transmit UPC-E decoded data as UPC-E data, without conversion.



Convert UPC-E to UPC-A (Enable)



Do Not Convert UPC-E to UPC-A (Disable)*

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3.3 UPC-E1

Scan one of the following barcodes to enable or disable UPC-E1.
Note : UPC-E1 is not a UCC (Uniform Code Council) approved symbology



Enable UPC-E1



Disable UPC-E*

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3.4 EAN-8/JAN-8

Scan one of the following barcodes to enable or disable EAN-8/JAN-8.



Enable EAN-8/JAN-8*



Disable EAN-8/JAN-8

3.4.1 Transmit EAN-8/JAN-8 Check Digit

The check digit is the last character of the symbol used to verify the integrity of the data. Scan one of the following barcodes to transmit the barcode data with or without the EAN-8 check digit. It is always verified to guarantee the integrity of the data.



Transmit EAN-8/JAN-8 Check Digit *



Do Not Transmit EAN-8/JAN-8 Check Digit

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3.4.2 Decode EAN-8/JAN-8 Supplemental 2



Decode EAN-8/JAN-8 Supplemental 2



Ignore EAN-8/JAN-8 Supplemental 2*

3.4.3 Decode EAN-8/JAN-8 Supplemental 5



Decode EAN-8/JAN-8 Supplemental 5



Ignore EAN-8/JAN-8 Supplemental 5*

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3.5 EAN-13/JAN-13

Scan one of the following barcodes to enable or disable EAN-13/JAN-13.



Enable EAN-13/JAN-13*



Disable EAN-13/JAN-13

3.5.1 Transmit EAN-13/JAN-13 Check Digit

The check digit is the last character of the symbol used to verify the integrity of the data. Scan one of the following barcodes to transmit the barcode data with or without the EAN-13 check digit. It is always verified to guarantee the integrity of the data.



Transmit EAN-13/JAN-13 Check Digit *



Do Not Transmit EAN-13/JAN-13 Check Digit

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3.5.2 Decode EAN-13/JAN-13 Supplemental 2



Decode EAN-13/JAN-13 Supplemental 2



Ignore EAN-13/JAN-13 Supplemental 2*

3.5.3 Decode EAN-13/JAN-13 Supplemental 5



Decode EAN-13/JAN-13 Supplemental 5



Ignore EAN-13/JAN-13 Supplemental 5*

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3.6 ISBN/Bookland EAN

An ISBN(International Standard Book Number) barcode is created using the EAN-13 symbology with a special prefix, for example the prefix 978. So the ISBN is a special form of the EAN-13 code. This special form is also called Bookland EAN-13.

Scan one of the following barcodes to enable or disable EAN-13/JAN-13.



Enable ISBN



Disable ISBN*

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3.7 ISSN

ISSN is an acronym for International Standard Serial Number. It's a number which is unique to each book title.
Scan one of the following barcodes to enable or disable ISSN.

Enable ISSN

Disable ISSN*

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3.8 Code 128

Scan one of the following barcodes to enable or disable Code 128.

Enable Code 128*

Disable Code 128

3.8.1 Set Minimum Lengths for Code 128

1.Scan the following setting code.

Code 128 Minimum Length

2.Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Code 128 symbols above 2 characters, scan 2. To decode only Code 128 symbols above 12 characters, scan 1, 2.

3.Select and scan one of the following setting code.

Save

Cancel

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3.8.2 Set Maximum Lengths for Code 128

1.Scan the following setting code.



Code 128 Maximum Length

2.Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Code 128 symbols below 9 characters, scan 9. To decode only Code 128 symbols below 20 characters, scan 2, 0.

3.Select and scan one of the following setting code.



Save



Cancel

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3.9 GS1-128(formerly UCC/EAN-128)

Scan one of the following barcodes to enable or disable GS1-128.

Enable GS1-128*

Disable GS1-128

3.9.1 Set Minimum Lengths for GS1-128

1. Scan the following setting code.

GS1-128 Minimum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only GS1-128 symbols above 2 characters, scan 2. To decode only GS1-128 symbols above 12 characters, scan 1, 2.
3. Select and scan one of the following setting code.

Save

Cancel

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3.9.2 Set Maximum Lengths for GS1-128

1. Scan the following setting code.

GS1-128 Maximum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only GS1-128 symbols below 9 characters, scan 9. To decode only GS1-128 symbols below 20 characters, scan 2, 0.
3. Select and scan one of the following setting code.

Save

Cancel

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3.10 Code 39

Scan one of the following barcodes to enable or disable Code 39.



Enable Code 39*



Disable Code 39

3.10.1 Code 39 Check Digit Verification

Scan Enable Code 39 Check Digit to check the integrity of all Code 39 symbols to verify that the data complies with specified check digit algorithm.



Enable Code 39 Check Digit



Disable Code 39 Check Digit *

3.10.2 Transmit Code 39 Check Digit

Scan one of the following barcodes to transmit Code 39 data with or without the check digit.

NOTE: Code 39 Check Digit Verification must be enabled for this parameter to function.



Transmit Code 39 Check Digit (Enable)



Do Not Transmit Code 39 Check Digit (Disable) *

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3.10.3 Transmit Code 39 Start/Stop Character

Transmit Code 39 Start/Stop Character (Enable)

Transmit Code 39 Start/Stop Character (Disable) *

3.10.4 Set Minimum Lengths for Code 39

1. Scan the following setting code.

Code 39 Minimum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Code 39 symbols above 2 characters, scan 2. To decode only Code 39 symbols above 12 characters, scan 1, 2.
3. Select and scan one of the following setting code.

Save

Cancel

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3.10.5 Set Maximum Lengths for Code 39

1. Scan the following setting code.

Code 39 Maximum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Code 39 symbols below 9 characters, scan 9. To decode only Code 39 symbols below 20 characters, scan 2, 0.
3. Select and scan one of the following setting code.

Save

Cancel

3.10.6 Code 39 Full ASCII Conversion

Code 39 Full ASCII is a variant of Code 39 which pairs characters to encode the full ASCII character set. Scan one of the following barcodes to enable or disable Code 39 Full ASCII.

Enable Code 39 Full ASCII

Disable Code 39 Full ASCII *

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3.10.7 Convert Code 39 to Code 32

Code 32 is a variant of Code 39 used by the Italian pharmaceutical industry. Scan one of the following barcodes to enable or disable converting Code 39 to Code 32.

NOTE: Code 39 must be enabled for this parameter to function.

Enable Convert Code 39 to Code 32

Disable Convert Code 39 to Code 32*

3.10.8 Code 32 Prefix

Scan one of the following barcodes to enable or disable adding the prefix character “A” to all Code 32 barcodes.

NOTE: Convert Code 39 to Code 32 must be enabled for this parameter to function.

Enable Code 32 Prefix

Disable Code 32 Prefix*

3.10.9 Code 32 Check Digit Verification

Enable Code 32 Check Digit

Disable Code 32 Check Digit *

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3.10.10 Transmit Code 32 Check Digit

Scan one of the following barcodes to transmit Code 32 data with or without the check digit.

NOTE: Code 32 Check Digit Verification must be enabled for this parameter to function.



Transmit Code 32 Check Digit (Enable)



Do Not Transmit Code 32 Check Digit (Disable) *

3.11 Code 93

Scan one of the following barcodes to enable or disable Code 93.



Enable Code 93*



Disable Code 93

3.11.1 Set Minimum Lengths for Code 93

1. Scan the following setting code.



Code 93 Minimum Length

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2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Code 93 symbols above 2 characters, scan 2. To decode only Code 93 symbols above 12 characters, scan 1, 2.
3. Select and scan one of the following setting code.



Save



Cancel

3.11.2 Set Maximum Lengths for Code 93

1. Scan the following setting code.



Code 93 Maximum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Code 93 symbols below 9 characters, scan 9. To decode only Code 93 symbols below 20 characters, scan 2, 0.
3. Select and scan one of the following setting code.



Save



Cancel

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3.12 Code 11

Scan one of the following barcodes to enable or disable Code 11.

Enable Code 11

Disable Code 11*

3.12.1 Set Minimum Lengths for Code 11

1. Scan the following setting code.

Code 11 Minimum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Code 11 symbols above 2 characters, scan 2. To decode only Code 11 symbols above 12 characters, scan 1, 2.
3. Select and scan one of the following setting code.

Save

Cancel

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3.12.2 Set Maximum Lengths for Code 11

1. Scan the following setting code.

Code 11 Maximum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Code 11 symbols below 9 characters, scan 9. To decode only Code 11 symbols below 20 characters, scan 2, 0.
3. Select and scan one of the following setting code.

Save

Cancel

3.12.3 Code 11 Check Digit Verification

Enable Code 11 Check Digit

Disable Code 11 Check Digit *

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3.12.4 Transmit Code 11 Check Digit

Scan one of the following barcodes to transmit Code 11 data with or without the check digit.

NOTE: Code 11 Check Digit Verification must be enabled for this parameter to function.



Transmit 1 Bit Code 11 Check Digit



Transmit 2 Bit Code 11 Check Digit



Do Not Transmit Code 11 Check Digit *

3.13 Interleaved 2 of 5 (ITF)

Scan one of the following barcodes to enable or disable ITF.



Enable ITF*



Disable ITF

3.13.1 Set Minimum Lengths for ITF

1. Scan the following setting code.



ITF Minimum Length

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2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only ITF symbols above 2 characters, scan 2. To decode only ITF symbols above 12 characters, scan 1, 2.
3. Select and scan one of the following setting code.

Save

Cancel

3.13.2 Set Maximum Lengths for ITF

1. Scan the following setting code.

ITF Maximum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only ITF symbols below 9 characters, scan 9. To decode only ITF symbols below 20 characters, scan 2, 0.
3. Select and scan one of the following setting code.

Save

Cancel

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3.13.3 ITF Check Digit Verification



Enable ITF Check Digit



Disable ITF Check Digit *

3.13.4 Transmit ITF Check Digit

Scan one of the following barcodes to transmit ITF data with or without the check digit.

NOTE: ITF Check Digit Verification must be enabled for this parameter to function.



Transmit ITF Check Digit



Do Not Transmit ITF Check Digit *

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3.14 Industrial 2 of 5 (IDF)

Scan one of the following barcodes to enable or disable IDF.

Enable IDF

Disable IDF*

3.14.1 Set Minimum Lengths for IDF

1. Scan the following setting code.

IDF Minimum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only IDF symbols above 2 characters, scan 2. To decode only IDF symbols above 12 characters, scan 1, 2.
3. Select and scan one of the following setting code.

Save

Cancel

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3.14.2 Set Maximum Lengths for IDF

1. Scan the following setting code.

IDF Maximum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only IDF symbols below 9 characters, scan 9. To decode only IDF symbols below 20 characters, scan 2, 0.
3. Select and scan one of the following setting code.

Save

Cancel

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3.15 Standard 2 of 5 (IATA 2 of 5)

Scan one of the following barcodes to enable or disable SDF.

Enable SDF

Disable SDF*

3.15.1 Set Minimum Lengths for SDF

1. Scan the following setting code.

SDF Minimum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only SDF symbols above 2 characters, scan 2. To decode only SDF symbols above 12 characters, scan 1, 2.
3. Select and scan one of the following setting code.

Save

Cancel

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3.15.2 Set Maximum Lengths for SDF

1. Scan the following setting code.

SDF Maximum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only SDF symbols below 9 characters, scan 9. To decode only SDF symbols below 20 characters, scan 2, 0.
3. Select and scan one of the following setting code.

Save

Cancel

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3.16 Matrix 2 of 5

Scan one of the following barcodes to enable or disable Matrix 2 of 5.



Enable Matrix 2 of 5



Disable Matrix 2 of 5*

3.16.1 Set Minimum Lengths for Matrix 2 of 5

1. Scan the following setting code.



Matrix 2 of 5 Minimum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Matrix 2 of 5 symbols above 2 characters, scan 2. To decode only Matrix 2 of 5 symbols above 12 characters, scan 1, 2.
3. Select and scan one of the following setting code.



Save



Cancel

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3.16.2 Set Maximum Lengths for Matrix 2 of 5

1. Scan the following setting code.

Matrix 2 of 5 Maximum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Matrix 2 of 5 symbols below 9 characters, scan 9. To decode only Matrix 2 of 5 symbols below 20 characters, scan 2, 0.
3. Select and scan one of the following setting code.

Save

Cancel

3.16.3 Matrix 2 of 5 Check Digit Verification

Enable Matrix 2 of 5 Check Digit

Disable Matrix 2 of 5 Check Digit *

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3.16.4 Transmit Matrix 2 of 5 Check Digit

Scan one of the following barcodes to transmit Matrix 2 of 5 data with or without the check digit.

NOTE: Matrix 2 of 5 Check Digit Verification must be enabled for this parameter to function.



Transmit Matrix 2 of 5 Check Digit



Do Not Transmit Matrix 2 of 5 Check Digit *

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3.17 Codabar (NW-7)

Scan one of the following barcodes to enable or disable Codabar.

Enable Codabar

Disable Codabar*

3.17.1 Set Minimum Lengths for Codabar

1. Scan the following setting code.

Codabar Minimum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Codabar symbols above 2 characters, scan 2. To decode only Codabar symbols above 12 characters, scan 1, 2.
3. Select and scan one of the following setting code.

Save

Cancel

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3.17.2 Set Maximum Lengths for Codabar

1. Scan the following setting code.

Codabar Maximum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only Codabar symbols below 9 characters, scan 9. To decode only Codabar symbols below 20 characters, scan 2, 0.
3. Select and scan one of the following setting code.

Save

Cancel

3.17.3 Codabar Check Digit Verification

Enable Codabar Check Digit

Disable Codabar Check Digit *

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3.17.4 Transmit Codabar Check Digit

Scan one of the following barcodes to transmit Codabar data with or without the check digit.

NOTE: Codabar Check Digit Verification must be enabled for this parameter to function.



Transmit Codabar Check Digit



Do Not Transmit Codabar Check Digit *

3.17.5 Transmit Codabar Start/Stop Character



Transmit Codabar Start/ Stop Character (Enable)*



Transmit Codabar Start/Stop Character (Disable)

3.17.6 Codabar Upper or Lower Case Start/Stop Characters

Scan one of the following barcodes to select whether to transmit upper case or lower case Codabar start/stop characters.



Lower Case



Upper Case*

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3.18 MSI Plessey

Scan one of the following barcodes to enable or disable MSI.

Enable MSI

Disable MSI*

3.18.1 Set Minimum Lengths for MSI

1. Scan the following setting code.

MSI Minimum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only MSI symbols above 2 characters, scan 2. To decode only MSI symbols above 12 characters, scan 1, 2.
3. Select and scan one of the following setting code.

Save

Cancel

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3.18.2 Set Maximum Lengths for MSI

1. Scan the following setting code.

MSI Maximum Length

2. Select the length using the barcodes in <Appendix C, Numeric Barcodes>. For example, to decode only MSI symbols below 9 characters, scan 9. To decode only MSI symbols below 20 characters, scan 2, 0.
3. Select and scan one of the following setting code.

Save

Cancel

3.18.3 MSI Check Digit Verification

With MSI symbols, one check digit is mandatory and always verified by the reader. The second check digit is optional. If the MSI codes include two check digits, scan the Two MSI Check Digits barcode to enable verification of the second check digit.

One MSI Check Digit *

Two MSI Check Digits

No MSI Check Digit

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3.18.4 Transmit MSI Check Digit

Scan one of the following barcodes to transmit MSI data with or without the check digit.

NOTE: MSI Check Digit Verification must be enabled for this parameter to function.



Transmit MSI Check Digit



Do Not Transmit MSI Check Digit *

3.19 GS1 DataBar (7 Variants)

The GS1 DataBar family consists of seven types of barcodes:

GS1 DataBar Omnidirectional
GS1 DataBar Stacked Omnidirectional
GS1 DataBar Expanded
GS1 DataBar Expanded Stacked
GS1 DataBar Stacked
GS1 DataBar Limited
GS1 DataBar Truncated

Scan one of the following barcodes to enable or disable all of them.



Enable GS1 DataBar



Disable GS1 DataBar*

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3.20 1D Symbologies Enable/Disable

Scan one of the following barcodes to enable or disable All 1D Symbologies.



Enable All 1D Symbologies



Disable All 1D Symbologies*

3.21 Inverse 1D Symbologies

Inverse Code 128/GS1-128



Enable Inverse Code 128/GS1-128



Disable Inverse Code 128/GS1-128*

Inverse UPC/EAN



Enable Inverse UPC/EAN



Disable Inverse UPC/EAN*

Inverse Interleaved 2 of 5 (ITF)



Enable Inverse ITF



Disable Inverse ITF*

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Inverse Code39



Enable Inverse Code39



Disable Inverse Code39*

Inverse Code93



Enable Inverse Code93



Disable Inverse Code93*

Inverse Codabar



Enable Inverse Codabar



Disable Inverse Codabar*

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Chapter 4 - 2D Symbologies

4.1 PDF417

Scan one of the following barcodes to enable or disable PDF417.



Enable PDF417*



Disable PDF417

Inverse PDF417
Scan one of the following barcodes to select the PDF417 inverse engine setting:
Regular Only - The engine decodes regular PDF417 only.
Inverse Only - The engine decodes inverse PDF417 only.
Inverse Autodetect - The engine decodes both regular and inverse PDF417.



Regular Only*



Inverse Only



Inverse Autodetect

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4.2 QR

Scan one of the following barcodes to enable or disable QR.



Enable QR*



Disable QR

4.2.1 Inverse QR

Scan one of the following barcodes to select the QR inverse engine setting:
Regular Only - The engine decodes regular QR only.
Inverse Only - The engine decodes inverse QR only.
Inverse Autodetect - The engine decodes both regular and inverse QR.





Regular Only*



Inverse Only



Inverse Autodetect

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4.2.2 QR Mirror

Scan one of the following barcodes to enable or disable mirrored QR.



Enable Mirrored QR*



Disable Mirrored QR

4.3 Data Matrix

Scan one of the following barcodes to enable or disable Data Matrix.



Enable Data Matrix*



Disable Data Matrix

4.3.1 Inverse Data Matrix

Scan one of the following barcodes to select the Data Matrix inverse engine setting:
Regular Only - The engine decodes regular Data Matrix only.
Inverse Only - The engine decodes inverse Data Matrix only.
Inverse Autodetect - The engine decodes both regular and inverse Data Matrix.



Regular Only*



Inverse Only



Inverse Autodetect

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4.3.2 Data Matrix Mirror

Scan one of the following barcodes to enable or disable mirrored Data Matrix.



Enable Mirrored Data Matrix



Disable Mirrored Data Matrix*

4.4 Aztec

Scan one of the following barcodes to enable or disable Aztec.



Enable Aztec



Disable Aztec*

4.5 MaxiCode

Scan one of the following barcodes to enable or disable MaxiCode.



Enable MaxiCode



Disable MaxiCode*

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4.6 Han Xin Code

Scan one of the following barcodes to enable or disable Han Xin Code.



Enable Han Xin Code



Disable Han Xin Code*

4.7 DotCode

Scan one of the following barcodes to enable or disable DotCode.



Enable DotCode



Disable DotCode*

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Appendix A, ASCII Printable Character Sets

Decimal	ASCII	Setting Code
32	Space	%%20
33	!	%%21
34	"	%%22
35	#	%%23
36	$	%%24
37	%	%%25
38	&	%%26
39	'	%%27
40	(	%%28
41	)	%%29
42	*	%%2A
43	+	%%2B
44	,	%%2C
45	-	%%2D
46	.	%%2E

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47	/	%%2F
48	0	%%30
49	1	%%31
50	2	%%32
51	3	%%33
52	4	%%34
53	5	%%35
54	6	%%36
55	7	%%37

56	8	%%38
57	9	%%39
58	:	%%3A
59	;	%%3B
60	<	%%3C
61	=	%%3D
62	>	%%3E
63	?	%%3F
64	@	%%40

65	A	%%41
66	B	%%42
67	C	%%43
68	D	%%44
69	E	%%45
70	F	%%46
71	G	%%47
72	H	%%48
73	I	%%49

74	J	%%4A
75	K	%%4B
76	L	%%4C
77	M	%%4D
78	N	%%4E
79	O	%%4F
80	P	%%50
81	Q	%%51
82	R	%%52

83	S	%%53
84	T	%%54
85	U	%%55
86	V	%%56
87	W	%%57
88	X	%%58
89	Y	%%59
90	Z	%%5A
91	[	%%5B

92	\	%%5C
93	]	%%5D
94	^	%%5E
95	_	%%5F
96	`	%%60
97	a	%%61
98	b	%%62
99	c	%%63
100	d	%%64

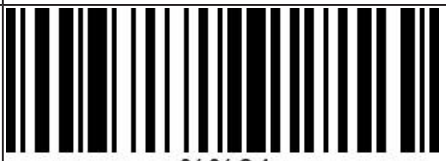
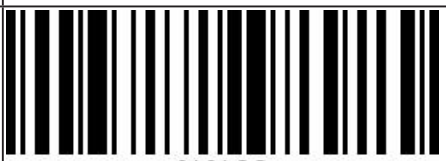
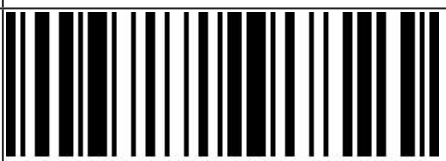
101	e	%%65
102	f	%%66
103	g	%%67
104	h	%%68
105	i	%%69
106	j	%%6A
107	k	%%6B
108	l	%%6C
109	m	%%6D

110	n	%%6E
111	o	%%6F
112	p	%%70
113	q	%%71
114	r	%%72
115	s	%%73
116	t	%%74
117	u	%%75
118	v	%%76

119	w	%%77
120	x	%%78
121	y	%%79
122	z	%%7A
123	{	%%7B
124	|	%%7C
125	}	%%7D
126	~	%%7E
127	DEL	%%7F

199	Ç	%%C7
231	ç	%%E7

Appendix B, ASCII Control Character Sets

Decimal	ASCII	Escape Character Set 0	Escape Character Set 1	Escape Character Set 2	Escape Character Set 3	Escape Character Set 4	Setting Code
1	SOH	NULL	Home	Ctrl+A	Alt+001	Small Enter	 %%01
2	STX	Ctrl+B	End	Ctrl+B	Alt+002	Cap Lock	 %%02
3	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003	Right Arrow	 %%03
4	EOT	*Customized Key 1	Down Arrow	Ctrl+D	Alt+004	Up Arrow	 %%04
5	ENQ	*Customized Key 2	Left Arrow	Ctrl+E	Alt+005	NULL	 %%05
6	ACK	*Customized Key 3	Right Arrow	Ctrl+F	Alt+006	NULL	 %%06
7	BEL	*Customized Key 4	Shift+Tab	Ctrl+G	Alt+007	Enter	 %%07

8	BS	Back Space	Back Space	Back Space	Alt+008	Left Arrow	%%08
9	HT	Tab	Tab	Tab	Alt+009	Tab	%%09
10	LF	Enter	Enter	Ctrl+J	Alt+010	Down Arrow	%%0A
11	VT	NULL	NULL	Ctrl+K	Alt+011	Tab	%%0B
12	FF	NULL	NULL	Ctrl+L	Alt+012	delete	%%0C
13	CR	Enter	Enter	Enter	Alt+013	Enter	%%0D
14	S0	F1	Page Up	Ctrl+N	Alt+014	Insert	%%0E
15	S1	F2	Page Down	Ctrl+O	Alt+015	Esc	%%0F

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16	DLE	F3	F11	Ctrl+P	Alt+016	F11	%%10
17	DC1	F4	NULL	Ctrl+Q	Alt+017	Home	%%11
18	DC2	F5	NULL	Ctrl+R	Alt+018	Print Screen	%%12
19	DC3	F6	NULL	Ctrl+S	Alt+019	Back Space	%%13
20	DC4	F7	NULL	Ctrl+T	Alt+020	Shift tab	%%14
21	NAK	F8	F12	Ctrl+U	Alt+021	F12	%%15
22	SYN	F9	F1	Ctrl+V	Alt+022	F1	%%16
23	TB	F10	F2	Ctrl+W	Alt+023	F2	%%17

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24	CAN	F11	F3	Ctrl+X	Alt+024	F3	%%18
25	EM	F12	F4	Ctrl+Y	Alt+025	F4	%%19
26	SUB	NULL	F5	Ctrl+Z	Alt+026	F5	%%1A
27	Esc	Esc	F6	Ctrl+[	Alt+027	F6	%%1B
28	FS	ALT+028	F7	Ctrl+\	Alt+028	F7	%%1C
29	GS	ALT+029	F8	Ctrl+]	Alt+029	F8	%%1D
30	RS	NULL	F9	Ctrl+^	Alt+030	F9	%%1E
31	US	NULL	F10	Ctrl+_	Alt+031	F10	%%1F

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Appendix C, Numeric Barcodes

Appendix A: Digital Setup Code
The appendix contains the numbers 0-9; the letters A-F; cancel; and the OK setting code.



0



1



2



3



4



5



6



7



B



9



A



B

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C



D



E



F



OK



Cancel

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