



Barcode
BC-29

Decoder & Platform

Programming Manual

CONTENTS

Getting Started	2
Setting Procedures	3
Setting Flow Chart	4
Group 1 : Multi Validation.....	5
Group 2 : Hold Time	6
Group 3: Scan Mode.....	7
Group 4: End Character.....	7
Group 5: Sleep Time.....	8
Group 6: Barcode Identify.....	9
Group 7-1: EAN-13	10
Group 7-2: EAN-8.....	11
Group 7-3: UPC-A.....	12-13
Group 7-4: UPC-E.....	14-15
Group 7-5: ADD-ON 2/5	16
Group 8: Codabar.....	17-18
Group 9: Code128	19
Group 10: Code39.....	20-21
Group 11: Code93	22
Group 12: Code11	23
Group 13-1: Interleaved 2 of 5.....	24
Group 13-2: Industrial 2 of 5	25
Group 13-3: Matrix 2 of 5	26
Group 13-4: MSI-PLESSEY	27
Group 14: Keyboard Language.....	28
Group 15: 1D 2D Select	29
Group 16: Edit Function	30
Group 17-1: Parameter (NUMBER)	33-37
Group 17-2: Parameter (ASCII)	37-43

Getting Started

Installing USB Interface Scanner

To install a USB Interface scanner, follow the steps listed below:

- 1) Make sure that the scanner has the correct USB cable for the system (PC or terminal)
- 2) Turn off the power of the system
- 3) plug the USB cable
- 4) Turn on the power of the system
- 5) If the indicator LED lights up and the buzzer sounds, the scanner is ready for reading

Installing a RS-232 Interface Scanner

To install a RS-232 interface scanner, the host device should have a RS-232 port to receive data from the scanner, follow the steps listed below:

- 1) Make sure that the scanner has the right connector for the RS-232 port of the host device
- 2) Make sure that there is a power supply to the scanner (if necessary)
- 3) Connect the cable to the RS-232 port of the device
- 4) If the indicator LED lights up and the buzzer sounds, the scanner is ready for reading

Setting Procedures

- 1) Locate a group that contains the parameters to be changed.
- 2) Scan the Setting label. The scanner will sound beeps indicate that set is in progress
- 3) Scan the label representing the parameter to be changed
- 4) Scan the "Save" to end the group currently selected, the scanner will sound beeps
- 5) Repeat the procedure for other groups including the parameters to be changed

Example 1:

Set the operating mode to "20 Lines Scan mode"

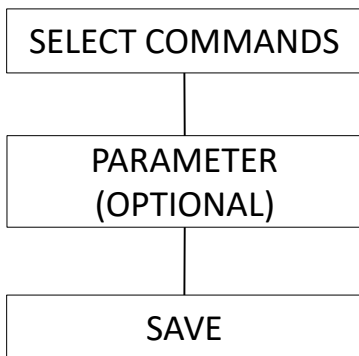
- 1) Scan barcode "20 Lines" from "Scan mode" group
- 2) Scan "Save" barcode

Example 2

Assign Preamble string as "A"

- 1) Scan barcode "Insert and clear 1" from "Edit Function" group
- 2) Scan barcode "01" from "Parameter (NUMBER)" group
- 3) Scan barcode "A" from "Parameter (ASCII)" group
- 4) Scan "Save" barcode

Setting Flow Chart



Set Default to Factory



Show Version

Group 1: Multi Validation



1 time



2 times



3 times



4 times



5 times



Save

Group 2: Hold Time



100 ms



200 ms



300 ms



400 ms



500 ms



Save

Group 3: Scan Mode



20 lines



100 lines

Group 4: End Character



Disable



End by Enter



End by Tab



Save

Group 5: Sleep Time



Disable



1 min



2 min



3 min



4 min



5 min



6 min



Save

Group 6: Barcode Identify



Barcode identify off



Barcode ID symbol on left



Barcode ID symbol on right



Save

Group 7-1: EAN-13



Enable



Disable

Verify Checksum



Enable



Disable

Transmit Check Character



Enable



Disable

EAN-13 Convert to ISBN



Enable



Disable



Save

Group 7-2: EAN-8



Enable



Disable

Verify Checksum



Enable



Disable

Transmit Check Character



Enable



Disable



Save

Group 7-3: UPC-A



Enable



Disable

Verify Checksum



Enable



Disable

Transmit Check Character



Enable



Disable

UPC-A Convert to EAN-13



Enable



Disable



Save

Group 7-3: UPC-A

Truncate Leading Digit



Truncate Leading zero



Truncate the system character



Disable

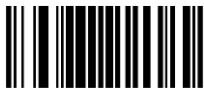


Truncate the first zero



Save

Group 7-4: UPC-E



Enable



Disable

Verify Checksum



Enable



Disable

Transmit Check Character



Enable



Disable

UPC-E Convert



Convert to EAN13



Disable



Convert to UPC-A



Save

Group 7-4: UPC-E

Truncate Leading Digit



Truncate Leading zero



Disable



Truncate the system character



Truncate the first zero



Save

Group 7-5: ADD-ON 2/5

ADD-ON BIT



Disable



2 bit



5 bit



2 and 5 bit



Save

Group 8: Codabar



Enable



Disable

Verify Checksum



Enable



Disable

Transmit Check Character



Enable



Disable



Save

Group 8: Codabar

Transmit Start/End Type



ABCD/ABCD



ABCD/TN*E



Disable



abcd/abcd



abcd/tn*e



Save

Group 9: Code128



Enable



Disable

Truncate Leading Digit



Truncate Leading zero



Disable



Truncate the system character



Truncate the first zero



Save

Group 10: Code39



Enable



Disable

Verify Checksum



Enable



Disable

Transmit Check Character



Enable



Disable



Save

Group 10: Code39

Transmit Data Format



Full ASCII



Standard

Transmit Start/End Character



Enable



Disable



Save

Group 11: Code93



Enable



Disable

Verify Checksum



Enable



Disable



Save

Group 12: Code11



Enable



Disable

Verify Checkdigit



Mod11 Only



Disable



Mod10, Mod11

Transmit/Truncate Checkdigit



Truncate 1^s checkdigit



Transmit checkdigit



Depend on verify checkdigit



Truncate 1st & 2nd checkdigit



Save

Group 13-1: Interleaved 2 of 5



Enable



Disable



Disable

Verify Checksum



USS



UPCC

Transmit Check Character



Enable



Disable



Save

Group 13-2: Industrial 2 of 5



Enable



Disable



Save

Group 13-3: Matrix 2 of 5



Enable



Disable



Enable

Verify Checksum



Disable



Enable

Transmit Check Character



Disable



Save

Group 13-4: MSI-PLESSEY



Enable



Disable



Disable

Verify Checkdigit



Enable MOD 10



Enable MOD 10/10



Enable MOD 11/10



Transmit checkdigit

Transmit/Truncate Checkdigit



Truncate 1st & 2nd checkdigit



Truncate 1st checkdigit



Depend on verify checkdigit



Save

Group 14: Keyboard Language



US



Czech



French



German



Hungary



Italian



Japanese



Spanish



Save

Group 15: 1D 2D Select



2D Prior



2D:1D = 4:1



2D:1D = 3:2



2D:1D = 2:3



2D:1D = 1:4



1D Prior

About ratio

The larger ratio means more prior



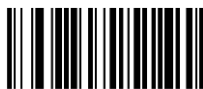
Save

Group 14: Edit Function



Enable

Edit function switch



Disable



Insert and clear 1

Edit command 1



Delete 1



Replace source 1



Replace value 1



Save

Group 14: Edit Function

Edit command 2



Insert and clear 2



Delete 2



Replace source 2



Replace value 2

Edit command 3



Insert and clear 3



Delete 3



Replace source 3



Replace value 3



Save

Group 14: Edit Function

Edit command 4



Insert and clear 4



Delete 4



Replace source 4



Replace value 4

Example1

Assign Preamble string as "A"

- 1) Scan barcode "Insert and clear 1" from "Edit Function" group
- 2) Scan barcode "01" from "Parameter(NUMBER)" group ("01" means the first position)
- 3) Scan barcode "A" from "Parameter (ASCII)" group
- 4) Scan "Save" barcode

Example2

Replace "B" by "A"

- 1) Scan barcode "Replace source 1" from "Edit Function" group
- 2) Scan barcode "B" from "Parameter(ASCII)" group
- 3) Scan barcode "Replace Value 1" from "Edit Function" group
- 4) Scan barcode "A" from "Parameter (ASCII)" group
- 5) Scan "Save" barcode



Save

Group 15-1: Parameter (NUMBER)



1



3



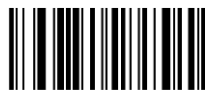
5



7



9



11



13



15



255/END



2



4



6



8



10



12



14

Group 15-1: Parameter (NUMBER)



16



18



20



22



24



26



28



30



17



19



21



23



25



27



29

Group 15-1: Parameter (NUMBER)



31



33



35



37



39



41



43



45



32



34



36



38



40



42



44

Group 15-1: Parameter (NUMBER)



46



48



50



52



54



56



58



60



47



49



51



53



55



57



59

Group 15-2: Parameter (ASCII)



SPACE



“



\$



&



(



*



,



.



!



#



%



'



)



+



-

Group 15-2: Parameter (ASCII)



/



1



3



5



7



9



;



=



0



2



4



6



8



:



<

Group 15-2: Parameter (ASCII)



>



@



B



D



F



H



J



L



?



A



C



E



G



I



K

Group 15-2: Parameter (ASCII)



M



O



Q



S



U



W



Y



[



N



P



R



T



V



X



Z

Group 15-2: Parameter (ASCII)



\



^



`



b



d



f



h



j



]



-



a



c



e



g



i

Group 15-2: Parameter (ASCII)



k



m



o



q



s



u



w



y



l



n



p



r



t

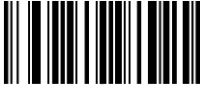


v



x

Group 15-2: Parameter (ASCII)



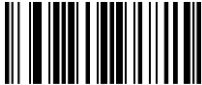
z



|



~



{



}

