



EC-2D8350 Image Scanner Programming Manual

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Factory Default		
	Set	
	Factory default settings	%++%
	End	

Customer's Factory Default

	Set	
	Save customer's factory default	%C++D%
	Delete customer's factory default	%C--D%
	End	

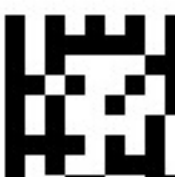
Scan Mode

	Set	
	Handheld Mode	MD01
	Hands Free Mode	MD02
	Continue Scan	MD03
	End	

Continue Scan

Standby Time		
	Set	
	Disable	ST0
	5 minutes	ST1
	10 minutes	ST2
	End	

Standby Time

	Set	
	15 minutes	ST3
	20 minutes	ST4
	25 minutes	ST5
	30 minutes	ST6
	End	

Delay Time for Same Code

	Set	
	200 msec	SD0
	250 msec	SD1
	300 msec	SD2
	End	

Interface

	Set	
	RS232	OP01
	USB Keyboard	OP02
	USB Virtual COM Port	OP03
	End	

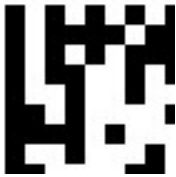
Terminal Character

	Set	
	None	TC01
	CR/LF	TC02
	CR	TC03
	TAB	TC04
	End	

RS232 Baud Rate

	Set	
	9600	BR01
	19200	BR02
	38400	BR03
	57600	BR04
	End	

RS232 Baud Rate

	Set	
	115200	BR05
	230400	BR06
	End	

Aiming Pattern	
	Set
	On
	Always On
	Off
	End

Illumination	
	Set
	On
	Always On
	Off
	End

Good Read Beep Length

	Set
	50 msec
	100 msec
	150 msec
	200 msec
	End

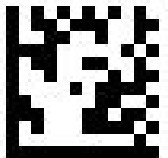
Good Read Beep Frequency

	Set
	Low
	Medium
	High
	End

Voice

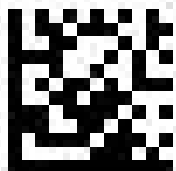


Set



Enable voice

%+VOC%



Disable voice

%-VOC%



End

Keyboard Caps Lock State

	Set	
	Caps Lock Off	CS0
	Caps Lock On	CS1
	End	

Country Mode		
	Set	
	U.S.	KM00
	Belgium	KM01
	Britain	KM02
	Denmark	KM03
	End	

Country Mode		
	Set	
	France	KM04
	Germany	KM05
	Italy	KM06
	Norway	KM07
	End	

Country Mode

	Set	
	Portugal	KM08
	Spain	KM09
	Sweden	KM10
	Switzerland	KM11
	End	

Country Mode

	Set	
	Japan	KM12
	Hungary	KM13
	Czech Republic	KM14
	Slovakia	KM15
	End	

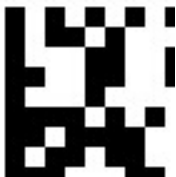
Country Mode

	Set	
	Romania	KM16
	Croatia	KM17
	Poland	KM18
	End	

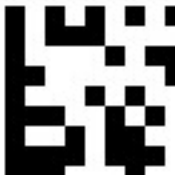
Readable Codes

	Set	
	Enable All	EC00
	Default	FC00
	Enable UPC-A	EC01
	Disable UPC-A	DC01
	End	

Readable Codes

	Set	
	Enable UPC-E	EC02
	Disable UPC-E	DC02
	Enable EAN 8	EC03
	Disable EAN 8	DC03
	End	

Readable Codes

	Set	
	Enable EAN 13	EC04
	Disable EAN 13	DC04
	Enable Code 128	EC05
	Disable Code 128	DC05
	End	

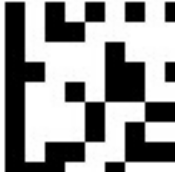
Readable Codes

	Set	
	Enable Code 39	EC06
	Disable Code 39	DC06
	Enable Code 93	EC07
	Disable Code 93	DC07
	End	

Readable Codes

	Set	
	Enable Code 32	EC08
	Disable Code 32	DC08
	Enable Code 11	EC09
	Disable Code 11	DC09
	End	

Readable Codes

	Set	
	Enable Codabar	EC10
	Disable Codabar	DC10
	Enable Plessey	EC11
	Disable Plessey	DC11
	End	

Readable Codes

	Set	
	Enable MSI/ Plessey	EC12
	Disable MSI/ Plessey	DC12
	Enable Interleaved 2 of 5	EC13
	Disable Interleaved 2 of 5	DC13
	End	

Readable Codes

	Set	
	Enable IATA 2 of 5	EC14
	Disable IATA 2 of 5	DC14
	Enable Matrix 2 of 5	EC15
	Disable Matrix 2 of 5	DC15
	End	

Readable Codes

	Set	
	Enable Straight 2 of 5	EC16
	Disable Straight 2 of 5	DC16
	Enable Pharmacode	EC17
	Disable Pharmacode	DC17
	End	

Readable Codes

	Set	
	Enable RSS 14	EC18
	Disable RSS 14	DC18
	Enable RSS Expanded	EC19
	Disable RSS Expanded	DC19
	End	

Readable Codes

	Set	
	Enable RSS Limited	EC20
	Disable RSS Limited	DC20
	Enable Ccomponent CC-A	EC21
	Disable Ccomponent CC-A	DC21
	End	

Readable Codes

	Set	
	Enable Ccomponent CC-B	EC22
	Disable Ccomponent CC-B	DC22
	Enable Ccomponent CC-C	EC23
	Disable Ccomponent CC-C	DC23
	End	

Readable Codes

	Set	
	Enable PDF417	EC24
	Disable PDF417	DC24
	Enable Micro PDF417	EC25
	Disable Micro PDF417	DC25
	End	

Readable Codes

	Set	
	Enable Data Matrix	EC26
	Disable Data Matrix	DC26
	Enable QR	EC27
	Disable QR	DC27
	End	

Readable Codes

	Set	
	Enable Micro QR	EC28
	Disable Micro QR	DC28
	Enable Aztec	EC29
	Disable Aztec	DC29
	End	

Readable Codes

	Set	
	Enable MaxiCode	EC30
	Disable MaxiCode	DC30
	End	

UPC / EAN		
	Set	
	Enable decoding of 2/5-digit supplemental code for UPC-A, UPC-E, EAN-13, and EAN-8	UN01
	Disable decoding of 2/5-digit supplemental code for UPC-A, UPC-E, EAN-13, and EAN-8	UN02
	End	

UPC-A		
	Set	
	Enable UPC-A Number System digit	UA01
	Disable UPC-A Number System digit	UA02
	Enable UPC-A check digit.	UA03
	Disable UPC-A check digit	UA04
	End	

UPC-A



Set



Enable conversion of UPC-A to
EAN13

UA05



**Disable conversion of
UPC-A to EAN13**

UA06



End

UPC-E		
	Set	
	Enable UPC-E Number System digit	UE01
	Disable UPC-E Number System digit	UE02
	Enable UPC-E check digit	UE03
	Disable UPC-E check digit	UE04
	End	

UPC-E		
	Set	
	Enable conversion of UPC-E to UPC-A	UE05
	Disable conversion of UPC-E to UPC-A	UE06
	End	

EAN 8		
	Set	
	Enable EAN 8 check digit	E801
	Disable EAN 8 check digit	E802
	Enable conversion of EAN 8 to EAN 13	E803
	Disable conversion of EAN 8 to EAN 13	E804
	End	

EAN 13		
	Set	
	Enable EAN 13 check digit	ED01
	Disable EAN 13 check digit	ED02
	Enable conversion of EAN 13 to ISBN	ED03
	Disable conversion of EAN 13 to ISBN	ED04
	End	

EAN 13



Set



Enable conversion of EAN 13 to ISSN

ED05



Disable conversion of EAN 13 to ISSN

ED06

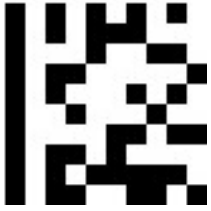


End

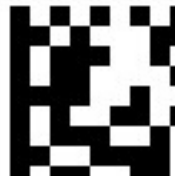
Code 39		
	Set	
	Enable Code 39 full ASCII mode	C39a
	Disable Code 39 full ASCII mode	C39b
	Enable Start and Stop characters	C39c
	Disable Start and Stop characters	C39d
	End	

Code 39

	Set	
	Disable Checksum	C39e
	Enable checksum and send check character	C39f
	Enable checksum and strip check character	C39g
	End	

Codabar		
	Set	
	Disable Checksum	CBRa
	Enable checksum and send check character	CBRb
	Enable checksum and strip check character	CBRc
	End	

Interleaved 2 of 5

	Set	
	Disable Checksum	I25a
	Enable checksum and send check character	I25b
	Enable checksum and strip check character	I25c
	End	

Interleaved 2 of 5

	Set	
	Default quiet zone checking No length checking performed	I25d
	Smaller quiet zone allowed	I25e
	End	

MSI / Plessey

	Set	
	Disable MSI Plessey checksum	MSIa
	Mod 10 checksum	MSIb
	Mod 10/10 checksum	MSIc
	Mod 11/10 checksum	MSId
	End	

MSI / Plessey

	Set	
	Output checksum character(s)	MSIe
	Strip checksum character(s)	MSIf
	End	

Code 11

	Set	
	Output checksum character(s)	C11a
	Strip checksum character(s)	C11b
	End	

Data Matrix		
	Set	
	Enable mirror decoding	DMXa
	Disable mirror decoding	DMXb
	End	

Data Matrix		
	Set	
	Enable rectangular Data Matrix decoding	DMXc
	Disable rectangular Data Matrix decoding	DMXd
	End	

QR / Micro QR

	Set	
	Enable mirror decoding	QR01
	Disable mirror decoding	QR02
	UTF8 conversion for word only	QRC0
	Universal UTF8 conversion	QRC1
	End	

Aztec

	Set	
	Enable mirror decoding	AZ01
	Disable mirror decoding	AZ02
	End	

Set Lengths for Codes

● One Discrete Length

Select this option to decode the symbol containing a selected length.

Select the length using the numeric bar codes in [ASCII Code Table](#). For example, to decode only Code 128 symbols with 14 characters, scan **Code 128 One Discrete Length**, then scan **1** followed by **4**.

● Two Discrete Lengths

Select this option to decode the symbol containing either of two selected lengths. Select lengths using the numeric bar codes in [ASCII Code Table](#). For example, to decode only Code 128 symbols containing either 2 or 14 characters, select **Code 128 Two Discrete Lengths**, then scan **0, 2, 1**, and then **4**.

● Length Within Range

Select this option to decode the symbol with a specific length range.

Select lengths using numeric bar codes in [ASCII Code Table](#). For example, to decode

Code 128 symbols containing between 4 and 12 characters, first scan **Code 128 Length Within Range**. Then scan **0, 4, 1**, and **2**.

● Any Length

Select this option to decode the symbol containing any number of characters within the digital scanner's capability.

Set Lengths for Code 128

	Set	
	One Discrete Length	ODL0
	Two Discrete Lengths	TDL0
	Length Within Range	LWR0
	Any Length	ANL0
	End	

Set Lengths for Code 39

	Set	
	One Discrete Length	ODL1
	Two Discrete Lengths	TDL1
	Length Within Range	LWR1
	Any Length	ANL1
	End	

Set Lengths for Code 93

	Set	
	One Discrete Length	ODL2
	Two Discrete Lengths	TDL2
	Length Within Range	LWR2
	Any Length	ANL2
	End	

Set Lengths for Codabar

	Set	
	One Discrete Length	ODL3
	Two Discrete Lengths	TDL3
	Length Within Range	LWR3
	Any Length	ANL3
	End	

Set Lengths for Interleaved 2 of 5

	Set	
	One Discrete Length	ODL4
	Two Discrete Lengths	TDL4
	Length Within Range	LWR4
	Any Length	ANL4
	End	

Set Lengths for Code 11

	Set	
	One Discrete Length	ODL5
	Two Discrete Lengths	TDL5
	Length Within Range	LWR5
	Any Length	ANL5
	End	

Set Lengths for MSI

	Set	
	One Discrete Length	ODL6
	Two Discrete Lengths	TDL6
	Length Within Range	LWR6
	Any Length	ANL6
	End	

Set Lengths for Matrix 2 of 5

	Set	
	One Discrete Length	ODL7
	Two Discrete Lengths	TDL7
	Length Within Range	LWR7
	Any Length	ANL7
	End	

Code Identifiers

	Set	
	Disable Code ID	\$D0
	Enable AIM ID	\$D1
	Enable Mexxen / Zebex ID	\$D2
	End	

Code Identifiers Table		
Symbology	Mexxen/Zebex	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	X
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
RSS 14	RS	e
RSS Expanded	RX	e
RSS Limited	RL	e
Component CC-A	m	e
Component CC-B	n	e
Component CC-C	i	e
PDF417	r	L
Micro PDF417	s	L
Data Matrix	t	d
QR	u	Q
Micro QR	j	Q
Aztec	e	Z
MaxiCode	v	U

Function Key Mapping

	Set	
	Disable Function Key Mapping	FK0
	Enable Function Key Mapping	FK1
	End	

Prefix

	Set	
	Enable All	EP00
	Disable All	DP00
	Enable UPC-A	EP01
	Disable UPC-A	DP01
	End	

Prefix		
	Set	
	Enable UPC-E	EP02
	Disable UPC-E	DP02
	Enable EAN 8	EP03
	Disable EAN 8	DP03
	End	

Prefix		
	Set	
	Enable EAN 13	EP04
	Disable EAN 13	DP04
	Enable Code 128	EP05
	Disable Code 128	DP05
	End	

Prefix		
	Set	
	Enable Code 39	EP06
	Disable Code 39	DP06
	Enable Code 93	EP07
	Disable Code 93	DP07
	End	

Prefix		
	Set	
	Enable Code 32	EP08
	Disable Code 32	DP08
	Enable Code 11	EP09
	Disable Code 11	DP09
	End	

Prefix		
	Set	
	Enable Codabar	EP10
	Disable Codabar	DP10
	Enable Plessey	EP11
	Disable Plessey	DP11
	End	

Prefix

	Set	
	Enable MSI	EP12
	Disable MSI	DP12
	Enable Interleaved 2 of 5	EP13
	Disable Interleaved 2 of 5	DP13
	End	

Prefix		
	Set	
	Enable IATA 2 of 5	EP14
	Disable IATA 2 of 5	DP14
	Enable Matrix 2 of 5	EP15
	Disable Matrix 2 of 5	DP15
	End	

Prefix		
	Set	
	Enable Straight 2 of 5	EP16
	Disable Straight 2 of 5	DP16
	Enable Pharmacode	EP17
	Disable Pharmacode	DP17
	End	

Prefix		
	Set	
	Enable RSS 14	EP18
	Disable RSS 14	DP18
	Enable RSS Expanded	EP19
	Disable RSS Expanded	DP19
	End	

Prefix		
	Set	
	Enable RSS Limited	EP20
	Disable RSS Limited	DP20
	Enable Component CC-A	EP21
	Disable Component CC-A	DP21
	End	

Prefix		
	Set	
	Enable Component CC-B	EP22
	Disable Component CC-B	DP22
	Enable Component CC-C	EP23
	Disable Component CC-C	DP23
	End	

Prefix		
	Set	
	Enable PDF417	EP24
	Disable PDF417	DP24
	Enable Micro PDF417	EP25
	Disable Micro PDF417	DP25
	End	

Prefix		
	Set	
	Enable Data Matrix	EP26
	Disable Data Matrix	DP26
	Enable QR	EP27
	Disable QR	DP27
	End	

Prefix		
	Set	
	Enable Micro QR	EP28
	Disable Micro QR	DP28
	Enable Aztec	EP29
	Disable Aztec	DP29
	End	

Prefix



Set



Enable MaxiCode

EP30



Disable MaxiCode

DP30



End

Suffix		
	Set	
	Enable All	ES00
	Disable All	DS00
	Enable UPC-A	ES01
	Disable UPC-A	DS01
	End	

Suffix		
	Set	
	Enable UPC-E	ES02
	Disable UPC-E	DS02
	Enable EAN 8	ES03
	Disable EAN 8	DS03
	End	

Suffix		
	Set	
	Enable EAN 13	ES04
	Disable EAN 13	DS04
	Enable Code 128	ES05
	Disable Code 128	DS05
	End	

Suffix		
	Set	
	Enable Code 39	ES06
	Disable Code 39	DS06
	Enable Code 93	ES07
	Disable Code 93	DS07
	End	

Suffix		
	Set	
	Enable Code 32	ES08
	Disable Code 32	DS08
	Enable Code 11	ES09
	Disable Code 11	DS09
	End	

Suffix		
	Set	
	Enable Codabar	ES10
	Disable Codabar	DS10
	Enable Plessey	ES11
	Disable Plessey	DS11
	End	

Suffix		
	Set	
	Enable MSI	ES12
	Disable MSI	DS12
	Enable Interleaved 2 of 5	ES13
	Disable Interleaved 2 of 5	DS13
	End	

Suffix		
	Set	
	Enable IATA 2 of 5	ES14
	Disable IATA 2 of 5	DS14
	Enable Matrix 2 of 5	ES15
	Disable Matrix 2 of 5	DS15
	End	

Suffix		
	Set	
	Enable Straight 2 of 5	ES16
	Disable Straight 2 of 5	DS16
	Enable Pharmacode	ES17
	Disable Pharmacode	DS17
	End	

Suffix		
	Set	
	Enable RSS 14	ES18
	Disable RSS 14	DS18
	Enable RSS Expanded	ES19
	Disable RSS Expanded	DS19
	End	

Suffix		
	Set	
	Enable RSS Limited	ES20
	Disable RSS Limited	DS20
	Enable Component CC-A	ES21
	Disable Component CC-A	DS21
	End	

Suffix		
	Set	
	Enable Component CC-B	ES22
	Disable Component CC-B	DS22
	Enable Component CC-C	ES23
	Disable Component CC-C	DS23
	End	

Suffix		
	Set	
	Enable PDF417	ES24
	Disable PDF417	DS24
	Enable Micro PDF417	ES25
	Disable Micro PDF417	DS25
	End	

Suffix

	Set	
	Enable Data Matrix	ES26
	Disable Data Matrix	DS26
	Enable QR	ES27
	Disable QR	DS27
	End	

Suffix		
	Set	
	Enable Micro QR	ES28
	Disable Micro QR	DS28
	Enable Aztec	ES29
	Disable Aztec	DS29
	End	

Suffix



Set



Enable MaxiCode

ES30



Disable MaxiCode

DS30



End

ASCII Code Table

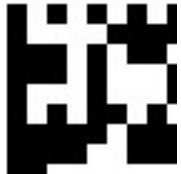
	Insert	K1
	Delete	K2
	Home	K3
	End	K4
	Up arrow	K5
	Down arrow	K6

	Left arrow	K7
	Right arrow	K8
	TAB	K9
	Backspace	K10
	Shift	K11
	ESC	K12

	Page up	K13
	Page down	K14
	F1	F1
	F2	F2
	F3	F3
	F4	F4

	F5	F5
	F6	F6
	F7	F7
	F8	F8
	F9	F9
	F10	F10

	F11	F11
	F12	F12
	SPACE	S0
	!	S1
	.	S2
	#	S3

	\$	S4
	%	S5
	&	S6
	'	S7
	(	S8
	)	S9

	*	S10
	+	S11
	,	S12
	-	S13
	.	S14
	/	S15

	:	B0
	;	B1
	<	B2
	=	B3
	>	B4
	?	B5

	@	B6
	0	N0
	1	N1
	2	N2
	3	N3
	4	N4

	5		N5
	6		N6
	7		N7
	8		N8
	9		N9
	ASCII Code	Function Key Mapping	\$A
	A	Ctrl+a	

	ASCII Code	Function Key Mapping	\$B
	B	Ctrl+b	
	C	Ctrl+c	\$C
	D	Ctrl+d	\$D
	E	Ctrl+e	\$E
	F	Ctrl+f	\$F
	G	Ctrl+g	\$G

	ASCII Code	Function Key Mapping	\$H
	H	Ctrl+h	
	I	Ctrl+i	\$I
	J	Ctrl+j	\$J
	K	Ctrl+k	\$K
	L	Ctrl+l	\$L
	M	Ctrl+m	\$M

	ASCII Code	Function Key Mapping	\$N
	N	Ctrl+n	
	O	Ctrl+o	\$O
	P	Ctrl+p	\$P
	Q	Ctrl+q	\$Q
	R	Ctrl+r	\$R
	S	Ctrl+s	\$S

	ASCII Code	Function Key Mapping	\$T
	T	Ctrl+t	
	U	Ctrl+u	\$U
	V	Ctrl+v	\$V
	W	Ctrl+w	\$W
	X	Ctrl+x	\$X
	Y	Ctrl+y	\$Y

	ASCII Code	Function Key Mapping	\$Z
	Z	Ctrl+z	
	a		+A
	b		+B
	c		+C
	d		+D
	e		+E

	f	+F
	g	+G
	h	+H
	i	+I
	j	+J
	k	+K

	l	+L
	m	+M
	n	+N
	o	+O
	p	+P
	q	+Q

	r	+R
	s	+S
	t	+T
	u	+U
	v	+V
	w	+W

	x	+X
	y	+Y
	z	+Z

Manufacturer: EC LINE

Thank you very much for using EC Line product
For service, please contact service@ecline.com.hk

www.eclinepos.com