RSS-expanded	Enable RSS-expanded	
DataMatrix	Enable DataMatrix ECC000-ECC140	
ECC000-ECC140		
DataMatrix ECC200	Enable DataMatrix ECC200 (default)	
Aztec	Enable Aztec (default)	
Aztec Runes	Enable Aztec Runes	
QR Code	Enable QR Code (default)	
Maxi Code	Enable Maxi Code (default)	
PDF417	Enable PDF417 (default)	
MicroPDF417	Enable MicroPDF417 (default)	

Table 3-17 Code configure description 2D CMOS

3.2.1.3 Prefix and suffix TAB

With these options alterations can be made to the format of the transmitted data string.

Bar Code Scanner Settings OK 🗙
Code Configure Prefix and Suffix 💶
Option: Please Select Option 💌
Code:
Direct Input Keys
1stKey InputNone2nd Key InputNone3rd Key InputNone4th Key InputNone5th Key InputNone6th Key InputNone7th Key InputNone8th Key InputNone
Apply
🐉 Bar Co 🦻 🎁 > 6:26 PM 🛛 🖷

Figure 3-2 Prefix and Suffix Tab

Options available are :

- Transmission of a preamble,
- Transmission of a prefix,
- Transmission of a suffix,



- Transmission of a postamble.

The transmitted string format is :



Figure 3-2 Transmitted string format

A prefix and suffix of maximum 4 direct input entries each may be included in front and at the end of the string respectively. A preamble is transmitted before the prefix and can contain up to 8 direct input characters. A postamble is transmitted after the suffix and can contain up to 8 direct input characters. A preamble and postamble will be transmitted for all symbologies.

Default settings are :

- Preamble : None
- Prefix : None
- Suffix : ^M (CR)
- Postamble : None

Tap the "Please Select Option" field to select one of above mentioned options :

Bar Code Scanner Settings OK 🗙
Code Configure Prefix and Suffix 💶
Option: Please Select Option 💌
Code: Please Select Option
1st KeySet Preamble1st KeySet Postamble2nd Key InputNone3rd Key InputNone4th Key InputNone5th Key InputNone6th Key InputNone7th Key InputNone8th Key InputNone
Apply
🐉 Bar Co 😏 া 6:26 PM 🛛 🖷

Figure 3-2 Prefix and Suffix, select Option list box

Select one of these 4 options which meet your requirement.



٦

In the Prefix and Suffix option, 4 key input fields and their current settings are shown :

Bar Code Scanner Settings OK ×	Bar Code Scanner Settings OK 🗙
Code Configure Prefix and Suffix	Code Configure Prefix and Suffix
Option: Set Prefix	Option: Set Suffix
Code: Set All Codes 🗨	Code: Set All Codes
Direct Input Keys	
1st Key Input None 2nd Key Input None 3rd Key Input None 4th Key Input None Apply 8 Bar Co	1st Key Input ^M (CR) 2nd Key Input None 3rd Key Input None 4th Key Input None Apply
Figure 3-2 Prefix option	Figure 3-2 Suffix option

The default suffix is ^M (CR) .

Γ

In the Preamble and Postamble option, 8 key input fields and their current settings are shown :

Bar Code Scanner Settings OK ×	Bar Code Scanner Settings OK ×
Code Configure Prefix and Suffix	Code Configure Prefix and Suffix
Option: Set Preamble	Option: Set Postamble
Code: Set All Codes 🗾	Code: Set All Codes 🗨
Direct Input Keys	Direct Input Keys
1st Key Input None 2nd Key Input None 3rd Key Input None 4th Key Input None 5th Key Input None 6th Key Input None 7th Key Input None 8th Key Input None	1st Key Input None 2nd Key Input None 3rd Key Input None 4th Key Input None 5th Key Input None 6th Key Input None 7th Key Input None 8th Key Input None
Figure 3-2 Preamble optio	Figure 3-2 Postamble optio



In the code option field can be indicated for which symbology the current prefix or suffix should be configured. The "Clear All Codes" options will clear the prefix for all symbologies.

Bar Code S	Scanner Settings <mark>OK</mark> 🗙
Code Confi	gure Prefix and Suffix 💶
Option:	Set Prefix 💌
Code:	Set All Codes 📃 🔽
Direct In 1st Key 2nd Key 3rd Key I 4th Key I	Clear All Codes UPC-A UPC-A + add on UPC-E UPC-E + add on EAN-13 EAN-13 + add on EAN-8 EAN-8 + add on Code 39 Codabar
	Apply
🐉 Bar Co.	🦻 🎹 🕨 6:28 PM 🛛 🖷

Figure 3-2 **Prefix : Code list box.**

Example : to set the characters "UPCA" for bar code symbology UPC-A, tap in the "Direct Input Keys" section, the field "1st Key Input". A list box will popup, which shows all 128 ASCII characters. SPACE is the <Space> character (ASCII 32dec, 20hex). DEL is the character 127dec 7Fhex. Scroll downwards to the character 'U' and tap the character 'U'.



Bar Code Scan	ner Settings OK 🗙
Code Configure	Prefix and Suffix 💶 🕨
Option: Set	Prefix
Code: UPC	
Direct Input	
1st Key Input 2nd Key Input 3rd Key Input 4th Key Input	∝ # \$ %
	Apply
🛃 Bar Co 😏	≥ ĦĦ > 6:30 PM 🛛 🗧 🔁

Figure 3-2 **Prefix : Direct input keys selection box.**



Thereafter the display will look like :

Bar Code	Scanner Setting	ок 🗙
Code Conf	igure Prefix and Si	uffix 💶 🕨
Option:	Set Prefix	-
Code:	UPC-A	-
[Direct Ir	nput Keys ———	
1st Key 2nd Key 3rd Key 1 4th Key 1	Input U Input None Input None Input None	
	4	pply
🛃 🛛 Bar Co	🎐 뻐 🕨 6:33 I	РМ 🗧

Figure 3-2 Prefix : Selected character 'U' for UPC-A..

Repeat these steps for the characters 'P', 'C' and 'A'. Thereafter the display will look like :

Bar Code Scanner Settings OK 🗙
Code Configure Prefix and Suffix 💶
Option: Set Prefix 💽
Code: UPC-A
Direct Input Keys
1st Key Input U 2nd Key Input P 3rd Key Input C 4th Key Input A
🐉 Bar Co 😏 া 6:32 PM 🛛 🗧

Figure 3-2 Prefix : Selected characters 'UPCA' for UPC-A..

If the bar code reader reads an UPCA label with data '071589812309', it will be send to the application as : 'UPCA071589812309<CR>' where <CR> is the default suffix ASCII character <CR>.



Preamble and postamble are applicable for all bar code symbologies. Therefore the code option list box shows only 1 option : "Clear all codes".

Bar Code Scann	er Settings OK 🗙
Code Configure	Prefix and Suffix 🚺
Option: Set P	reamble 💌
Code: Set A	II Codes 🛛 🔽
Direct In Set A	l Codes All Codes
1st Key Input 2nd Key Input 3rd Key Input 4th Key Input 5th Key Input 6th Key Input 7th Key Input 8th Key Input	None None None None None None None None
	Apply
🛃 Bar Co 😼	• 🌐 • 6:35 PM 👘 🗧

Figure 3-2 **Preamble : Only 1 code option.**



3.2.1.4 Quiet zone TAB

With this option the reader can decode bar codes that have smaller start and/or end margins than specified for the symbology. Be carefully when using this option. It may increase the possibility of partial reads and ghost reads. Do not use smaller margin checks then necessary. If possible replace the bar code labels by ones that have correct start and end margins.

Bar Code Scanner Settings OK >	<
Prefix and Suffix Quiet Zone Rea	•
Margin Check	
Normal O 1/7 Normal	
O 2/7 Normal O 3/7 Normal	
O 4/7 Normal O 5/7 Normal	
◯ 6/7 Normal ◯ NO Check	
Dofult topk	
** n	
No Bar Com Se mil P 6:35 PM	-

Figure 3-2 Quiet zone options.



3.2.1.5 Read Mode TAB

With this option several read modes can be changed.

Bar Code Scanner Settings OK ×
Quiet Zone Read Mode Advance
Trigger Repeat
Redundancy
🔿 Read 1 time 🔘 Read 2 times
🔿 Read 3 times 🔿 Read 4 times
Positive / Negative BarCodes —
Positive Negative
O Positive and Negative
Default Apply
🐉 Bar Co 🥪 배 > 6:35 PM 🛛 🖷

Figure 3-2 Read mode options.

Field name	Description
Trigger repeat	This option makes it more easy to select a single bar code
	from a sheet filled with barcodes. If the trigger switch is
	pressed once, the laser beam is on during the configured read
	time. The laser beam can now be moved to the required bar
	code. If the trigger switch is pressed again, the bar code is
	decoded and transmitted. If the read time timer expires, the
	laser switches off and the trigger sequence should be
	repeated. If the read time is set to zero, then if the trigger
	switch is pressed, the laser is on, but does not accept bar
	codes. As soon the trigger switch is released, the barcode is
	decoded and transmitted. Default is disabled.
Redundancy	This is the number of times that a label must be correctly
	decoded before it is transmitted. Selecting a higher
	redundancy count makes reading slower, but is reduces the
	probability of reading errors, especially when labels of poor
	definition are used.

			OFTICON
	1010		User's manua
mart De			PHL-7000 se

	Read 1 time	Redundancy = 0	
	Read 2 times	Redundancy = 1 (default)	
	Read 3 times	Redundancy = 2	
	Read 4 times	Redundancy = 3	
Positive / Negative	Usually bar codes are printed black on white, but sometimes		
bar codes	white on black. These labels are called positive and negative		
	respectively. In case the 'negative bar codes' option has been		
	selected, positive labels may not be decoded or with difficulty.		
	Positive bar codes	Read black on white labels only	
		(default)	
	Negative bar codes	Read white on black labels only	
	Positive and	Read positive or negative labels	
	negative bar codes	automatically.	

Table 3-17 Read mode options descriptions

3.2.1.6 Advanced TAB

If enabled, this field can be used to send serial commands to the bar code reader. Use this option only in case you want to access bar code reader features which are not documented in this user's manual, but are documented in Opticon's Universal Menu Book. If there is no need to make any other change to the bar code reader settings, do not use this option. A maximum of 180 characters can be input. Default this option is disabled.

Bar Code S	canner	Settings	ок 🗙
Read Mode	Advanc	:ed	4 >
	You Car Commar	n Input nd Here	
Enal	ole Comn	nand Line)	
Se	nd	Clear	·
🐉 Bar Co	. 🎐 🗰	▶ 6:35 PM	۰ 🔁

Figure 3-2 Command line options.



Example :

To set a prefix 'Test' for UPC-A, lookup in Opticon's Universal Menu Book (UMB) the serial command's of :

- prefix UPC-A : see UMB paragraph 4.2.1, serial command = N1
- Direct input 'T' : see UMB paragraph 4.3.4, serial command = 0T
- Direct input 'e' : see UMB paragraph 4.3.5, serial command = \$E
- Direct input 's' : see UMB paragraph 4.3.5, serial command = \$S
- Direct input 't' : see UMB paragraph 4.3.5, serial command = \$T

Input these 5 commands into the Command line field by using the keyboard Input panel.

If the Send button is pressed, the serial command sequence is send to the bar code reader. To save the settings in the bar code reader, add the commands Z2 after the last command sequence.

See picture below :

Bar Code Scanner Settings OK 🗙			
Read Mode Advanced			
You Can Input Command Here			
🔽 Enable Command Line			
N10T\$E\$S\$T			
Send Clear			
Input Panel			
Esc[1]2]3]4]5]6]7]8]9]0]- = ♦ Tablo w e r t x u i 0 n []]			
Snirt[2]×]∪]v]b]n[m],].]/]↔ Ctl[áü]`]\]]↓]↑]↔]→			
🐉 Bar Co 🥪 뻐 > 6:41 PM 🎰 🖷			

Figure 3-2 Example of command line usage.

3.2.2 Bluetooth Device Properties

ICON	ITEM & FUNCTION		
	"Scan Device" Tab (Figure 3-25) :		
*	✓ Tap the Scan Device button to initiate a scan for Bluetooth		
	devices. The Bluetooth manager lists the Bluetooth devices		
	that it finds, see Figure 3-26. If Bluetooth hardware is not		
	found in the PDT, the Bluetooth Hardware Error window		
	appears, see Figure 3-27. Table 3-18 described the		
	Bluetooth Icons.		
	\checkmark Double tap the device to connect to on the device list. The		
	Bluetooth Manager Authentication window appears. Tap		
	No to connect to the device without authentication, or tap		
	Yes to authenticate the device before connecting. (Figure		
	3-28)		
	 If the Yes button was selected in the Bluetooth Manager 		
	Authentication window, the enter PIN windows appears.		
	Enter a PIN (between 1 and 16 alpha numeric characters)		
	in the <i>Enter PIN:</i> text box, and tap OK . The mobile		
	computer sends the PIN request to the device for bonding.		
	(Figure 3-29)		
	 When prompted, the same PIN must be entered on the 		
	other device. When the PIN is entered correctly on the		
	other device, the bonded icon ${igodot}$ appears on the device		
	list. (Figure 3-30)		

Table 3-17 Bluetooth Device Properties

Bluetooth Manager 🛛 ? OK 🗙
Scan Device
Enable Bluetooth Device
<u>S</u> can Device

Bluetooth Manager	?	OK	×		
Scan Device					
🔽 Enable Bluetooth D	Enable Bluetooth Device				
🕅 🔂 Unnamed (000272b0	2aa	3) 🖌			
🕷 🇞 Unnamed (000272b0	2aa	3) 🗍			
🗯 🕮 Unrained (000272b0	299	3)			
🖓 🚽 Unnamed (000272b0	2aa	3)			
🕅 🍽 🖓 Unnamed (000272b0	2aa	3) —			
🗰 🗑 Unnarned (000272b0	2aa	3)			
○★ ? MH01690 (0080371a)	88a	4)			
🕅 🕅 😳 THAU123 (UUBU3/1a	251	3) 🚬	-		
	-1	<u>}</u>			
<u>S</u> can Device					

Figure 3-25 Bluetooth Manager Window



Figure 3-27 Bluetooth Error Window



×

Figure 3-26 Bluetooth Manager Window



Figure 3-28 Bluetooth Manager Window

Bluetooth Manager	?	0K	×
Scan Device			
Enable Bluetooth D)evic	e	
🗯 🎒 Unnamed (0080371a	88a	4) 🔺]
🕂 🥂 🕐 CTV9U (0002720164	юa)		1
🔁 🤀 TRILLION (00027.2b0	1288	3)	
🦝 🏷 TRILLION (00027:260	12aa	3)	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○)2aa	3) 🛏	1
)2aa	3)	
🗰 🍊 TRILLION (00027:260	12aa	3)	
🦝 🗟 TRILLION (00027:260	12aa	3) 📮	-
	<u>~</u>	•	_
Scan Device			

Figure 3-29 Bluetooth Enter PIN Window

Figure 3-30 Bluetooth Manager Window