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## PACKAGE CONTENTS

- 1 PS700-LSR Scanner
- 1 Scanner to 9-pin Serial Cable
- 1 9-Pin Serial to RJ11 Adapter
- 1 Paper Clip
- 1 Instruction Manual

#### INTRODUCTION

The PS700-LSR Laser Scanner complies with Safety Standard IEC 60825-1 for a Class I Laser Product and with the Center of Devices and Radiological Health (CDRH) as applicable to a Class IIa Laser Product. <u>DO NOT STARE INTO THE SCANNER'S LASER.</u>

This manual primarily contains frequently-used bar codes for programming the scanner. The bar codes allow decoding options and interface protocols to tailor a specific application. The configuration is stored in non-volatile memory and will not be lost by unplugging the scanner. The scanner must be plugged into the cash register to receive power. During programming mode the scanner will acknowledge valid readings with a short beep and invalid readings with a long beep.

The PS700-LSR can connect to all Royal registers manufactured since 2005; however, some models require a brief initialization. A programmable bar code in this manual initializes the PS700-LSR so it can operate those registers. A list of models on page 4 helps identify which Royal registers require initialization and the adapter. A paper clip is included for detaching the cable from the scanner. Pull the paper clip apart and insert the point into the hole located near the connection. The point will press against the connector's tab releasing the cable from the scanner. For support, call Royal Support Center 800-272-6229.

### COMPATIBLE ROYAL REGISTERS

Model	Adapter Required	Initialization
220DX	Yes	No
240DX	Yes	No
Alpha583CX	No	Yes
Alpha1000ML	No	Yes
Alpha5000ML	Yes	No
TS1200MW	Yes	No

For Royal cash register models Alpha583CX and Alpha1000ML the PS700-LSR must be initialized before it is able to scan UPC codes. The procedure is outline here:

- Turn register power on
- Connect the PS700-LSR scanner to the register's serial port.
- Scan this bar code:



The scanner will function normally after initialization. The programming code is also located on page 12 titled "Add the suffix – Enter + Line Skip"

The PS700-LSR can connect to all discontinued Royal registers manufactured since 2005 that are scanner-connectable except for models Alpha8100ML and Alpha9500ML. Compatible models include:

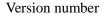
Alpha600SC	Alpha710ML	Alpha8000ML
Alpha601SC	Alpha850ML	TS4240

<u>All discontinued models require initialization</u>. Alpha8100ML and Alpha9500ML models accept Royal PS700-USB (no. 29499Y) only.

## SCANNER PROGRAMMING

# **Scanning Function 1**

Output Mode

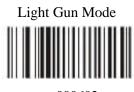




Keyboard Mode



000600



000602



Initialization



Serial Port Mode



000601





Buzzer



Sound Volume



014301



Power Saving Mode



01451

## **Scanning Function -2**

Front and Back of the Bar Code Image Setting

Enable Image



01391



01390

# **Add Bar Code Identification**

ID Before the Bar Code

Disable



01400

ID After the Bar Code



01401

Enable



Bar Code Reading and Toggle Modes Default Mode



013300

Press Delay Mode



013302

Automatic/Continuous Scan Mode



013304

Single Non-toggle Mode



Non-toggle Press Delay Mode



013303

Automatic Flicker Mode



013305

# Scanning Interface - Keyboard

PC Input Mode

Automatic Detection Mode



Transmission Speed - 0

0000000

Transmission Speed



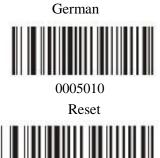
000204



English 0005000 French

0005009

Language Selection

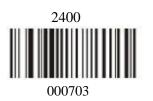




000502

Scanning Interface – Serial Port 1

Baud Rate









Handshake Protocol

None



Handshake Signal Time Reaction - 2s



0013020





Handshake Signal Time Reaction - 5s



0013050

# **Scanning Interface – Serial Port 2**

Data Bits



1 bit

00090



00080

Stop bits

2 bits



00091

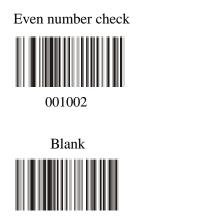
Check bits



001000

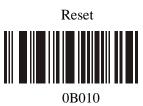
Odd number check





001004





# Setting of Barcode Symbol 1

CODE39

CODE11

Set ID Character of CODE11 as 'M'



0131M

Enable Multiple Verifications

For Decoding CODE11



01321

Set ID Character of CODE11 as 'Z'



0131Z

Disable Multiple Verifications For Decoding CODE11



01320

Directing Code-None



Lead the Character '+'



002704

Enable Transmission of CODE39



Set ID Character of CODE39 as 'A'



<sup>0031</sup>A

Disable Start/Stop Transmission of CODE39



Set ID Character of CODE39 as 'Z'



0031Z

Enable Multiple Verifications for

Decoding CODE39



Disable Multiple Verifications for Decoding CODE39

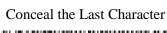
00330

**Edit the Setting Code** 

Remove Characters in Front of Characters 1 2 3 4 5



0200010100000010000000112345





Filter Blanks in Front of Barcode



020001030000032

Filter Blanks Behind Barcode



020001040000032



020000050000045









0B20002

Recover



0B20001

Recover



0B20001

1\_1 Stop Transmission Character



0B20000050000045



# Setting of Barcode Symbol 5

UPC /EAN

Set ID Character of UPC-E as 'C'



0050C

Set ID character of EAN-13 as 'E'



0051E

Set ID Character of EAN-8 as 'D'



0052D

Set ID Character of ISBN as 'F'



0053F

Disable Attached Code of UPC/EAN



00550

Add Five-bit Attached Code of UPC/EAN



Set ID Character of UPC-E as 'Z'



0050Z

Set ID Character of EAN-13 as 'Z'



0051Z

Set ID Character of EAN-13 as 'Z'



0052Z

Set ID Character of ISBN as 'Z'



0053Z

Add Two-bit Attached Code of UPC/EAN



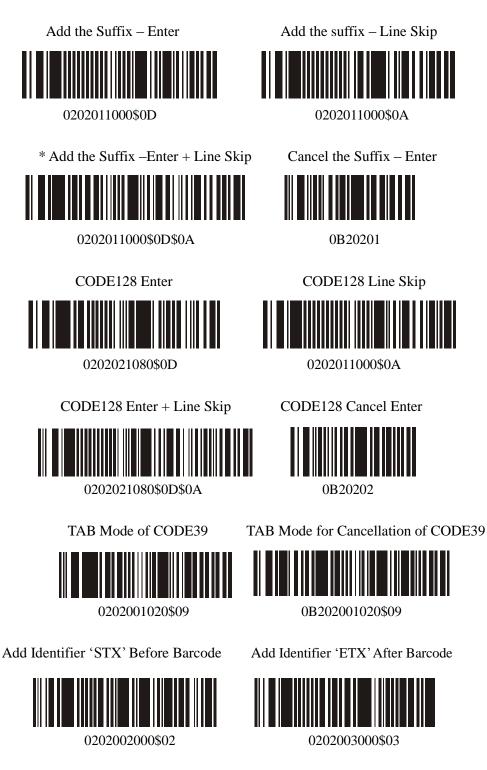
00551

Add Two-bit and Five-bit Attached Codes of of UPC/EAN



00553

## Setting Terminal Characters of the Barcode



\* - Initialization Code

#### WARRANTY -

Royal Consumer Information Products, Inc. warrants that your new PS700-LSR scanner is free of defects of workmanship and materials for a period of ONE year from date of purchase. This warranty does not apply to persons who purchased this product used or second-hand nor does it apply to cleaning, adjustments, parts, and repairs required by circumstances beyond the control of Royal including, but not limited to, fire or other casualty, accident, neglect, abuse, abnormal use, misuse, and exposure to liquids. There are no other expressed warranties except as stated herein. Royal shall not be liable for consequential damages resulting from failure, defect or malfunction of this product. Some states do not allow limitations on how long an implied warranty lasts and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above warranty may not apply to you. Please retain the original proof of purchase for your warranty records. Your warranty starts on the date of purchase. The warranty gives you specific legal rights and you may have other rights which vary from state to state. This warranty is valid on Royal products purchased, delivered and used in the United States and Canada only.

#### TO OBTAIN SERVICE UNDER THE TERMS OF THIS WARRANTY -

In a suitable carton, pack the scanner, receipt (for proof-of-purchase) and a note describing the problem you are experiencing. Be sure to include your name, address, and day-time phone number. Bring or ship, prepaid and insured via a traceable shipping method, the scanner to the nearest Royal Authorized Service Center (ASC). Contact the ASC before shipping the scanner by calling 800-272-6229 to locate one nearest you.

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