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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. DO NOT STARE INTO THE SCANNER'S LASER.

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

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

SCANNER PROGRAMMING

Scanning Function 1

Version number



0A

Initialization



0B

Output Mode

Keyboard Mode



000600

Serial Port Mode



000601

Light Gun Mode



000602

Reset



0B006

OCIA Mode



000603

MAC Mode



000604

Buzzer

Disable Sound



014200

Enable Sound



0B142

Sound Volume



014301

Power Saving Mode



01451

Scanning Function -2

Front and Back of the Bar Code Image Setting

Enable Image



01391

Disable Image



01390

Add Bar Code Identification

ID Before the Bar Code

Disable



01400

Enable



01401

ID After the Bar Code

Disable



0B140

Enable



01402

Bar Code Reading and Toggle Modes

Default Mode



013300

Single Non-toggle Mode



013301

Press Delay Mode



013302

Non-toggle Press Delay Mode



013303

Automatic/Continuous Scan Mode



013304

Automatic Flicker Mode



013305

Scanning Interface – Keyboard

PC Input Mode

Automatic Detection Mode



000200

Twice Scan Setting Mode



000204

Transmission Speed

Transmission Speed - 0



0000000

Transmission Speed - 25



0000025

Language Selection

English



0005000

German



0005010

French



0005009

Reset



0005025

Scanning Interface – Serial Port 1

Baud Rate

2400



000703

4800



000704

9600



000705

19200



000706

Handshake Protocol

None



001200

ON /OFF



001201

RTS/ CTS



01202

ACK /NAK



001203

Handshake Signal Time Reaction - 2s



0013020

Handshake Signal Time Reaction - 5s



0013050

Scanning Interface – Serial Port 2

Data Bits

8 bits



00081

00081

7 bits



00080

00080

Stop bits

1 bit



00090

2 bits



00091

Check bits

None



001000

Odd number check



001001

Even number check



001002

Mark check



001003

Blank



001004

Reset



0B010

Setting of Barcode Symbol 1

CODE11

Set ID Character of CODE11 as 'M'



0131M

Set ID Character of CODE11 as 'Z'



0131Z

Enable Multiple Verifications
For Decoding CODE11



01321

Disable Multiple Verifications
For Decoding CODE11



01320

CODE39

Directing Code-None



002700

Lead the Character '+'



002704

Enable Transmission of CODE39



00281

Disable Start/Stop Transmission of CODE39



00280

Set ID Character of CODE39 as 'A'



0031A

Set ID Character of CODE39 as 'Z'



0031Z

Enable Multiple Verifications for
Decoding CODE39



00331

Disable Multiple Verifications for
Decoding CODE39



00330

Edit the Setting Code

Remove Characters in Front of Characters 1 2 3 4 5



02000101000000100000000112345

Recover



0B20001

Conceal the Last Character



020002020000001

Recover



0B20002

Filter Blanks in Front of Barcode



020001030000032

Recover



0B20001

Filter Blanks Behind Barcode



020001040000032

Recover



0B20001

Transmit Character 



020000050000045

Stop Transmission Character 



0B20000050000045

Insert 0' in First Barcode Spot



020000060000000048

Recover



0B200000600000000048

Setting of Barcode Symbol 5

UPC /EAN

Set ID Character of UPC-E as 'C'



0050C

Set ID Character of UPC-E as 'Z'



0050Z

Set ID character of EAN-13 as 'E'



0051E

Set ID Character of EAN-13 as 'Z'



0051Z

Set ID Character of EAN-8 as 'D'



0052D

Set ID Character of EAN-13 as 'Z'



0052Z

Set ID Character of ISBN as 'F'



0053F

Set ID Character of ISBN as 'Z'



0053Z

Disable Attached Code of UPC/EAN



00550

Add Two-bit Attached Code of UPC/EAN



00551

Add Five-bit Attached Code
of UPC/EAN



00552

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



00553

Setting Terminal Characters of the Barcode

Add the Suffix – Enter



0202011000\$0D

Add the suffix – Line Skip



0202011000\$0A

* Add the Suffix –Enter + Line Skip



0202011000\$0D\$0A

Cancel the Suffix – Enter



0B20201

CODE128 Enter



0202021080\$0D

CODE128 Line Skip



0202011000\$0A

CODE128 Enter + Line Skip



0202021080\$0D\$0A

CODE128 Cancel Enter



0B20202

TAB Mode of CODE39



0202001020\$09

TAB Mode for Cancellation of CODE39



0B202001020\$09

Add Identifier 'STX' Before Barcode



0202002000\$02

Add Identifier 'ETX' After Barcode



0202003000\$03

* - 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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