

XE-A147 SD Card PC-Link Programming Software for:

XE-A147BK / XEA147WH



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1. Outline

This software allows editing and storage of preset data from an XEA147. The data is transferred to and from the XEA147 via SD Card.

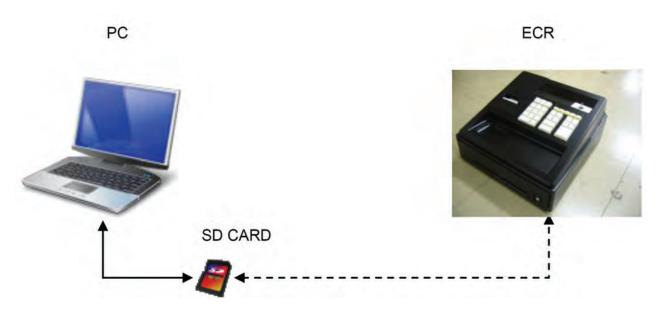
2. System Requirements

| Operating System: | Windows XP Professional (Service Pack 3, 32-bit edition) Windows Vista Ultimate (Service Pack 2, 32-bit edition or 64 bit edition) Windows 7 Ultimate (32-bit edition or 64 bit edition) |
|-------------------|---|
| | (32-bit edition or 64 bit edition) |

| Runtime Environment: | .NET Framework version 3.5 or later must be installed. |
|----------------------|--|
| | |

3. System Configuration

This software works under the following system configuration.



Data is saved to the SD Card on the ECR. This data can be loaded to the PC-Link software on a PC for editing, and storage.

Data edited on with PC-Link on the PC can be saved to the SD Card and loaded into the XEA147 with the SD Card.

4. Functions

The table below sets out the functions of the XEA147 SD Card PC-Link

4.1 Setting and Communication Functions:

| DATA | FUNCTION | DIRECTION | MEDIA | FILE NAME |
|----------------|------------|-----------|---------|-----------|
| DEPT | DATA ENTRY | 1 A | | |
| (Department) | IMPORT | SD -> PC | SD CARD | DEPTDT |
| | EXPORT | PC -> SD | SD CARD | DEPTDT |
| PLU | DATA ENTRY | | | |
| | IMPORT | SD -> PC | SD CARD | PLUDT |
| | EXPORT | PC -> SD | SD CARD | PLUDT |
| LOGO | EXPORT | PC -> SD | SD CARD | TMLOG1TB |
| (Graphic logo) | | | | |
| LOGO TEXT | DATA ENTRY | | | |
| | IMPORT | SD -> PC | SD CARD | LOGODT |
| | EXPORT | PC -> SD | SD CARD | LOGODT |
| TAX | DATA ENTRY | 11. | | |
| (VAT/TAX rate) | IMPORT | SD -> PC | SD CARD | TAXTB |
| | EXPORT | PC -> SD | SD CARD | TAXTB |
| VAT ID | DATA ENTRY | | 122.000 | 1.1 |
| | IMPORT | SD -> PC | SD CARD | VATIDTB |
| | EXPORT | PC -> SD | SD CARD | VATIDTB |

DATA

The data of setting

FUNCTION

The following data can be controlled.

| Function | the second second design of the second design of the | |
|------------|--|--|
| DATA ENTRY | Add, delete ,edit, store, read the data Please refer Data Control Function. | |
| IMPORT | Read the data from SD CARD. | |
| EXPORT | Write the data onto SD CARD. | |

DIRECTION

The direction of data movement.

MEDIA

The media for each function.

4.2 Plural data set management.

The SD Card PC-Link for XEA147 can keep data sets for different XEA147 presets by saving data in different directories.

5. Installation

The XEA147 SD Card PC-Link is installed by extracting the contents of XEA147PCLink.zip. There is no installer programme required. The XEA147PCLink.zip file contains the following files:

List of Programme Files

| PC-LINK_A147V. exe |
|--------------------------|
| CustomControlLibrary.dll |
| ECR_Lib.dll |
| EcrDataCtrl.dll |
| ELMid.dll |
| pictcnv.dll |
| logoconv.ini |
| logo/blank.bmp |
| charTable.ini |

The XEA147 SD Card PC-Link is launched by running: PC-LINK_A147.exe

Place a shortcut to this file on your PC's desktop for convenience.

6. Each Function

6.1. Start Up

When the PC-LINK_A147.exe file is run, the data which was saved when the file was last run is loaded.

If there is no ECR data on the PC, default data is set, as per the table below:

| Item | Default |
|-----------|---|
| DEPT | Generate default data. (Dept code 1-8 : The default value is: see MRS of Specification "chapter 6") |
| PLU | PLU is not created. |
| LOGO | No default data |
| LOGO TEXT | All text are filled by space. |
| VAT ID | 0 |

The Dept screen is always displayed just after start up.

It is not possible to run more than one instance of the XEA147 SC Card PC-link on the PC.

| PC-LINK for XE-A137/A147 | |
|--|--------------------------------|
| File(<u>E</u>) Record(<u>R</u>) About(<u>A</u>) | |
| DEPT PLU LOGO LOGO TEXT TAX VAT | D |
| and the second | PRICE |
| 01 DEPT.01 02 DEPT.02 | 0.00 0.00 |
| 03 DEPT.03 04 DEPT.04 | 0.00 0.00 |
| 05 DEPT.05 06 DEPT.06 | 0.00 0.00 |
| 07 DEPT.07 | 0.00 |
| 08 DEPT.08 | 0.00 |
| TEXT(I): | PROGRAM |
| DEPT.01 | Amount Entry Type(<u>M</u>): |
| PRICE(<u>P</u>) | Sales Type(<u>S</u>): |
| 0.00 MINUS (N) | NORMAL O SICS |
| | |
| ✓ Tax1(1) Tax3(3) | HALO(<u>H</u>): 8 |
| Tax2(<u>2</u>) Tax4(<u>4</u>) | |
| | |
| | |
| | |
| | |
| | |
| DEPT CODE | |
| 01 | |
| | |
| | Get from SD Send to SD |
| | Get from SD Send to SD |

Termination:

At programme termination ECR data is saved automatically into a folder that has been preselected. The SC Card PC-Link's window size and position is saved. The window will be shown in the same position when it is next opened.

6.2 Menu Bar

The Menu Bar's functions are listed in the table below:

| | Title | List | Contents |
|---|--|--------------------------|--|
| 1 | File(F) | Open (0) | You can select the folder which the data base are stored. |
| | | All to SD/All from SD(T) | Control SD data: Export and Import ECR data into/from SD card. |
| | | Setting(S) | You can set general setting of this software, |
| | | Exit(X) | Terminate the software. |
| 2 | Record (R) | New(N) | You can add new PLU. |
| | | Delete(D) | You can delete PLU. |
| 3 | 3 About(A) This shows software name and version informatio | | |

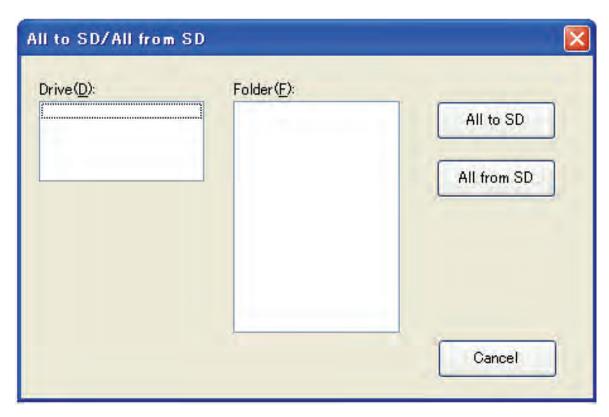
6.3 File

| | File(<u>F</u>) | Becord(P) About(A) | | |
|--|------------------|------------------------------|-----|--------|
| Number of Street, Stre | | en@) to SD/All from SD(T) | TAX | VAT ID |
| | Set | ting (<u>S</u>) | | - |
| | Exi | t⊗ | | |

The File menu can be opened when any programme TAB is open.

The File menu options are:

Open: Load ECR data from a selected folder. The selected folder is set as the current DATA FOLDER.



All to SD/All from SD: The window shown below when you select this File menu item.

The following functions can be executed from this window:

| Button | Functionality |
|-------------|--|
| All to SD | Programming data is saved into specified folder on SD CARD. |
| All from SD | Programming data is loaded from specified folder on SD CARD. |

<u>All to SD</u>: DEPT, PLU TAX, LOGO TEXT, and LOGO data are saved to the SD Card If no record is displayed on the DEPT tab, then no DEPT data are saved If no record is displayed on the PLU tab, then no PLU data are saved If no record is displayed on the LOGO tab, then no LOGO data are saved

All from SD: DEPT, PLU, TAX, and LOGO TEXT are loaded from the SD Card

| All to SD/All from S | D | × |
|----------------------|------------------------|-------------|
| Drive(<u>D)</u> : | Folder(E): ECRXXX14 | - |
| G | | All to SD |
| | | All from SD |
| | | |
| | | |
| | | |
| | | Cancel |

All to SD operation: Please follow the steps below to execute the All to SD operation.

6.4 Select the SD Card Drive

Select "ECRXXX14" this is the directory created on the SD card by the XEA147. Then click "All to SD" button

| PC-LINK | for XE-A13 | 87/A147 | X |
|---------|-------------|-----------------|--------|
| 1 | Do you want | : to execute e: | kport? |
| | Yes (| No | |

| All to SD/All from S | | × |
|------------------------------|------------------------|-------------|
| Drive(<u>D</u>): C G | Folder(E): ECRXXX14 | All to SD |
| | | All from SD |
| | | |
| | | |
| | | Cancel |

All from SD operation: Please follow the steps below to execute the All from SD operation.

- a. Select the SD Card Drive
- b. Select "ECRXXX14" this is the directory created on the SD card by the XEA147
- c. The click "All from SD" button

| PC-LINK for | XE-A1 | 37/A147 | X |
|-------------|-----------|--------------|---------|
| Do |) you wan | t to execute | import? |
| <u>Y</u> e | s (| No | |

<u>Setting</u>: The following window is shown when you select the Setting option on the file menu.

| Setting | × |
|---|---|
| Data Folder(E): Documents and Settings\User Name\SHARP_ECR\A | |
| | |
| OK Cancel | |

You may set the Data Folder path as follows:

| Group | Item | Explanation | Default Value |
|----------------|------|------------------------------------|---------------|
| Data Folder(F) | | Data folder to save each data set. | (*1) |

(*1) XP:Documents and Settings\(user name)\My Documents\SHARP_ECR\A147V\SHOP_NAME1 Vista: Users\(user name)\Documents\SHARP_ECR/A147V\SHOP_NAME1 Windows 7: Users\(user name)\Documents\SHARP_ECR/A147V\SHOP_NAME1

Exit: Close down the SD Card PC-Link software.

6.5 Record

This menu item is used when the PLU tab is selected. It allows for creation and deletion of PLU records.



<u>New</u>: Use this Record menu option to create a new PLU record.

A code entry window when this Record menu option is selected.

| PLU Code | |
|-----------------------|--------|
| PLU Code(<u>C)</u> : | |
| | |
| OK | Cancel |

If [OK] is clicked a new PLU record is created with the following data:

| Group | ltem | | Value |
|---------|-------------------|--------|--------------|
| TEXT | | | PLU. xxx |
| PRICE | | | 0 |
| PROGRAM | Dept No. | | 1 |
| | Amount Entry Type | OPEN | Not selected |
| | | PRESET | Selected |

If the code already exists, the error message: "Already same PLU code exists." is displayed.



Delete: Deletes the selected PLU record



6.6 About

This menu item can be accessed whichever Tab is selected.

A window which shows the software name and version information is displayed.

| About PC-LINK | X |
|------------------------------------|---|
| PG-LINK for XE-A137/A147 | |
| Version 1.0.0.0 | |
| Copyright @ 2012 SHARP CORPORATION | |
| ОК | |

6.7 Department Programming

Click on the DEPT tab to access the department programming form.

| B PC-LINK for XE-A137/A147 | |
|--|--|
| File(E) Recording About(A) | |
| DEPT PLU LOGO LOGO TEXT TAX | VAT ID |
| CODE TEXT 01 DEPT.01 02 DEPT.02 03 DEPT.03 04 DEPT.04 05 DEPT.05 06 DEPT.07 08 DEPT.08 | PRICE 10,00 0,50 -0,50 -10,00 0,00 0,00 0,00 0,00 |
| TEXT(1): DEPT.01 PRICE(P) 10,00 MINUS (№) TAXABLE ✓ Tax1(1) Tax3(3) ☐ Tax2(2) Tax4(4) | PROGRAM Amount Entry Type(M): ♥ OPEN ♥ PRESET Sales Type(S): ● NORMAL ● SICS HALO(H): 8 |
| DEPT CODE | Get from SD Send to SD |

Screen Construction:

The DEPT tab is constructed of 2 panes Pane A shows the list of departments Pane B shows detail of the currently selected department.

The number of departments is fixed. You cannot add or delete departments.

Programming Department Details:

The table below shows the department details that can be programmed.

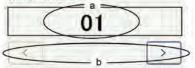
| Item | Explanation |
|-------------------|--|
| Text | Max 12 characters can be entered. |
| Price | Max 8 digits can be entered. Tab position is determined by regional setting of Windows. |
| MINUS | Please check this box if the department is minus department. |
| Taxable | Maximum 4 taxable can be set. Please check the taxable number that should be set. |
| Amount Entry Type | You can choose "OPEN" and "PRESET". If you check both of "OPEN" and "PRESET", it means "OPEN&PRESET" If both checks are excluded, it means "INHIBIT" |
| Sales Type | "NORMAL", "SICS" can be selected. |
| HALO | Range is from 0 to 8. |

Selecting A Department:

The table below shows the ways you can select a department:

| Method | Operation |
|-------------------------------------|---|
| By selecting from list | Click the department on the list(Pane A). |
| By entering department code | Click the department code (See below, "a" is department code display.) then code entry window comes up. Enter department code. |
| By increasing/decreasing operation. | See below, "b" is increase/decrease button. Click "<" to select smaller code from current code. Click ">" to select bigger code from current code. |

DEPT CODE



| and server | |
|----------------|--------|
| DEPT. Code(C): | |
| | 8 |
| ок | Cancel |

Department Data Transmission to or from the SD Card:

Department data transmission to, or from the SD card, is started by clicking "Get from SD" or "Send to SD"

| Button | Functionality | |
|-------------|---|--|
| Get from SD | Import all department preset data from SD card. | |
| Send to SD | Export all department preset data to SD card. | |

| Get from SD | | X |
|---------------------|------------------------|--------|
| Drive(D): C G | Folder(E): ECRXXX14 | |
| | OK. | Cancel |

| Send to SD | | X |
|------------------------------|-----------------------|--------|
| Drive(<u>D</u>): C G | Folder(E): ECRXX14 | |
| | OK. | Cancel |

6.8 PLU Programming

Click on the PLU tab to access the PLU programming form.

| BO-LINK for XE-A137/A147 | | |
|-----------------------------|-----------------------------|-----|
| File(E) Record(B) About(A) | | |
| DEPT PLU LOGO LOGO TEXT TAX | VAT ID | |
| CODE TEXT | PRICE |) |
| 001 PLU.001 002 PLU.002 | 0,00 | |
| 003 PLU.003 004 PLU.004 | 0,00 | A |
| 005 PLU.005 | 0.00 | |
| 006 PLU.006 007 PLU.007 | 0,00 0,00 | |
| 008 PLU.008 TEXT(T): | 0,00 PROGRAM | 2 |
| PLU.001 | Dept No.(D): 1 | |
| 120.001 | | |
| PRICE | Amount Entry Type(M): OOPEN | |
| Price(<u>P</u>): 0,00 | PRESET | |
| | | |
| | | |
| | | |
| | | |
| | | > в |
| | | |
| | | |
| PLU CODE | | |
| 001 | 7 | |
| 001 | | |
| × > | | |
| | Get from SD Send to SD | |
| | | |
| | | |

Screen Construction:

The PLU tab is constructed in 2 panes. Pane A shows the list of PLUs. Pane B shows the detail of the selected PLU.

Programming PLU details:

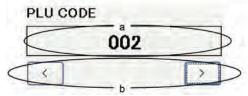
The table below shows the PLU details that can be programmed.

| Item | Explanation | |
|--|--|--|
| Text Max 12 characters can be entered. | | |
| Price | Max 8 digits can be entered. Tab position is determined by regional setting of Windows. | |
| Dept. No. | ept. No. 1 - 8 can be entered. | |
| Amount Entry Type | e "OPEN", "PRESET" can be selected. | |

Selecting a PLU:

The table below shows the ways you can select a PLU.

| Method | Operation |
|------------------------------------|--|
| By selecting from list | Click the PLU on the list (Pane A). |
| By entering PLU code | Click the PLU code (See below, "a" is PLU code display.) then code entry window comes up. Enter PLU code. |
| By increasing/decreasing operation | See below, "b" is increase/decrease button. Click "<" to select smaller code from current code. Click ">" to select bigger code from current code. |



Creating a PLU code:

The table below shows the ways you can create a PLU code.

| Method | Operation |
|-------------------------------|--|
| From context menu on the list | Somewhere on Pane A, click the right mouse button to open shortcut menu. Then select "New" on the shortcut menu. Code entry window comes appear. Enter PLU code. |
| From menu bar | Select "Exec" menu on the menu bar, Select "New" in "Record" menu Gode entry window comes appear. Enter PLU code. |

(Available number is 1 to 200.)

(Available number is the number which does not exist in PLU file.)

Deleting a PLU code:

The table below shows the ways you can delete a PLU code.

| Method | Operation |
|-------------------------------|---|
| From context menu on the list | Select the PLU code which is to delete on the Pane A. Click the right mouse button on the Pane A to open shortcut menu. Then select "Delete Record" on the shortcut menu. Confirmation dialog comes appear and select "YES", then assigned PLU code is deleted. |
| From menu bar | Select the PLU code which is to delete on the Pane A. Select "Exec" menu on the menu bar. Select "Delete in "Record" menu. Confirmation dialog comes appear and select "YES", then assigned PLU code is deleted. |

PLU Data Transmission to or from the SD Card:

PLU data transmission to, or from the SD card, is started by clicking "Get from SD" or "Send to SD"

| Button | Functionality | |
|-------------|--|--|
| Get from SD | Import all PLU preset data from SD card. | |
| Send to SD | Export all PLU preset data to SD card. | |

6.9 LOGO programming (Graphical Logo)

A graphical logo can be downloaded from the LOGO tab.

| PC-LINK for XE-A137/A147 | |
|--|--------------------|
| File(E) Record(R) About(A) | |
| DEPT PLU LOGO LOGO TEXT TAX VAT ID | |
| HEADER LOGO | |
| YOUR RECEIPT | |
| THANK YOU | |
| IMAGE FILE(]): G:\XEA147PCLink\logo\graphic.logo.bmp | Select(<u>S</u>) |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | Send to SD |
| Graphical picture data : 360(w) x 130(h) pixels Type: monochrome(black/white) File Type: BMP | |
| | |
| | |
| File Type: BMP | |

Screen Construction:

This tab is constructed with only Graphical Logo image file select, and Send to SD Card.

Programming Graphic Logo image:

The XEA147 SC Card PC-Link does not support creation and editing of Graphical Logo data. The LOGO image must be created with a graphics tools such as Paint.exe. The graphical logo file must be a monochrome bitmap of exactly 360 pixels wide, and 130 pixels high. No other settings can be used. Invalidly set-up files cannot be sent to the SD Card for transfer to the XEA147.

Specification of Graphical Logo Bitmap:

The table below sets out the specification for the Graphical Logo bitmap.

| Color | Monochrome (Black and White) | |
|-------|------------------------------|---|
| Size | Width 360pixel | - |
| | Height 130 pixel | |

If assigned Bitmap does not satisfy above requirement, error message will be shown.

Selection of Graphical Logo Data:

The table below shows the ways you can select the Graphical Logo data file.

| Method | Operation | |
|-----------------------|---|--|
| By entering file path | Enter or select location of logo data file. | |
| By Drag & Drop | Logo data can be set by Drag & Drop operation into C area. (See screen sample of previous page.) | |

Data Transmission:

Data transmission can be made by clicking "Send to SD"

| Button | Functionality | |
|------------|------------------------------|---|
| Send to SD | Export logo data to SD card. | - |

6.10 LOGO text programming

Click the LOGO TEXT tab to access LOGO text programming. You can enter your store details such as address, and ABN here.

| The second secon | |
|--|------------|
| File(E) Record(R) About(<u>A)</u> | |
| DEPT PLU LOGO LOGO TEXT TAX VAT ID | |
| LOGO TEXT | |
| 123456789012345678901234567890 | |
| 1 Sharp XEA147 Cash Register | |
| 2 Sharp Corporation of Australia 3 1 Huntingwood Drive | |
| 4 HUNTINGWOOD NSW 2148 | |
| 5 ABN: 40 003 039 405 | |
| 6 <u>T_A_X_I_N_V_O_I_C_</u> E | |
| | |
| | |
| Get from SD | Send to SD |
| | |
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| | |

Screen Construction:

The LOGO TEXT tab only allows for entry of LOGO text.

Programming LOGO text details:

The table below shows the specification for the LOGO text.

| Item | Explanation | | | | | | |
|-----------|---|--|--|--|--|--|--|
| Logo Text | 30characters / line and Max. 6lines of Logo text can be programmed. | | | | | | |

Data transmission:

Data transmission of LOGO text to or from the SD Card can be made by clicking "Get from SD" or "Send to SD".

| Button | Functionality | | | | | |
|-------------|---|--|--|--|--|--|
| Get from SD | Import all Logo text data from SD card. | | | | | |
| Send to SD | Export all Logo text data to SD card. | | | | | |

6.11 GST rate programming

GST rate programming is available on the TAX tab.

| 8 | PC-LINK | for XE-A137/A | 147 | | | | X |
|---|--------------------|-------------------------|--------------|--------------|-------------------|------------|-----|
| | File(<u>E)</u> Re | ecord(<u>R</u>) About | (<u>A</u>) | | | | |
| D | EPT PLU | LOGO LOGO T | EXT TAX | VAT ID | | | |
| | TAX | TAX RATE | LOWERTA | | | | |
| | 2 | 10.0000 0.0000 | | 0.00 0.00 | | | |
| | 3 4 | 0.0000 0.0000 | | 0.00 0.00 | | | |
| | 1 | 0.0000 | | 0.00 | | | |
| | | | | | | | |
| | | | | | | | |
| | | ·/T) | | | | \ | |
| | TAX RATE | | | | LOWER TAX LIMIT(L | | |
| | | 10.00 | 00 | | | 0.00 | |
| | | 📃 Minus | | | | | |
| | | | | | | | |
| | TAX N | IO | 1 | | | | |
| | | | | ſ | | | ר ו |
| | | | | | Get from SD | Send to SD | |
| | | | | l | | | J |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Screen Construction:

The TAX tab is only used for GST rate entry.

Programming GST rate details:

The table below lists the details which can be programmed on the TAX tab.

| Item | Explanation | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|
| Tax rate | 3 digits integer + 4 digits decimal can be programmed for each rate. Rate range is from 0 to 100.0000. Minus sign can be programmed. | | | | | | | |
| Lower Tax Limit | Max 5 digits value can be programmed. | | | | | | | |

Data transmission:

Data transmission of TAX rate settings to or from the SD Card can be made by clicking "Get from SD" or "Send to SD".

| Button | Functionality | |
|-------------|---------------------------------------|--|
| Get from SD | Import TAX setting data from SD card. | |
| Send to SD | Export TAX setting data to SD card. | |

6.12 VAT ID

The VAT ID tab is not used in Australia.

| 😽 PC-LINK for XE-A137/A147 | | |
|---|-----------------------|------------|
| File(E) Record (E) About (A) | | |
| DEPT PLU LOGO LOGO TEXT TAX | VAT ID | |
| VAT ID | | |
| 0 | | |
| | Get from SD | Send to SD |
| | | |
| | | |
| | | |
| | | |
| | | |
| VAT ID is only for Sweden, Netherland and | l Norway fiscal mode. | |
| | | |
| | | |

7. Data Transmission

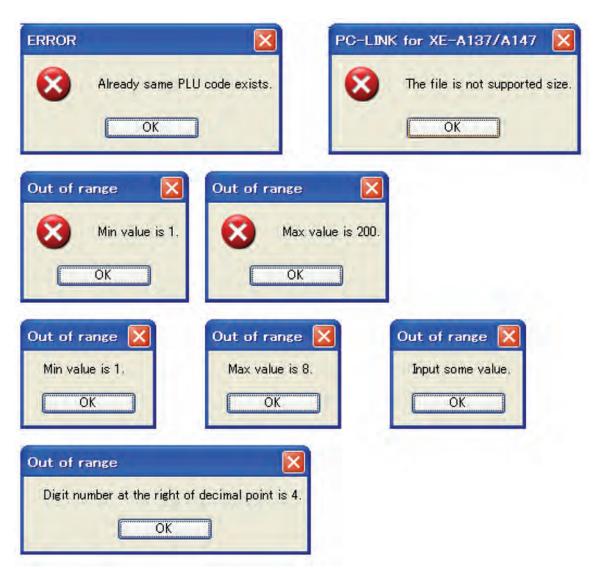
The XEA147 SC Card PC-Link does not support RS232C communication with the XEA147 cash register.

8. Display Samples

There is no display indication when data is transmitted to or from the SD card. There are error messages if the transmission is not successful. They are shown below:

| PC-LINK | <pre>< for XE-A137/A147 X</pre> | PC-LINK for XE-A137/A147 🔀 |
|---------|------------------------------------|----------------------------|
| 8 | Failed in export. | Failed in import. |
| | OK | ОК |

There are also error messages if you enter data that is invalid. Samples are shown below:



9. Available Characters

The following table sets out the characters which are available for use with the XEA147 SD Card PC-Link. These characters are converted to those that the XEA147 uses when exported to the SD Card for loading into the XEA147. The table shows the PC code for a character and the XEA147's equivalent.

| CR | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 |
|----|------------------|------------------|-------------|--|------|-------------|---------------|----------|------|-------|------------|------|------|---------|-------------|------|
| | | 1 | " | # | \$ | % | & | 1 | (| | * | + | | - | | 1 |
| PC | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 002A | 002B | 002C | 002D | 002E | 002F |
| CR | 048 | 049 | 050 | 051 | 052 | 053 | 054 | 055 | 056 | 057 | 058 | 059 | 060 | 061 | 062 | 063 |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | | < | = | > | ? |
| PC | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 003A | 003B | 003C | 003D | 003E | 003F |
| CR | 064 | 065 | 066 | 067 | 068 | 069 | 070 | 071 | 072 | 073 | 074 | 075 | 076 | 077 | 078 | 079 |
| | 0 | A | В | C | D | E | F | G | H | I | J | K | L | M | N | 0 |
| PC | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 004A | 004B | 004C | 004D | 004E | 004F |
| CR | 080 | 081 | 082 | 083 | 084 | 085 | 086 | 087 | 088 | 089 | 090 | 091 | 092 | 093 | 094 | 095 |
| | P | Q | R | s | T | U | v | W | x | Y | z | C | 1 | 1 | • | - |
| PC | 0050 | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 005A | 005B | 005C | 005D | 005E | 0020 |
| CR | 096 | 097 | 098 | 099 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 |
| | | a | b | C | d | e | f | g | h | i | 1 | k | 1.00 | m | n | 0 |
| PC | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 006A | 006B | 006C | 006D | 006E | 006F |
| CR | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 |
| | | | r | S | t | u | V | W | X | y | Z | 1 | 1 | 1 | ~ | 0 |
| PC | p 0070 | q 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | 0078 | 0079 | 007A | 007B | 007C | 007D | 007E | 2302 |
| CR | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 |
| - | Ç | a | é | â | ä | à | å | | ê | ë | è | ĩ | Î | Ì | Ä | Å |
| | | A CONTRACTOR | 0.00 | and the second s | | | 1.1.1.1.1.1.1 | Ç | | 1.1.2 | A STATE OF | | | | | |
| PC | 00C7 144 | 00FC | 00E9 146 | 00E2 147 | 00E4 | 00E0 149 | 00E5 | 00E7 | 00EA | 00EB | 00E8 | 00EF | 00EE | 00EC | 00C4 158 | 0005 |
| UN | É | | | | | | | | | Ö | Ü | | £ | Ø | | f |
| | | æ | Æ | Ô | Ö | ò | ۵ | ù | 9 | | | Ø | 1.00 | 7.5 | × | |
| PC | 0009 | 00E6 | 0006 | 00F4 | 00F6 | 00F2 | 00FB | 00F9 | 00FF | 00D6 | 00DC | 00F8 | 00A3 | 00D8 | 00D7 | 0192 |
| CR | 160 | 161 | 162 | 163 | 164 | 165 | 166 a | 167 o | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 |
| | á | 1 | Ó | ú | ñ | Ñ | | | i | 8 | č | 1/2 | 1/4 | i i | « | > |
| PC | 00E1 | OOED | 00F3 | 00FA | 00F1 | 00D1 | AA00 | 00BA | 00BF | 00AE | 010D | 00BD | 00BC | 00A1 | 00AB | 00BB |
| CR | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 |
| | * | 1 | | | ď | Á | Â | À | 0 | ĕ | | ň | Ř | ¢ | ¥ | Š |
| PC | 2591 | 2592 | 2593 | 2502 | 010F | 00C1 | 00C2 | 0000 | 00A9 | 0115 | 2551 | 0148 | 0159 | 00A2 | 00A5 | 0161 |
| CR | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 |
| | ť | ů | ž | č | - | Ď | ã | Ã | Ě | Ň | Ř | Š | Ť | - | Û | a |
| PC | 0165 | 016F | 017E | 010C | 2500 | 010E | 00E3 | 00C3 | 011A | 0147 | 0158 | 0160 | 0164 | 2550 | 016E | 00A4 |
| CR | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 |
| | ð | Ð | Ê | Ë | È | € | Í | Î | Ï | Ž | F | | | | ì | 122 |
| PC | 00F0 | 00D0 | ODCA | 00CB | 00C8 | 20AC | 00CD | 00CE | 00CF | 017D | 250C | 2588 | 2584 | 00A6 | 00000 | 2580 |
| CR | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 |
| | Ó | ß | Ô | Ò | õ | Õ | μ | þ | Þ | Ú | 0 | Ù | ý | Ý | 5 | 1 |
| PC | 00D3 | 00DF | 00D4 | 00D2 | 00F5 | 00D5 | 00B5 | OOFE | OODE | 00DA | 00DB | 00D9 | 00FD | 00DD | 00AF | 00B4 |
| CR | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 |
| | 1 | ± | = | 3/4 | 1 | ş | ÷ | 15 | • | | | 1 | 3 | 2 | | (DC |
| | | - | 120 | 14 | | 3 | 1.07 | 1.10 | | | 201 | | 1 | 1. C.C. | | |
| PC | 00AD | 00B1 | 003D | OOBE | 00B6 | 00A7 | 00F7 | 00B8 | 00B0 | 00A8 | 00B7 | 00B9 | 00B3 | 00B2 | 25A0 | 005F |

The 3 digit code is the XEA147 code. The 4 digit code is Unicode used by the XEA147 SD Card PC-Link. (DC) stands for Double Size (width) Character. The DC character in the XEA147 SD Card PC-Link will be shown as an underscore '_'. An underscore from the XEA147 will be shown as a space in the XEA147 SD Card PC-Link. This means: an underscore entered into the XEA147 SD Card PC-Link is converted to a space when it is exported to the SD Card, and a DC character is converted to underscore and character when it is imported from the SD card to the XEA147 SD Card PC-Link. For example a DC letter T, will display as '_T' in the XEA147 SC Card PC-Link.

10. List of Messages

Below is a list of messages that can be displayed by the XEA147 SD Card PC-Link.

| User folder cannot be added. | |
|---|-------------|
| Application error. ({x}) | |
| BMP file has too much black. Reduce the black to under 35% of | total area. |
| The file doesn't exist, or path is illegal. | |
| The file is not bitmap file. | |
| The file is not found. | |
| The file format is not supported color. | |
| The file is not supported size. | |
| Failed to save the file. Do you want to exit PC-LINK? | |
| Input the folder path. | |
| Folder cannot be make. | |
| PC-LINK for XE-A137/A147 has already started. | |
| Export folder is not specified. | |
| Import folder is not specified. | |
| Picture convert DLL is not found. | |
| Already same PLU code exists. | |
| The file cannot be preserved. | |
| Failed in export. | |
| Failed in import. | |
| Do you want to change this setting? | |
| Do you want to execute export? | |
| Do you want to execute import? | |
| ERROR | |
| Do you want to load data from the new folder? | |
| Do you want to delete the PLU Code? | |
| Max value is {x}. | |
| Min value is {x}. | |
| Digit number at the right of decimal point is {x}. | |
| Out of range | |
| Input some value. | |
| XML file is broken. PC-LINK operates in the initial state. | |
| Invalid PLU code | |
| VAT ID is only for Sweden, Netherland and Norway fiscal mode. | |

11. Restrictions

The following operations are restricted and cannot be performed.

- 1. Power standby is disabled during data transmission to or from the SD Card. The Windows stand-by function is disabled during data transmission to or from the SD Card.
- 2. Graphical Logo data must meet the following specification.

The graphical logo height in pixels must be exactly 130 pixels The graphical logo width in pixels must be exactly 360 pixels The graphical logo must be a monochrome bitmap. Gray scales cannot be used. Black must be less than 35% of the total area of the graphical logo (360 x 130). If the number of dots in a rectangle, like the one shown below, is more than 55% of the total length of the graphical logo, its total black area must be less than 30% of the total area of the rectangle.

| 6dot 6dot | • | Black area in this rectangle area must be under 30%. |
|--------------|---|--|
| | | |

If your graphic logo data has a total black area of 35% or greater, or has a rectangle of the type shown above which is more that 55% of the width of the graphical logo (360), and has a black area greater than 30% of its area, the error message shown below will be seen.

| | Message | |
|------------------------|---------|--|
| The file is duty over. | | |



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SHARP CORPORATION OF AUSTRALIA Pty Ltd 1 Huntingwood Drive, Huntingwood NSW 2148

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