XE-A207W/A207B/A217W/A217B/A307

European version

PC-LINK Specifications

(Subject to change for improvement)

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SHARP CORPORATION

BUSINESS SOLUTIONS PROMOTION GROUP

SYSTEM EQUIPMENT DIVISON

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1 Outline

This software edit and keep the various preset data for ECR (XE-A207, XE-A217, XE-A307). <2
The data are exchanged to ECR via RS232 or SD Card. <2

* XE-A207 means XE-A207W and XE-A207B. <2
* XE-A217 means XE-A217W and XE-A217B. <2

2 System Requirements

2.1 Operating System

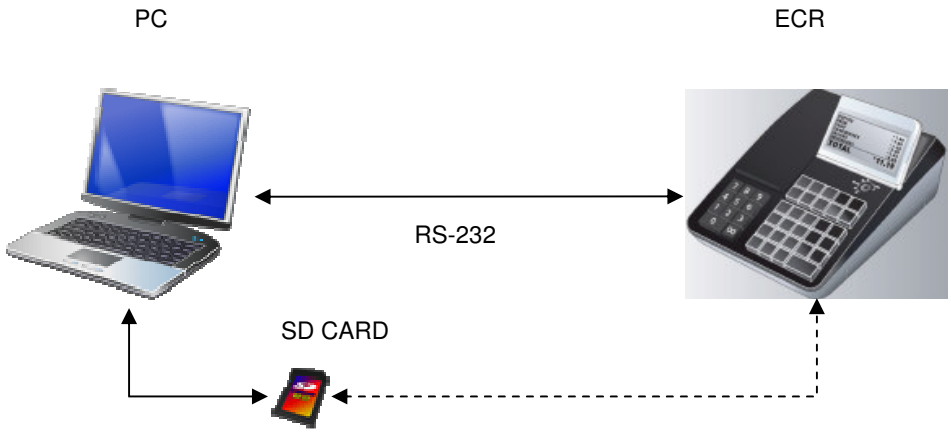
Windows XP Professional SP3 (32-bit edition)
Windows Vista Ultimate SP2 (32-bit edition / 64-bit edition) <1
Windows 7 Ultimate (32-bit edition / 64-bit edition)

2.2 Runtime Environment

.NET Framework 3.5 or upper version is necessary.

3 System Configuration

This software is working under following system configuration.



In case of RS-232, it can read and write ECR data directly by cable connection between ECR and PC
In case of SD Card, the data which can be read and write on ECR/POS are stored on SD Card.
The data is exchanged by the SD Card function of ECR/POS.

The software provide above communication function and data read/write function.

4 Functions

This software have following functions.

4.1 Setting and communication function

207	217	307	DATA	FUNCTION	DIRECTION	MEDIA	FILE NAME
			DEPT (Department)	DATA ENTRY			
				UPLOAD	ECR -> PC	RS-232	
				DOWNLOAD	PC -> ECR	RS-232	
				IMPORT	SD -> PC	SD CARD	DEPTDT
				EXPORT	PC -> SD	SD CARD	DEPTDT
		x	PLU	DATA ENTRY			
				UPLOAD	ECR -> PC	RS-232	
				DOWNLOAD	PC -> ECR	RS-232	
				IMPORT	SD -> PC	SD CARD	PLUDT
				EXPORT	PC -> SD	SD CARD	PLUDT
x	x		PLU/EAN	DATA ENTRY			
				UPLOAD	ECR -> PC	RS-232	
				DOWNLOAD	PC -> ECR	RS-232	
				IMPORT	SD -> PC	SD CARD	PLUDT
				EXPORT	PC -> SD	SD CARD	PLUDT
			LOGO TEXT	DATA ENTRY			
				UPLOAD	ECR -> PC	RS-232	
				DOWNLOAD	PC -> ECR	RS-232	
				IMPORT	SD CARD->PC	SD CARD	LOGODT
				EXPORT	PC -> SD CARD	SD CARD	LOGODT
			TAX (VAT/TAX rate)	DATA ENTRY			
				UPLOAD	ECR -> PC	RS-232	
				DOWNLOAD	PC -> ECR	RS-232	
				IMPORT	SD -> PC	SD	TAXTB

					CARD	
				EXPORT	PC -> SD	SD CARD	TAXTB
			VAT ID	DATA ENTRY			
				UPLOAD	ECR -> PC	RS-232	
				DOWNLOAD	PC -> ECR	RS-232	
			LOGO (Graphic logo)	DOWNLOAD	PC -> ECR	RS-232	
				EXPORT	PC -> SD	SD CARD	TMLOG1TB
			ALL RAM	UPLOAD	ECR -> PC	RS-232	
				DOWNLOAD	PC -> ECR	RS-232	

DATA
The data of setting (All ram means the dead copy of ECR/POS RAM .(Except internal memory)

FUNCTION
The following data can be controlled.

Function	
DATA ENTRY	Add, delete ,edit, store, read the data Please refer Data Control Function.
UPLOAD	Read the data from ECR/POS.
DOWNLOAD	Write the data into ECR/POS
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.

This software can manage plural data set by folder.

4.3 Multi- Language support

Each message and text of this software can be changed from English to other country language.
(e.g. French, German, Spanish Swedish etc.) by resource file for each language.

4.4 Character exchange support.

Character code is different between PC and ECR.
This software supports exchanging characters.

5 Installation

Software installation is by copying the program files, (not use installer)
Software un-installation is also by deleting the program files.(not use un-installer)
That means the setting data is not stored on registry, stored in setting files and stored in same folder than the data.

List of program files <1

for XE-A207	for XE-A217
PC-LINK_A207V.exe	PC-LINK_A217V.exe
CustomControlLibrary.dll	CustomControlLibrary.dll
ECR_Lib.dll	ECR_Lib.dll
EcrDataCtrl.dll	EcrDataCtrl.dll
ELMid.dll	ELMid.dll
pictcnv.dll	pictcnv.dll
logoconv.ini	logoconv.ini
de/CustomControlLibrary.resources.dll	de/CustomControlLibrary.resources.dll
de/PC-LINK_A207V.resources.dll	de/PC-LINK_A217V.resources.dll
es/CustomControlLibrary.resources.dll	es/CustomControlLibrary.resources.dll
es/PC-LINK_A207V.resources.dll	es/PC-LINK_A217V.resources.dll
fr/CustomControlLibrary.resources.dll	fr/CustomControlLibrary.resources.dll
fr/PC-LINK_A207V.resources.dll	fr/PC-LINK_A217V.resources.dll
sv/CustomControlLibrary.resources.dll	sv/CustomControlLibrary.resources.dll
sv/PC-LINK_A207V.resources.dll	sv/PC-LINK_A217V.resources.dll

for XE-A307
PC-LINK_A307V.exe
CustomControlLibrary.dll
ECR_Lib.dll
EcrDataCtrl.dll
ELMid.dll
pictcnv.dll
logoconv.ini
de/CustomControlLibrary.resources.dll
de/PC-LINK_A307V.resources.dll

es/CustomControlLibrary.resources.dll
es/PC-LINK_A307V.resources.dll
fr/CustomControlLibrary.resources.dll
fr/PC-LINK_A307V.resources.dll
sv/CustomControlLibrary.resources.dll
sv/PC-LINK_A307V.resources.dll

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6 Each Functions

6.1 Start up

1. ECR data is automatically loaded that are saved at the last time.
2. If there is no ECR data on the PC, default data is set as follows.

Item	Default
DEPT	No record is created.
PLU/EAN	PLU/EAN is not created.
LOGO	No default data
LOGO TEXT	All text are filled by space.
VAT ID	0

<1

3. Dept. screen is always displayed just after start up.
4. This software cannot run a plural number at the same time on the same PC.

6.2 Termination

1. ECR data is saved automatically into a folder that has been selected.
2. Window position and size is saved.
   Window will be shown in same position and size at next time.

The above data (position, size, setting data) is recorded in the following file and folder. <1

File name <1

A207: setting207.xml <1

A217: setting217.xml <1

A307: setting307.xml <1

Folder name <1

XP : Document and Settings\(user name)\Application Data\PC_TOOL\Temp <1

Vista: Users\(user name)\AppData\Roaming\PC_TOOL\Temp <1

7 : Users\(user name)\AppData\Roaming\PC_TOOL\Temp <1

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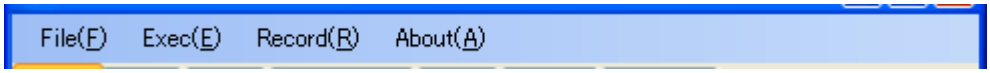
6.3 Title bar

Program title is always displayed on title bar. <2

"PC-LINK for XE-A207" is displayed for XE-A207. <2
"PC-LINK for XE-A217" is displayed for XE-A217. <2
"PC-LINK for XE-A307" is displayed for XE-A307. <2

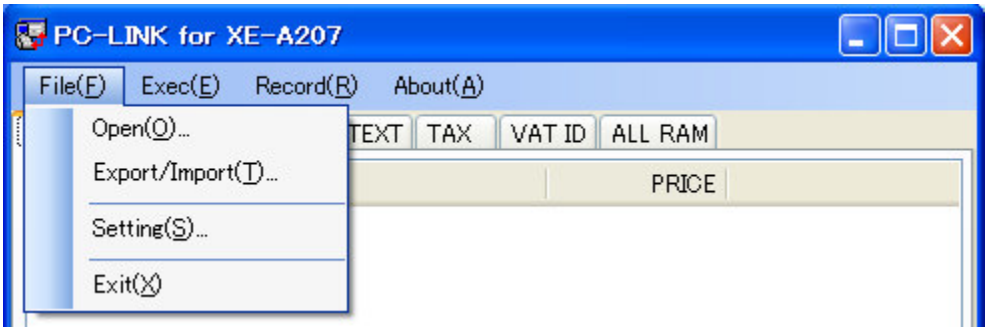
6.4 Menu bar

This software contains following menu items.



	Title	List	Contents
1	File(F)	Open(O) ...	You can select the folder which the data base are stored.
		Export/Import(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	Exec(E)	Receive(R)	Receive from ECR via RS232
		Select and Send(S) ...	Send to ECR via RS232.
3	Record(R)	New(N)	You can add new PLU/EAN or Department code
		Delete(D)	You can delete PLU/EAN or Department code
4	About(A)		This shows software name and version information.

6.5 File



This menu item can be operated in case of any TAB is selected.

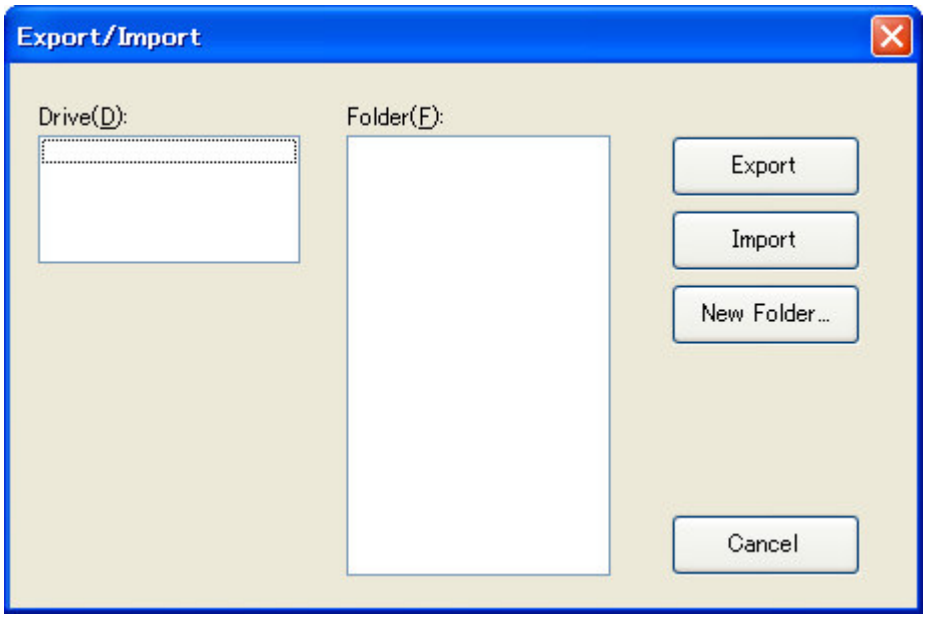
Open

Load ECR data from selected folder.

Selected folder is set as current DATA FOLDER. <2

Export/Import

Following windows is shown after select this menu item.



Then, following function can be executed.

Button	Functionality
Export	Programming data is saved into specified folder on SD CARD.
Import	Programming data is loaded from specified folder on SD CARD.
New Folder	Create a new user folder on SD CARD.

Export: DEPT, PLU(/EAN), TAX, LOGO TEXT and LOGO data is saved to SD CARD. <2

If no record is displayed on DEPT tab, then DEPT data is not saved to SD CARD. <2

If no record is displayed on PLU(/EAN) tab, then PLU(/EAN) data is not saved to SD CARD. <2

If no file is selected on LOGO tab, then LOGO data is not saved to SD CARD. <2

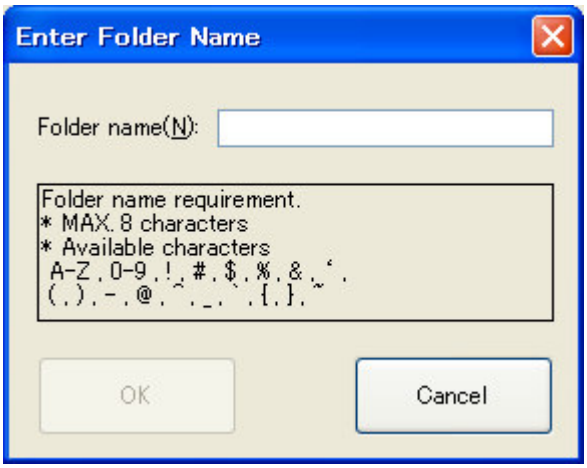
Import: DEPT, PLU(/EAN), TAX and LOGO TEXT is loaded from SD CARD. <2

If no file to be loaded is in SD CARD, error message is displayed. <2

Export operation
1. Select SD CARD Drive
2. Select “User Folder”
3. Then press "Export" button.

Import operation
1. Select SD CARD Drive
2. Select “User Folder”
3. Then press "Import" button.

Create folder operation
1. Select SD CARD Drive
2. Then press "New folder" button.
3. Following window is shown and enter the folder name.



Setting

Setting items are as follows.

Group	Item	Explanation	Default Value	
Data Folder(F)		Data folder to save each data set.	(*1)	<1
RS232C	Port Number(P)	RS-232 port number	1	<1
	Baud Rate(B)	Communication speed. 38400bps 19200bps 9600bps 4800bps	19200	<1
	Duplex(D)	HALF(Half duplex mode) FULL(Full duplex mode)	FULL	<1
ECR	Terminal No.(T)	Terminal No. of target ECR. (*2) (1-999999)	1	<1

(*1) XP: Documents and Settings\(user name)\My Documents\SHARP_ECR\A207\SHOP_NAME1 <1
Documents and Settings\(user name)\My Documents\SHARP_ECR\A217\SHOP_NAME1 <1
Documents and Settings\(user name)\My Documents\SHARP_ECR\A307\SHOP_NAME1 <1
Vista, 7: Users\(user name)\Documents\SHARP_ECR\A207\SHOP_NAME1

<1

Users\(user name)\Documents\SHARP_ECR\A217\SHOP_NAME1

<1

Users\(user name)\Documents\SHARP_ECR\A307\SHOP_NAME1

<1

(*2) The item of group "ECR" should be set the same value of ECR setting. <1

(PGM MODE - SETTING - DEVICE CONFIG - ONLINE - TERMINAL No.)

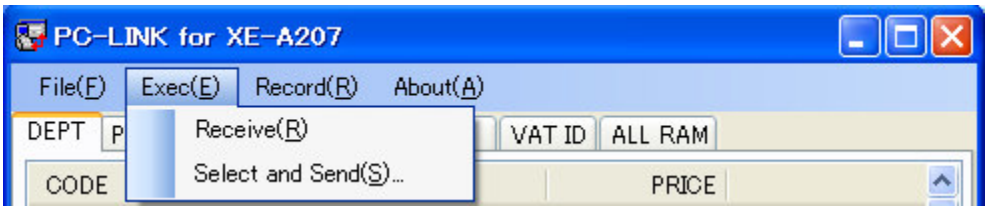
<1

Exit

Terminate the PC-LINK software.

6.6 Exec

This menu item can be operated in case of any TAB is selected.



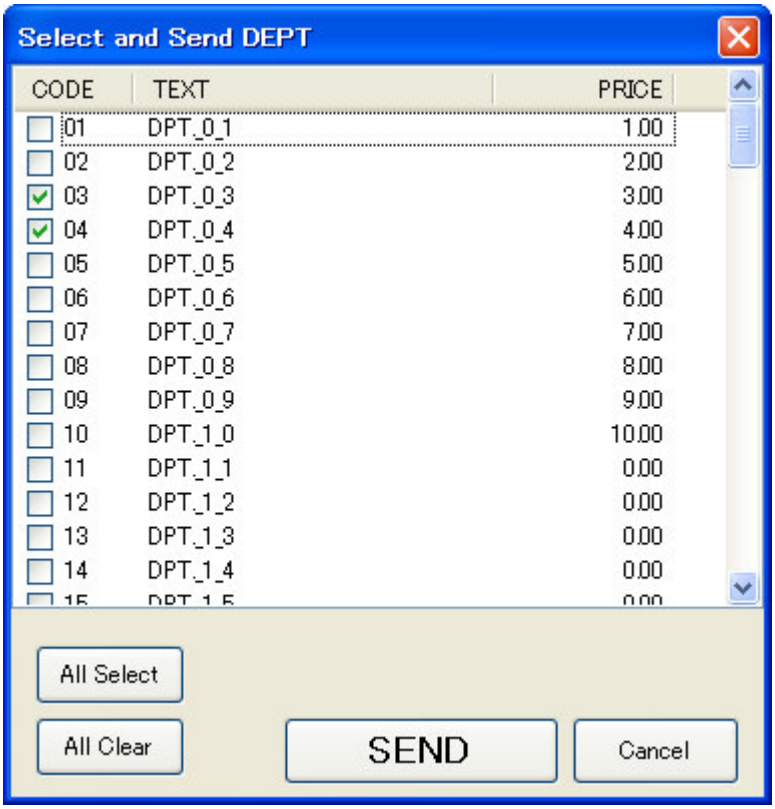
Receive
Data of current TAB is received from connected ECR via RS-232.
If "PLU" tab is selected and executed this command, then "PLU" data will be received from ECR.

Select and Send
Data of current TAB is sent to connected ECR via RS-232.

In case of "PLU" or "DEPT", programming data can be sent partially.
Following dialog is shown and you can select the data which should be sent.

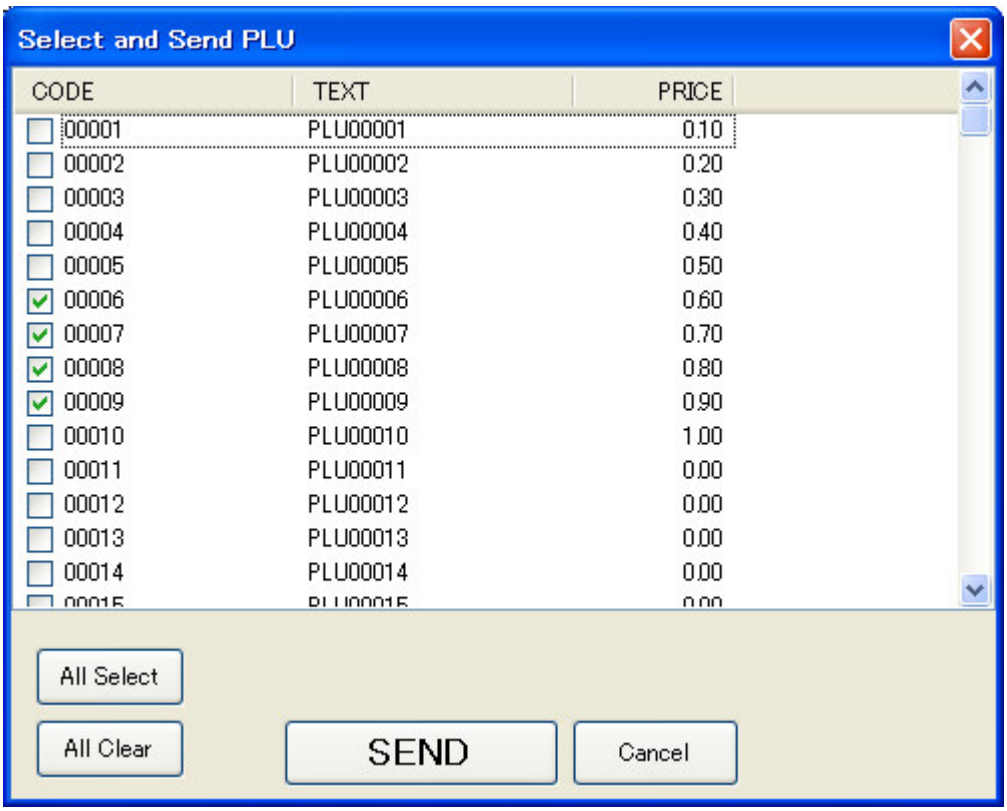
In case of "DEPT" tab.

Button	Functionality
All Select	All items are selected.
All Clear	All items are deselected.
SEND	Selected data will be sent.
Cancel	Cancel this command and close this dialog.



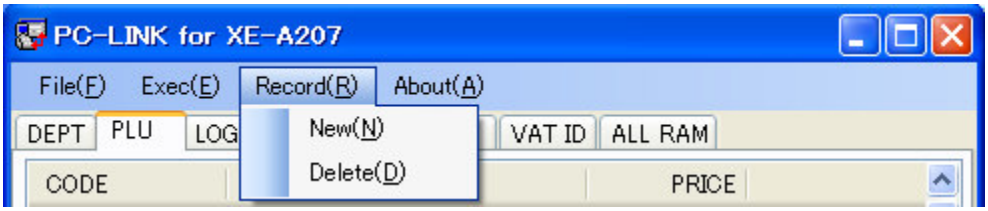
In case of "PLU" tab and "PLU/EAN" tab

Button	Functionality
All Select	All items are selected.
All Clear	All items are deselected.
SEND	Selected data will be sent.
Cancel	Cancel this command and close this dialog.



6.7 Record

This menu item can be operated in case of "DEPT" tab or "PLU"("PLU/EAN") tab is selected. <1



New

Create a DEPT or PLU(EAN) record. <1

Code entry window comes up after this menu selected

A new record is created with following default data.

DEPT <1

Group	Item		default		
TEXT			DPT.xx	xx: Department number	<1
PRICE			0		<1
TAXABLE	Tax1		Selected		<1
	Tax2		Not selected		<1
	Tax3		Not selected		<1
	Tax4		Not selected		<1
PROGRAM	Amount Entry Type	OPEN	Selected		<1
		PRESET	Not selected		<1
	Sales Type	NORMAL	Selected		<1
		SICS	Not selected		<1
	HALO		99999999		<1
	Group No.		01		<1

PLU(EAN) <1

Group	Item		Value		
TEXT			P.xxxxxxxxxxxxx		<1
PRICE			0		<1
PROGRAM	Dept No.		1		<1
	Amount Entry Type	OPEN	Not selected		<1
		PRESET	Selected		<1
	Auto Delete by Z1		Selected	For XE-A307 only	<1

If entered code is already exists, following error is shown.
"Entered code already exist."

Delete

Delete selected DEPT or PLU(EAN) record. <1

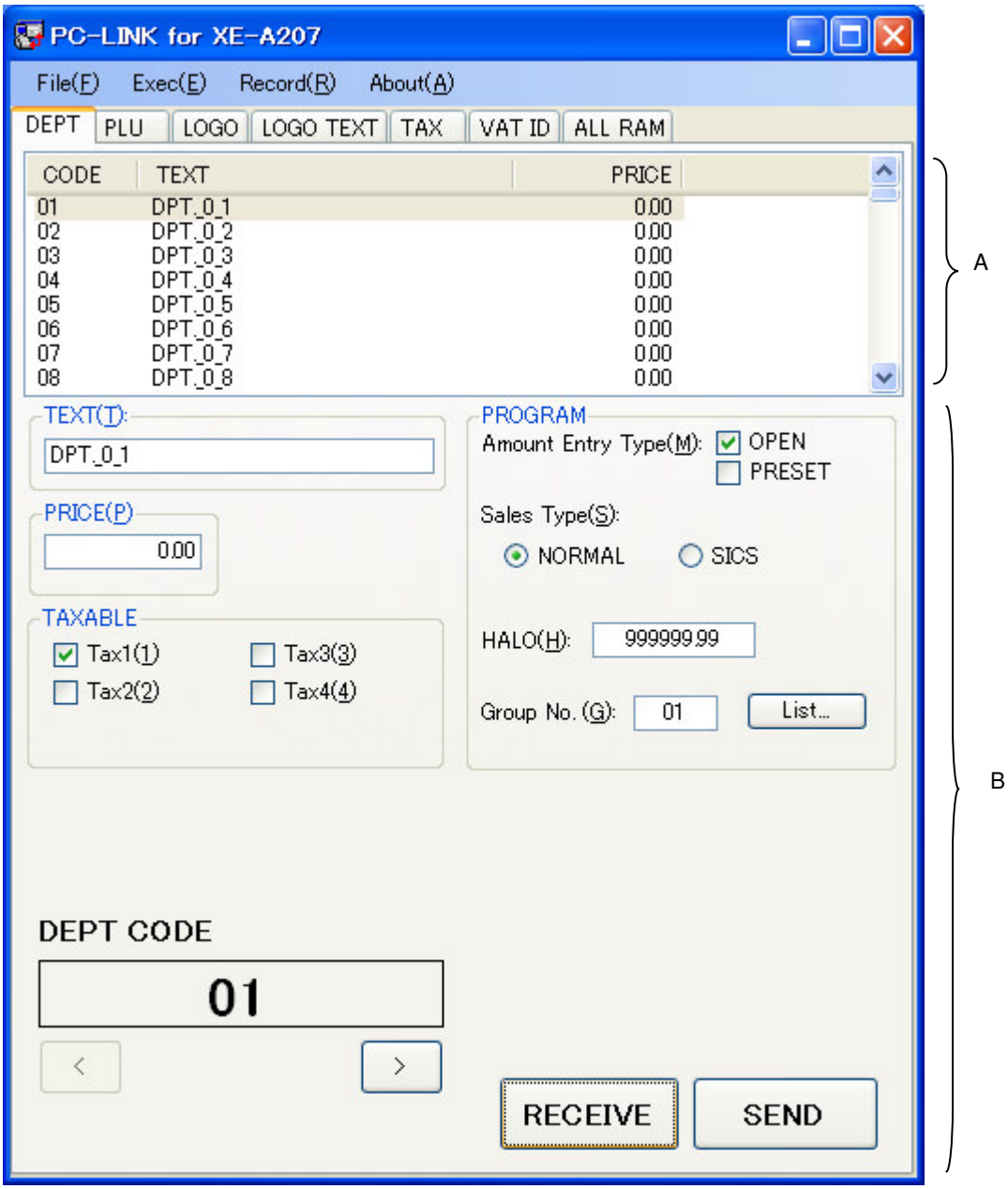
6.8 About

This menu item can be operated in case of any TAB is selected.

A window that shows software name and version information comes up.

6.9 Department programming

DEPT programming is available on "DEPT" tab



Screen construction

This TAB is constructed by 2 panes.
Pane A shows list of department.
Pane B shows detail of selected department.

Department record can not be added or deleted. Number of department is determined by setting item "Number of Dept."

Programming items.

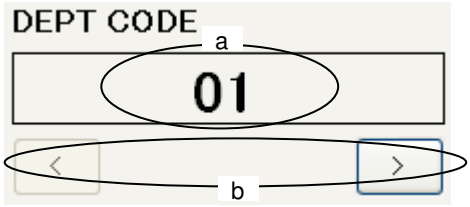
Following items can be programmed.

Item	Explanation	
Text	Max 16 characters can be entered.	
Price	Max 8 digits can be entered. Tab position is determined by regional setting of Windows.	
Taxable	Maximum ~~6~~ 4 taxable can be set. Please check the taxable number that should be set.	<1
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"~~, "SIF"~~ can be selected.	<1
HALO	Open amount limitation.	
Group No.	1 - ~~15~~ 12 can be set. You can enter Group No. or select from list. Group list is shown when you push the "assist." button.	<1

Selecting Department.

You can select a department by following ways.

Method	Operation
By selecting from list	Click the department on the list(Pane A).
By entering department code	1. Click the department code (See below, "a" is department code display.) then code entry window comes up. 2. 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.



Data Transmission

Data Transmission can be made by pressing "RECEIVE" or "SEND" button.

Button	Functionality
RECEIVE	Receive all department preset data from ECR via RS-232.
SEND	Send all department preset data to ECR via RS-232.

If you need to send only assigned department, please select "Select and Send" from "Exec" menu.

Create Department code

You can create a Department by following ways.

Method	Operation
From context menu on the list	1. Somewhere on Pane A, click the right mouse button to open shortcut menu. Then select "New" on the shortcut menu. 2. Code entry window comes appear. 3. Enter Department code.
From menu bar	1.Select "Exec" menu on the menu bar. 2.Select "New" in "Exec" menu 3. Code entry window comes appear. 4. Enter Department code.

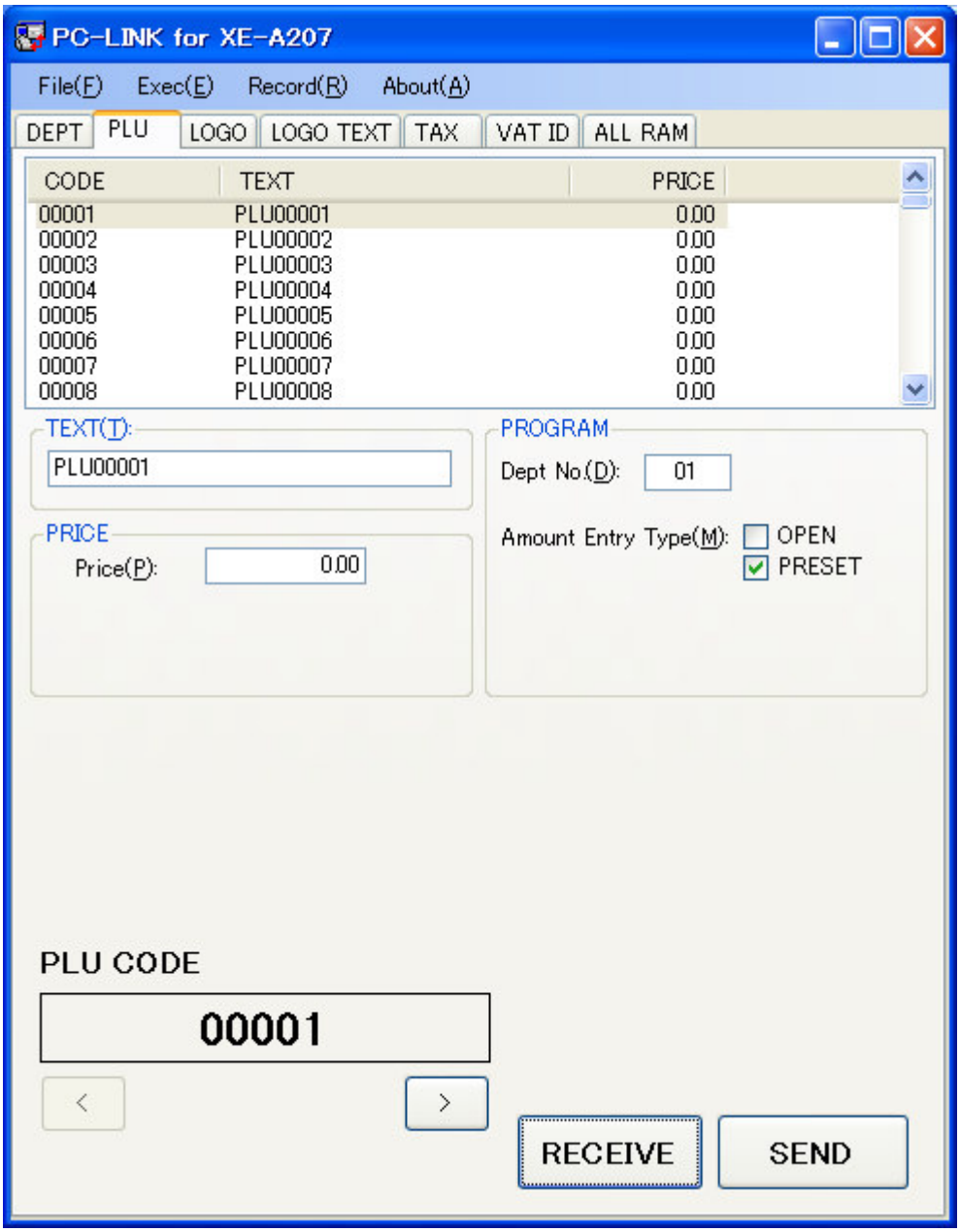
Delete Department code

You can delete a Department by following ways.

Method	Operation
From context menu on the list	1. Select the Department code which is to delete on the Pane A. 2. Click the right mouse button on the Pane A to open shortcut menu. Then select "Delete" on the shortcut menu. 3. Confirmation dialog comes appear and select "YES", then assigned Department code is deleted.
From menu bar	1. Select the Department code which is to delete on the Pane A. 2.Select "Exec" menu on the menu bar. 3.Select "Delete in "Exec" menu. 4. Confirmation dialog comes appear and select "YES", then assigned Department code is deleted.

6.10PLU programming

PLU programming is available for XE-A207 and XE-A217 on "PLU" tab.



Screen construction

This TAB is constructed by 2 panes.
Pane A shows list of PLU.
Pane B shows detail of selected PLU.

Programming items.

Following items can be programmed.

Item	Explanation
Text	Max 16 characters can be entered.
Price	Max 8 digits can be entered. Tab position is determined by regional setting of Windows.
~~Sign~~	
Dept. No.	1 - 99 can be entered.
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"

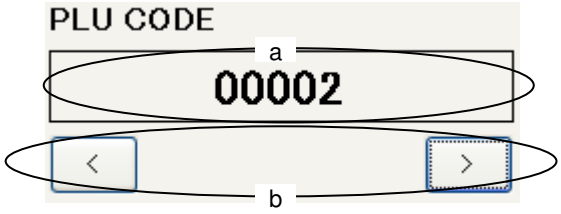
<1

Selecting PLU

You can select a PLU by following ways.

Method	Operation
By selecting from list	Click the PLU on the list (Pane A).
By entering PLU code	1.Click the PLU code (See below, "a" is PLU code display.) then code entry window comes up. 2.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.

<3



Create PLU code

You can create a PLU by following ways.

Method	Operation
From context menu on the list	1. Somewhere on Pane A, click the right mouse button to open shortcut menu. Then select "New" on the shortcut menu. 2. Code entry window comes appear. 3. Enter PLU code.
From menu bar	1.Select "Exec" menu on the menu bar. 2.Select "New" in "Exec" menu 3. Code entry window comes appear. 4. Enter PLU code.

Delete PLU code

You can delete a PLU by following ways.

Method	Operation
From context menu on the list	1. Select the PLU code which is to delete on the Pane A. 2. Click the right mouse button on the Pane A to open shortcut menu. Then select "Delete" on the shortcut menu. 3. Confirmation dialog comes appear and select "YES", then assigned PLU code is deleted.
From menu bar	1. Select the PLU code which is to delete on the Pane A. 2.Select "Exec" menu on the menu bar. 3.Select "Delete in "Exec" menu. 4. Confirmation dialog comes appear and select "YES", then assigned PLU code is deleted.

Data Transmission

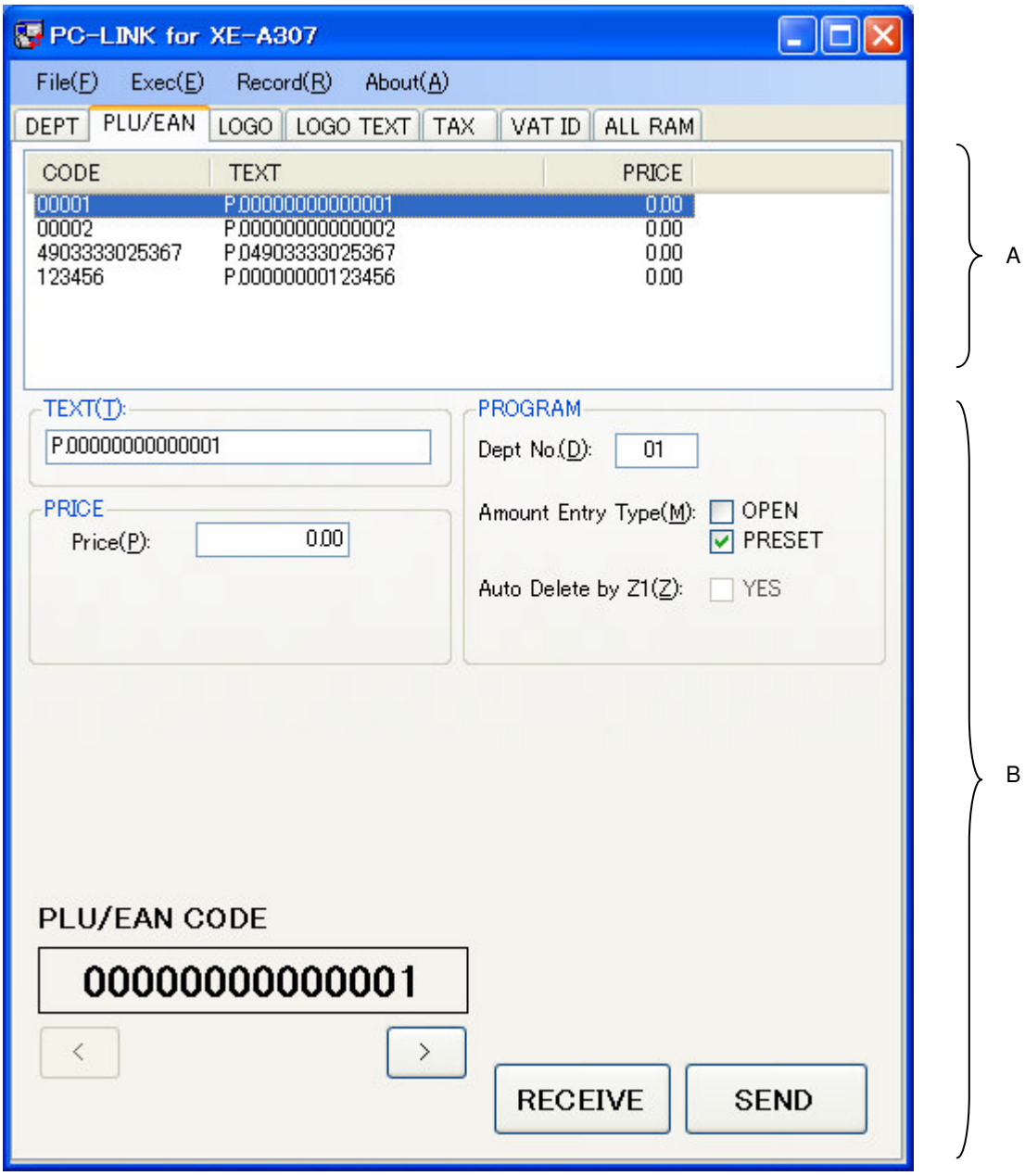
Data Transmission can be made by pressing "RECEIVE" or "SEND" button.

Button	Functionality
RECEIVE	Receive all department preset data from ECR via RS-232.
SEND	Send all department preset data to ECR via RS-232.

If you need to send only assigned PLU, please select "Select and Send" from "Exec" menu.

6.11 PLU/EAN programming

PLU/EAN programming is available for XE-A307 on "PLU/EAN" tab.



Screen construction

This TAB is constructed by 2 panes.
Pane A shows list of PLU/EAN.
Pane B shows detail of selected PLU/EAN.

Programming items.

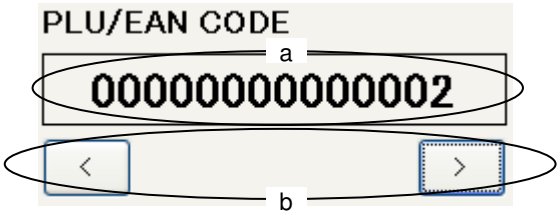
Following items can be programmed.

Item	Explanation	
Text	Max 16 characters can be entered.	
Price	Max 8 digits can be entered. Tab position is determined by regional setting of Windows.	
~~Sign~~		<1
Dept. No.	1 - 99 can be entered.	
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" This item can be selected only for PLU (5-digits) code.	<3
Auto Delete by Z1	Auto record delete at the timing of Z1 report. This item can be selected except for PLU (5-digits) code.	

Selecting PLU/EAN

You can select a PLU/EAN by following ways.

Method	Operation	
By selecting from list	Click the PLU/EAN on the list (Pane A).	
By entering PLU/EAN code	1.Click the PLU/EAN code (See below, "a" is PLU/EAN code display.) then code entry window comes up. 2.Enter PLU/EAN code.	<3
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.	



Create PLU/EAN code

You can create a PLU/EAN by following ways.

Method	Operation
From context menu on the list	1. Somewhere on Pane A, click the right mouse button to open shortcut menu. Then select "New" on the shortcut menu. 2. Code entry window comes appear. 3. Enter PLU/EAN code.
From menu bar	1.Select "Exec" menu on the menu bar. 2.Select "New" in "Exec" menu 3. Code entry window comes appear. 4. Enter PLU/EAN code.

Delete PLU/EAN code

You can delete a PLU/EAN by following ways.

Method	Operation
From context menu on the list	1. Select the PLU/EAN code which is to delete on the Pane A. 2. Click the right mouse button on the Pane A to open shortcut menu. Then select "Delete" on the shortcut menu. 3. Confirmation dialog comes appear and select "YES", then assigned PLU/EAN code is deleted.
From menu bar	1. Select the PLU/EAN code which is to delete on the Pane A. 2.Select "Exec" menu on the menu bar. 3.Select "Delete in "Exec" menu. 4. Confirmation dialog comes appear and select "YES", then assigned PLU/EAN code is deleted.

Data Transmission

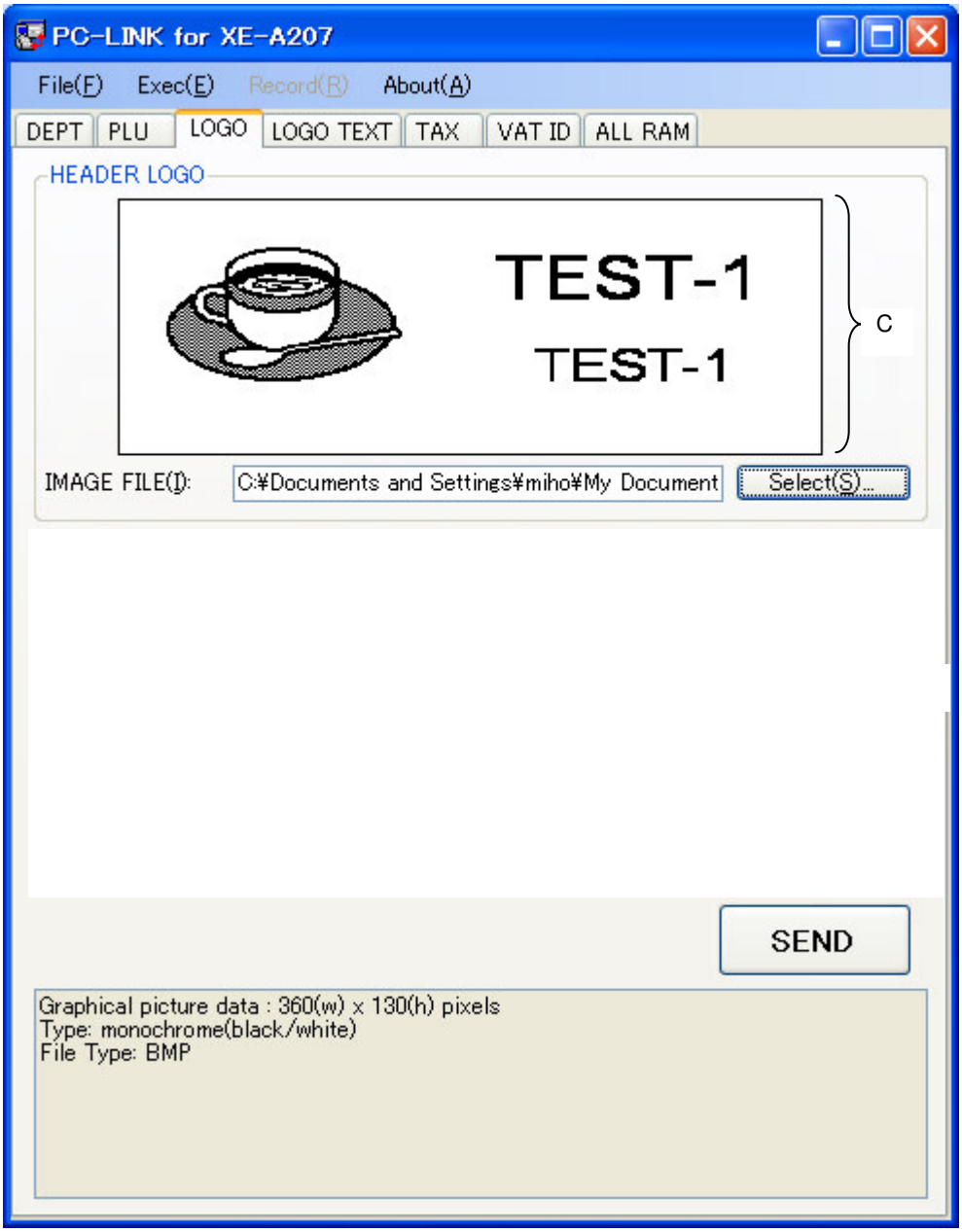
Data Transmission can be made by pressing "RECEIVE" or "SEND" button.

Button	Functionality
RECEIVE	Receive all department preset data from ECR via RS-232.
SEND	Send all department preset data to ECR via RS-232.

If you need to send only assigned PLU/EAN, please select "Select and Send" from "Exec" menu.

6.12LOGO programming (Thermal Logo)

Thermal logo data download is available on LOGO Tab.



Screen construction

This TAB is constructed only HEADER LOGO select & send. <1

Programming items.

This software doesn't support create and edit logo data.
Logo data should be created another PC software (like Paintbrush).
This software supports only download of graphic logo data.

Requirement about bitmap

The bit map image file should meet following requirement.

Color	Monochrome (Black and White)
Size	Width 360pixel <1 Height 130 pixel

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

Assignment of Logo data

You can set Logo data by following ways.

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 pressing ""SEND" button.
Both of Header logo and Footer logo data is sent.
If one of them isn't assigned, only assigned data is sent.

Button	Functionality
SEND	Send logo data to ECR via RS-232.

6.13 LOGO text programming

Logo text programming is available on LOGO TEXT Tab.

Screen construction
This TAB is constructed only Logo text entry.

Programming items.

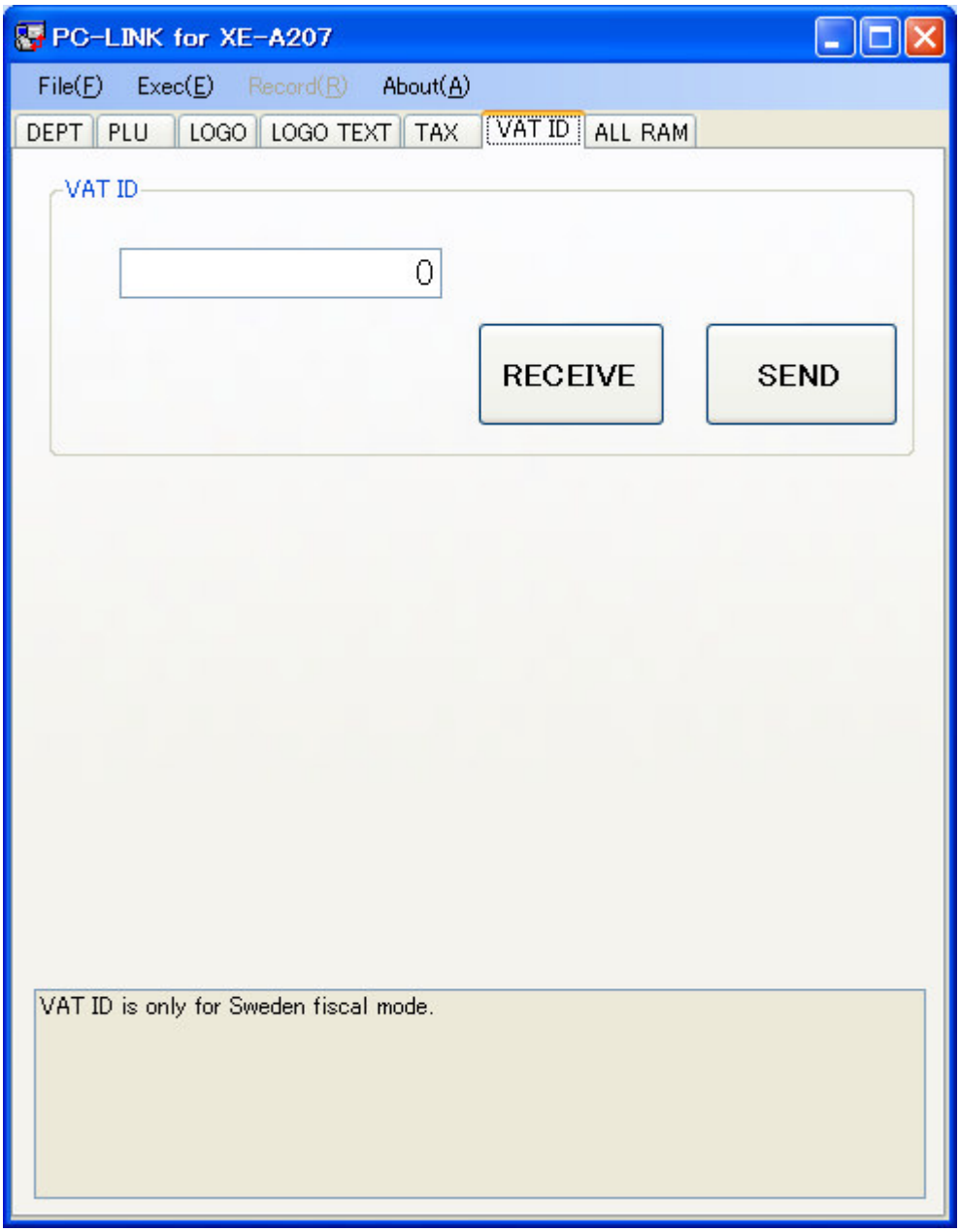
Item	Explanation
Logo Text	30characters / line and Max. 6lines of Logo text can be programmed.

Data Transmission
Data Transmission can be made by pressing "RECEIVE" or "SEND" button.

Button	Functionality
RECEIVE	Receive all Logo text data from ECR via RS-232.
SEND	Send all Logo text data to ECR via RS-232.

6.14 VAT ID programming

VAT ID programming is available on VAT ID Tab.



Screen construction
This TAB is constructed only VAT ID entry.

Programming items.

Item	Explanation
VAT ID	Max. 10 digits VAT ID can be programmed.

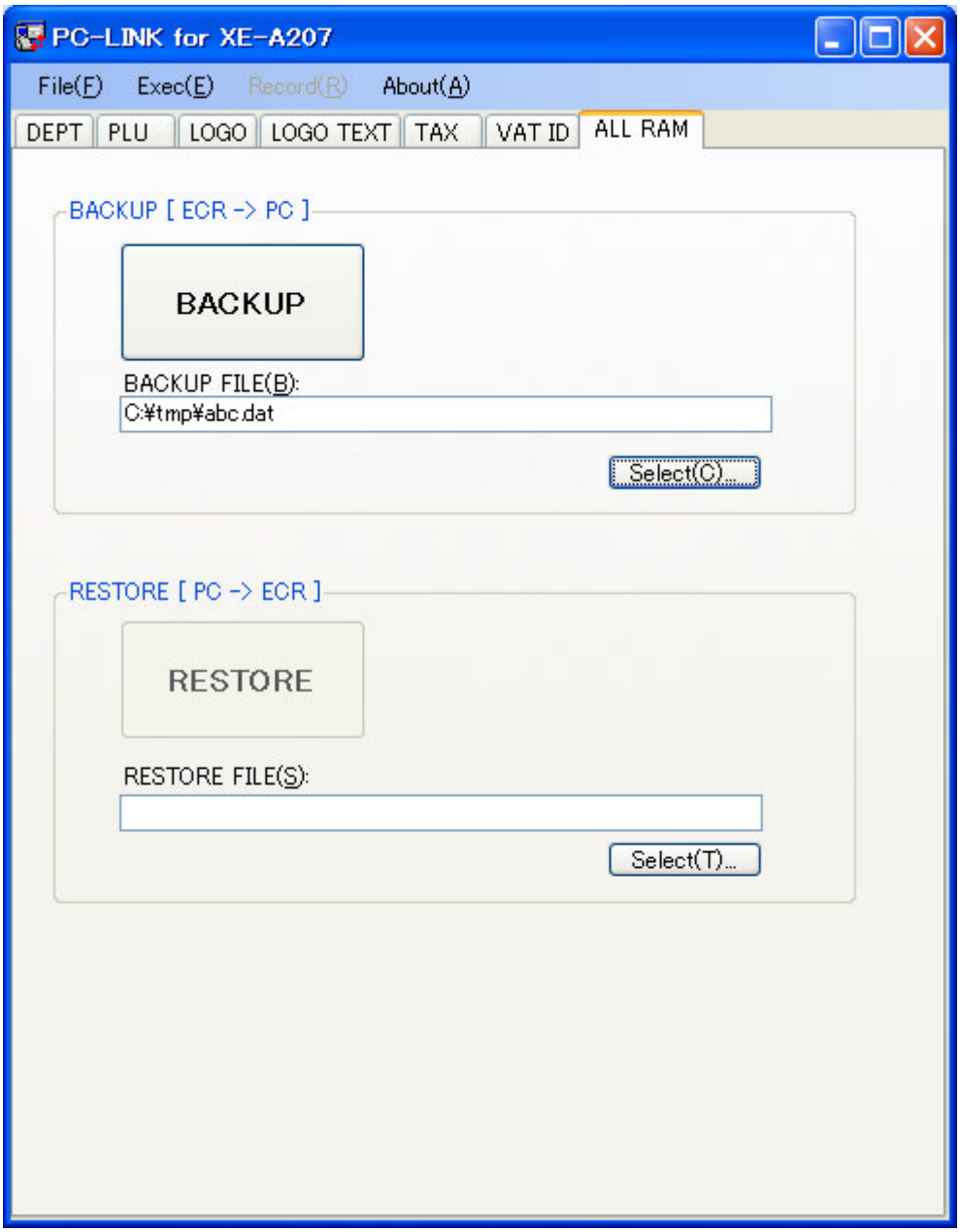
Data Transmission
Data Transmission can be made by pressing "RECEIVE" or "SEND" button.

Button	Functionality
RECEIVE	Receive VAT ID data from ECR via RS-232.
SEND	Send VAT ID data to ECR via RS-232.

ECR side should be set as Sweden fiscal mode.

6.15 ALL RAM Backup/Restore

ALL RAM Backup/Restore is available on "ALL RAM" Tab.



Screen construction

This TAB is constructed by 2 panes. <1

Pane A is for all RAM receiving from ECR. <1

Pane B is for all RAM sending to ECR. <1

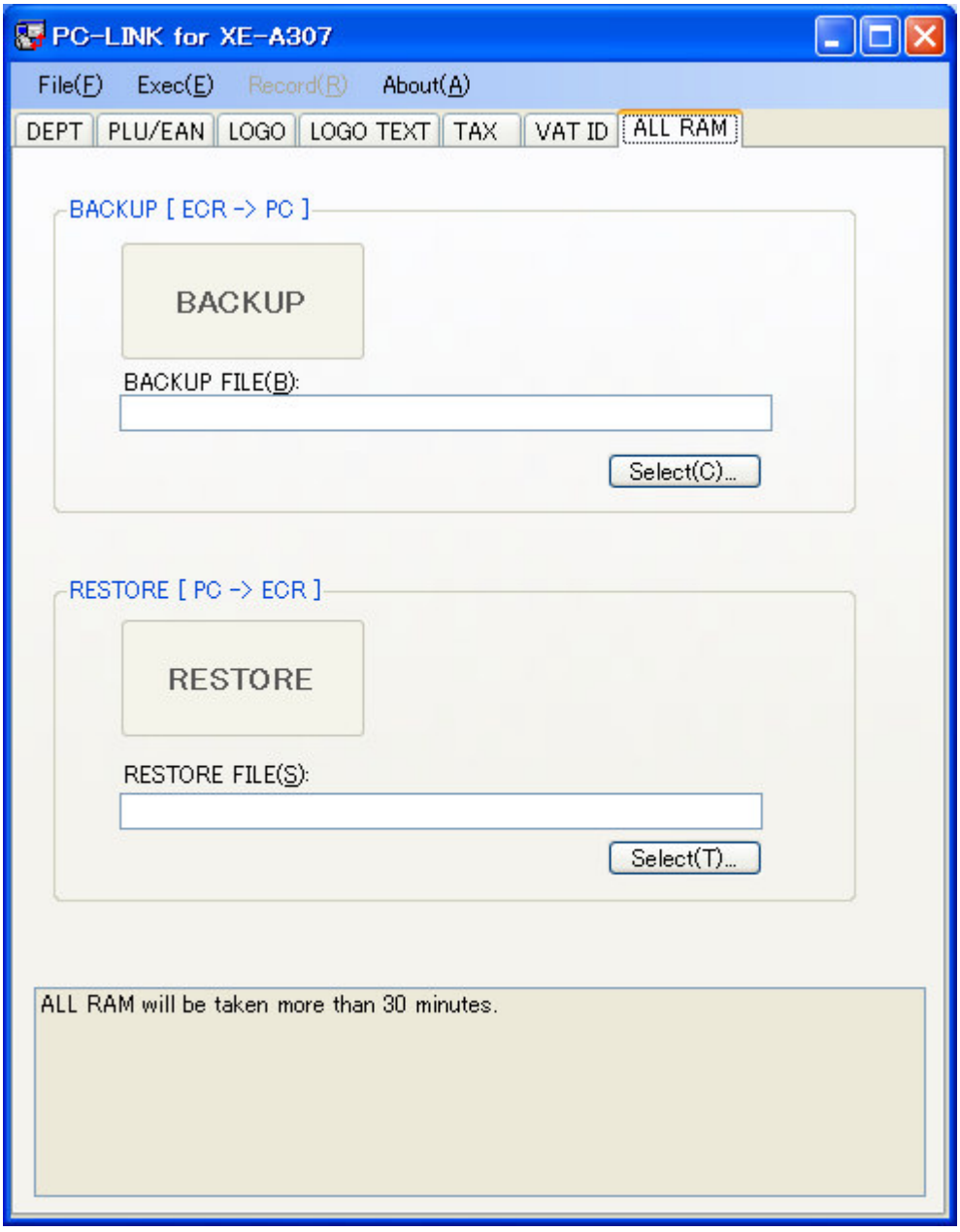
Programming items.

ALL RAM data can not be modified.
This supports only upload and download of ALL RAM data.

Data Transmission

Data Transmission can be made by pressing "RECEIVE" or "SEND" button.

Button	Functionality
BACKUP	Receive ALL RAM data from ECR via RS-232. Location and name of the file that the ALL RAM data is stored in is specified by "BACKUP FILE". If BACKUP button is clicked, then all RAM data is received and the file is overwritten by the new data. <3 <3
RESTORE	Send ALL RAM data to ECR via RS-232. The transmitted data were appointed in "RESTORE". ALL RAM data file location is assigned by "RESTORE FILE"



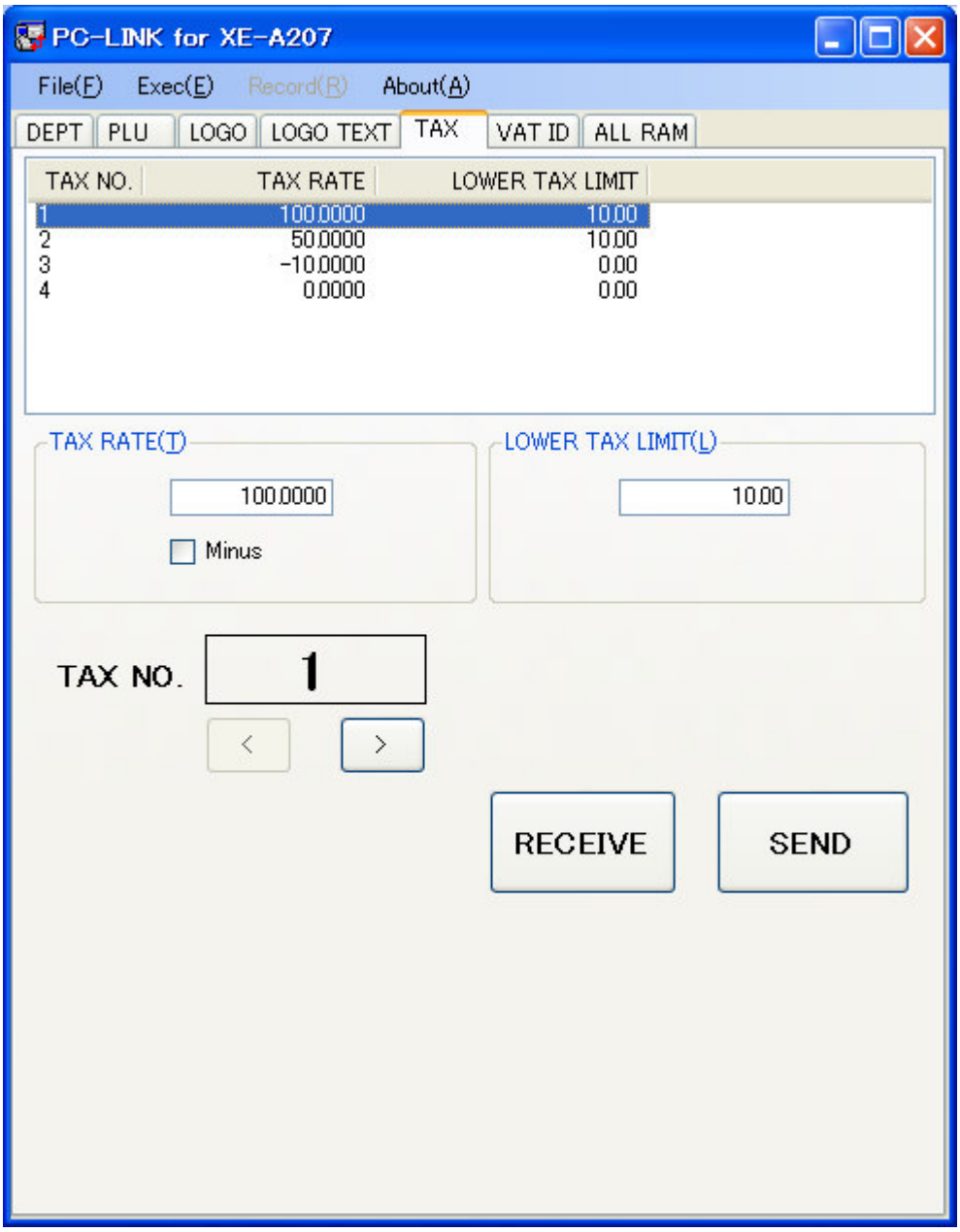
C

Note area <3

Only PC-LINK for XE-A307 has note area on ALL RAM tab. <3

6.16 VAT/TAX rate programming

VAT/TAX rate programming is available on TAX Tab.



Screen construction

This TAB is constructed only Tax programming entry.

Programming items.

Item	Explanation
Tax rate	3 digits integer + 4 digits decimal can be programmed for each rate. Minus sign can be programmed.
Lower Tax Limit	Max 5 digits value can be programmed.

Data Transmission

Data Transmission can be made by pressing "RECEIVE" or "SEND" button.

Button	Functionality	
RECEIVE	Receive TAX rate data from ECR via RS-232.	<3
SEND	Send TAX rate data to ECR via RS-232.	<3

7 Internal data handling

Each programming data is stored in specified data folder in PC.

Kind of data	File name
DEPT data	DEPT.xml
PLU(/EAN) data	PLU.xml
Logo Text data	LOGOTEXT.xml
TAX data	TAX.xml
VAT ID data	VAT-ID.xml
ALL RAM data	(file name is specified by user)

XML DATA FORMAT

DEPT data and PLU data are stolen in following XML format.
The others are stolen in the same format as ER-A280V.

<Example> DEPT.xml

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<FILE xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <RECORD DEPT_CODE="01">
      <FIELD1>                                          ← This line can be omitted.</FIELD1> <1
        <PROGRAM>                                       ← This line can be omitted.</PROGRAM> <1
          <ENTRY_TYPE>Open</ENTRY_TYPE>
          <ITEM_TYPE>NORMAL</ITEM_TYPE>
        </PROGRAM>                                      ← This line can be omitted.</PROGRAM> <1
        <TAX>                                           ← This line can be omitted.</TAX> <1
          <TAXABLE1>No</TAXABLE1>
          <TAXABLE2>No</TAXABLE2>
          <TAXABLE3>No</TAXABLE3>
          <TAXABLE4>No</TAXABLE4>
        </TAX>                                          ← This line can be omitted.</TAX> <1
        <HALO>99999999</HALO>
        <GROUP_NUMBER>1</GROUP_NUMBER>
      </FIELD1>                                         ← This line can be omitted.</FIELD1> <1
      <FIELD3>                                          ← This line can be omitted.</FIELD3> <1
        <PRICE>0</PRICE>
      </FIELD3>                                         ← This line can be omitted.</FIELD3> <1
      <FIELD4>                                          ← This line can be omitted.</FIELD4> <1
        <TEXT>DPT.01</TEXT>
      </FIELD4>                                         ← This line can be omitted.</FIELD4> <1
    </RECORD>
    <RECORD DEPT_CODE="02">
      <FIELD1>                                          ← This line can be omitted.</FIELD1> <1
        <PROGRAM>                                       ← This line can be omitted.</PROGRAM> <1
          <ENTRY_TYPE>Open</ENTRY_TYPE>
          <ITEM_TYPE>NORMAL</ITEM_TYPE>
        </PROGRAM>                                      ← This line can be omitted.</PROGRAM> <1
        <TAX>                                           ← This line can be omitted.</TAX> <1
          <TAXABLE1>No</TAXABLE1>
          <TAXABLE2>No</TAXABLE2>
          <TAXABLE3>No</TAXABLE3>
          <TAXABLE4>No</TAXABLE4>
        </TAX>                                          ← This line can be omitted.</TAX> <1
        <HALO>99999999</HALO>
        <GROUP_NUMBER>1</GROUP_NUMBER>
      </FIELD1>                                         ← This line can be omitted.</FIELD1> <1
      <FIELD3>                                          ← This line can be omitted.</FIELD3> <1
        <PRICE>0</PRICE>
      </FIELD3>                                         ← This line can be omitted.</FIELD3> <1
      <FIELD4>                                          ← This line can be omitted.</FIELD4> <1
```

```
            <TEXT>DPT.02</TEXT>
        </FIELD4>
    </RECORD>
</FILE>
```

~~<- This line can be omitted.<FIELD4>~~ <1

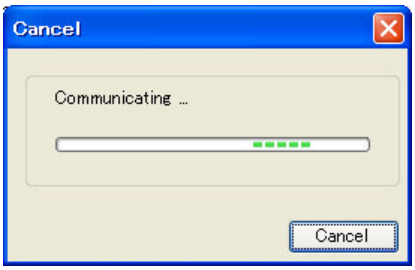
<Example> PLU.xml

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<FILE xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <RECORD PLU_CODE="00000000000001">
    <TYPE>0</TYPE>
      <FIELD1>                                          ← This line can be omitted.<FIELD1> <1
        <DEPARTMENT>1</DEPARTMENT>
        <PROGRAM>                                       ← This line can be omitted.<PROGRAM> <1

<AUTO_DELETE_BY_Z1>Yes</AUTO_DELETE_BY_Z1>
          <ENTRY_TYPE>Preset</ENTRY_TYPE>               ← This line can be omitted.<PROGRAM> <1
        </PROGRAM>                                      ← This line can be omitted.<FIELD1> <1
      </FIELD1>                                         ← This line can be omitted.<FIELD3> <1
      <FIELD3>
        <PRICE>0</PRICE>                                ← This line can be omitted.<FIELD3> <1
      </FIELD3>                                         ← This line can be omitted.<FIELD4> <1
      <FIELD4>
        <TEXT>P.00000000000001</TEXT>                   ← This line can be omitted.<FIELD4> <1
      </FIELD4>
    </RECORD>
    <RECORD PLU_CODE="04903333025367">
    <TYPE>1</TYPE>                                      ← This line can be omitted.<FIELD1> <1
      <FIELD1>
        <DEPARTMENT>1</DEPARTMENT>                      ← This line can be omitted.<PROGRAM> <1
        <PROGRAM>

<AUTO_DELETE_BY_Z1>Yes</AUTO_DELETE_BY_Z1>              ← This line can be omitted.<PROGRAM> <1
          <ENTRY_TYPE>Preset</ENTRY_TYPE>               ← This line can be omitted.<FIELD1> <1
        </PROGRAM>                                      ← This line can be omitted.<FIELD3> <1
      </FIELD1>
      <FIELD3>                                          ← This line can be omitted.<FIELD3> <1
        <PRICE>0</PRICE>                                ← This line can be omitted.<FIELD4> <1
      </FIELD3>
      <FIELD4>                                          ← This line can be omitted.<FIELD4> <1
        <TEXT>P.00000000000002</TEXT>
      </FIELD4>
    </RECORD>
</FILE>
```

8 Display

8.1 Data transmission

A modal dialog is displayed during communication with ECR.



The dialog has CANCEL button.
If CANCEL button is clicked, then the communication with ECR is stopped.
When communication error occurs, error message is displayed by pop-up.

8.2 Status indication

Data transmission status is shown as follows.

Number	Meaning	Conceivable cause
0	Communication is successfully completed.	
3	FDS file access error	Program bug or PC has some trouble about file access.
4	TEXT file access error	Program bug or PC has some trouble about file access.
11	text – binary exchange error	Program bug or data error.
21	protocol error	Program bug.
23	FDS packet data error.	Communication data lost.
31	DSR signal off error	There is some trouble in connection.
32	DCD signal off error	There is some trouble in connection.
33	DCD signal on error	There is some trouble in connection.
34	CTS signal off error	There is some trouble in connection.
35	Not connected	There is some trouble in connection.
36	ECR has been sent EOT.	Configuration mismatch between PC and ECR.
38	Retry over error	ECR doesn't respond.
39	Time out error	ECR doesn't respond.
40	Not connected	There is some trouble in connection.
41	Connection has been established.	Program bug.
50	Program error	Program bug.
55	Memory allocate error	Program bug.

9 Available characters

The following characters are available in this "Programming tool".
They are converted between PC and ECR.

Code table for alpha descriptor programming （Code page 850）

	032	033	034	035	036	037	038	039	040	041	042	043	044	045	046	047
032- 047		!	"	#	$	%	&	'	(	)	*	+	,	-	.	/
	048	049	050	051	052	053	054	055	056	057	058	059	060	061	062	063
048- 063	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
	064	065	066	067	068	069	070	071	072	073	074	075	076	077	078	079
064-079	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	080	081	082	083	084	085	086	087	088	089	090	091	092	093	094	095
080-095	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	(DC)
	096	097	098	099	100	101	102	103	104	105	106	107	108	109	110	111
096-111	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
112-127	p	q	r	s	t	u	v	w	x	y	z	{	|	}	~	⌂
	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
128-143	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	Ì	Ä	Å
	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
144-159	É	æ	Æ	ô	ö	ò	û	ù	ÿ	Ö	Ü	ø	£	Ø	×	ƒ
	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
160-175	á	í	ó	ú	ñ	Ñ	ª	º	¿	®	č	½	¼	¡	«	»
	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
176-191	▒	▒	▓	│	ď	Á	Â	À	©	ě	╢	ň	Ř	¢	¥	š
	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
192-207	ť	ů	ž	Č	─	Ď	ã	Ã	Ě	Ň	Ř	Š	Ť	═	Ů	¤
	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
208-223	ð	Đ	Ê	Ë	È	€	Í	Î	Ï	Ž	┌	▉	▄	¦	Ì	▀
	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
224-239	Ó	ß	Ô	Ò	õ	Õ	µ	þ	Þ	Ú	Û	Ù	ý	Ý	¯	´
	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
240-255	-	±	=	¾	¶	§	÷	¸	°	¨	·	1	3	2		

(DC) Double-size character code

■ Shaded characters are Czech characters.

The character '_' is converted to ECR "Double Character" CODE.

10 Messages

	English	
1	User folder cannot be added.	
2	Application error.	
3	Communication error.	
4	Already same DEPT code exists.	
5	The file is duty over.	
6	The file doesn't exist, or path is illegal.	
7	Invalid character is used.	
8	The file is not bitmap file.	
9	The file is not found.	
10	The file format is not supported color.	
11	The file is not supported size.	
12	Failed to save the file. Do you want to exit PC-LINK?	
13	Input the folder path.	
14	Folder cannot be make.	
15	PC-LINK for XE-A207 has already started.	*1
16	Export folder is not specified.	
17	Import folder is not specified.	
18	Picture convert DLL is not found.	
19	Drive is not specified.	
20	The path doesn't exist.	
21	Already same PLU/EAN code exists.	
22	The file cannot be preserved.	
23	Failed in export.	
24	Failed in import.	
25	Do you want to change this setting?	
26	Do you want to execute export?	
27	Do you want to execute import?	
28	Do you want to delete the DEPT Code?	
29	ERROR	
30	Do you want to load data from the new folder?	<3
31	Do you want to delete the PLU/EAN Code?	
32	Max value is {x}.	
33	Min value is {x}.	
34	Digit number at the right of decimal point is {x}.	
35	Out of range	
36	Input some value.	
37	XML file is broken. PC-LINK operates in the initial state.	
38	Invalid PLU/EAN code	
39	VAT ID is only for Sweden fiscal mode.	<3
40	ALL RAM will be taken more than 30 minutes.	<3

*1 Model name is replaced on XE-A217 or XE-A307 by each model. <1

	English
A	01: GROUP1 02: GROUP2 03: GROUP3 04: GROUP4 05: GROUP5 06: GROUP6 07: GROUP7 08: GROUP8 09: GROUP9 10: MINUS DEPT. 11: HASH DEPT. 12: HASH MINUS DEPT. ~~13: BR DEPT.~~ ~~14: BR MINUS DEPT.~~
B	Folder name requirement. * MAX. 8 characters * Available characters A-Z , 0-9 , ! , # , $, % , & , ‘ , (,) , - , @ , ^ , _ , ` , { , } , ~
C	Graphical picture data : 360(w) x 130(h) pixels <1 Type: monochrome(black/white) File Type: BMP

A: Explanation of dept group number.
B: Explanation folder name specification.
C: Explanation of graphic logo specification

	German	
1	Verzeichnis kann nicht hinzugefügt werden.	
2	Anwendungsfehler.	
3	Kommunikationsfehler.	
4	Warengruppennummer existiert bereits.	
5	Die Datei hat zu hohen Schwarzanteil.	
6	Die Datei existiert nicht oder falscher Pfad.	
7	Ungültige(r) Buchstaben verwendet.	
8	Die Datei ist keine Bitmap-Datei.	
9	Die Datei konnte nicht gefunden werden.	
10	Die Farbe des Dateiformats wird nicht unterstützt.	
11	Die Grösse der Datei wird nicht unterstützt.	
12	Die Datei konnte nicht gesichert werden. Möchten Sie PC-LINK beenden?	
13	Den Verzeichnispfad eingeben.	
14	Verzeichnis kann nicht erstellt werden.	
15	PC-LINK für die XE-A207 ist bereits gestartet.	*1
16	Exportverzeichnis ist nicht angegeben.	
17	Importverzeichnis ist nicht angegeben.	
18	Bildkonvertier (pictcnv)-DLL konnte nicht gefunden werden.	
19	Laufwerk ist nicht angegeben.	
20	Der Pfad existiert nicht.	
21	PLU/EAN Code existiert bereits.	
22	Die Datei kann nicht erhalten werden.	
23	Export fehlgeschlagen.	
24	Import fehlgeschlagen.	
25	Möchten Sie die Programmierung ändern?	
26	Möchten Sie den Export ausführen?	
27	Möchten Sie den Import ausführen?	
28	Möchten Sie die Warengruppennummer löschen?	
29	Fehler!	
30	Möchten Sie Daten von dem neuen Verzeichnis laden?	
31	Möchten Sie den PLU/EAN Code löschen?	
32	Maximaler Wert ist {x}.	<1
33	Minimaler Wert ist {x}.	<1
34	Stellenanzahl hinter dem Dezimalpunkt ist {x}.	<1
35	Ausserhalb des Bereichs.	
36	Einige Werte eingeben.	
37	XML-Datei ist beschädigt. PC-LINK verwendet den Auslieferungszustand.	
38	Ungültiger PLU/EAN Code	
39	MwSt-Nr. nur im schwedischen Fiskalmodus gültig.	<3
40	Gesamt RAM Datensicherungsdauer über 30 Minuten.	<3

*1 Model name is replaced on XE-A217 or XE-A307 by each model. <1

	German
A	01: Hauptgruppe 1 02: Hauptgruppe 2 03: Hauptgruppe 3 04: Hauptgruppe 4 05: Hauptgruppe 5 06: Hauptgruppe 6 07: Hauptgruppe 7 08: Hauptgruppe 8 09: Hauptgruppe 9 10: Minus-Hauptgruppe 11: Extra-Hauptgruppe 12: Extra-Minus-Hauptgruppe ~~13: Pfand-Hauptgruppe~~ ~~14: Pfand-Minus-Hauptgruppe~~
B	Verzeichnisanforderung: *Maximal 8 Zeichen *Verwendbare Zeichen A-Z , 0-9 , ! , # , $, % , & , ‘ , (,) , - , @ , ^ , _ , ` , { , } , ~
C	Grafische Logodaten: 360(B) x 130(H) Pixel <1 Typ: Monochrome (schwarz/weiss) Dateityp: BMP

A: Explanation of dept group number.
B: Explanation folder name specification.
C: Explanation of graphic logo specification

	French	
1	Dossier utilisateur ne peut pas être ajouté	
2	Erreur Application	
3	Erreur Communication	
4	Code DEPT existe déjà	
5	Le fichier est duty over	
6	Le fichier n'existe pas ou mauvais chemin.	
7	Caractère invalide utilisé.	
8	Ce n'est pas un fichier image.	
9	Fichier non trouvé.	
10	Le format de fichier ne supporte pas la couleur.	
11	Le fichier ne supporte pas cette taille	
12	Erreur de sauvegarde fichier.Voulez-vous quitter PC-LINK?	
13	Entrer le chemin du dossier.	
14	Dossier ne peut être créé.	
15	PC-LINK pour XE-207 est déjà démarré.	*1
16	Export dossier non spécifié.	
17	Import dossier non spécifié.	
18	Image de conversion DLL non trouvé.	
19	Disque non spécifié.	
20	Le chemin n'existe pas.	
21	Code PLU/EAN existe déjà.	
22	Le fichier ne peut pas être préservé.	
23	Erreur en export.	
24	Erreur en import.	
25	Voulez-vous changer ce paramètre?	
26	Voulez-vous exécuter l'export?	
27	Voulez-vous exécuter l'import?	
28	Voulez-vous effacer le code DEPT?	
29	ERREUR	
30	Voulez-vous charger les formes de données dans un nouv.Dossier?	
31	Voulez-vous effacer le code PLU/EAN?	
32	Valeur maxi est {x}.	
33	Valeur minii est {x}.	
34	Le nombre de chiffre après le point décimal est {x}.	
35	En dehors de la plage	
36	Entrer une valeur.	
37	Fichier XML cassé. PC-LINK opère dans l'état initial.	
38	Code PLU/EAN incorrect	
39	N°TVA : uniquement utilisé en Suède	<3
40	ALL RAM : le transfert peut dure plus de 30 minutes.	<3

*1 Model name is replaced on XE-A217 or XE-A307 by each model. <1

	French
A	01: GROUP1 02: GROUP2 03: GROUP3 04: GROUP4 05: GROUP5 06: GROUP6 07: GROUP7 08: GROUP8 09: GROUP9 10: DEPT NEGATIF 11: DEPT HORS C.A. 12: DEPT HORS C.A. NEGATIF ~~13: DEPT CONSIGNE~~ ~~14: DEPT CONSIGNE NEGATIF~~
B	Nom du dossier requis * MAX. 8 caractères * Caractères disponible A-Z , 0-9 , ! , # , $, % , & , ‘ , (,) , - , @ , ^ , _ , ` , { , } , ~
C	Image graphique : 360(w) x 130(h) pixels <1 Type: monochrome(noir/blanc) Type fichier: BMP

A: Explanation of dept group number.
B: Explanation folder name specification.
C: Explanation of graphic logo specification

	Spanish	
1	No se puede crear carpeta	
2	Error de aplicacion	
3	Error de comunicación	
4	Codigo de DEPT repetido	
5	Exceso de % de negro en el fichero.	
6	El fichero no existe o ruta ilegal	
7	Carácter invalido	
8	El fichero no es de tipo BMP	
9	Fichero no encontrado	
10	Fichero de color no soportado	
11	Tamaño del fichero invalido	
12	No se pudo grabar. Salir del PC-LINK?	
13	Teclear ruta de la carpeta	
14	No se pudo crear la carpeta.	
15	PC-LINK ya ejecutandose	
16	Carpeta de exportacion no especificada	
17	Carpeta de importacion no especificada	
18	DLL conversion dibujo no encontrada	
19	Unidad no especificada	
20	La ruta no existe	
21	Codigo PLU/EAN repetido	
22	El fichero no se puede guardar.	
23	Fallo en exportacion	
24	Fallo en importacion	
25	Quiere cambiar estos parametros?	
26	Quiere ejecutar la exportacion?	
27	Quiere ejecutar la importacion?	
28	Quiere borrar el codigo de DEPT?	
29	ERROR	
30	Quiere recuperar datos de la nueva carpeta?	
31	Quiere borrar el codigo de PLU/EAN?	
32	Valor maximo {x}	
33	Valor minimo {x}	
34	Numero de digitos a la derecha del decimal es {x}	
35	Fuera de rango	
36	Teclear algun valor	
37	Fichero XML roto. PC-LINK fuciona como al inicio	
38	Codigo PLU/EAN invalido	
39	IVA ID es solo para el modo fiscal de Suecia	<3
40	TODA LA RAM tardará más de 30 minutos	<3

	Spanish
A	01: GRUPO1 02: GRUPO2 03: GRUPO3 04: GRUPO4 05: GRUPO5 06: GRUPO6 07: GRUPO7 08: GRUPO8 09: GRUPO9 10: MINUS DEPT. 11: HASH DEPT. 12: HASH MINUS DEPT. ~~13: BR DEPT.~~ ~~14: BR MINUS DEPT.~~
B	Nombre carpeta necesario. * MAX. 8 caracteres * Caracteres dsiponibles A-Z , 0-9 , ! , # , $, % , & , ‘ , (,) , - , @ , ^ , _ , ` , { , } , ~
C	Tamaño grafico : 360(w) x 130(h) pixels <1 Tipo: monocromo(blanco/negro) Tipo fichero: BMP

A: Explanation of dept group number.
B: Explanation folder name specification.
C: Explanation of graphic logo specification

	Swedish	
1	Folder kan inte läggas till.	
2	Applikationsfel.	
3	Kommunikationsfel.	
4	Varugruppen finns redan.	
5	För mycket svärta i bilden.	
6	Filen kunde inte hittas.	
7	Ogiltigt tecken.	
8	Detta är inte en bitmap-fil.	
9	Filen hittades ej.	
10	Bilden får ej innehålla färg.	
11	Filen har fel storlek.	
12	Kunde inte spara filen. Avsluta PCLINK?	
13	Ange sökväg.	
14	Folder kunde inte skapas.	
15	PC-LINK för XE-A207 körs redan.	*1
16	Exportfolder ej specificerad.	
17	Importfolder ej specificerad.	
18	DLL för bildkonvertering hittades ej.	
19	Enhetsbeteckning saknas.	
20	Sökvägen finns ej.	
21	PLU/EAN kod finns redan.	
22	Filen kan inte sparas.	
23	Export misslyckades.	
24	Import misslyckades.	
25	Vill du ändra denna inställning?	
26	Vil du starta export?	
27	Vill du starta import?	
28	Vill du ta bort varugruppen?	
29	FEL	
30	Vill du ladda data från den nya foldern?	
31	Vill du ta bort PLU/EAN koden?	
32	Max värde är (x).	
33	Min värde är (x).	
34	Antal siffror efter decimalpunkt är (x).	
35	Utanför giltigt område.	
36	Ange ett värde.	
37	XML-fil defekt. PC-LINK initieras.	
38	Ogiltig PLU/EAN kod	
39	VAT ID gäller endast för Sverige.	<3
40	ALL RAM tar mer än 30 minuter.	<3

*1 Model name is replaced on XE-A217 or XE-A307 by each model. <1

	Swedish	
A	01: GRUPP1 02: GRUPP2 03: GRUPP3 04: GRUPP4 05: GRUPP5 06: GRUPP6 07: GRUPP7 08: GRUPP8 09: GRUPP9 10: MINUS VGR. 11: HASH VGR. 12: HASH MINUS VGR. ~~13: PANT VGR.~~ ~~14: PANT (-) VGR.~~	
B	Foldernamn specifikation. * MAX. 8 tecken * Tillåtna tecken A-Z , 0-9 , ! , # , $, % , & , ‘ , (,) , - , @ , ^ , _ , ` , { , } , ~	
C	Storlek grafisk bild : 360(b) x 130(h) pixels Typ: monokrom (svart/vit) Filtyp: BMP	<1

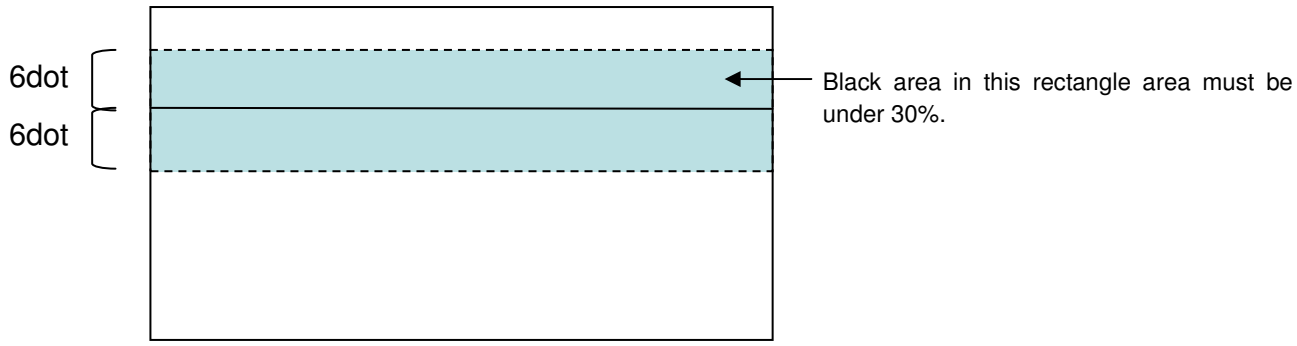
A: Explanation of dept group number.
B: Explanation folder name specification.
C: Explanation of graphic logo specification

11 Restrictions

Following operation is restricted.

1. You must not perform operation to enter into standby during communication.
   If stand by timer is set by power option of Windows, it is ignored during communication.

2. Graphic Logo data must be fit for following specification.
   2-1. Height must be 130dot, width must be 360 dot. <1
   2-2. It must be monochrome color.
   2-3. Area of black must be less than 35% of all area.
   2-4. When the number of dot of the line which drew on the cross direction is more than 55% of the width, black area of following rectangle area must be under 30%.



If your graphic logo data is restricted by 2-3 and 2-4, you will see following message.
And you have to modify your graphic logo data to fit above restriction.
These message are displayed when “SEND” key is pressed in “LOGO” tab or “Export/Import” is selected from “File” menu.

Language	Message
English	The file is duty over.
German	Die Datei hat zu hohen Schwarzanteil.
French	Le fichier est duty over
Spanish	Exceso de % de negro en el fichero.
Swedish	För mycket svärta i bilden.

I