



SKYWALKER

USER GUIDE

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1.Introduction

Skywalker is design for PI series IDE(Integrated Development Environment) software. User can set setting without learning any basic language to create a customized application for PI series.

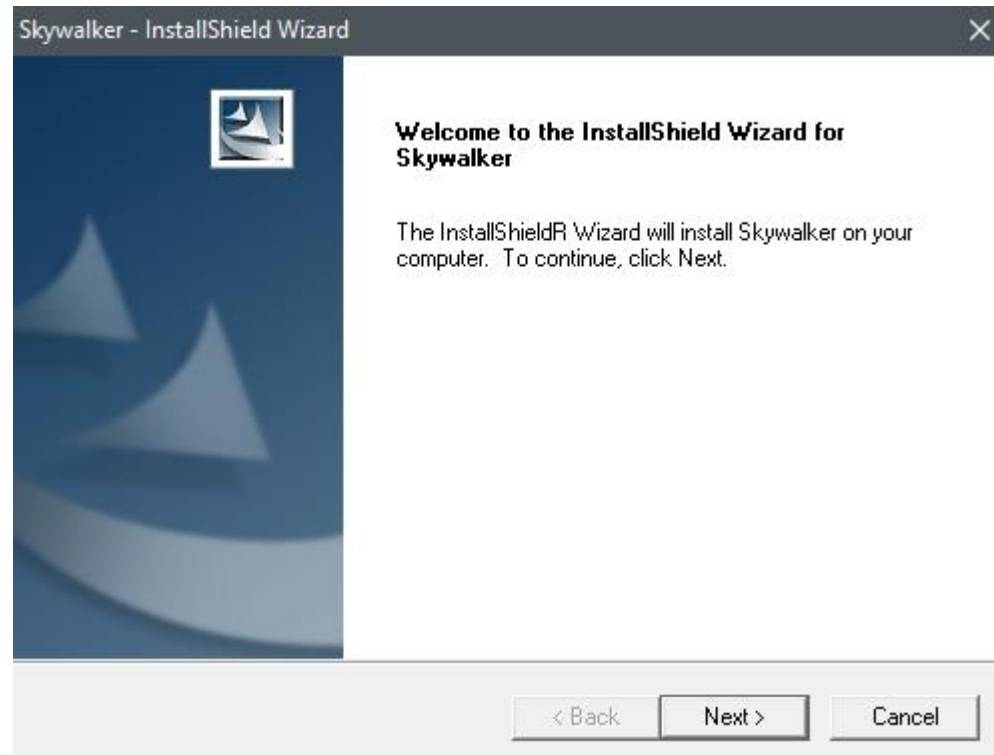
- System requirements

To run the program, one of the windows operating system is required

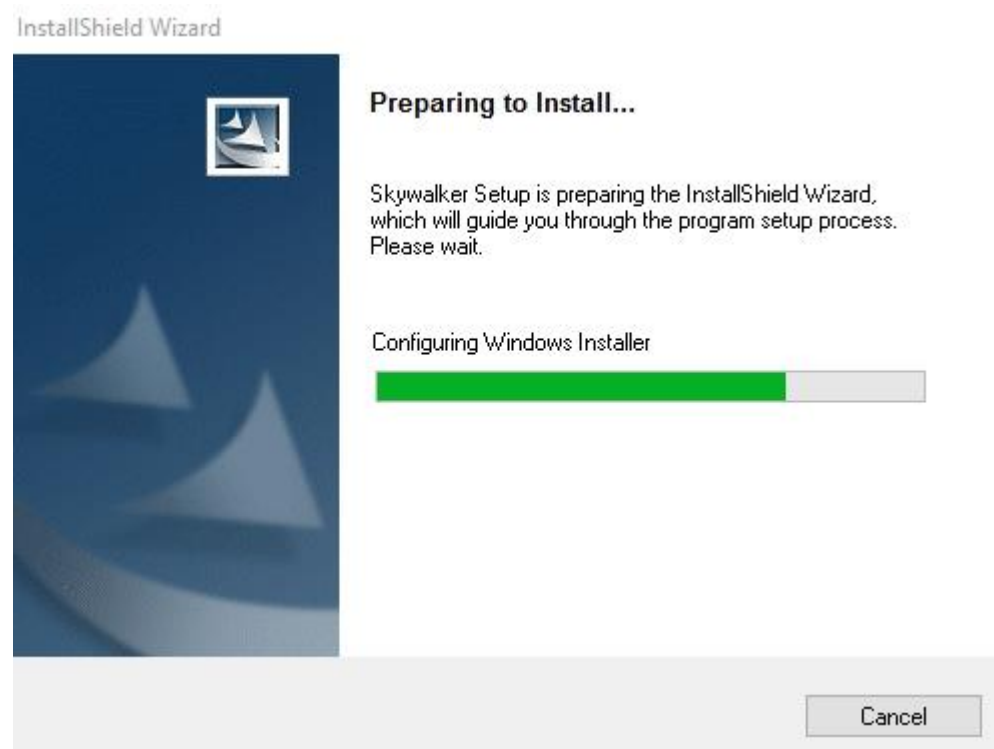
- Windows XP
- Windows Vista
- Windows 7
- Windows 8
- Windows 10

1.1. Install Skywalker

1. In the Skywalker- InstallShield Wizard, click Next.



Waiting for preparing install.



2. Enter User Name and Company Name and click Next

Skywalker - InstallShield Wizard

Customer Information

Please enter your information.

User Name:
Argox

Company Name:
Argox

Install this application for:

☒ Anyone who uses this computer (all users)

☐ Only for me

InstallShield

< Back Next > Cancel

3. Click Next in Typical option.

Skywalker - InstallShield Wizard

Setup Type

Select the setup type to install.

Click the type of setup you prefer, then click Next.

☒ **Typical** Program will be installed with the most common options. Recommended for most users.

☐ **Compact** Program will be installed with minimum required options.

☐ **Custom** You may select the options you want to install. Recommended for advanced users.

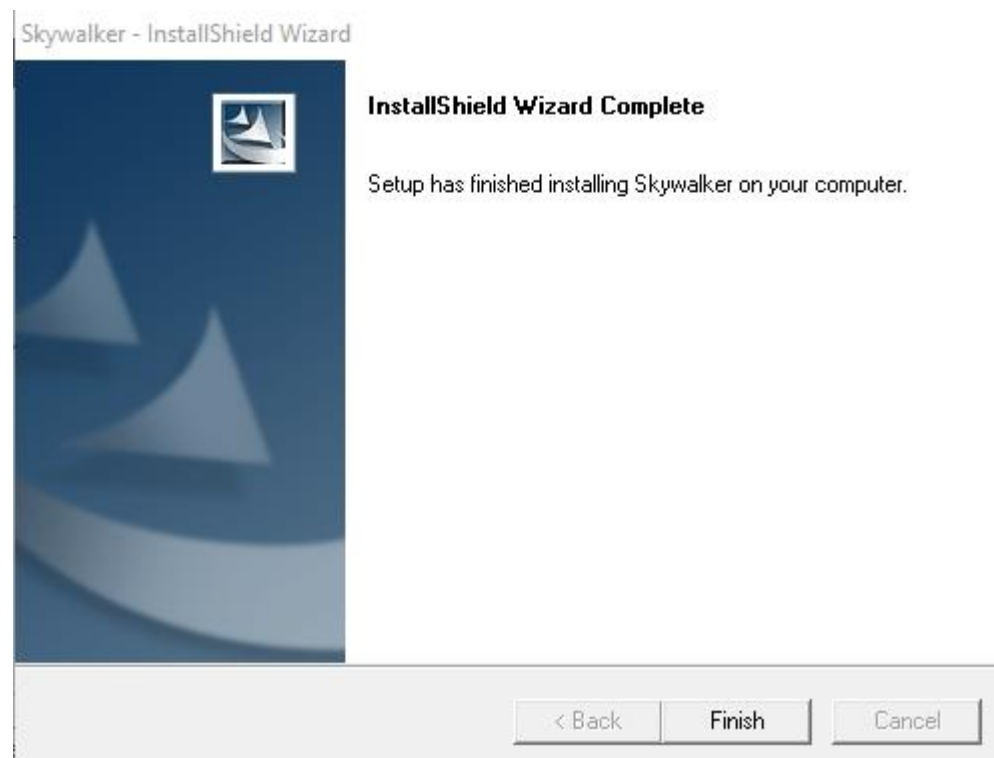
InstallShield

< Back Next > Cancel

- Click Next will start to install Skywalker.

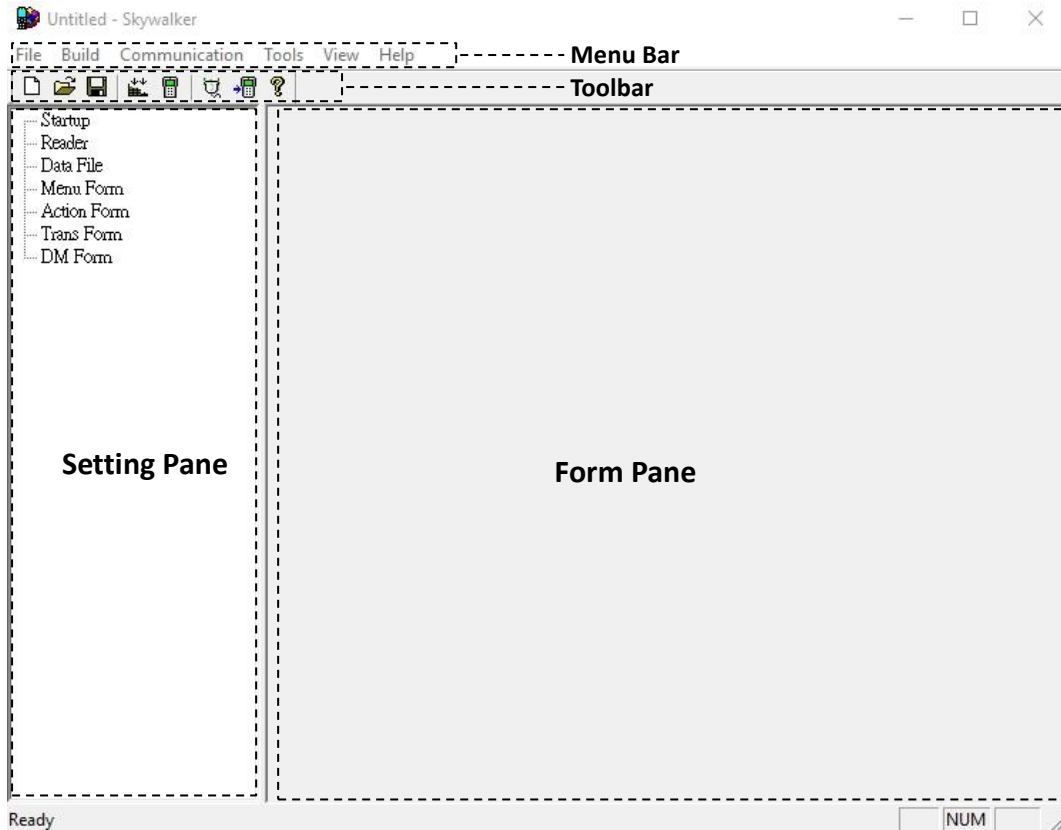


- After installation is complete, click "Finish".



1.2. Work area

Run the Skywalker program on your computer.



- **Menu Bar** It includes Skywalker menus.
- **Toolbar** Toolbar offers a shortcut for some functions.
- **Setting Pane** There are all related to make a project in Setting Pane. Double click can edit Startup and Reader, others can click “+” to expend form list, “-” to collapse form list after adding new object.
- **Form Pane** There are 4 type of form can be added and show in the Form Pane with a small preview screen. Double click can edit form, click and hold can drag form to any place in Form pane.



Note Right click in Setting pane and Form pane can add, edit and delete form and data.

1.3. Menu Bar

Menu Bar lets you access all of functions in Skywalker to create, design and transmit a project.



File

New: Create a new project.

New Object: Add a new form in project.

Data File: Add a new Data File in project.

Menu: Add a new Menu Form in project.

Form: Add a new Action Form in project.

Transmission: Add a new Transmission Form in project.

Data Manager: Add a new Data Manager Form in project.

Open: Open a project with .arp file name extension.

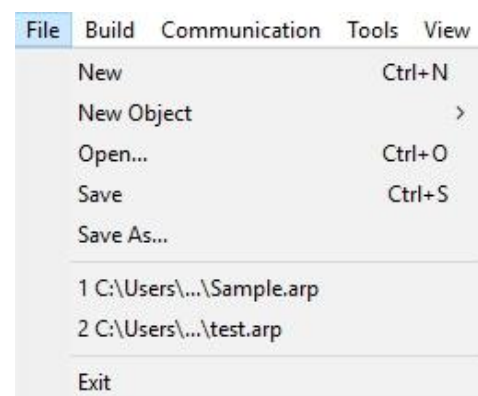
Save: Save the current project.

Save As: Save the current project to other new project.

1: Quick lunch for recent project

2: Quick lunch for recent project

Exit: Close Skywalker.

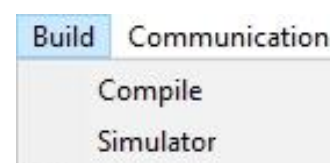


Build

Compile: To make sure current project is executable in Terminal format. It will show how much error and warning in project.

Simulator: If there is no error in the project after compile.

Simulator will open a PI series frame to simulate current project.

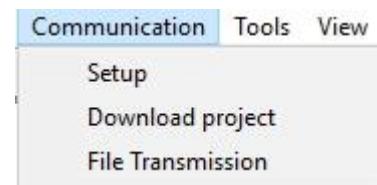


Communication

Setup: Setup download transmission port.

Download project: Before transmit project to terminal, it will compile project to check.

File Transmission: To select which file can be uploaded to PC or download to terminal.



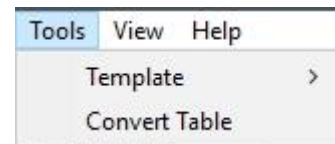
Tools

Template:

Record: make a template form from current project.

Insert: Add the saved template to current project.

Convert Table: When you output data, convert table can convert keywords to variable data.

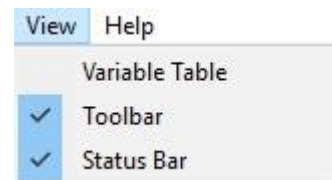


View

Variable Table: List a table to check which variable are used in form.

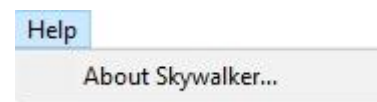
Toolbar: Turn on or Turn off Toolbar.

Status Bar: Turn on or Turn off Status bar.



Help

About Skywalker: Show the Skywalker version



1.4. Tool Bar



The shortcut to



Add new project.



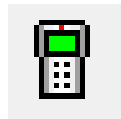
Open saved project.



Save Current project.



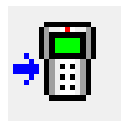
Compile



Simulator



Setup




Download project

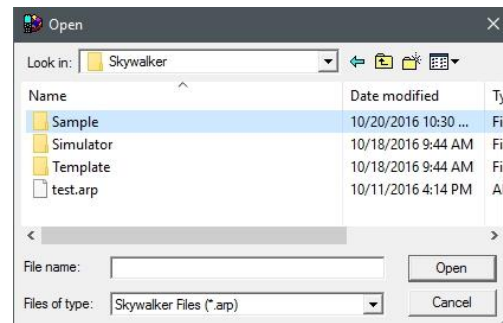


About Skywalker

2. Getting start

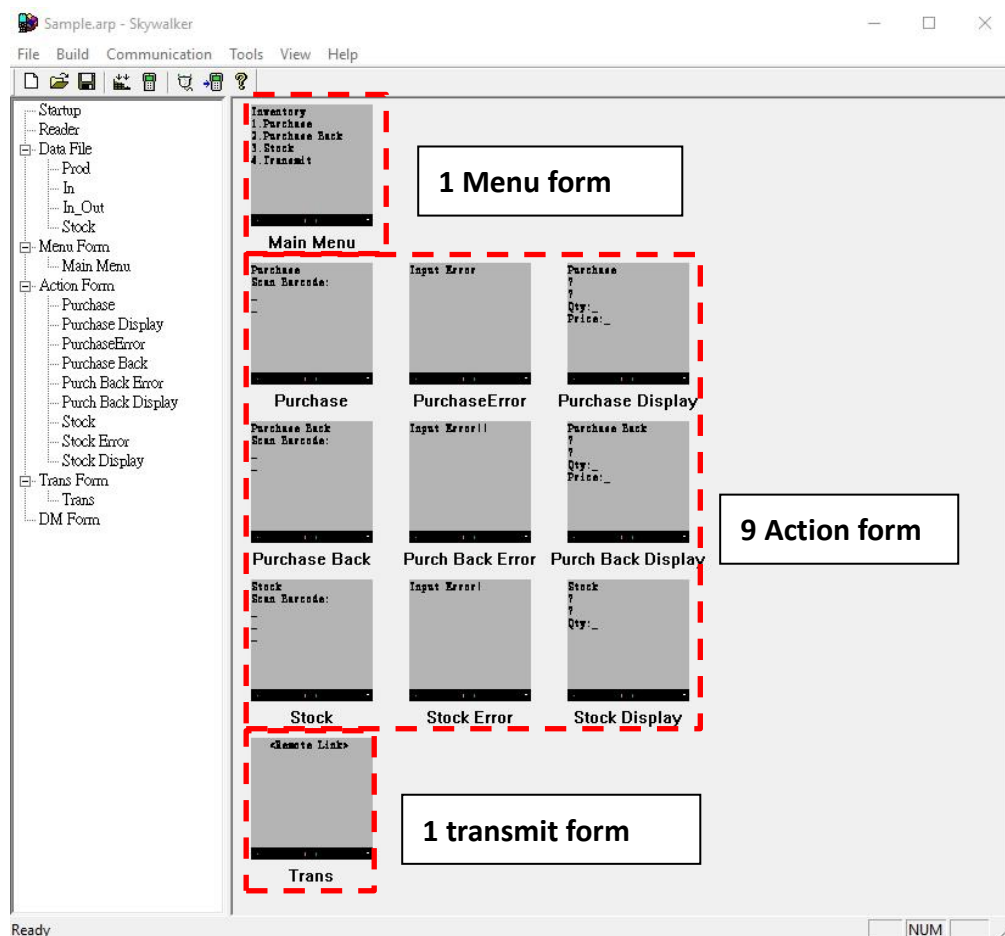
The foundation of project is build by forms. There are Menu, Action, Trans and DM form. Loading a Sample.arp can help you to easily understand forms. Follow the step below to open a sample project.

1. Click  icon
2. choose sample.arp in the sample file.



Sample.arp project introduction

Sample.arp is a simple demo for houseware management. It includes 1 Menu form, 9 action form and 1 transmit form to achieve Purchase, Purchase Back, Stock and transmission function.



2 Getting start

4 Data File are made for save or load data. Prod.dat file is saving all product data. It is already existed after installation Skywalker.

Documents > Skywalker > Sample

| Name | Date modified | Type |
|------------|-------------------|---------------|
| In.txt | 7/30/2016 3:14 PM | Text Document |
| In_Out.txt | | Text Document |
| Stock.txt | 7/31/2016 3:03 PM | Text Document |
| Prod.dat | 7/31/2016 3:57 PM | DAT File |

4 Data File

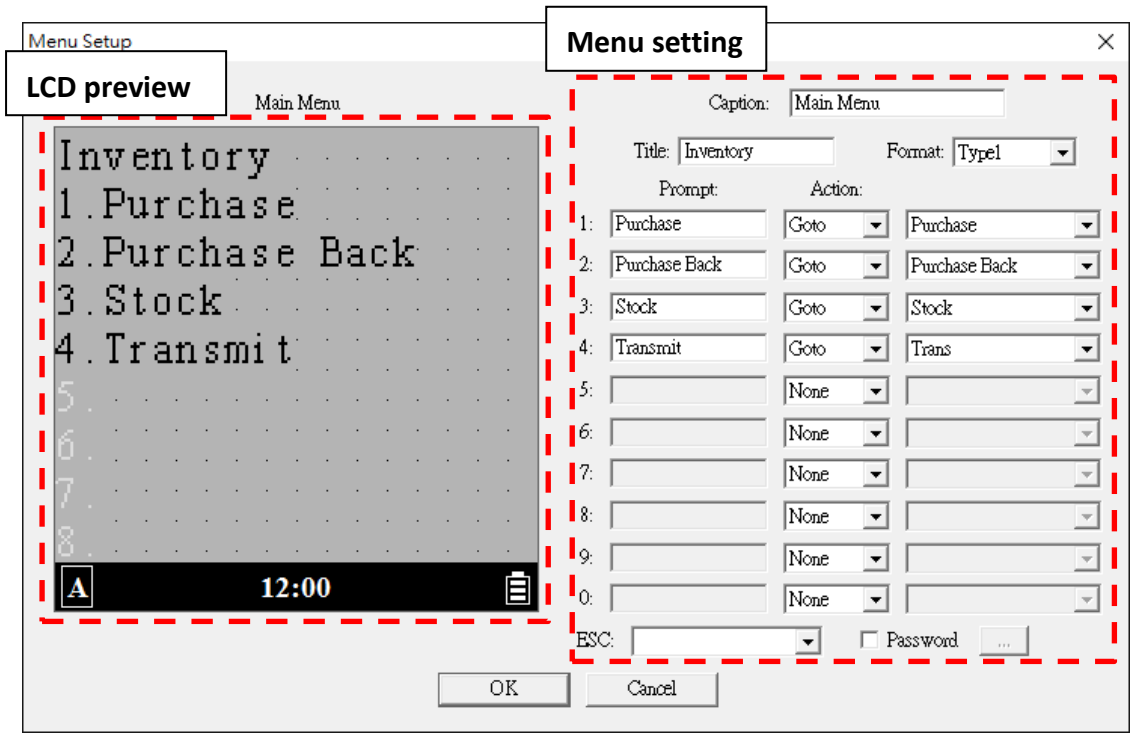
4 Variable are added for saving temporary data. It is created from input type in Action form

Variable table

| Variable | Purchase | P |
|------------|----------|---|
| m_ItemNo | O | |
| m_ProdM... | O | |
| m_Qty | | |
| m_Price | | |

2.1. Menu Form

Double click Main Menu to open Menu setup from Sample.arp.



Menu Setting Description

- Caption:** Define Menu name.
- Title:** Define Menu title in LCD screen.
- Format:** Put numeric menu in different order.



Type1

Inventory

1. Purchase

2. Purchase Back

3. Stock

4. Transmit

5.

6.

7.

8.

A

12:00

Type2

Inventory

1. Purchase6.

2. Purchase7.

3. Stock 8.

4. Transmit9.

5. 0.

A

12:00

Type3

Inventory

1. Purchase2. Purchase

3. Stock 4. Transmit

5. 6.

7. 8.

9. 0.

A

12:00

3 type of Format in LCD screen

| | | Prompt: | Action: | |
|----------------|----|---------------|-----------------------------------|---------------|
| Menu Number | 1: | Purchase | Goto | Purchase |
| | 2: | Purchase Back | Goto | Purchase Back |
| | 3: | Stock | Goto | Stock |
| | 4: | Transmit | Goto | Trans |
| | 5: | | None | |
| | 6: | | None | |
| | 7: | | None | |
| | 8: | | None | |
| | 9: | | None | |
| | 0: | | None | |
| ESC: | | | <input type="checkbox"/> Password | ... |

Menu number: The numbers 0~9 are PI Series numeric key.

Prompt: Action name.

Action: The Action after pressing numeric key.

None: It will close numeric key function.

Goto: Do the Action form which you choose.

Setting: Executing the setting which you choose.

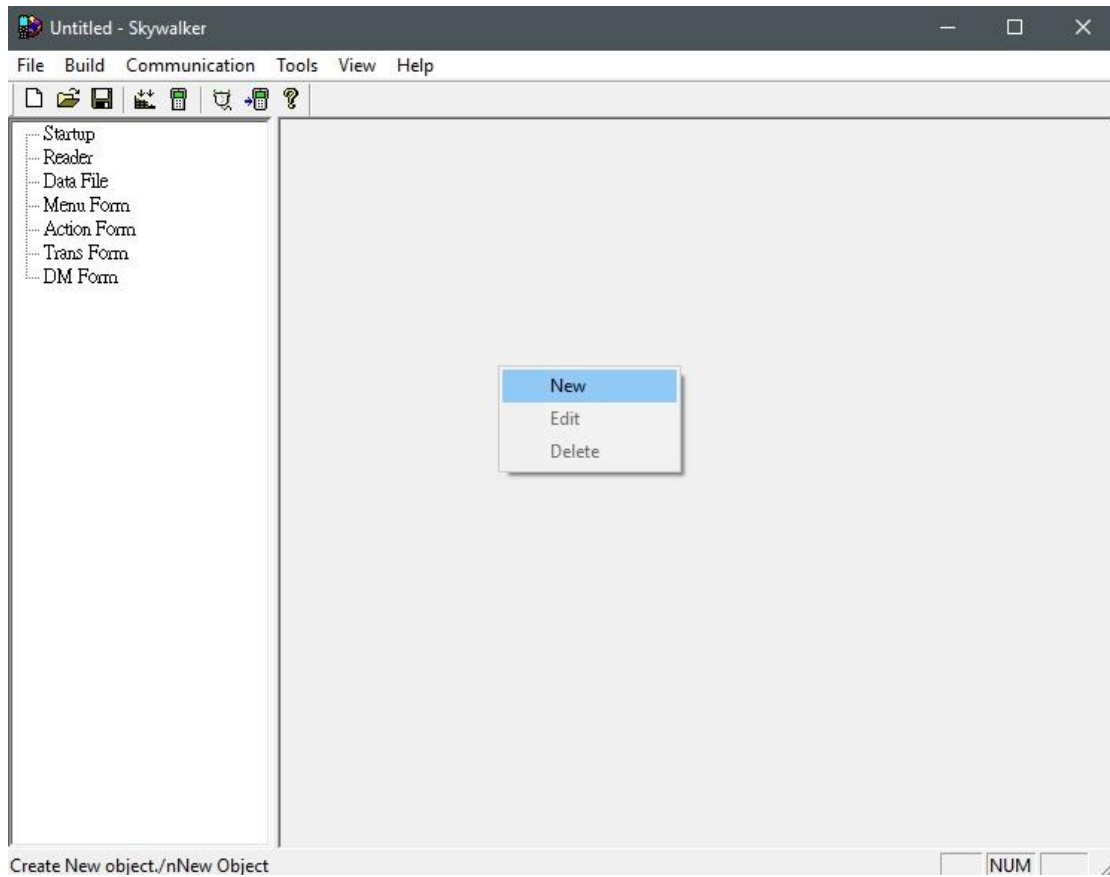
- Disk Info.: Show terminal hardware status
- Vibrator: Setting Vibrator.
- Key backlight timer: Setting Key backlight timer
- Key Click: Setting Key Click sounds Volume
- Date & Time: Setting terminal Date & Time
- System Information: Checking system information

ESC: Press "ESC" button will run the form. None will turn off the application.

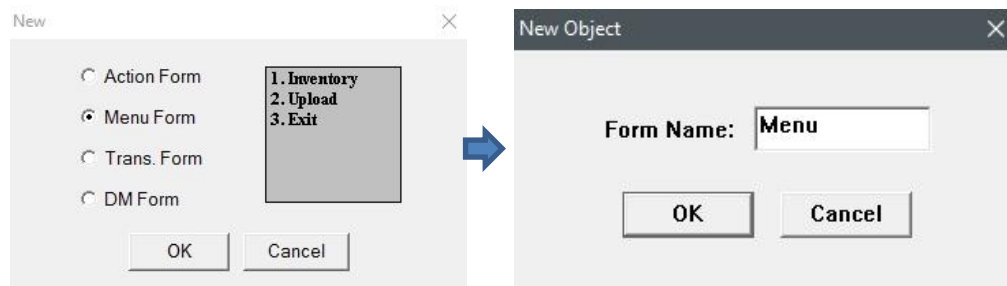
Password: Enter the password before you run the menu.

Create a simple Menu Form

Step.1 Right click in form pane and click **“New”**



Step.2 Select Menu and click **“OK”**. Enter the Form Name as you want.



Step.3 Fill **Caption**, **Title** and select a **Format**.

Form configuration window showing fields for Caption, Title, Format, Prompt, Action, and ESC. The Caption is 'Menu', Title is empty, Format is 'Type1'. The Action dropdowns are all set to 'None'.

Step.4 Click combo box under Action. Select “Goto” or “Setting” section to create a new menu list.

Two screenshots of the Menu Form configuration window. The left screenshot shows the 'Goto' action selected for 'Argox1', with a list of menu items including 'Main Menu', 'Purchase', 'Purchase Display', 'Purchase Error', 'Purchase Back', 'Purchase Back Error', 'Purchase Back Display', and 'Stock'. The right screenshot shows the 'Setting' action selected for 'Argox1', with a list of settings including 'Disk Info.', 'Vibration', 'Key backlight timer', 'Key click', 'Date & Time', and 'System Information'. Both screenshots have a red box around the action dropdown and its list.

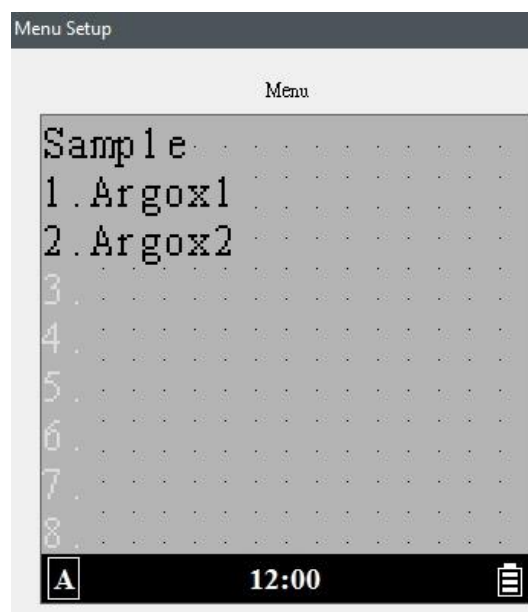
Show the forms here depends on you create.

Show the PI series setting

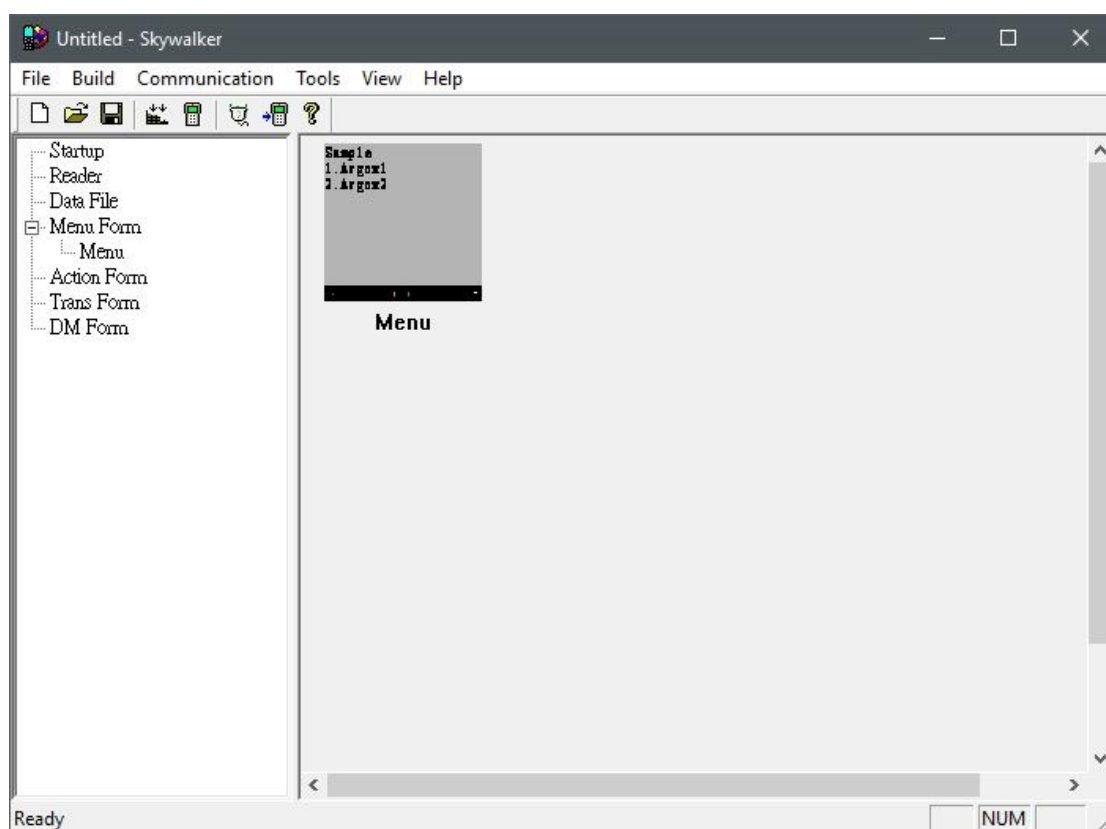


Note if you don't have any form yet. There will be empty after your action select “Goto”.

Step.5 LCD preview can display immediately after setting.



Step.6 Click "OK" button to create a menu form.



2.2. Action Form

There are 9 Action form in form pane from sample.arp. Double click Purchase form to open a Form Setup as a sample.

Action Setting Description

LCD preview : Left side shows preview in terminal LCD screen. Mark “?” or “_” means input data or variable data.

Action list : In the middle, Setting can modified location on next action form.

Action 1 to 20 can define purpose of action and run in sequence.

Setting or Action content: Click each one shows some function to edit in the right.

Setting: Setting from Action Form

- * **Caption:** Name of the Action Form
- * **Pause:** Set a pause when Form is finished.
- * **Next to:** Which Form will be run after this form is finished.
- * **ESC:** Which form will be run after press ESC bottom in terminal.

Action: Action form will run the action in sequence by “Action number”. The first action is “Action 1”, second is “Action 2” ...etc. Use “Up” and “Down” button can change action sequence. There are 9 action type in Action Form.

- ✧ **None:** Do nothing.
- ✧ **Display:** Display data on the screen. Select display time to define how long will be displayed.

- * Data

- Fixed Data: User types data in the prompt will shows on the screen.
- Lookup Data: Select Data File and Field to display data. Data in the prompt will display before Lookup data. Data File has to be searched. Otherwise, it should be blank or error data.
- Variable: Select Variable to display data. Variable has to be created. Otherwise, it should be blank or error data.

- * prompt: Data in the prompt will display before variable.

Type: **Display**

Data: **Fixed Data**

Prompt:

Display: **1.5 sec.**

- ✧ **Input:** Insert data in Variable. Select display time to define how long will be displayed.

- * Input: Select type to input variable. There are Keypad&Reader, Keypad, Reader and Date &Time. Date & Time load current time and date to saved in variable you set.
- * prompt: Data in the prompt will display before variable.
- * Variable: Select Variable to input data. Select "New..." to create variable.

Type: **Input**

Input: **Keypad & Reader**

Prompt:

Variable:

Advance

Display: **1.5 sec.**

Advance: Creating a new variable or setting variable


①

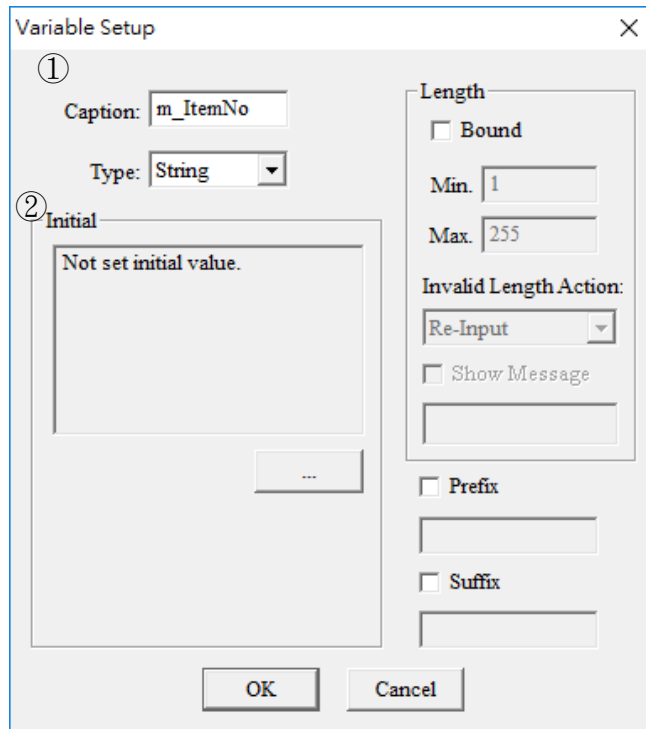
Caption: Set variable name

Type: Set variable data type

②

Initial: Display initial setting.

Click  button to set up initial setup.

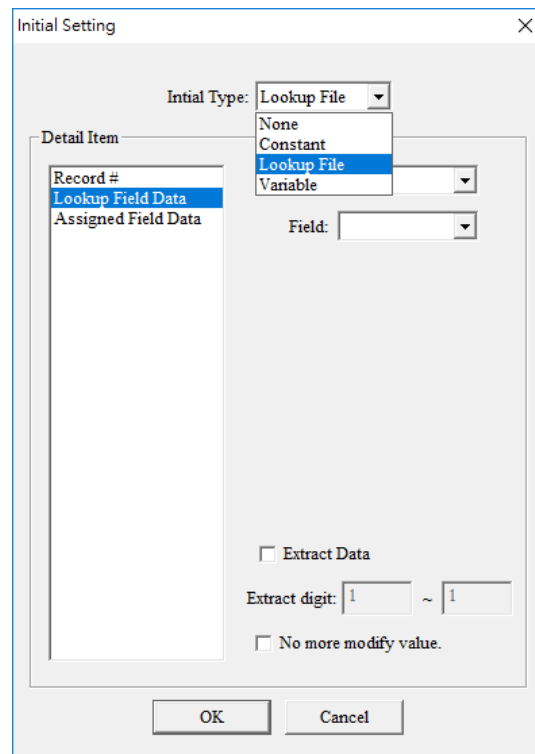


The Variable Setup dialog box is used to configure a variable. It includes the following fields and options:

- Caption:** A text field containing "m_ItemNo".
- Type:** A dropdown menu set to "String".
- Initial:** A large text area containing "Not set initial value." with a button (three dots) at the bottom right.
- Length:**
 - ☐ Bound
 - Min:** 1
 - Max:** 255
- Invalid Length Action:** A dropdown menu set to "Re-Input".
- ☐ Show Message
- ☐ Prefix
- ☐ Suffix
- Buttons:** OK and Cancel at the bottom.

Initial Type

- * None: No initial value.
- * Constant: Set fixed data as initial value.
- * Lookup file: Get lookup file data as initial value.
 - Record #: Set data file records or filtered records as initial value.
 - Lookup Field Data: Set lookup field data as initial value.
 - Assigned Field Data: Set fixed record and field data or variable record field data as initial value
- * Variable:
 - Value: Set variable as initial value
 - Data Length: Set variable data length as initial value.
- Extract Data: Extract data from setup source.
- Click "No more modify value" can not allowed to change value by user.



The Initial Setting dialog box is used to configure the initial value for a variable. It includes the following fields and options:

- Initial Type:** A dropdown menu with options: None, Constant, Lookup File, and Variable. "Lookup File" is selected.
- Detail Item:** A list box with options: Record #, Lookup Field Data, and Assigned Field Data. "Lookup Field Data" is selected.
- Field:** A dropdown menu.
- ☐ Extract Data
- Extract digit:** 1 ~ 1
- ☐ No more modify value.
- Buttons:** OK and Cancel at the bottom.

③

Length: Click Bound to active. Set minimum and maximum bound of length.
 Invalid Length Action: Set the reaction if length is out of bound.

- * None: Do nothing
- * Re-Input: Request input again
 - Show Message: Display message if you want.
- * Goto: Select a form to go.

The image shows a 'Variable Setup' dialog box. On the left, the 'Caption' is 'm_ItemNo' and the 'Type' is 'String'. Below this is an 'Initial' section with a text area containing 'Not set initial value.' and a button with three dots. On the right, the 'Length' section has a 'Bound' checkbox (checked), 'Min.' set to '1', and 'Max.' set to '255'. Below that, the 'Invalid Length Action:' dropdown is set to 'Re-Input', and the 'Show Message' checkbox is unchecked. At the bottom right, the 'Prefix' and 'Suffix' checkboxes are unchecked, each followed by an empty text field. The 'OK' and 'Cancel' buttons are at the bottom center.

④

Prefix, Suffix: Set Prefix and Suffix character which will be saved in the variable.

✧ **Lookup:** Search data file.

- * File: Select File in combo box.

Action 7

Type: Lookup

File: Data File

Advance

* **Advance:**

- Data File: Active data file.
- Key Filed: Pickup Key Field and choice a variable to set Field for lookup. (Pickup multi Key Field for multi lookup). If you not pickup Key Field and choice variable in Field, it will save Field Data to variable after lookup data.
- Data found: Set next action if data is founded. Continue is keep go to next process you set.

Lookup Advance Setup

Setup

Data File: Data File

| | Key Field | Filed | Lookup / Save Var. |
|----|--------------------------|---------------------|--------------------|
| 1. | <input type="checkbox"/> | Field1 | None |
| 2. | <input type="checkbox"/> | Field2 | None |
| 3. | <input type="checkbox"/> | Field3 | None |
| 4. | <input type="checkbox"/> | Field4 | None |
| 5. | <input type="checkbox"/> | Field5 | None |

Data Found

Action: Continue

Data Unfound

Action: Continue

OK Cancel

“Goto” is moving to other form. “Re-Action” is back to the action number witch you want in the form. You can show message if you like.

- Data Un-found: Set next action if data is un-found. Continue is keep go to next process you set. “Goto” is link to next form. “Re-Action” is back to the action number witch you want in the form. You can show message if you like.

Operand: Mathematic operation

- * Setup: Select “Operand 1” and “Operator2” type and choose a “Operator”.
Save it in “Result Record to” column. The formula shows as below.

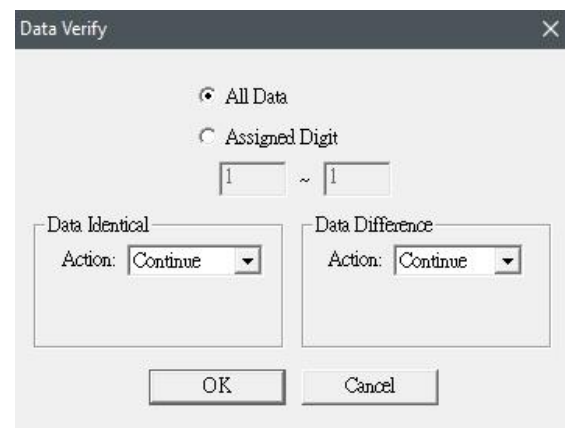
- Type: Operand type
Constant: Set a constant for operand.
Variable: Select a variable for operand.
Lookup Field: Set a Lookup File Field for operand.

✧ **Data Verify:** Verify data.

- * Verified: Select a Variable data to be verified.
- * Veri. with: Set type .
 - Constant: Variable data verifies a constant.
Enter a constant in Data column.
 - Variable: Variable data verifies a variable.
Select a “Variable”.
 - Lookup file: Variable data verifies lookup file. Select “File” and “Field”.

* **Advance**

- All Data: Verified all data.
- Assigned Digit: Set a range of digit position in "Look Var." to Verify Data.
- Data Identical: Set next action if data is founded. Continue is keep go to next process you set. "Goto" is link to next form. "Re-Action" is back to the action number witch you want in the form. You can show message if you like.
- Data Difference: Set next action if data is un-found. Continue is keep go to next process you set. "Goto" is link to next form. "Re-Action" is back to the action number witch you want in the form. You can show message if you like.

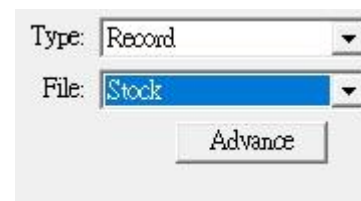


The "Data Verify" dialog box contains the following elements:

- Radio buttons for "All Data" (selected) and "Assigned Digit".
- Input fields for "Assigned Digit" showing "1" and "1" with a tilde (~) between them.
- Two sections: "Data Identical" and "Data Difference", each with a dropdown menu set to "Continue".
- "OK" and "Cancel" buttons at the bottom.

✧ **Record:** Record to a Lookup file

- * File: Select a File to be recorded

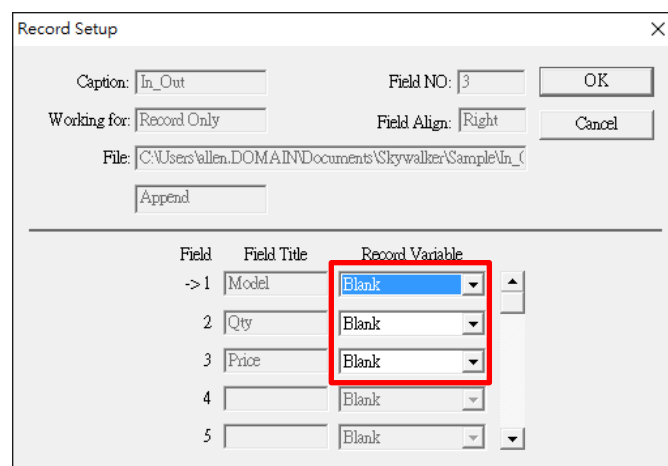


The "Record" dialog box contains the following elements:

- A "Type" dropdown menu set to "Record".
- A "File" dropdown menu set to "Stock".
- An "Advance" button.

- * **Advance:** Set which data record to lookup file.

- * **Record Variable:**
Select Record Variable to each field in Lookup file. If select "Blank", it will be blank in the data .



The "Record Setup" dialog box contains the following elements:

- Fields for "Caption" (In_Out), "Field NO" (3), "Working for" (Record Only), "Field Align" (Right), and "File" (C:\Users\allen.DOMAIN\Documents\Skywalker\Sample\In_C).
- "Append", "OK", and "Cancel" buttons.
- A table with columns "Field", "Field Title", and "Record Variable":

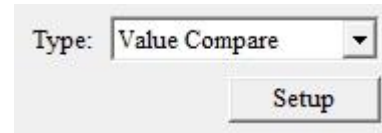
| Field | Field Title | Record Variable |
|-------|-------------|-----------------|
| -> 1 | Model | Blank |
| 2 | Qty | Blank |
| 3 | Price | Blank |
| 4 | | Blank |
| 5 | | Blank |

✧ **Output:** Transmit selected data by Linking port.

- * Port: Select Linking port to transmit.
- * Data: Select “Variable” or “File”.
 - Variable: Select a variable to output

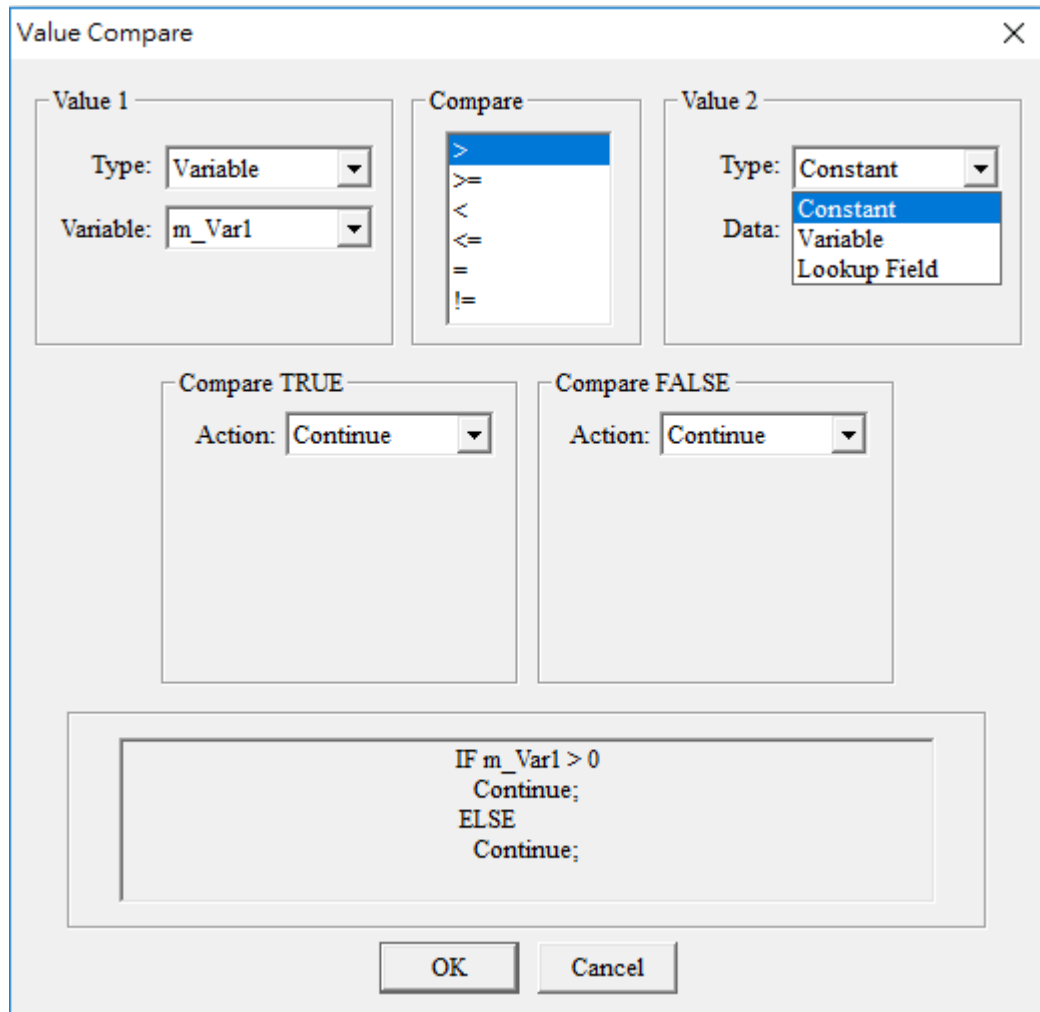
- File: Select a file to output data from linking port.
 - Advance button can use convert table to transform data to variable data. For Create a new covert table, please refer to [Ch 4.2.2 Convert Table](#)

✧ **Value Compare:** Compare two value.



A dropdown menu with the text "Value Compare" and a "Setup" button below it.

- * Setup: Set "Value 1" and "Value 2" then choose a "Compare". "Compare TRUE" and "Compare FALSE" define next action after compare two value.



The "Value Compare" dialog box contains the following fields and options:

- Value 1:** Type: Variable, Variable: m_Var1
- Compare:** A list of comparison operators: >, >=, <, <=, =, !=. The ">" operator is selected.
- Value 2:** Type: Constant, Data: Constant (selected), Variable, Lookup Field
- Compare TRUE:** Action: Continue
- Compare FALSE:** Action: Continue
- Code Editor:** A text area containing the following code:

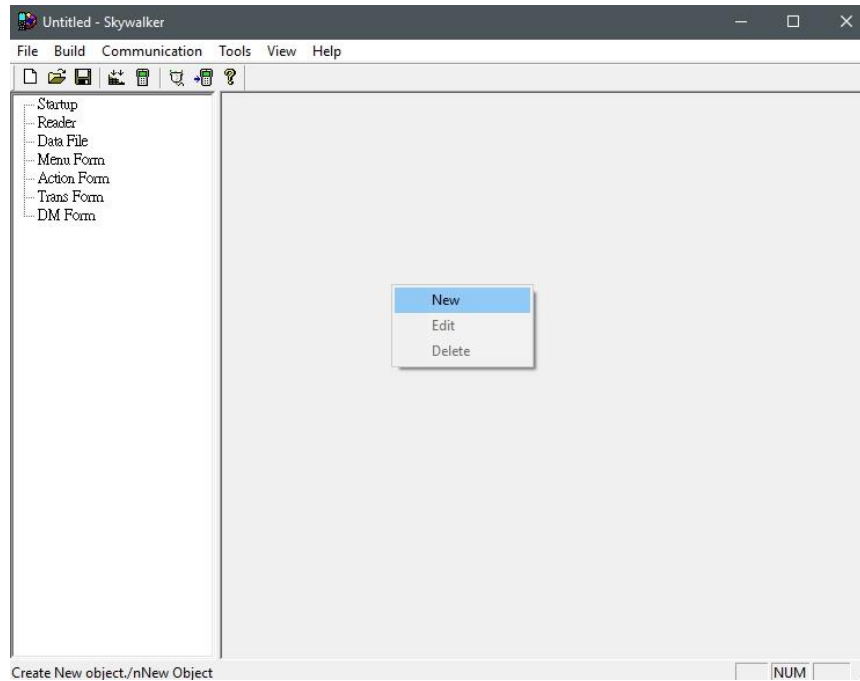

```
IF m_Var1 > 0
  Continue;
ELSE
  Continue;
```
- Buttons:** OK, Cancel

- Type: Compare type
 Constant: Set a constant for compare.
 Variable: Select a variable for compare.
 Lookup Field: Set a Lookup File Field for compare.
- Compare TRUE: Set next action if condition is TRUE. Continue is keep go to next process you set. "Goto" is link to next form. "Re-Action" is back to the action number witch you want in the form. You can show message if you like.
- Compare FALSE: Set next action if condition is FALSE. Continue is keep

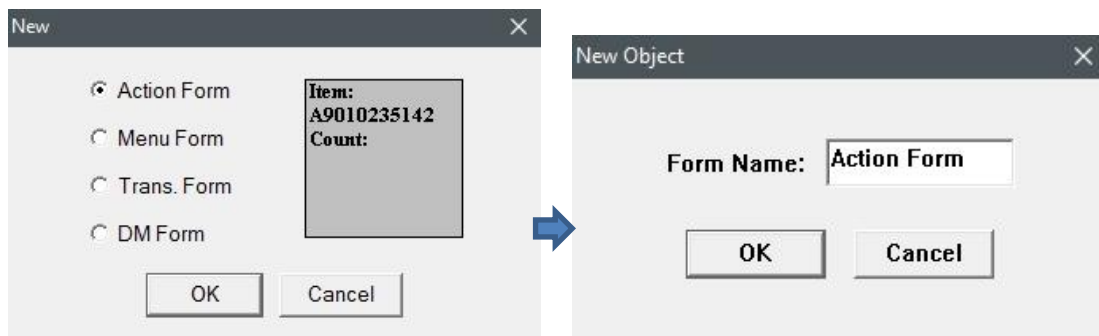
go to next process you set. "Goto" is link to next form. "Re-Action" is back to the action number witch you want in the form. You can show message if you like.

Create a simple Action Form

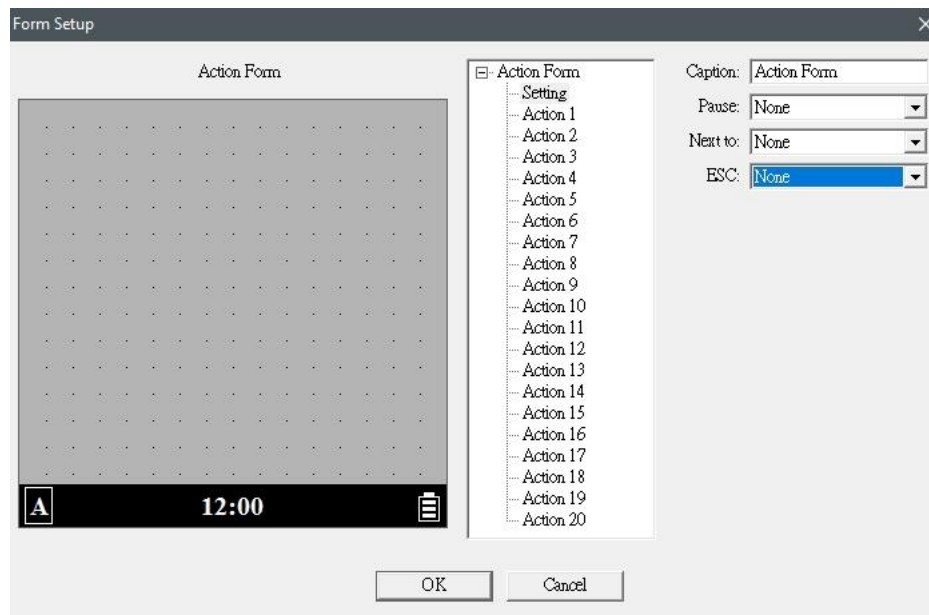
Step.1 Right click in form pane and click **“New”**



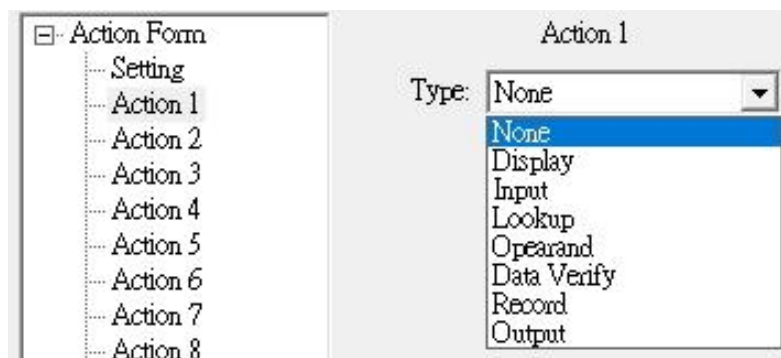
Step.2 Select Form and click **“OK”**. Enter the Form Name as you want.



Step.3 Set the Setting in this action form.



Step.4 Set action one by one. PI series will execute action by sequence.



Step.5 Here is a sample in action setup.

The screenshot shows the 'Form Setup' dialog box for a form titled 'Purchase'. The dialog is divided into three main sections:

- Preview (Left):** Displays a grid representing the form layout. The text 'Purchase' and 'Scan Barcode:' is visible at the top. At the bottom, there is a status bar with a button labeled 'A', the time '12:00', and a printer icon.
- Actions (Center):** A list of actions for the form, including:
 - Setting
 - Action 1 (Display)
 - Action 2 (Display)
 - Action 3 (Input)
 - Action 4 (Lookup)
 - Action 5 (Input)
 - Action 6
 - Action 7
 - Action 8
 - Action 9
 - Action 10
 - Action 11
 - Action 12
 - Action 13
 - Action 14
 - Action 15
 - Action 16
 - Action 17
 - Action 18
 - Action 19
 - Action 20
- Configuration (Right):** Fields for setting the form's behavior:
 - Caption:** Purchase
 - Pause:** None
 - Next to:** Purchase Display
 - ESC:** Main Menu

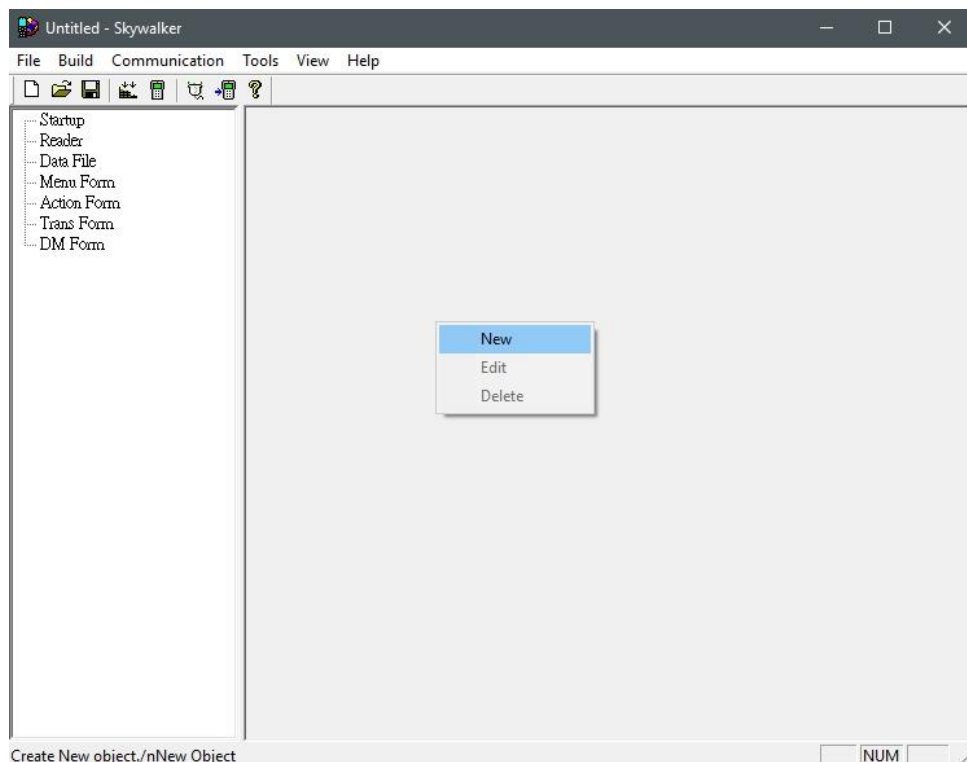
At the bottom of the dialog are 'OK' and 'Cancel' buttons.

2.3. Transmission Form(Trans Form)

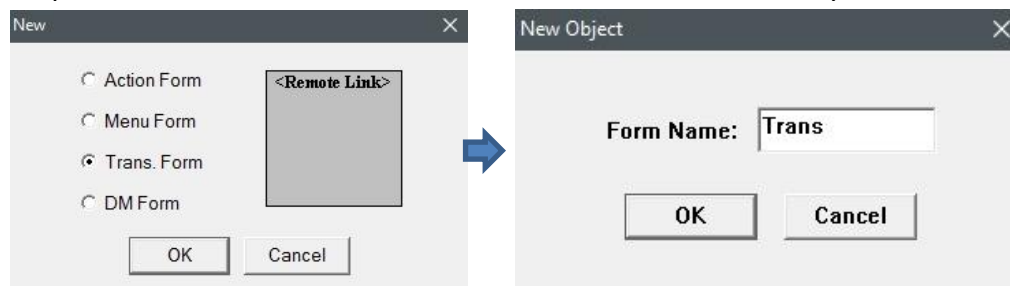
Create a form in to transmission mode. Let terminal is easy to connect to PC

Create a Transmission Form

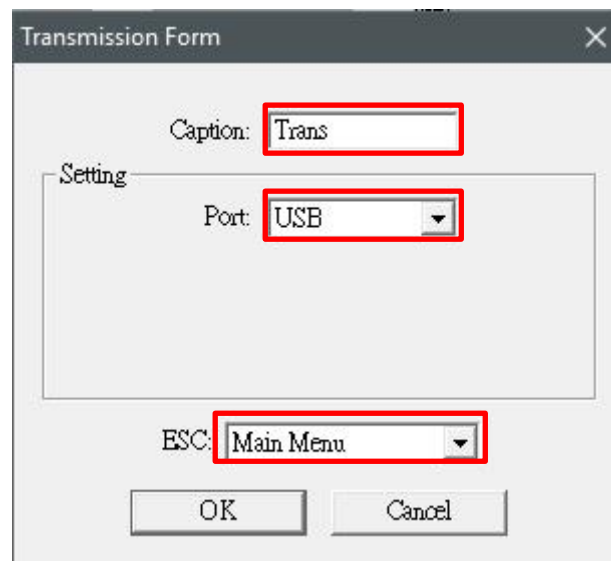
Step.1 Right click in form pane and click “New”



Step.2 Select Menu and click “OK”. Enter the Form Name as you want.



Step.3 Name the caption and select combo box. Click OK



The screenshot shows a dialog box titled "Transmission Form" with a close button (X) in the top right corner. Inside the dialog, there are three input fields, each highlighted with a red rectangle: "Caption:" with the text "Trans", "Port:" with a dropdown menu showing "USB", and "ESC:" with a dropdown menu showing "Main Menu". Below these fields are two buttons: "OK" and "Cancel".

- * Caption: Name of transmission form
- * Port: Select a port to transmit data.
 - By system: Use the system setting to transmit
 - Com/USB/Bluetooth: Select Com/USB/Bluetooth to transmit.
- * ESC: Select a form to go after press ESC.

2.4. Data Manager Form(DM Form)

Manage data file in the project to browse, edit, delete directly.

The screenshot shows the 'Data Manager' dialog box. At the top, there are input fields for 'Caption' (containing 'Data Manager') and 'Title'. Below these are two text areas: 'Data File' containing 'In Prod' and 'Working File' containing 'In_Out Stock'. Between them are two buttons: '-->' and '<--'. The dialog is divided into three main sections, each with a checked checkbox and a 'Prompt' field:

- Data Browser:** Contains checkboxes for 'From first' (unchecked), 'Assigned' (checked), and 'Search' (checked). The 'Prompt' field contains 'From Head'.
- Data Edit:** Contains checkboxes for 'Assigned' (checked) and 'Search' (checked). The 'Prompt' field contains 'Assigned'.
- Data Delete:** Contains checkboxes for 'Assigned' (checked), 'Search' (checked), and 'Delete All' (unchecked). The 'Prompt' field contains 'Assigned'.

At the bottom right, there is an 'ESC:' dropdown menu. At the bottom center are 'OK' and 'Cancel' buttons.

Data Manager Setting Description

This is another screenshot of the 'Data Manager' dialog box, showing the same layout as the first one. It includes the 'Caption' and 'Title' fields, the 'Data File' and 'Working File' text areas with transfer buttons, the three checked sections (Data Browser, Data Edit, Data Delete) with their respective checkboxes and prompts, the 'ESC:' dropdown, and the 'OK' and 'Cancel' buttons.

- * Caption: Name of Data Manage form
- * Title: Set Title in the screen.

- * Data File: Data file list of project.
- * Working File: Click → to Move data file you want to work.

The screenshot shows the Data Manager Form (DM Form) with three main sections: Data Browser, Data Edit, and Data Delete. Each section has a 'Prompt' label and a text input field. The 'Data Browser' section has checkboxes for 'From first', 'Assigned', and 'Search'. The 'Data Edit' section has checkboxes for 'Assigned' and 'Search'. The 'Data Delete' section has checkboxes for 'Assigned', 'Search', and 'Delete All'. An 'ESC:' label with a dropdown menu is located at the bottom right.

- * Data Browser, Data Edit, Data Delete: Click to open the function
 - From first: Start from first data
 - Assigned: Assign which record you want to manage.
 - Search: Enter data to search the field which you set Key field in Data File setting. Manage data if data search is matched.
 - Delete All: Delete all data.
- * ESC: Click ESC back to other form or do nothing.

3.Setting

3.1. Startup

Startup Setting Description

- * Font: Set project font and binary. Select 2 Bytes if font is design in 2 bytes.
- * Start at: Set first form after you run this project.
- * Check AID: Before running application, AID and Password is checked and correct. (Terminal AID setting refer to PI Series user manual)
AID, Password: Set AID and password between 4-8 character.
- * Status bar: Display terminal status bar or not.
- * P1,P2,P3: Set P1,P2,P3 to simulate other pad.

3 Setting

- * Auto Off: Set auto shutdown time.
- * LCD Backlight: Set Terminal LCD backlight time.
- * Keypad:
 - Backlight: Set terminal keypad time
 - Click: Select to control keypad click sound enable or disable.
- * Error indication: Set application error warning.
 - LED indication: Enable or disable LED
 - Beeper indication: Enable or disable beeper
 - Vibrator indication: Enable or disable vibration

Data Manager Form(DM Form)

The screenshot shows a software interface for configuring various settings. It includes checkboxes for 'Auto Off' (set to 30 sec), 'LCD Backlight' (set to 20 sec), and a 'Keypad' section with 'Backlight' (30 sec) and 'Click' (set to 'Disable' via a dropdown). Below these is an 'Error indication' section with three checked options: 'LED indication', 'Beeper indication', and 'Vibrator indication'.

| | | |
|---|---------|------|
| <input type="checkbox"/> Auto Off | 30 | sec. |
| <input type="checkbox"/> LCD Backlight | 20 | sec. |
| Keypad | | |
| <input type="checkbox"/> Backlight | 30 | sec. |
| <input type="checkbox"/> Click | Disable | |
| Error indication | | |
| <input checked="" type="checkbox"/> LED indication | | |
| <input checked="" type="checkbox"/> Beeper indication | | |
| <input type="checkbox"/> Vibrator indication | | |

3.2. Reader

PI series support 21 type barcode to fulfill different scan request. Double click Reader in setting pane to adjust the scan system. If you want to know the default in Skywalker, see [Appendix A](#)

Reader Description

Setup tab

Here can directly set scan function

Industrial 2 of 5 | Interleaved 2 of 5 | Standard 2 of 5 | MSI Plessey | UK Plessey | Telepen | UPCA | UPCE | Matrix 2 of 5 | China post | RSS 14 | RSS Limited | RSS Expanded | Italian Pharmacode 39 | Code 11 | Code 39 | Code 93 | Code 128 | Codabar | EAN8 | EAN13

Setup

Indication

LED

Enable

Buzzer

Enable

Vibrator (0.1 sec)

0

Transmission

Preamble

Disable

Postamble

Disable

ID Position

Before Data

Code ID

Disable

Code Length

Disable

Code Name

Disable

Conversion

Disable

Scan

Double Confirm

0

Min. Code Length

4

Max. Code Length

99

Inverted Image

Disable

String Setting

Prefix char.

Suffix char.

Preamble char.

Postamble char.

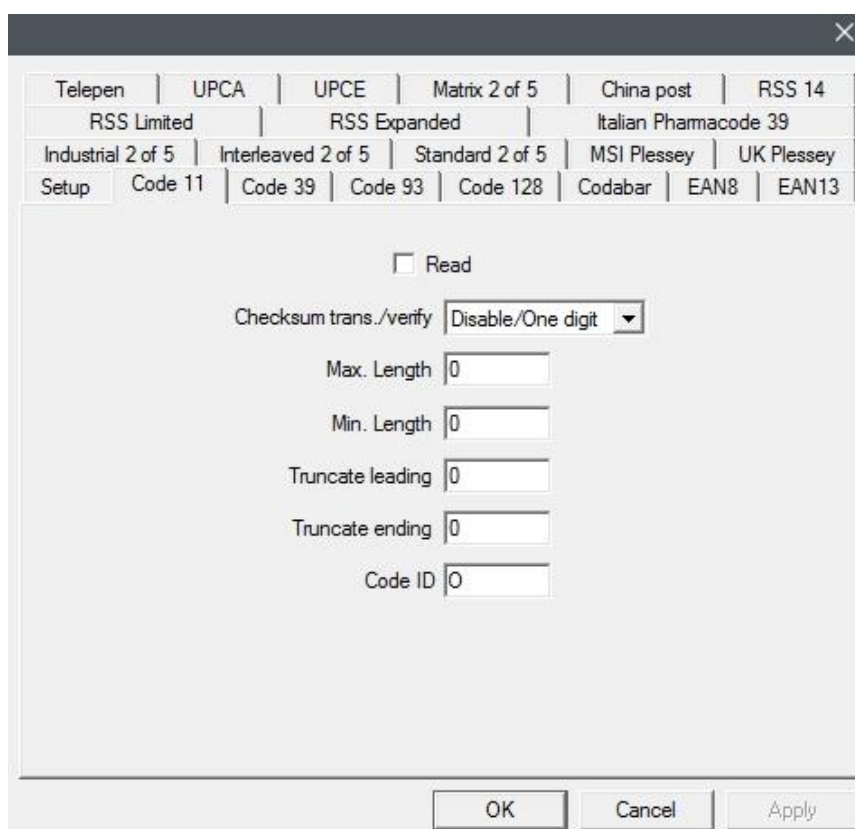
確定

取消

套用(A)

Barcode type tab

Adjust different barcode



A screenshot of a software window titled "Barcode type tab" with a close button (X) in the top right corner. The window contains a grid of barcode type buttons at the top, followed by a "Read" checkbox, a "Checksum trans./verify" dropdown menu, and several input fields for "Max. Length", "Min. Length", "Truncate leading", "Truncate ending", and "Code ID". At the bottom are "OK", "Cancel", and "Apply" buttons.

| | | | | | |
|-------------------|--------------------|-----------------|---------------|-----------------------|------------------------|
| Telepen | UPCA | UPCE | Matrix 2 of 5 | China post | RSS 14 |
| RSS Limited | | RSS Expanded | | Italian Pharmacode 39 | |
| Industrial 2 of 5 | Interleaved 2 of 5 | Standard 2 of 5 | | MSI Plessey | UK Plessey |
| Setup | Code 11 | Code 39 | Code 93 | Code 128 | Codabar EAN8 EAN13 |

☐ Read

Checksum trans./verify: Disable/One digit ▼

Max. Length:

Min. Length:

Truncate leading:

Truncate ending:

Code ID:

OK Cancel Apply

3.3. Data File






Data File Description

| Record/Data Manager Key | Length | Field Title |
|----------------------------------|--------|-------------|
| <input checked="" type="radio"/> | 1. | |
| <input type="radio"/> | 2. | |
| <input type="radio"/> | 3. | |
| <input type="radio"/> | 4. | |
| <input type="radio"/> | 5. | |

- * Caption: Name Data File.
- * Working for: Select data file type
 - Lookup only: Data File is only for search.
 - Lookup & Record: Data File can search and record data.
 - Record only: Data File is only for record.
- * File: Search and select file you want to use in PC. User has to create a data file to be selected.
- * Field No: Set number of Data file field. Maximum is 20.
- * Field Align: Set field align left or right.
- * Record Format:
 - Append: Record a new data behind data file.
 - Overwrite: Search Key field you choose. if it is matched, overwrite the data. Otherwise, add a new data behind it.

- * Terminal Location: Set file to be loaded in which terminal storage.
- * Record/Data Manager Key: select a field to be searched. Only used in record format set on overwrite or DM form for search.
- * Length: set the length of field. (0~255)
- * Field Title: Name the field title for identified in Skywalker.

Name

 In.txt
 In_Out.txt
 Prod.dat
 Sample.arp
 Stock.txt

4. Utility

4.1. Build

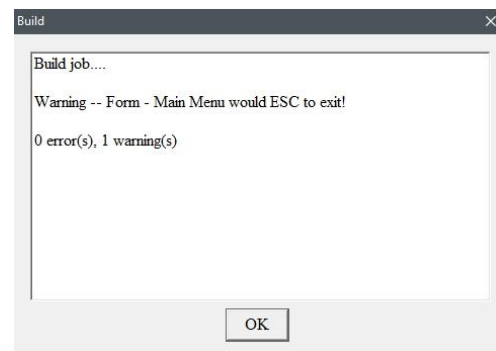
After you complete the whole progress of form and setting, you may want to know the project is work or not in terminal. Use Compile as a detection to find error and warning. Use Simulator to see how does it work in terminal.

4.1.1. Compile



Compile project to terminal language and check error and warning. Fix it as much as you can until there is no error.

Compiler produce a file extension (*.prj). it will save to default directory in PC My Document\PhoenixVoler. If you want to run the same project with different PC, Move (*.prj) file to the PC in same directory. Run PhonixVoler with project mode to download project.



4.1.2. Simulator



Run simulator will open a PI series screen. Press power button(red) to turn on PI series. You can see app in the "1. Run program". Operation is the same as PI series except Reader function need user to type in keypad.



Important About system setting, Program default and change will only saved in the program.

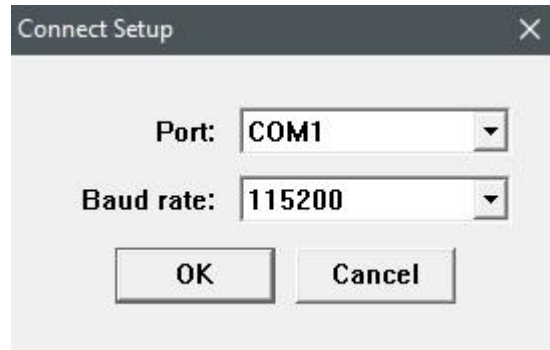


4.2. Communication

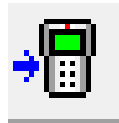
4.2.1. Setup



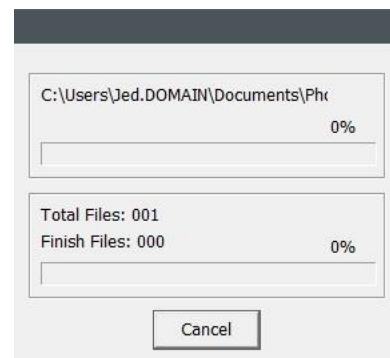
In the port box, select port which terminal is connect to PC. If it is USB port, it will show PI Series name directly. Make sure which port and baud rate you set in terminal is right.



4.2.2. Download project



Download project after setup communication. Before download project to terminal, it has to be no error.

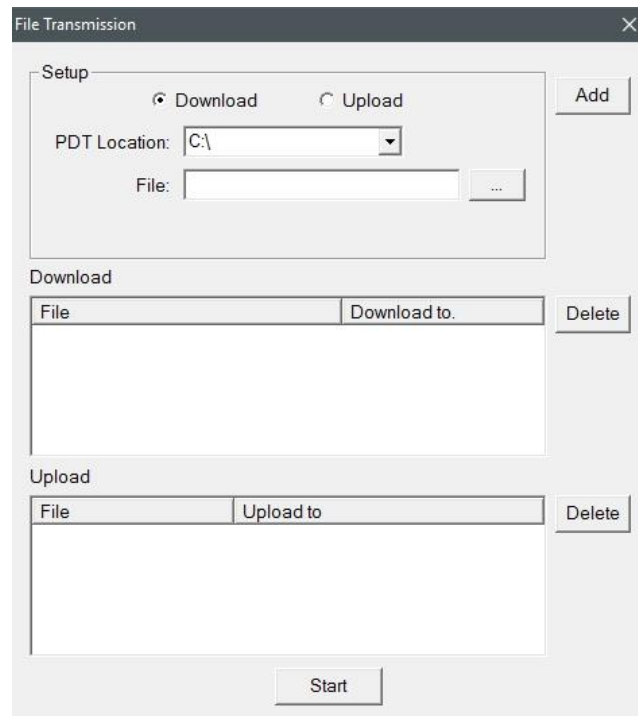


4.2.3. File Transmission

File transmission can Upload and download specific file to terminal.

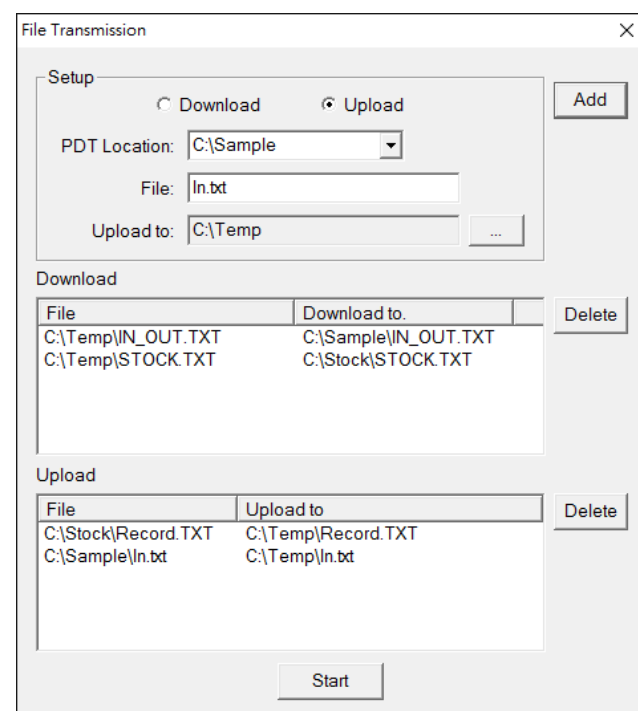
Download: Transmit file from PC to Terminal.

1. Set PDT Location in box and select file
2. Click Add button to add file in download list.
3. Remove the file with Delete button in list.
4. Press Start to Download file to terminal.



Upload: Transmit file from Terminal to PC.

1. Set PDT Location in box
2. Key the file name and choose where is the file will be upload.
3. Click Add button to add file in the upload list.
4. Press Start to upload file to PC.





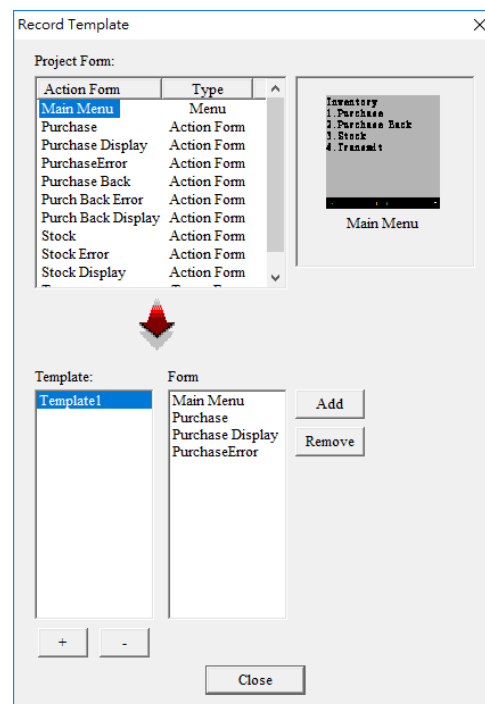
4.3. Tools

4.3.1. Template

Template function can make modular forms. It is a benefit for project development speed. After template, you can insert form to another project.

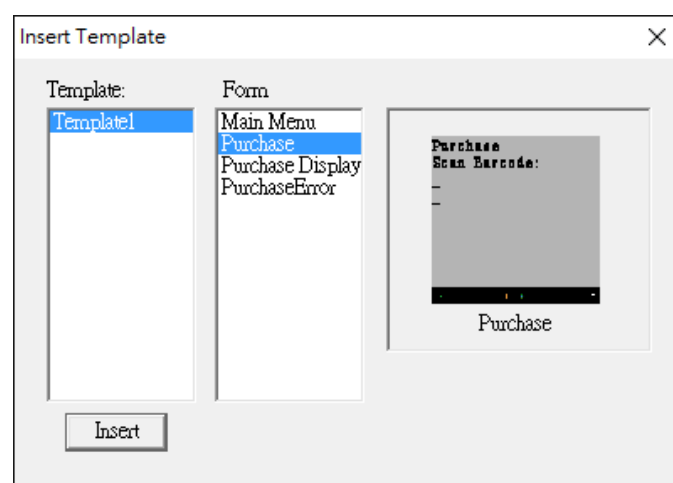
- ◆ Record: Add form to template.

1. Click  button to create new template and  button to remove template.
2. Select form name in Project Form and click Add button. Click Remove can cancel the form you choose
3. Close Record Template window to finish record.





- ◆ Insert: Insert form in project.

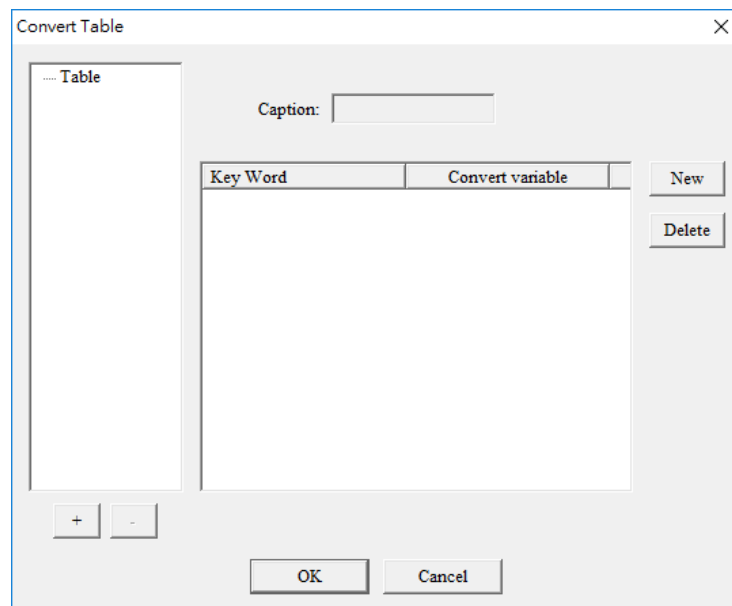
1. Select template name and choose which form you want to insert.
2. Click Insert button to add form in project.



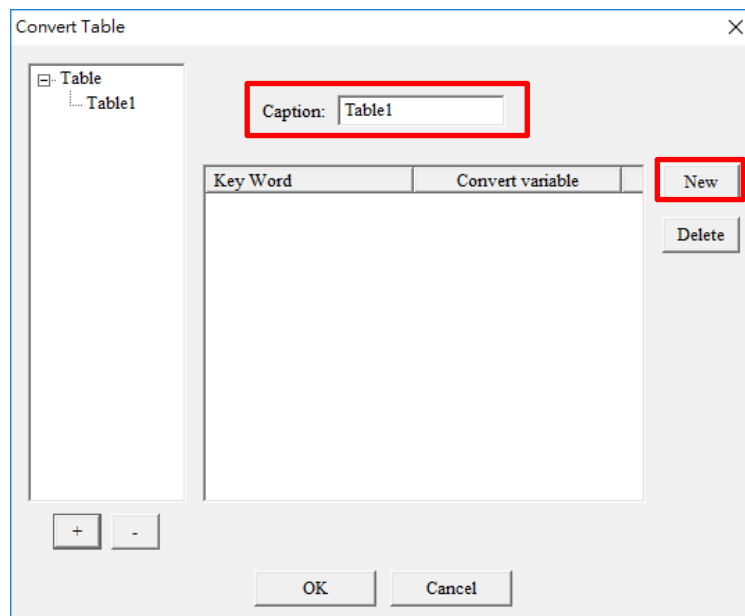
4.3.2. Convert Table

Convert Table can help you replace the collected data when you want to output. It is useful to combine other data to your individual system.

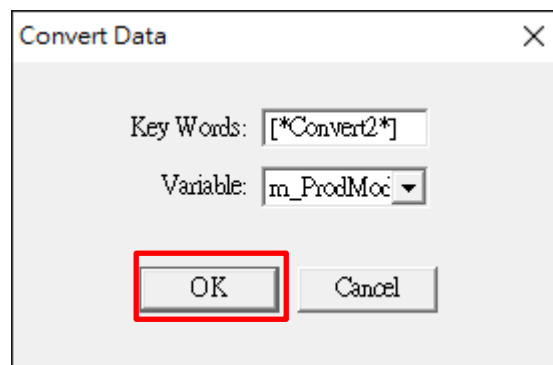
Step.1 Click  button to create new convert table and  button to remove convert table.



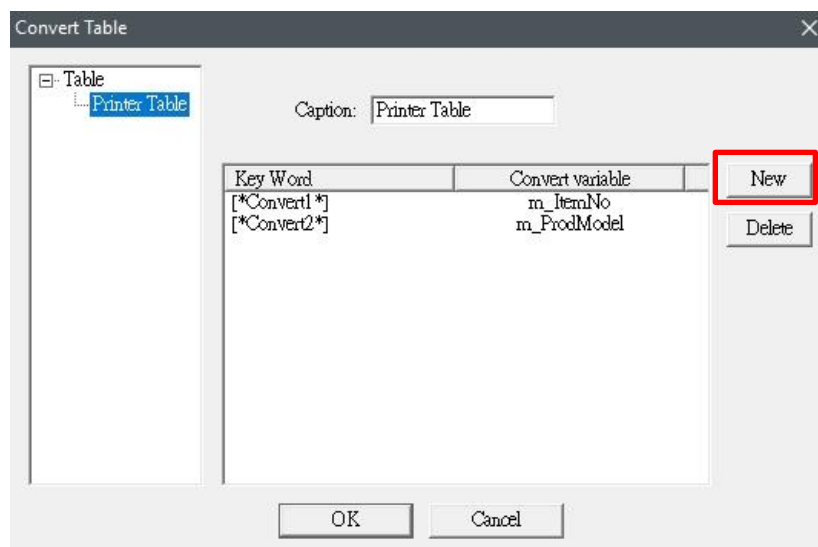
Step.2 Name the table in caption and click New button to set convert data.



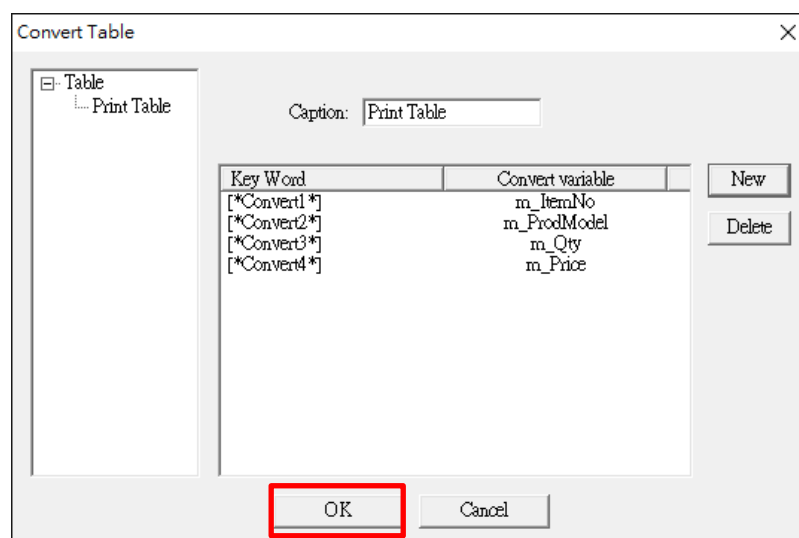
Step.3 Set Key words in space and select Variable in box to be replaced. Click OK



Step.4 Click New button to create another convert data until it is finished.




Step.5 Convert Table finished.



4.4. View

Variable Table: When you create form. There are numbers of variable used in different form. Use Variable Table can easily check which Variable is using in which form.

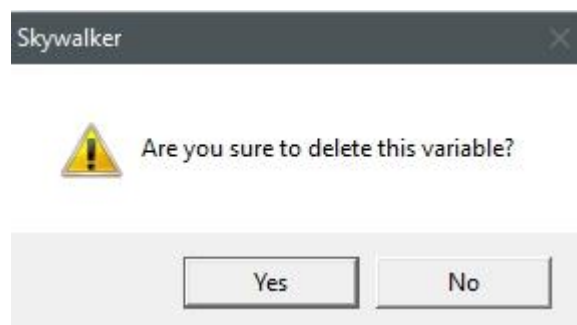


The 'Variable table' window displays a table with the following data:

| Variable | Purchase | Purchase ... | Purchase... | Purchase ... | Purch Bac... | Purch Bac... |
|------------|----------|--------------|-------------|--------------|--------------|--------------|
| m_ItemNo | 0 | | | 0 | | |
| m_ProdM... | 0 | | | 0 | | |
| m_Qty | | 0 | | | | 0 |
| m_Price | | 0 | | | | 0 |

A 'Delete' button is located on the right side of the table.

If you want to delete wrong variable, select variable name and click delete button. It will show a warning to make sure.



Appendix A

Skywalker Reader Default (*)

| Command1 | Command2 | Option/Limitation |
|----------------|---------------------------|---|
| Indication | LED indication | Disable Enable * |
| | Buzzer indication | Disable Enable * |
| Transmission | Preamble transmission | Disable * Enable |
| | Postamble transmission | Disable * Enable |
| | Code ID position | Before code data * After code data |
| | Code ID transmission | Disable * Proprietary ID AIM ID |
| | Code length transmission | Disable * Enable |
| | Code name transmission | Disable * Enable |
| | Case conversion | Disable * Upper case Lower case |
| Scan | | 0 ~ 9 |
| | Double confirm | 0 * |
| | Global min. code length | 0 ~ 99 4 * |
| | Global max. code length | 0 ~ 99 63 * |
| | Inverted image scan | Disable * Enable |
| String setting | Prefix characters setting | 0 * 0x00 ~ 0xff ASCII code 12 characters. |
| | | 0 * |

| | | |
|---------|-------------------------------|---|
| | Suffix characters setting | 0x00 ~ 0xff ASCII code 12 characters. |
| | Preamble characters settings | 0 * 0x00 ~ 0xff ASCII code 12 characters. |
| | Postamble characters settings | 0 * 0x00 ~ 0xff ASCII code 12 characters. |
| Code 11 | Read | Disable * Enable |
| | Check-sum transmit /verify | Disable/Disable Disable/One digit * Disable/Two digits Enable/One digit Enable/Two digits |
| | Max. code length | 0 ~ 64 0 * |
| | Min. code length | 0 ~ 64 0 * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <O> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | | |
| Code 39 | Read | Disable Enable * |
| | Check-sum transmit /verify | Disable/Disable * Disable/Enable Enable /Enable |
| | Max. code length | 0 ~ 64 0 * |
| | Min. code length | 0 ~ 64 1 * |
| | Truncate leading | 0 ~ 20 0 * |
| | Truncate ending | 0 ~ 15 |

| | | |
|----------|----------------------------|---|
| | | 0 * |
| | Code ID setting | <*> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | Format | Standard * Full ASCII |
| | Start/stop transmission | Disable * Enable |
| Code 93 | Read | Disable * Enable |
| | Check-sum transmit /verify | Disable/Disable Disable/Enable * Enable /Enable |
| | Max. code length | 0 ~ 64 0 * |
| | Min. code length | 0 ~ 64 0 * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <&> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | | |
| Code 128 | Read | Disable Enable * |
| | Check-sum transmit /verify | Disable/Disable Disable/Enable * Enable /Enable |
| | Max. code length | 0 ~ 64 0 * |
| | Min. code length | 0 ~ 64 1 * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | | <#> |
| | | |

| | | |
|---------|----------------------------|---|
| | Code ID setting | 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | Format | Standard * UCC.EAN 128 |
| | UCC/EAN 128 ID setting | <#> 0x00 ~ 0xff ASCII code(1 bytes) |
| | Concatenation code | 0x1D * 0x00 ~ 0xff ASCII code(1 bytes) |
| Codabar | Read | Disable * Enable |
| | Check-sum transmit /verify | Disable/Disable * Disable/Enable Enable /Enable |
| | Max. code length | 0 ~ 64 0 * |
| | Min. code length | 0 ~ 64 0 * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <%> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | Start/stop type | ABCD/ABCD * abcd/abcd ABCD/TN*E abcd/tn*e |
| | Start/stop transmission | Disable * Enable |
| EAN 8 | Read | Disable Enable * |
| | Check-sum transmission | Disable Enable * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |

| | | |
|--------|------------------------|---|
| | Code ID setting | <FF> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | Supplement digits | None * 2 digits 5 digits 2, 5 digits UCC/EAN 128 2, UCC/EAN 128 5, UCC/EAN 128 All |
| | Truncation/expansion | None * Truncate leading zero Expand to EAN 13 |
| | Expansion | Disable * Enable |
| EAN 13 | Read | Disable Enable * |
| | Check-sum transmission | Disable Enable * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <F> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | Supplement digits | None * 2 digits 5 digits 2, 5 digits UCC/EAN 128 2, UCC/EAN 128 5, UCC/EAN 128 All |
| | ISBN/ISSN conversion | Disable * Enable |
| | | Disable * |

| | | |
|--------------------|----------------------------|---|
| Industrial 2 of 5 | Read | Enable |
| | | 0 ~ 64 |
| | Max. code length | 0 * |
| | | 0 ~ 64 |
| | Min. code length | 0 * |
| | | 0 ~ 15 |
| Interleaved 2 of 5 | Truncate leading | 0 * |
| | | 0 ~ 15 |
| | Truncate ending | 0 * |
| | | <i> |
| | Code ID setting | 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | | Disable |
| | | Enable * |
| | Check-sum transmit /verify | Disable/Disable * Disable/Enable Enable /Enable |
| Standard 2 of 5 | | 0 ~ 64 |
| | Max. code length | 0 * |
| | | 0 ~ 64 |
| | Min. code length | 0 * |
| | | 0 ~ 15 |
| | Truncate leading | 0 * |
| | | 0 ~ 15 |
| | Truncate ending | 0 * |
| Standard 2 of 5 | | <i> |
| | Code ID setting | 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | | Disable * |
| | Read | Enable |
| | | Disable/Disable * |
| | Check-sum transmit /verify | Disable/Enable Enable /Enable |
| Standard 2 of 5 | | 0 ~ 64 |
| | Max. code length | 0 * |
| | | 0 ~ 64 |
| | Min. code length | 0 * |
| | | 0 ~ 15 |

| | | |
|-------------|-------------------------------|---|
| | Truncate leading | 0 * |
| | | 0 ~ 15 |
| | Truncate ending | 0 * |
| MSI Plessey | Code ID setting | <i> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | Read | Disable * Enable |
| | Check-sum transmit /verify | N/disable * N/MOD 10 N/Mod 10,10 N/mod 11,10 Y/ Mod10 Y/ Mod 10,10 Y/ Mod 11/10 |
| | Max. code length | 0 ~ 64 0 * |
| | Min. code length | 0 ~ 64 0 * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <@> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | | |
| UK Plessey | Read | Disable * Enable |
| | Check-sum transmit /verify | Disable/Disable Disable/Enable * Enable /Enable |
| | Max. code length | 0 ~ 64 0 * |
| | Min. code length | 0 ~ 64 0 * |
| | Truncate leading | 0 ~ 15 0 * |
| | | 0 ~ 15 |
| | | |

| | | |
|---------|----------------------------|--|
| | Truncate ending | 0 * |
| | Code ID setting | <@> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| Telepen | Read | Disable * Enable |
| | Check-sum transmit /verify | Disable/Disable * Disable/Enable Enable /Enable |
| | Max. code length | 0 ~ 64 0 * |
| | Min. code length | 0 ~ 64 0 * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <S> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | Format | Numeric * Full ASCII |
| | | |
| UPCA | Read | Disable Enable * |
| | Check-sum transmission | Disable Enable * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <A> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | Supplement digits | None * 2 digits 5 digits 2, 5 digits UCC/EAN 128 |

| | | |
|-----------|----------------------------|---|
| | | 2, UCC/EAN 128 5, UCC/EAN 128 All |
| | Truncate/expansion | None Truncate leading zero * Expand to EAN 13 |
| UPCE | Read | Disable Enable * |
| | Check-sum transmission | Disable Enable * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <E> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | Supplement digits | None * 2 digits 5 digits 2, 5 digits UCC/EAN 128 2, UCC/EAN 128 5, UCC/EAN 128 All |
| | Truncate/expansion | None * Truncate leading zero Expand to EAN 13 Expand to UPCA |
| | Expansion | Disable * Enable |
| | UPCE-1 | Disable * Enable |
| | | |
| Matrix 25 | Read | Disable * Enable |
| | Check-sum transmit /verify | Disable/Disable * Disable/Enable Enable /Enable |
| | Max. code length | 0 ~ 64 0 * |

| | | |
|-------------|-----------------------|--|
| | Min. code length | 0 ~ 64 0 * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| China post | Read | Disable * Enable |
| | Max. code length | 0 ~ 64 11 * |
| | Min. code length | 0 ~ 64 11 * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <t> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| RSS 14 | Read | Disable * Enable |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <R4> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | UCC/EAN 128 emulation | Disable * Enable |
| RSS Limited | Read | Disable * Enable |
| | Truncate leading | 0 ~ 15 0 * |
| | | 0 ~ 15 |

| | | |
|--------------------------|-----------------------|--|
| | Truncate ending | 0 * |
| | Code ID setting | <RL> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | UCC/EAN 128 emulation | Disable * Enable |
| RSS Expanded | Read | Disable * Enable |
| | Max. code length | 0 ~ 99 99 * |
| | Min. code length | 0 ~ 99 1 * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <RX> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | UCC/EAN 128 emulation | Disable * Enable |
| Italian Pharmacode 39 | Read | Disable * Enable |
| | Max. code length | 0 ~ 64 12 * |
| | Min. code length | 0 ~ 64 9 * |
| | Truncate leading | 0 ~ 15 0 * |
| | Truncate ending | 0 ~ 15 0 * |
| | Code ID setting | <p> 0x00 ~ 0xff ASCII code(1 or 2 bytes) |
| | Leading "A" | Disable * Enable |