U2PRO USER MANUAL

By ANSER CODING INC.

www.anser-u2.com

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ANSER CODING INC.

CONTENTS

HARDWARE

SPECIFICATION

Shell	114x76x60 mm^3 / 4.5x3.0x2.4 inch^3
Weight	0.49kg / 1.08lb
Front View	3.5" color LCD with LED backlight
Printing Engine	Hewlett-Packard TIJ 2.5 printing technology
Ink Solution	U2Pro Exclusive 420ml Bulk/Black Ink
Printing Speed	120 m/min (394 feet/min) at 300DPI
Printing Message	Text, Time, Expiry date, Counter, Shift, Barcode
Message height and width	12cmx540cm
Power Supply	AC 100V-240V, 50/60 Hz, 2A, auto-switching
	Max. power consumption: 75 Watts
Temperature	5℃-40℃ (41F°F-104F°F)

INSTALLATION

1. Please note that once the PrintHead has been installed it is necessary to use the guide bar to protect the PrintHead from damaged while printing.
   (Any external damaged, included box collision without the guide bar will not be covered by warranty)
2. When you extract the ink cartridge from the holder, press it and take it out at a 15 degree angle. Please ensure ALL the screws are tightened.
3. The installation of a UPS is highly recommended because it helps to avoid the damage that may be caused by power loss.
4. It is highly recommended for users to correctly earth the printer. Furthermore, it's necessary to connect to a dedicate power socket.
5. If the working environment is dusty, it is highly recommended clean the nozzle regularly using a low level compressed air supply that is dry and clean.
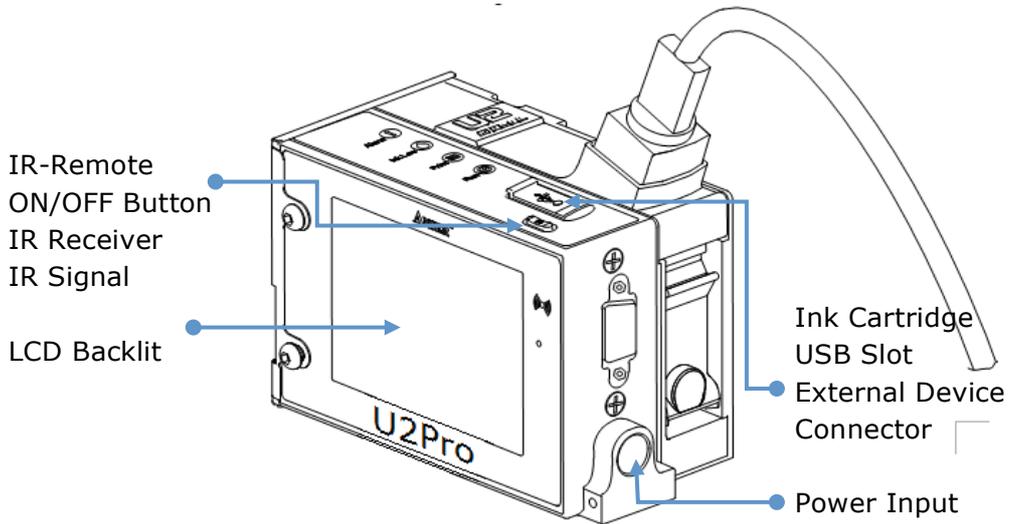
OPERATION

1. The remote controller will turned off automatically after three minutes if it is not being operated.
2. Please keep the printing throw distance within 6mm to ensure the best printing quality..
3. When the lay-out appears to have ink excessive, please apply the wet wipe to clean the nozzle surface..
4. If the printing position is incorrect, please press the key [**Tab|→**] on the remote keypad to reset to the best printing position.
5. In a dusty production environment, please clear the dust using clean low pressure compressed air daily.
6. Please contact your local distributor if the printer malfunctions and the problems cannot be solved personally.

PRINTER INTRODUCTIONS

This chapter mainly introduces U2Pro printer, software homepage overview, remote keypad and menu page.

HARDWARE STRUCTURE DESCRIPTION

IR-Remote
ON/OFF Button
IR Receiver
IR Signal

LCD Backlit

Ink Cartridge
USB Slot
External Device
Connector

Power Input

IR-REMOTE KEYPAD

Description table for remote keypad control keys.

Printing button

Print On: starts the printing process

Print Off: halts the printing process

Function: preview logo

Tools: access to the dashboard function.

Tab|→: Set message delay

ESC: return

Enter: confirm, modify or get into next screen.

▲▼◄ ►: directional button

Characters input buttons

0 ~ 9: input alphabetic letters or numeric number

. Symbols: input symbols.

←BS: delete the preceding character and shift back the cursor one position.
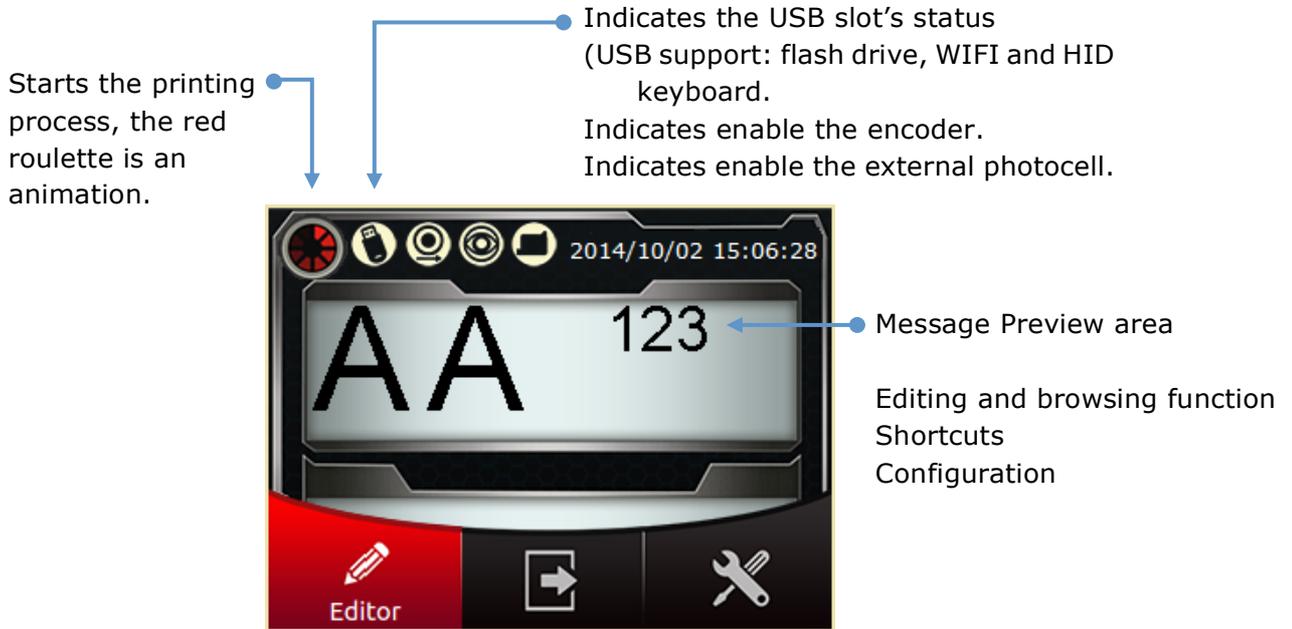
X Delete: discard the character ahead of cursor's position

Shortcuts

F2: quick access to system time setting interface

F3: quick access to edit expiration date object in the current message

F4: quick access to edit counter object in the current message

F5: quick access to system shift format setting interface

F6: preview system logo data

F8: quick access to system string setting interface

◄:   object moves left
►:   object moves right
◄◄: 快速左移物件/左移視框
►►: 快速右移物件/右移視框

PRINTER HOMEPAGE

After the boot, you can select the "Editor" via the directional key, then
press"Enter"to get into the preview list page. (as shown below)

Indicates the USB slot's status
(USB support: flash drive, WIFI and HID
keyboard.
Indicates enable the encoder.
Indicates enable the external photocell.

Starts the printing
process, the red
roulette is an
animation.

Message Preview area

Editing and browsing function
Shortcuts
Configuration

PREPARATION FOR PRINTING

Printer: Fixed on the bracket or properly placed on the platform.

Photocell: First use, please set the photocell source (internal or external photocell)
and the mode (PNP or NPN).

Nozzle: Adjust the nozzle direction and globe delay.

Encoder/Conveyor: Set up the encoder(300DPI or 400DPI) or conveyor speed.

Operation: As shown above, select [Editor] and press [Enter], you will get into the
message preview page, select the message which you want to printer via the key
of [▲][▼], then select [Print] via the key of [◄][►] and press [Enter] to start
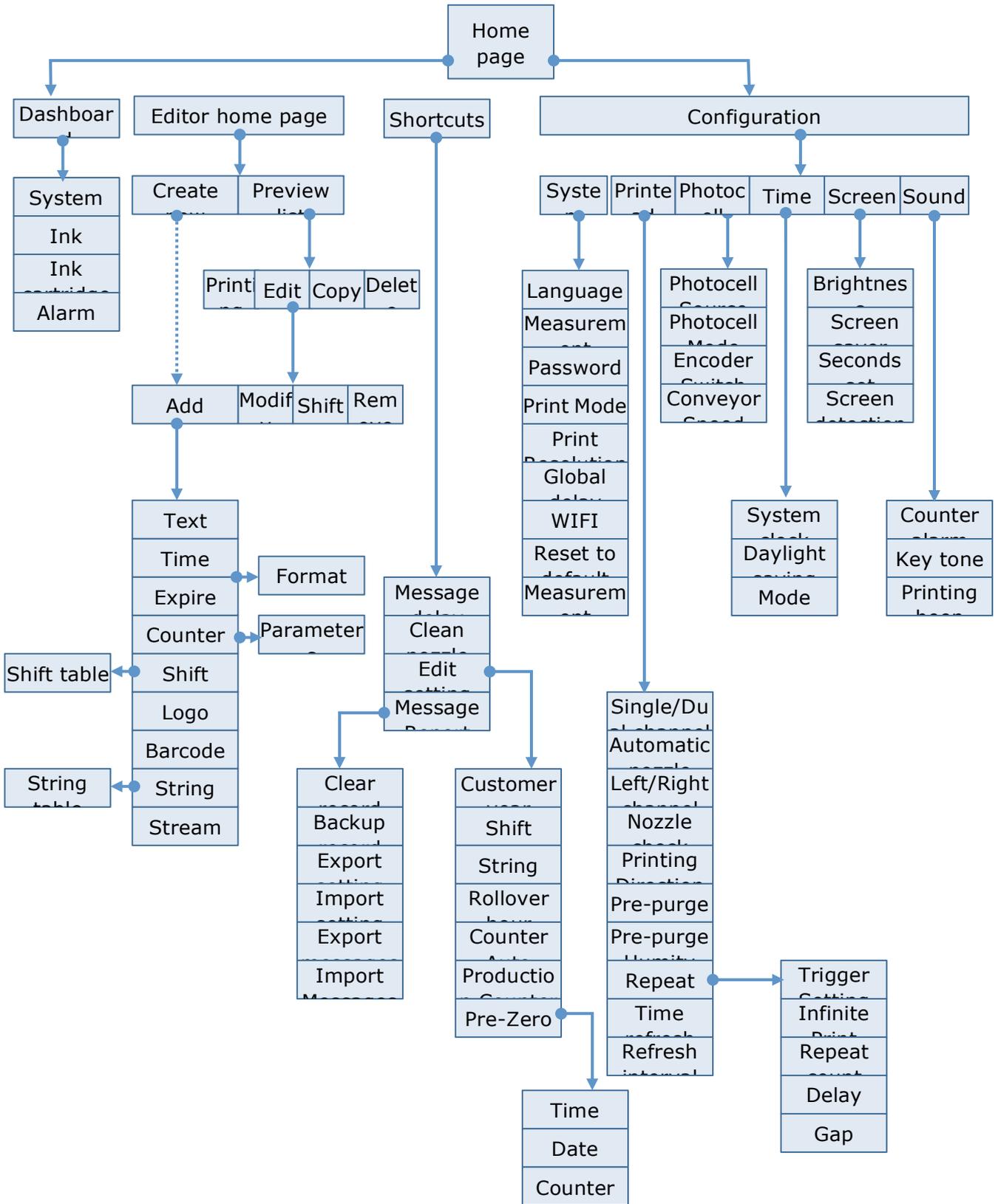printing process.

Please place the printing sample (paper) on the sliding table (conveyor).

Once the photocell triggered by the slide table or printing sample, you will see the message has been printed on it.

MENU TREE

Below is the printer's menu tree.

CONFIGRATION

SYSTEM

Language:
Support languages includes: Chinese (Traditional and Simplified), English, Japanese, Korean, German, Portuguese, Spanish and Russian.

Units of Measurement:
Metric (millimeters) vs Imperial (inches).

Password:
Once the function enabled, every time will ask for password to get into system and record every operation.
System just can set up 5 groups the user password.
Notes: Admin all-powerful password: anser+%SN(printer's SN)

PRINT MODES

PRINT MODES		Fonts	Resolution		Description
Basic	High-Definition 1	**Arial (Bold)**	300x300	400x300	Notes: DPI setting should be same with the encoder.
	High-Definition 2	Gothic **(lighter)**			
	Standard 1	**Arial (Bold)**	300x150	400x150	
	Standard 2	Gothic **(lighter)**			
	Saving 1	**Arial (Bold)**	150x150	200x150	
	Saving 2	Gothic **(lighter)**			
Customize		*Customize*	???x???	???x???	

User can select the print modes according their requirement. (Total seven modes)
The encoder we only support 300DPI and 400DPI.
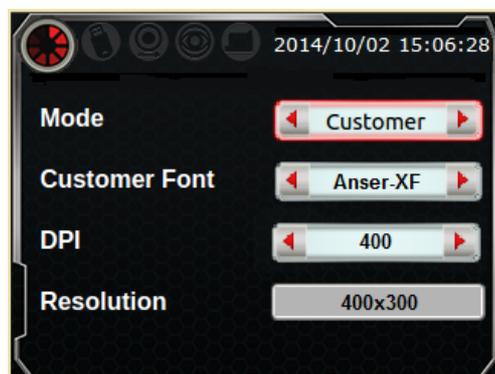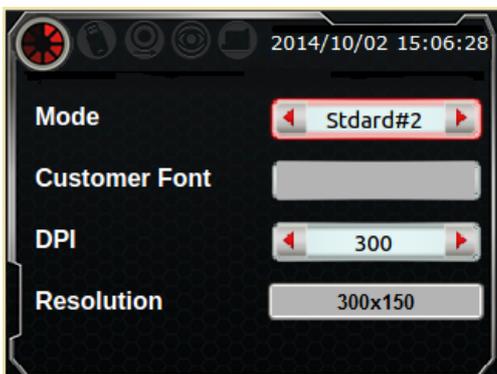
Customize: We can customize the new font mode according customer request, it needs the PC software (Message Pro) and USB to import into printer.
Select this Mode, you will find the customized font mode in the "Customer Font".
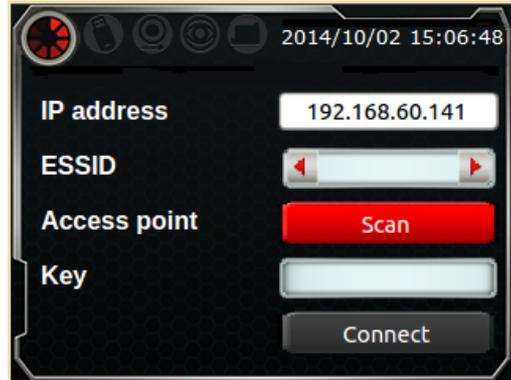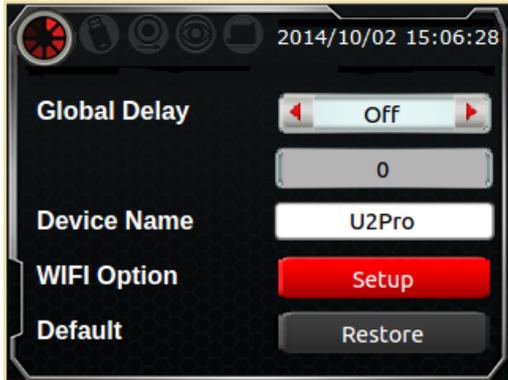
Global Delay

Set up the printing global delay, this value will function for every message.

WIFI

[Configuration]→[System]→Wifi[Setting]

After starting up system, it will automatically restore the previous connection, if you want to create a new connection, please press [Access point], it will scan all the connections, when it finished you can select the connection in the [ESSID], then press [Connect].


RESET TO DEFAULT

Following is the factory value.

Language	English	Photocell Souce	Internal
Measurement	Metric	Global Delay	0 mm
Password Option	Disable	Encoder/Conveyor	Encoder:Disable
Print Mode	Standard#1		Conveyor:76m/min
Dots/inch	300		Box Length:100cm
Resolution	150*300	Daylight Saving	Disable
		Screen Brightness	Maximum
Channel	Dual channel	Screen Saver	Disable
Auto nozzle Switch	Disable	Key tone	Disable
Nozzle Switch	Disable	Printing Beep	Disable
Printing direction	ABC→		
Repeat Print	Disable		
Time Refresh	Disable		

PRINTHEAD

NOZZLE SWITCH

U2Pro supports dual channel print.

Channel Mode: Single
Auto Nozzle Switch: Disable
Channel: Left
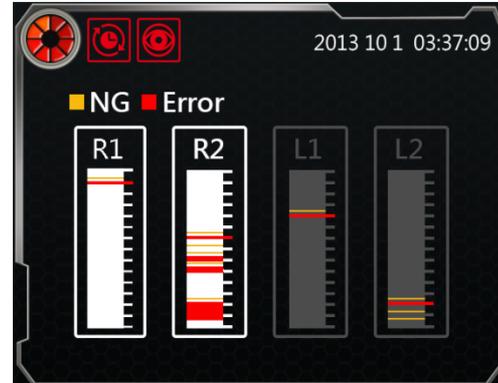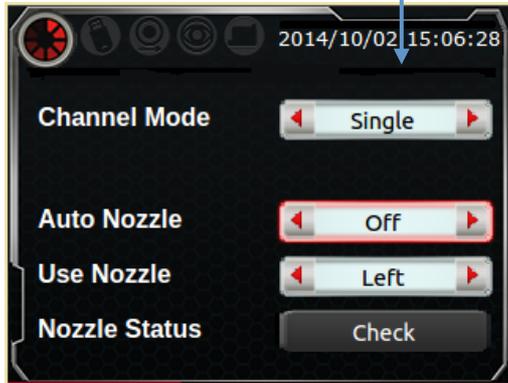
AUTO NOZZLE SWITCH/ NOZZLE SWITCH

Once enable single channel, you can select auto nozzle switch to make sure the ink has best utilization.
If you disable auto nozzle switch, you can select the channel by manual(left or right).

NOZZLE CHECK

Check the nozzle condition.

PRINTING DIRECTION

ABC→: print from A to C, ←ABC: print from C to A.

PRE-PURGE

Once you enable it, you can set up the Pre-purge humidity (1~5), higher the environment temperature, higher the humidity value.

REPEAT

Enable this function, you need to set up the Initial delay (Initial delay) and repeat printing gap (Gap).

Setting\Condition	Repeat several times once triggered.	Repeat print all the time once triggered.	Repeat print automatically.
Trigger	Enable	Enable	Disable(no need for the trigger)
Repeat finite	Finite	Infinite	無限次
Repeat times	Enable (Value)	0	0

TIME REFRESH

[Configuration]→[Printhead]→[Refresh interval], range:1~9 min.

If the printing message has a precise time requirement, please set to minimum interval (1minute).

PHOTOCELL

PHOTOCELL SOURCE
Set up the photocell source, internal or external.

TRIGGER MODE
According photocell specification, it can set to Positive triggered or negative triggered.

ENCODER AND CONVEYOR SPEED
The printer printing speed should be same as the printing sample movement speed, Or the printing message's length will be reduced or lengthened.

同步的方式有下列 2 種: 看不懂什麼意思

Enable Encoder: [System]→[Encoder: Enable][Set DPI]

Conveyor Speed: [Configuration]→[Photocell]→[**Encoder**: Disable][Conveyor]: Input the actual speed.

Notes: Only disable the encoder, you can input the conveyor speed.

TIME

SET TIME
Set the system clock. (Year/Month/Day Hours: Minutes: Seconds)

DAYLIGHT SAVING
Set daylight saving.

Spec.\Daylight saving	Start	End
European	The last Sunday in March every year, the time at 1:59:59 jump into 03:00:00.	The last Sunday in October every year, the time at 1:59:59 jump into 01:00:00.
American	The second Sunday in March every year, the time at 1:59:59 jump into 03:00:00.	The second Sunday in October every year, the time at 1:59:59 jump into 01:00:00.0

SCREEN

SCREEN BRIGHTNESS
Set screen brightness, range is 10%~100%.

SCREEN SAVER
Screen saver time, range is 1~60min.

SCREEN TEST
Enable it, the LCD will display sequence R(red) G(green) B(blue) W(white) for a second.

SOUND

Set the counter alarm, remote keypad tone, printing beep.

EDIT HOME PAGE

Get into edit home page, includes: the key for create new message and message preview list.

Create New Message

Print
Edit
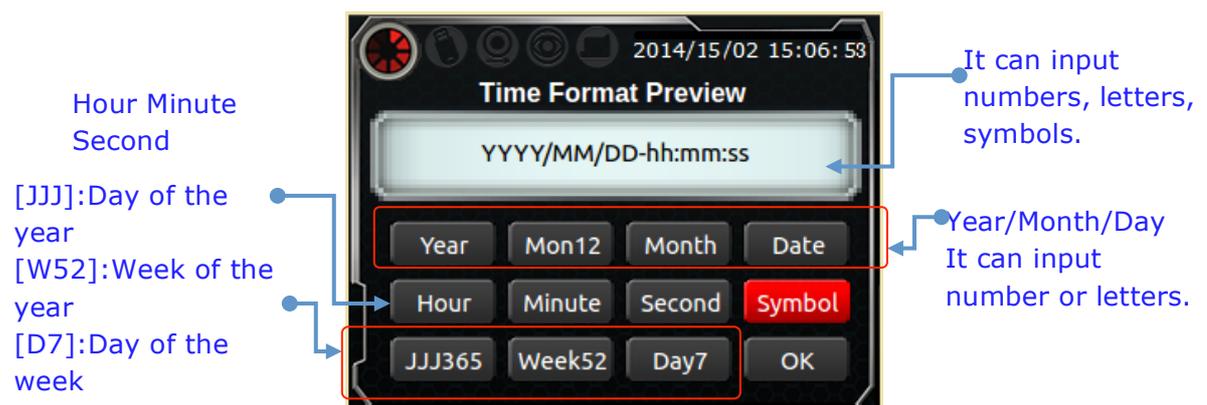Copy
Delete

Message List

CREATE NEW MESSAGE(ADD OBJECT)

Press "Create New Message", you will get into objects screen (As picture), Objects include: Text, Time, Expire, Counter, Shift, Logo, Barcode, String, Stream. Most of objects can set the size and angle.

TIME/EXPIRE

[Time/Expire]→[Format]: It allows user to edit 20 types of custom time format. Remote keypad: Press[0~9] to input the number (convert to T9 keyboard to input letter), ⊔ input space, [·] input symbols.

Hour Minute Second

[JJJ]:Day of the year
[W52]:Week of the year
[D7]:Day of the week

It can input numbers, letters, symbols.

Year/Month/Day
It can input number or letters.

COUNTER

There are three types counter, Counter, Box Code, Lot Code

Every counter has 4 parameters: Maximum Value, Minimum Value, Start Count, Increment value.

When the box code setting exceeds the maximum value, the lot code setting will increase. When the lot code increases, the box code will reset itself to the minimum value.

e.g. : Counter: Increment value=1, :5→**6**

0   1   2   3   4   5   **6** … 999

箱號溢位

Box code:遞增=10,回歸:100→**10**棧板進位   棧板:遞增=2,跳動:4→**6**

10   20   30   …   99   100   2   4   **6**   8 … 20

These 3 types counter's vale is 5,100,4, count increased 1, the value will be 6,10,6.

SHIFT

The day is divided into some parts, every part is a shift ,we give a name for it, according the time, the printer will print out the shift name, it's better for customer to trace the production time and operators.

e.g. : Time is 09:14, the corresponding shift is CCC, the printer will print out CCC.

LOGO

Select the logo object, we can import the logo to printer via the USB, which gets the logo from PC software (Message Pro)

BARCODE

System only supports static data's barcode. For example, EAN-13 barcode, the content is 12345678900.

For the dynamic data's barcode, you only can print it via the PC software (Message Pro).

STRING

Set the string's no. (1~5).

Edit string table

STREAM

Same like string, but the content is dynamic data.

MOVE OBJECT

After add the object, you can get into the move object page,初始的位置則為對齊該訊息的最後方(即最右邊). 完全看不懂上面這句的意思.

使用[▲][▼][◄][►]方向鍵來移動物件位置.

(註: [◄◄][►►]可快速左右移動物件)

PREVIEW LIST (SELECT MESSAGE)

In this page, there are four functions for every message: print, edit, copy and delete.

PRINT
Start printing process, it will print once gets the trigger signal.

EDIT MESSAGE OBJECT
(Much more on this later)

COPY
Copy the message, the system will copy this message to a blank message.

e.g. : now we have edited the message1,2,3,8,15.
Copy the message2, the system will ask you "whether copy the message to message4 ?",系統會詢問"是否複製至訊息 4?",此時按下[ESC:放棄返回]/[Enter:確認]. 完成後,訊息目錄就會變成 1,2,3,**4**,8,15,其中[訊息 4]是由[訊息 2]而來的. 確定是這麼操作的嗎? 都放棄了,怎麼還能 copy 過去?

DELETE
Select the message which you want to delete, press[Enter], then it will be deleted.

EDIT MESSAGE OBJECT

Select [Homepage Preview]→[Edit]→[Select Message], there are four function on this page: add, modify, move object, delete.

ADD OBJECT
Set the parameters of the object which added or selected, after add new object, it will get into move object page,初始的位置則為對齊該訊息的最後方(即最右邊). 這句話真糾結,看不懂所表達的意思.

SELECT OBJECT
Get into [select object],[move object],[delete object] these 3 functions, you will find the select page.(as shown below).
Press [▲][▼] keys, you can change object, then press [Enter], you can get into it. (Notes: Press[◄][►] keys, you can scroll around the screen.)

Edit object   Select object

Select function, Then select obje

MODIFY OBJECT
Please refer to the previous page (ADD OBJECT).

MOVE OBJECT:
After add new object, get into move object preview page, you can move the object via the keys [▲][▼][◄][►].

DELETE OBJECT
Select the object and press [Enter], it will be deleted.

PRINT DALAY

There are three types delay in the system, include: repeat print delay, global delay, message delay (can not be used at the same time). If a conflict occurred among them, the priority order is : repeat print delay >global delay>message delay.

Repeat print

[Configuration]→[Printhead]→[Repeat print]
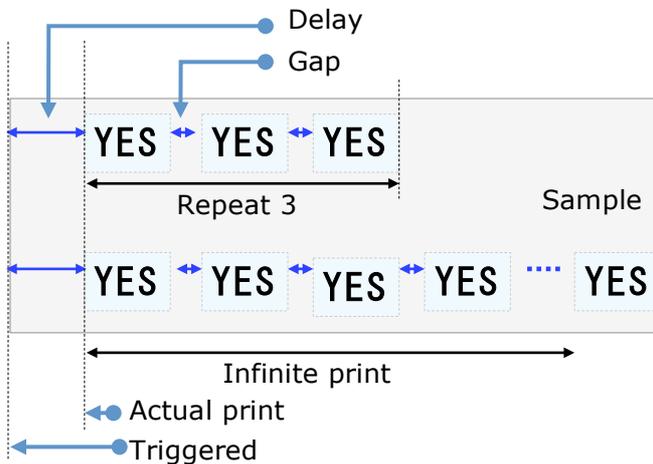Mode: Infinite print/repeat times.
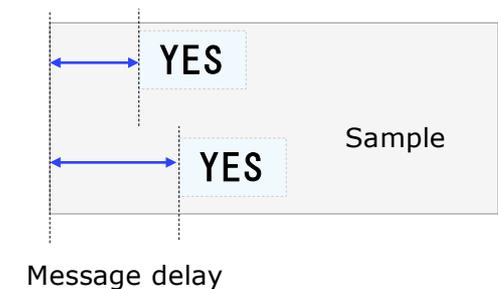Mode, repeat times, delay and gap

Global delay

[Configuration]→[System]→[Print delay]
Set global delay.(Apply to all messages)

Message Delay (Default parameter)
[Shortcuts]→[Message delay]
The delay is only for this message.

CLEAN NOZZLE

當噴印發生墨水沾黏或堵塞現象時使用.　不理解何謂沾黏

EDIT SETTING

CUSTOMER YEAR
Set customer year. (e.g. : It is 2014, but set this value to 103, when you print the year it will print out 2013,not 2014.)

ROLLOVER HOUR
Set a date every day carry point in time, it will not affect the system clock, just has the effect on the date which you print out.
e.g. : Set the value to 23:50, now the time is 2014/10/**08** 23:52:00, the actual print time is 2014/10/**09** 23:52:00.(the data 10 minutes early).

MODIFY SHIFT/MODIFY STRING

[Homepage preview]→[Shortcuts]→[Edit setting]→[Modify shift/string]
(Also you can modify it when you edit the object).

COUNTER RET

Enable it, it will ask you whether the counter return to minimum once you get into printing process.

PRODUCTION COUNTER

設置系統噴印累加值.　不明白你們怎麼定義的

PRE-ZERO(TIME,DATE,COUNTER)

	Time	Date	Counter (digit:6,value:8)
空位補零	12:08:05-	2014/02/08-	000008
置左	12:8:5 -	2014/2 /8 –	8
置右	12: 8: 5-	2014/ 2/ 8-	8
壓密	12:8:5-	2014/2/8-	8

MESSAGE REPORT

CLEAR REPORT

Clear all the content in the report.

BACKUP REPORT

Before backup the report, please insert the USB to the printer.
It will back up the report file (report.log) to the USB, the path is
USB://auprn/u2pro/report.log.

EXPORT/IMPORT CONFIGURATION

Before export or import the configuration, please insert the USB to the printer.
Export the configuration file (config.ini) to USB, or import it from USB to printer.

EXPORT/IMPORT MESSSAGE

Before export or import the messages, please insert the USB to the printer.
Export all messages to USB, or import them from USB to printer.

INK DASHBOARD

Under the home page, press [Tools].

SYSTEM

Show version and printer SN.

INK

Show ink cartridge volume.

INK CARTRIDGE

Show the ink's type and printing information.

WARNING

Show system error.

USB SYNC

When used for the first time, please insert USB to PC and format it.
The system will ask whether you want to format it, please click enter to format it.

ABOUT MESSAGE PRO

Message PRO is tie-in U2Pro PC software, it provides a complete powerful editing function and exchange messages with PC via USB or upgrade software.

EDIT MESSAGE
1. Insert the formated USB to PC 將格式化過後的 USB 插入 PC.
2. Open the USB folder via the Message PRO (e.g. :u2pro-1234567).
3. After modified it, insert the USB to printer.
4. The printer will ask you whether you want to sync the message, please press enter to sync it.

Notes:
1. The font and logo will sync to printer automatically when synchronization.
2. It will cover all the information in the printer when synchronization.
3. The time format/ shift / string from configuration file will be synchronized to printer when synchronization.

SOFTWARE UPGRADE
Message PRO will sync the latest upgrade file to the USB.
Once the printer detect the latest version in the USB, it will ask you whether you want to upgrade latest version, please press enter to upgrade it.
(e.g. :USB software version is 1.0.01.48, higher than printer's version 1.0.01.29,so it will ask for upgrade.)
Upgrade completed, it will restart automatically.

ABOUT INKSAVING PRO

Inksaving PRO is a software platform, which customer can customize font by themselves, it will make the printing quality and ink consumption at the best balance.
It provides :

1. More appropriate font style.
2. More save ink printing mode.

The custom font is optional software, please contact with your dealer.

進階墨水調校

INK PARAMETER UPGRADE

Edit the ink.ini and copy to USB:/auprn/firmware/ink.ini (in the same folder with upgrade file .ans). Then insert the USB to printer to synchronize it.

MODIFY INK PARAMETER

[Home page preview]→[Remote keypad: Function] ([ESC]:Esc)