VGA Kingmark Reference

Catalog

1 Sun	nmary	1
1	1.1 Brief introduction	1
1	1.2 Software function	1
1	1.3 User interface description	2
2 File	9	3
2	2.1 New	3
2	2.2 Open	3
2	2.3 Save as	4
2	2.4 Save	5
2	2.5 Import and export	6
3 Vie	w	7
3	3.1 Zoom in	7
3	3.2 Zoom out	8
3	3.3 Initial size	9
4 Edi	t	.10
۷	4.1 Copy	10
۷	4.2 Delete	. 11
۷	4.3 Undo	. 11
۷	4.4 Redo	. 11
۷	4.5 Transform	.12
۷	4.6 Distribution	.14
5 Sett	ting	.16
4	5.1 Internal parameters	.16
4	5.2 Hardware test	.18
4	5.3 System	.18
4	5.4 Upgrade manage	.19
4	5.5 Authority	.21
4	5.6 About	.21

	5.7 Serial port	.21
	5.8 Event Manager	.22
	5.9 Network	.24
6 Ex	stend	.25
	6.1 History record	.25
	6.2 Barcode output	.26
	6.3 Web Server	.26
7 To	oolbar	.27
	7.1 Document operation	.27
	7.2 Delete	.27
	7.3 Undo and redo	.27
	7.4 Align	.27
	7.5 View	.28
	7.6 More	.28
	7.7 Lock/Unlock	.28
8 D	rawing bar and Property panel	.30
	8.1 Vector	.30
	8.2 Static text	.31
	8.3 Compositetext	.34
	8.3.1 Static Text	.35
	8.3.2 Time	.36
	8.3.3 Date	.37
	8.3.4 Scanner	.38
	8.3.5 Serial number	.39
	8.3.6 Database	.40
	8.3.7 New line	.40
	8.3.8 Bridge text	.40
	8.4 Barcode	.41
	8.5 Date	.45
	8.6 Time	.45

(V3.00.17)

8.7 Serial number	45
8.8 VIN Code	45
8.9 Point	46
8.10 Control point	46
9 Entity list	47
10 Print param	48
11 Needle Aim	49
12 Marking control	50
13 Status bar	51
14 Other	52
14.1 Record	52
14.2 Coincident code check	52

1 Summary

1.1 Brief introduction

Kingmark pneumatic software(Kingmark for short) is a software which is born to solve the user of the pneumatic machine to edit the content. The user interface of Kingmark is simple and easy to use. It has a lot of function to help the user to edit the content and support mutilingual language and input method and user upgrade the software easily. If Kingmark doesn't have the function which user wanted, we can customized the function for you.

1.2 Software function

Kingmark can make and edit and save a document to contain the contents which to marking. Including static text, vectorgraph, barcode or qrcode, vin code and more. User can insert these type of mark into the document, edit them quickly, aim the position of marks, changed the paramaters of pneumatic machine. User also can import the fonts, vectorgraph, database to mark and upgrade the software for more function.

1.3 User interface description

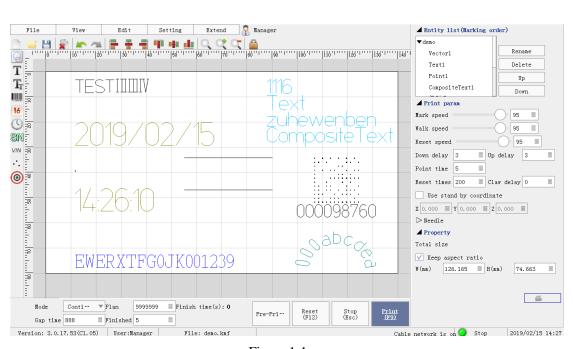


Figure 1-1

2 File

The file menu achieve the routine operation of document, such as new, open ,save as and save. As shown in figure 2-1.



Figure 2-1 File menu

2.1 New

New menu is used for creating a empty document. Short cut key is CTRL+N.

Click the new menu or press the short cut key, if there is a document which is editing, Kingmark will notice user to save, and then popup a file name dialog, input a file name to create a new document. As shown in figure 2-2.



Figure 2-2 New file name input

In the quick tool bar the new menu is _____,click on it can make the same function.

2.2 Open

Open menu is used for opening the document which has been saved in the

Kingmark. The suffix of the document is kmf, and the short cut key is CTRL+O.

Click the open menu or press the short cut key will pop up a file choose dialog. As shown in figure 2-3.

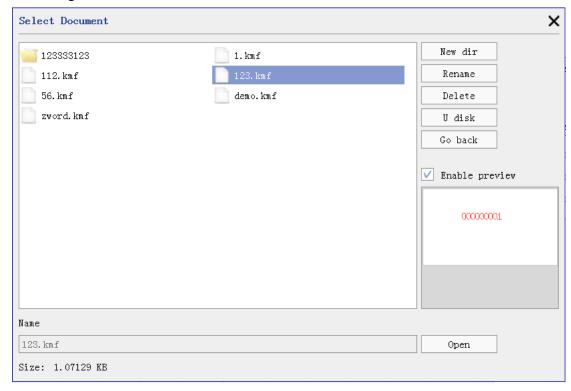


Figure 2-3 Choose file dialog

In the choose file dialog user can choose the file name and click on select button to open the document. If the document has been saved in sub folder user can double click on the folder icon to open it and choose. At the same time when user choose a file can rename or delete it.

In the quick tool bar the open menu is ____,click on it can make the same function.

2.3 Save as

Save as menu is used for saving current document to another file name. As shown in figure 2-4.

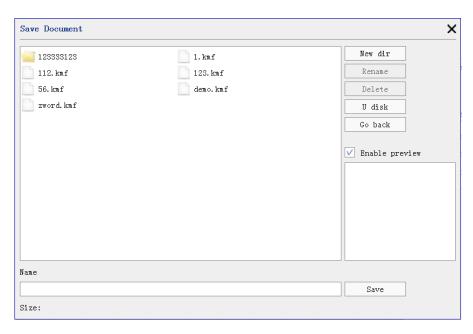


Figure 2-4 Save as dialog

In save as dialog user can save the document as any name or just choose a exist document name to cover it.

2.4 Save

Save menu is used for saving current document. The shortcut key is CTRL+S. As shown in figure 2-5.



Figure 2-5 Save successfully

If current document is a new document, when user use save function will do the save as function which is telled in 2.3.

In the quick tool bar the save menu is , click on it to make the same function. If current document has no changed, this button will be shown like and cann't be clicked.

2.5 Import and export

Will be introduced in 5.4 detailly.

3 View

The view menu implements display option, including Zoom in, Zoom out and Initial size. As shown in figure 3-1.

Zoom in Zoom out Initial size

Figure 3-1 View menu

3.1 Zoom in

Zoom in is used for scaling the edit zone larger as position (0,0) reference while edit small marks.



Figure 3-2 Initial size

Figure 3-3 is zoom in 5 times.

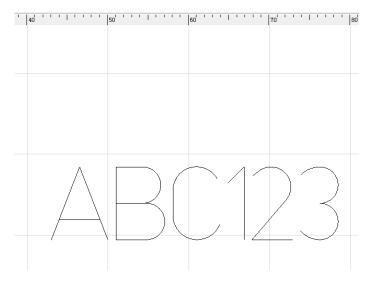
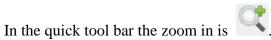


Figure 3-3 After zoom in 5 times



3.2 Zoom out

Zoom out is used for scaling the edit zone smaller as position (0,0) reference while edit large marks.

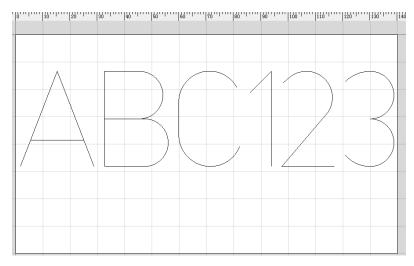


Figure 3-4 Initial size

Figure 3-5 is zoom out 5 times.

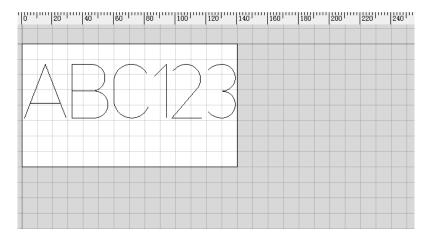
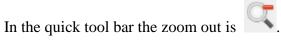


Figure 3-5 After zoom out 5 times



3.3 Initial size

Reset the edit zone to initial size and the initial position.

In the quick tool bar the initial size is .



4 Edit

Edit menu is as shown in figure 4-1.

Сору	Ctrl+V
Delete	Del
Undo	Ctrl+Z
Redo	Ctrl+R
Transform	
Distribution	

Figure 4-1 Edit menu

4.1 Copy

Copy is used for cloning the selected marks and it supports mutil selection. It will clone all the paramaters of the marks except the coordinat. The shortcut key of copy is CTRL+V.As shown in figure 4-2 and 4-3.

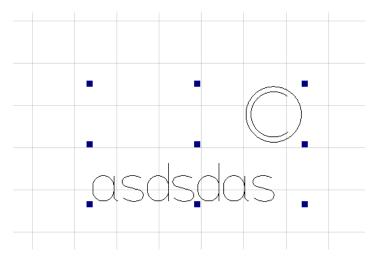


Figure 4-2 Choose a static text and a vertocgraph

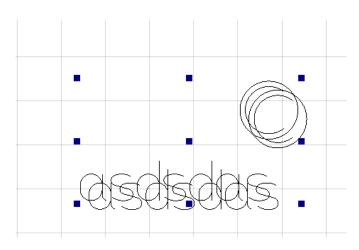


Figure 4-3 After copy

4.2 Delete

Delete is used for removing all the selected marks in the edit zone. The shortcut key is Del.

Notice: when user use delete function, Kingmark will delete them directly. User can undo this operation.

In the quick tool bar delete is



4.3 Undo

Undo is used for cancelling the last operation. The shortcut key is CTRL+Z.

Undo can cancel the edit operation, including moving, changing the content, changed the paramaters, insert marks or delete marks. Undo can be used before the save or save as operation.

The quick tool bar of undo is , and if there is no operation can be undo it will shown as

4.4 Redo

Redo is used for cancelling the undo operation. The shortcut key is CTRL+R.



, and if there is no operation can be redo it will The quick tool bar of redo is shown as

4.5 Transform

Transform contains move ,scale ,rotate ,flip and tilt. As shown in figure 4-4.

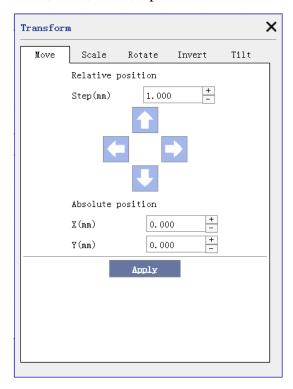


Figure 4-4 Transform

Move: There are two kinds of movement. In relative position user can set up a step

then choose the direction as







to move; Absolute

position is the x and y coordinate base on the lefttop corner.

Scale: Changed the height or width of the mark. If choose keep aspect ratio, the width and the height will change at the same time. As shown in figure 4-5.

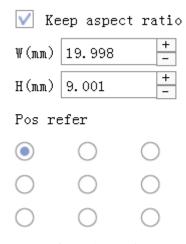


Figure 4-5 Scale

Rotate:User can choose anticlockwise or clockwise to rotate the mark.And the angle is relative angle.As shown in figure 4-6.

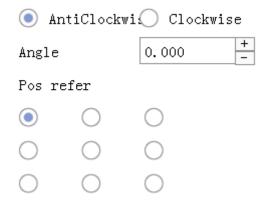


Figure 4-6 Rotate

Invert: There are two mode of flip, Horizontal line or Vertical line .As shown in figure 4-7.

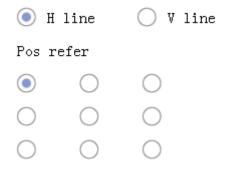


Figure 4-7 Invert

Tilt: Looks like rotate.But tilt angle is inside the mark. And the angle is relative angle.As shown in figure 4-8.

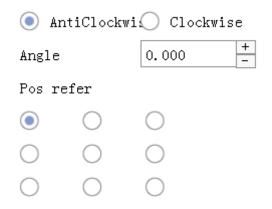


Figure 4-8 Tilt

4.6 Distribution

Distribution is used for rearrange the spacing of selected marks according to the selected method. As shown in figure 4-9.

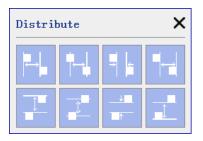


Figure 4-9

: Base on the left side of selected marks and arrange with equal left distance.

: Base on the horizontal center of selected marks and arrange with equal horizontal center distance.

Base on the horizontal spacing of selected marks and arrange with equal spacing.

: Base on the right side of selected marks and arrange with equal right distance.

: Base on the top side of selected marks and arrange with equal top distance.

: Base on the vertical center of selected marks and arrange with equal vertical center distance.

: Base on the vertical spacing of selected marks and arrange with equal spacing.

: Base on the bottom side of selected marks and arrange with equal bottom distance.

5 Setting

As shown in figure 5-1.

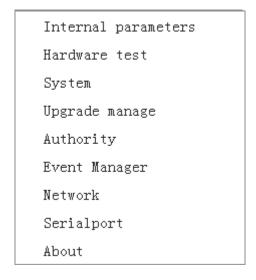


Figure 5-1 Setting

5.1 Internal parameters

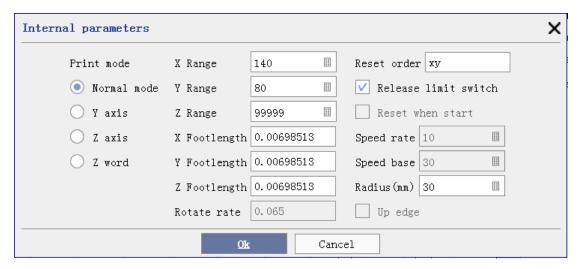


Figure 5-2 Internal parameters UI

Internal parameters including the print mode of pneumatic machine, hardware parameters and so on. Need the administrator permission.

Print mode: Including normal mode, y axis rotation, z axis rotation and z axis per word rotation.

Normal mode:Normal mode is flat marking mode and the default mode. Z axis will not effect under this mode.

Y axis: Y axis is the rotary axis, x axis is flat mode. Z axis will not effect under this mode.

Z axis:Z axis is the rotary axis, x axis and y axis is flat mode.

Z word:Z axis is the rotary axis, x axis and y axis is flat mode. User need to rotate the mark with 90 degree and then Kingmark will marking this mark word by word. When finish a word marking, z axis will roate to next word.

X,Y,Z range:Unit mm, means the max range x axis and y axis can move. And Kingmark will show a white background color section. When needling or marking, Kingmark will check the range of the document to avoid damage of the machine. (Over range will cause a wanring and stop marking).

X,Y,Z footlength: footlength = Motor gear diameter $\times \pi \div 360 \times$ Motor step angle \div Drive subdivision number.

Reset order:Setting of machine reset axis order, default xy, means reset x axis and y axis at the same time. If user want to reset the axis in order. For example, reset x axis and y axis at first, then reset z axis, can type in xy,z.

Release limit switch: Release the machine origin limit switch, if there is a proximity switch, you can use it.

5.2 Hardware test

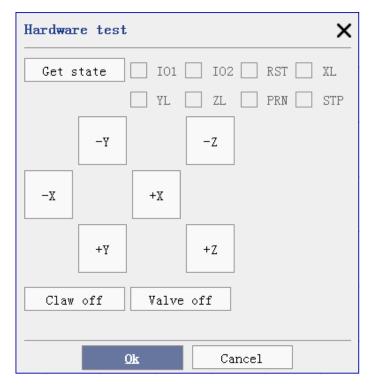


Figure 5-3 Hardware test

Get state: Click on it to get current IO ports information, including two user-define io port, reset ,x,y,z limit switch , print and stop.

XYZ+-: Click on it to move the axis, footlength = 1mm.

Claw off/on:To control the claw.

Valve off/on:To control the valve.

If pass all the test, means Kingmark can work well.

5.3 System

As shown in figure 5-4.

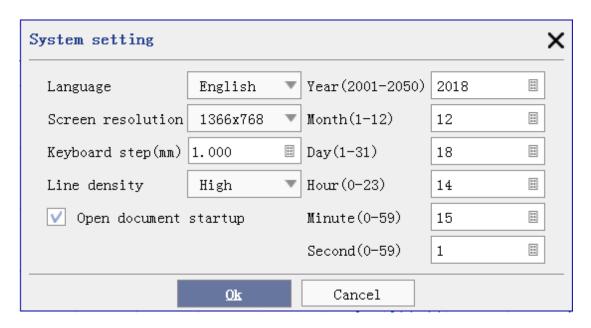


Figure 5-4 System setting

Language: Language of Kingmark. Supports Simplified Chinese , Traditional Chinese and English for now.

Screen Resolution:Change this parameter to fit the screen.

Keyboard step: The value of keyboard move marks one step.

Line density: The higher the density, the higher the degree of arc subdivision. The more smooth the arc is, the more obvious the line segment is.

Open document startup: Auto open the last print document when Kingmark startup.

Time: Including year, month, day, hour, minute and second.

5.4 Upgrade manage

As shown in figure 5-5.

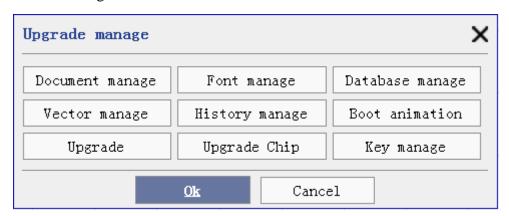


Figure 5-5 Upgrade manage

In upgrade manage can manage the document of Kingmark and the other resouce

such as fonts, database, vector and so on. The user interface are similar.

Document manage interface will shown below, as shown in figure 5-6.

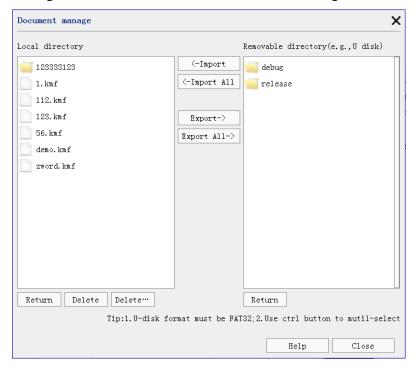


Figure 5-6 Document manage

In document user interface, the left list is the file list of Kingmark and the right list is the list from removable devices(such as u-disk). Only document can show the sub directory, the other resource must operate under root directory.

Import and export support single file or mutil files or all files. User can hold the CTRL key to select more than one files.

User can only delete the files from Kingmark .Some resouce, fonts for example,cann't be deleted when the resource is not a user-import resource.

Document: Only support .kmf format which created by Kingmark.

Font:Support .shx and .ttf and .dmf(Kingmark dot font).

Database: Support compliant format .txt and .csv or the .db3 created by Kingmark.

Vector graphic:Support .plt and .dxf.

Marking record:Only export the record to csv files.User can delete it when remove a document from Kingmark.

Boot Animation: Use the windows software to make the animation and update to show.

Upgrade:To upgrade the Kingmark version.

Upgrade chip:To upgrade the chip config.

Key manage:To unlock the pay function.

5.5 Authority

As shown in figure 5-7.



Figure 5-7 Authority manage

Administrator can changed the engineer or administrator password.

5.6 About

To show current Kingmark version and the hardware version.

5.7 Serial port

As shown in figure 5-8.

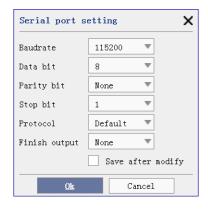


Figure 5-8 Serial port setting

Serial port is used for PC or PLC communication with Kingmark. The parameters

must be the same with PC or PLC.

The protocol supports default protocol(hex) and ascii protocol. Watch the protocol reference for more information.

5.8 Event Manager

As shown in figure 5-9.

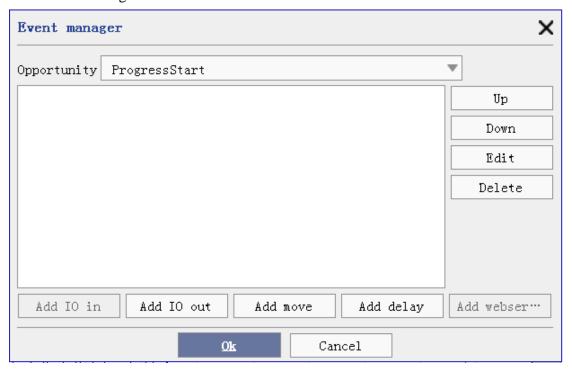


Figure 5-9 Event manager

Event manager accroding to user need to process the event when the opportunity happened. Opportunity including progress start, marking start, marking abort, marking finish, marking ready, marking free, reset start, reset fail and reset finish. Event including IO in, IO out, needle move, delay and webserver. IO in can only effect when marking free, and webserver can only effect when marking start, abort or finish.

Event manager can satisfy user different need. For example, if user need to output a signal when marking finish, choose "MarkingFinish", then add an IO out, choose an IO port such as 1, and set up the duration such as 1000 ms, then the IO port will output a signal when every marking finish. As shown in figure 5-10.

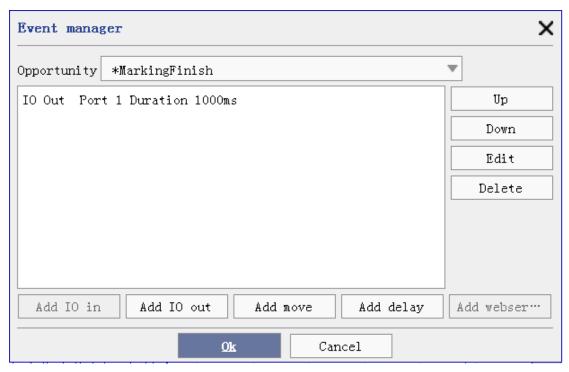


Figure 5-10 Marking finish

User can process more than one event in one opportunity. The order is up to down. User can change the order by choose the event then click on up or down button on the right side. Double click on the event will show a quick edit dialog for changing the content or event. As shown in figure 5-11.



Figure 5-11

If the event isn't need anymore, can click on delete button to delete it.

Click on OK button will save the list.

The detail timing of all opportunity is shown below.

Progress Start: After communication initial success.

Marking Start: After click on start button and current document is able to mark.

Marking Abort: When received a stop signal.

Marking Finish: After marking and before close the valve and the claw.

Marking Ready: After all marking operation and the stand by coordination, before entering marking free.

Marking Free: When the software is doing nothing.

Reset Start: After click on reset button.

Reset Fail: When reset fail or over time.

Reset Finish: When reset success.

5.9 Network

Network setting dialog is shown as figure 5-12.

Network setting X					
Static					
IP	Subnet mask				
Gateway	Refresh				
Network state: Connected					
✓ Enable					
Port(2000-5000) 2000					
Recv timeout(ms 100					
Setting	Close Debug mode				

Figure 5-12 Network setting

Kingmark will read the IP addr and the other information of current connection. And if there is no network will show disconnected in red.Check enable and enable network connection function. Network protocal please check the relevant instructions.

6 Extend

6.1 History record

History record can only show under login status. As shown in figure 6-1.

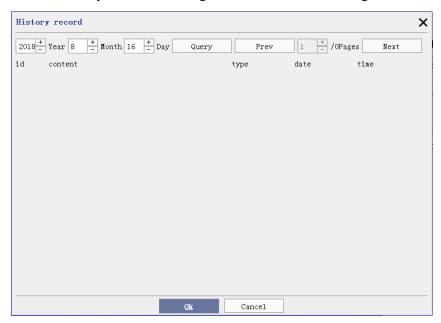


Figure 6-1 Histort record

Only current document's history record can be shown. Choose the date and click query to show the record. As shown in figure 6-2.



Figure 6-2 Record

Records will show in pages, each page can show 200 records. Press prev or next to turning the page.

6.2 Barcode output

Barcode output is used for the barcode printer, only can be setting under login status. As shown in figure 6-3.

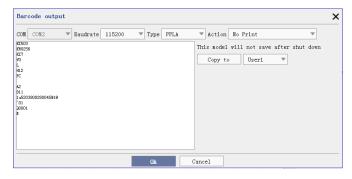


Figure 6-3 Barcode output

In barcode output dialog user can't set the serial port, it must be COM2, and the baudrate must set the same value with the barcode printer.

Kingmark has 4 kinds of template ,PPLA , PPLB , TSPL and ZPL. User can make self-define template in User1-3. User1-3 will be saved after click on Ok button.

User aslo can choose the action of barcode output. Default action is no print.

6.3 Web Server

7 Toolbar

Toolbar is the icons below the menu. As shown in figure 7-1.



Figure 7-1 Toolbar

7.1 Document operation

New:Same with Chapter 2.1.

Open:Same with Chapter 2.2.

Save: Save button will be enable after editing. And disable after save. If current document has not been saved, will pop up a save dialog.

7.2 Delete

Same as Chapter 4.2.

7.3 Undo and redo

Same as Chapter 4.3 and Chapter 4.4.

7.4 Align

Left align: Align the left end of the selected marks to the far left of the selected area.

Horizontal center align: Align the horizontal center of the selected marker to the horizontal centerline of the selected area.

Right align: Align the right end of the selected marks to the far right of the selected area.

Top align: Align the top end of the selected marks to the far top of the selected area.

Vertical center align: Align the vertical center of the selected marker to the vertical centerline of the selected area.

Bottom align: Align the bottom end of the selected marks to the far bottom of the selected area.

7.5 View

Initial Size:Same as Chapter 3.3.

Zoom in:Same as Chapter 3.1.

Zoom out:Same as Chapter 3.2.

7.6 More

Login(CTRL+L):User can't edit any document when not login. Only can print the exist document. As shown in figure 7-2.



Figure 7-2 Login

Engineer can edit the document and changed some print parameters. And the administrator can changed all the setting of Kingmark.

7.7 Lock/Unlock



After choosen a or some marks can use Lock/UnLock function

Lock is used for locking current mark, and can't move this mark by move mouse. This function is to avoiding move the marks already in right position. When user need to unlock, just click on ...

The locked mark can change property on the right side property panel including size and position.

8 Drawing bar and Property panel

Drawing bar located in the left of main screen. As shown in figure 8-1.



Figure 8-1 Drawing bar

Drawing bar is used for add a new mark into the edit zone. Including vector, text and barcode.

8.1 Vector

Click on icon to insert a vector into edit zone. User must select a exist vector in the pop up dialog.

Property as shown in figure 8-2.



Figure 8-2 Property

General property including width, height, X, Y, Z and Marking control.

Width: The actual width of selected mark.

Height: The actual height of selected mark.

X and Y: The position of selected mark, base on the left-top.

Z: No use for now.

Marking control: Including close mark, use record and use coincident code. Enable close mark and the selected mark will not be marking and show in gray; Use record means the content of this mark will be saved in the database; Coincident check will effect when the record exist.

When insert a vector mark, a choose file dialog will popup as figure 8-3. User must choose a vector file. Single click on the filename will preview it and double click is a open.

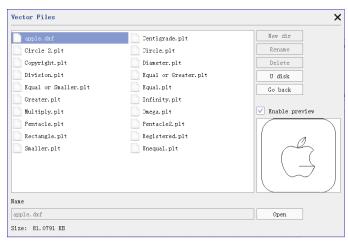


Figure 8-3 Choose

8.2 Static text

Click on icon to insert a static text mark into edit zone. The property as shown in figure 8-4.

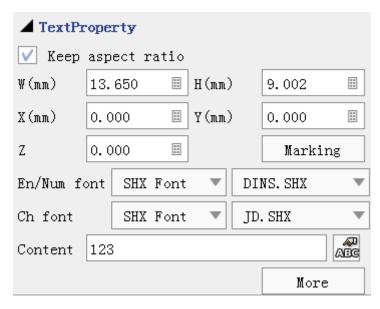


Figure 8-4 Static text property

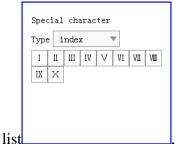
General property see Chapter 8.1.

Special property including fonts, content, font size and so on.

Fonts including English/Number font and Chinese font, supports shx, ttf and dot point.

Content is the text to show, user can type in with soft keyboard or a use keyboard.

If need to type in special character, click will pop up a special character



double click on the character to insert to the content.

Click more will pop up more property as shown in figure 8-5.

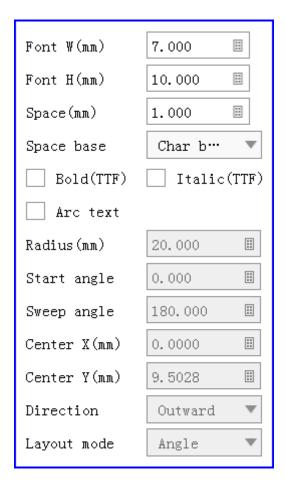


Figure 8-5 More

Font width and font height are the percentage of the mark.

Spacing need to work with **Spacing base**, as default Spacing base is font edge, means that the left character's right to the left of the right character. If it's auto, then spacing is useless, will be 0. If base on character center will be base on verital center of ever character.

You can set bold or italic to ttf font witch can't be use to shx font.

Check the arc text can convert current mark to arc mark. You can set up radius, start angle, distribution angle, center position, word direction and align mode. When align mode is char is useless.

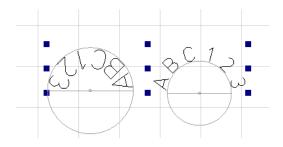


Figure 8-6 Left is outward and right is inward

8.3 Compositetext

Click to insert a composite text mark into edit zone. The mark will be shown in magenta. Property of composite text will be shown in figure 8-7.

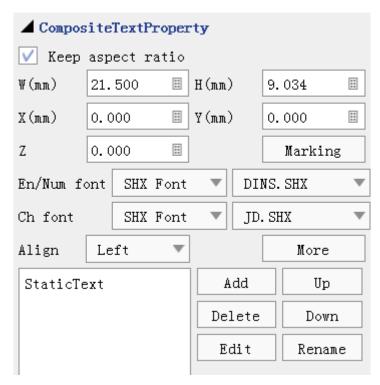


Figure 8-7 Composite text property

General property is the same as Chapter 8.1.

Text property is the same as <u>Chapter 8.2</u>.

The spacial property of composite text including align and content list. Align is used for align the multi line of composite text; content list can add, delete ,edit, move up, move down, rename. Click on add button will shown a type dialog as shown in figure 8-8.

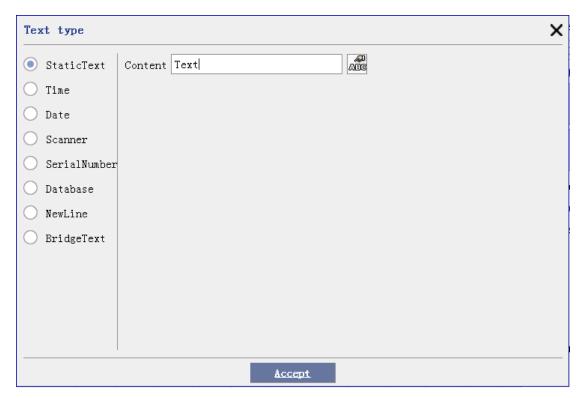


Figure 8-8 Type edit dialog

Compositetext type include static text, time, date, scanner, serial number, database and newline

8.3.1 Static Text

Static text interface see figure 8-8, can use soft keyboard or real keyboard, If you



want to type in special symbol you can click to pop up double click to type in.

8.3.2 Time

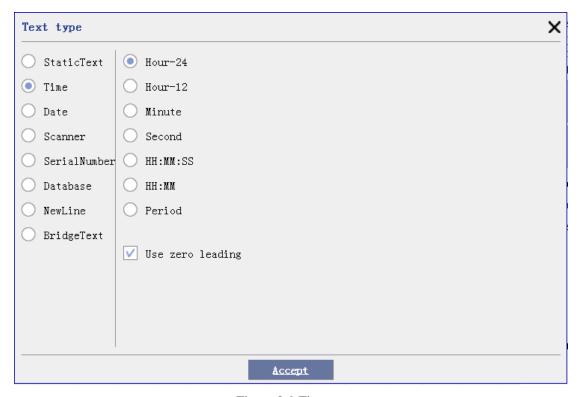
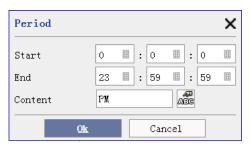


Figure 8-9 Time

Time type can be set to hout-24, hour-12, minute, second, hour:minute:second, hour:minute, period. Content will be set according to the system time. Zero leading to fill up a zero if current number is single digit.

Select period then the right side will be useable. Change the period number can set the different time to show different content. Double click the list will pop up a dialog



to change the start time, end time and content.

8.3.3 Date

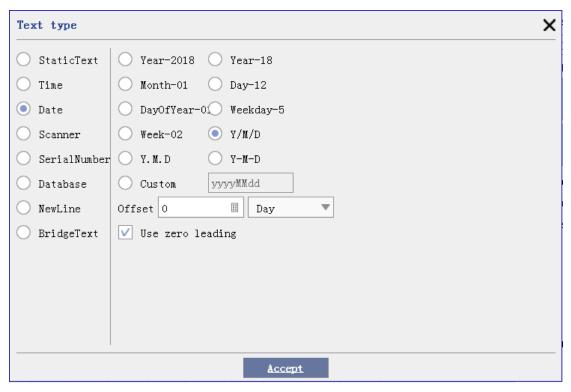


Figure 8-10 Date

Date type can set long year, short year, month, day, day of year, weekday, week of year, Year/Month/Day, Year.Month.Day, Year-Month-Day. And set the offset days or months or years from today.

User can define the content of the date, double click the content on the right side

will show up a dialog

Change

X

Map to 2018

Ok

Cancel

Age

Age

Cancel

Age

Cancel

Age

Cancel

Age

Cancel

Age

Cancel

Age

Cancel

8.3.4 Scanner

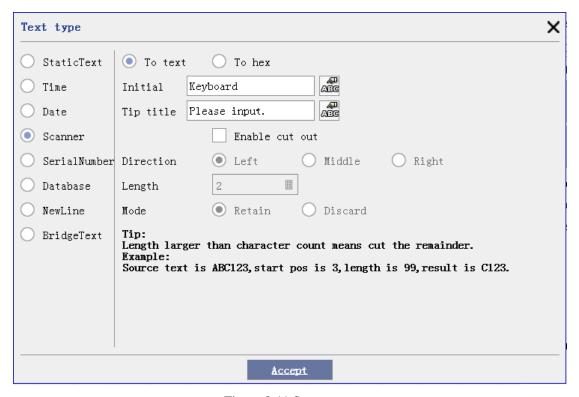


Figure 8-11 Scanner

Scanner means when printing this mark must input the content, support keyboard and the scanner, press Enter to finish edit. Can choose show type such as text or hex(The content will be shown as number).

8.3.5 Serial number

Text type					×					
StaticText	Increase	O Decrease	Minimun	1						
O Time	Repeat count	1	Maximun	99999999						
O Date	Step value	1	Current	1						
O Scanner	Format	Decimal ▼	Digits	9 11						
SerialNumber		✓ Recycle	Reset time	0						
O Database										
O NewLine										
O BridgeText										
Accept										

Figure 8-12 Serial number

Serial number means a text change according to the fix rule when printing.

Increase/Decrease: Means current serial number is increase or decrease.

Repeat count: Means the print times before a serial number changed.

Step value: Means the serial number change value.

Format:Including decimal, hex lower, hex upper, 36-decimal lower, 36-decimal upper. Decimal valid character is "0-9", hex lower is "0-9, a-f" and the upper is "0-9, A-F", 36-decimal lower is "0-9, a-z" and the upper is "0-9, A-Z".

Recycle: When set up recycle, when the serial increase to de maximum or decrease to the minimum, printing will no stop and reset the serial number to minimum or maximum.

Minimum/Maximum: The number range.

Current: The current value of this mark.

Digits: The number of the length of this mark.

Reset time: Default 0, means not reset, if more than 0, can edit reset time in the



list Cancel, when system time arrive this time, serial number will reset to minimum or maximum.

8.3.6 Database



Figure 8-13 Database

Database function can choose a database file which has been import into laser machine. The database combobox will show all the database file. Choose a file and change the current row and column, the content will change at the same time. If auto loop has been check, when finish the last row printing will print the first row.

8.3.7 New line

New line is used between two compositetext to start a new line to show.

8.3.8 Bridge text

As shown in figure 8-14.

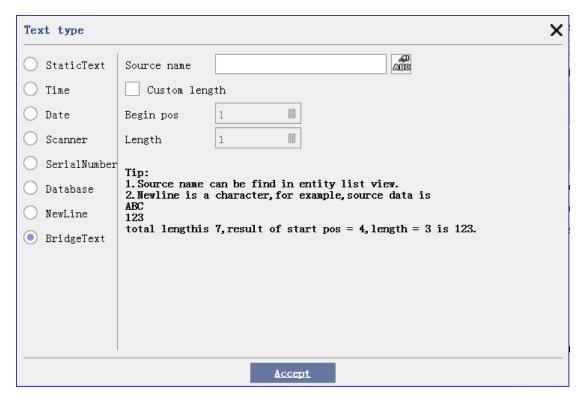


Figure 8-14 Bridge text

Bridge text is used for linking two marks. Entering the source mark name and get the content of source mark. User can setting the content if the source content is more than you want.

8.4 Barcode

Click to add a barcode to the edit area.

Barcode has one dimensional code and two dimensional code two types.

One dimensional code: Code128, Code39, Code93, Code11, CodaBar, C25Matrix,

C25Inter, ExtendCode39, EAN128, EAN8, EAN13, UPCA, UPCE, ISBN.

Two dimensional code: QRCode, PDF417, DataMatrix.

One dimensional code property are the same.

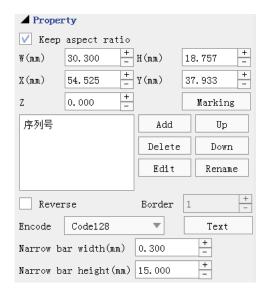


Figure 8-15 One dimensional code property

Normal property as Line.

Reverse: Only effect in fill mode, can print a reverse content barcode.

Border:In reverse mode use to set the width of border.

Encode: Can choose different code type.

Narrow bar width(mm):Ever vertical line's width(Only effect on one dimensional code).

Narrow bar height(mm): Ever vertical line's height(Only effect on one dimensional code).

Text: Show text property page.

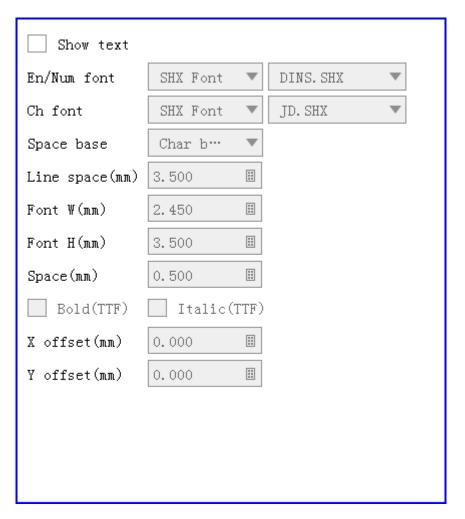


Figure 8-16 Text

After select show text will see the text show below the barcode. The params is the same as text page. User can change the printing property witch can be set different with layer and barcode fill.

Datamatrix property is shown below.

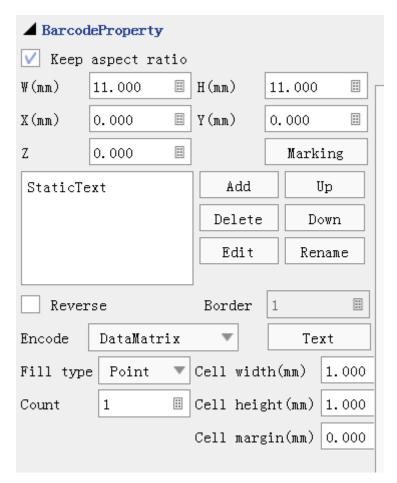


Figure 8-17 DataMatrix

ErrLevel: There are L, M, H, Q four types order by level. Incerease error level will cause complication of barcode, and incerease the fault tolerance.

Fill type: None Point Rectangle and Circle four types, as shown below.

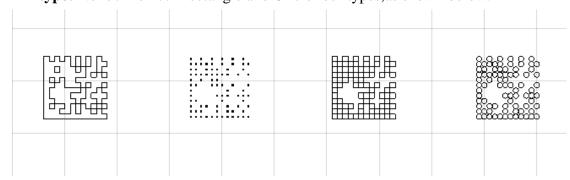


Figure 8-18 Left to right None, Point, Rectangle, Circle

Count: When use fill type can choose the count of fill, the more count set the more fill cell will be around the point.

Cell height, width, margin: Adjust the fill cell size.

PDF417 and QRCode is the same as Datamatrix.

8.5 Date

A quick mark of date. Click icon to insert a date mark. This mark will shown in dark yellow. And update the content after system time changed.

8.6 Time

A quick mark of time. Click icon to insert a time mark. This mark will shown in dark yellow. And update the content after system time changed.

8.7 Serial number

A quick mark of serial number. Click icon to insert a serial number mark. This mark will shown in red.

8.8 VIN Code

VIN is soft of Vehicle Identification Number. The property is shown in figure 8-18. This mark will shown in blue.

▲ VIN CodeProperty											
✓ Keep aspect ratio											
W(mm)	107.25	53	≣	H (mm)		9.018	∷				
X (ww)	0.000		⊞	Y (mm)		0.000	III				
Z	0.000		⊞			Marking					
Minimun		1									
Maximun		999	999999								
Current		1									
Increase											
Repeat count		1									
Step value		1									
Static text		ABCDEFGH3JK									
✓ Recyc	cle										
More											

Figure 8-19 VIN Code

Type in the vin code info in static text section and setting the serial number info, Kingmark will update it after marking and generate the check code automatically.

8.9 Point

Click icon to insert a point mark. Just can set it's coordinate.

8.10 Control point

Click icon to insert a control point. Control point is shown as but will not be marked. Control point can be used as walk by point, or control io port, or delay time.

Control point property is shown as figure 8-20.

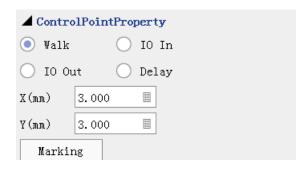


Figure 8-20

9 Entity list

Entity list is the list on the top right of the main screen. As shown in figure 9-1.

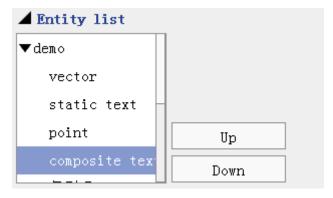


Figure 9-1 Entity list

In entity list, will show all marks and layer in the edit area order by print order. Select or mutil-select marks, will be shown in entity list too.

Single select can move up or down the mark to change the print order. Default print order is the order adding the mark. If want to pass the obstacle can add a control point.

Double click on the name in the list will show a pop dialog, user can change the mark name as shown in figure 9-2.

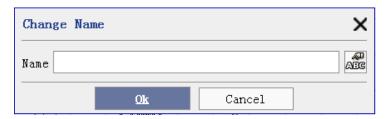


Figure 9-2 Change mark name

10 Print param

Print parameter panel is in the right middle of main screen, below the entity list. As shown in figure 10-1.

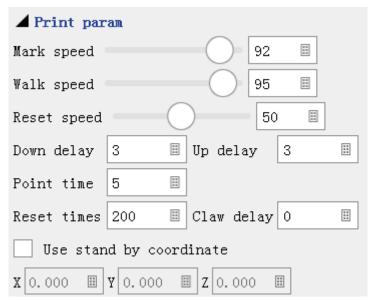


Figure 10-1 Print parameter

Marking spped:Including mark speed, walk speed and reset speed. Change there parameter will effect the speed of marking.

Delay:Including Down delay,up delay,point time. Down delay is the time before down pen, too small will cause a shallow line and too big will cause a deep point. Up delay is the time before up pen. Point time is used for marking point such as dot font or dot Barcode.

Reset times: Reset will fix the needle offset cause by needle touch the workpiece again and again.Default value is 200,means after 200 times marking will do a automatic reset. Setting 0 to close this function.

Claw delay: The time delay before release claw.

Standby coordinate: The point to start and finish marking. If there is no a standby coordinate, stand by coordinate will be set 0,0, notice this 0,0 point doesn't means reset.

11 Needle Aim

As shown in figure 11-1.

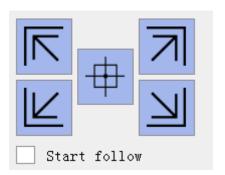


Figure 11-1 Needle aim

Needle aim can use after select mark. It's used for aim the position of the selected mark. User can choose lefttop,leftdown,righttop,rightdown and center.

Check the start follow option, then select or move a mark, the needle will follow the mark and the choosen type. This the type is the last selected type, lefttop default. And uncheck it after finish.

12 Marking control

Marking control panel is the section below the edit zone. As shown in figure 12-1.



Figure 12-1 Marking control

Mode: Single and continuous.

Single:Click on print button or keyboard shortcut key F9 to start a print. After finish one time it will stop.

Continuous: Click on print button or keyboard shortcut key F9 to start a print. After finish one time it will sleep for the gap time and then start another marking until the finished times reach plan times.

Gap time: The spacing time between two marking. This time will not including claw delay and the reset time.

Plan: The total marking times. When reach this number will cause astop.

Finished: The times of finish marking.

Finish time: The whole marking time of current marking work.

Reset: Do a needle reset work. It has a 20 seconds overtime. The shortcut key is F12.

Stop: When Kingmark is doing marking user can click stop button to stopthe marking work. The shortcut key is Esc.

Marking: Start a marking work. Shortcut key is F9.

13 Status bar

Status bar is the bar under the edit zone. As shown in figure 13-1.

Version: 3.0.16.48(C1.05)

User:Unlogin

File: United-1.kmf

Stop

2018/12/18 15:24

Figure 13-1 Status bar

Status bar from left to right is version, current user, current document, marking status and system time.

14 Other

14.1 Record

Marking record is close on default, check the box to open it. As show in figure 14-1.

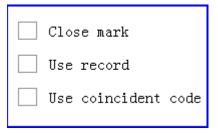


Figure 14-1 Marking record

When enable this function, after finish one marking work, Kingmark will save the content which has been enable this checkbox, and the time is the finish time.

14.2 Coincident code check

Coincident code check is close default. Need to enable record function then use it. Coincident code check function only can check the saved content in this document.

When enable this function and marking a already marking content, will show a message box to warning as shown in figure 14-2.

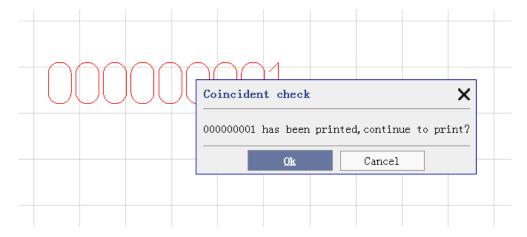


Figure 14-2 Coincident check