

Institch-i5 Electric Control System

Operation Instruction



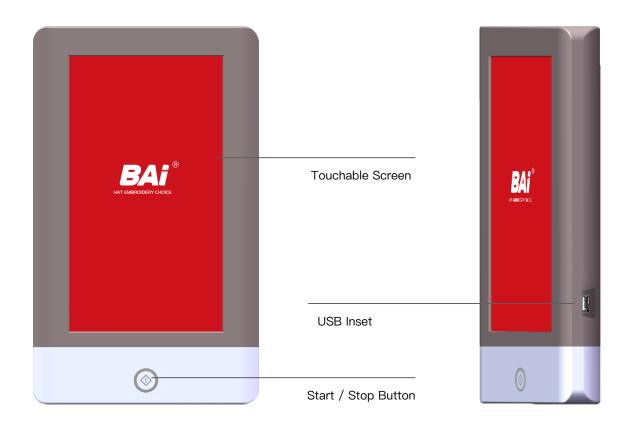
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Controller



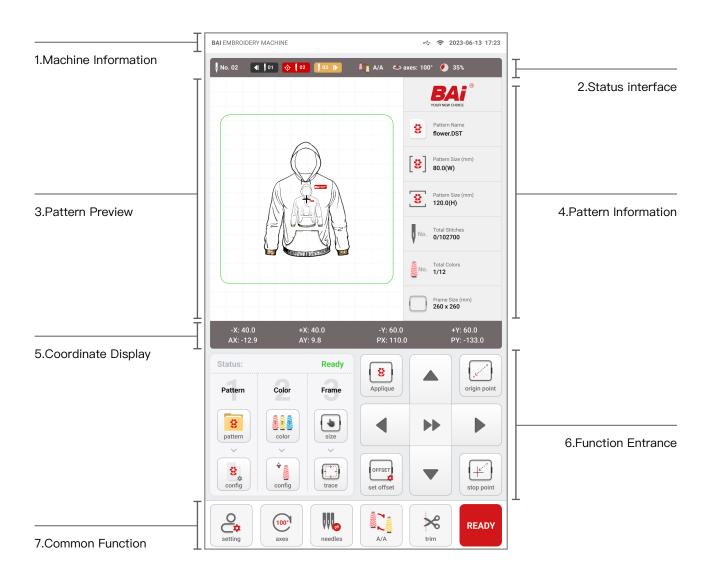
Contents	Description
Touchable Screen	High brightness LCD display and touch screen.
USB Insert	USB insert for patterns input and output.
Start / Stop Button	Click button to start and stop embroidery.

1 Tips:

- For ensuring the service life and use of the touch screen, please do not tap the screen with hard and sharp objects.
- Do not click too hard when tapping to avoid damaging the touch screen.

1 Tips:

- Please insert and remove USB with right direction.
- Do not pull out USB when reading, in case data lost.



1. Machine Information

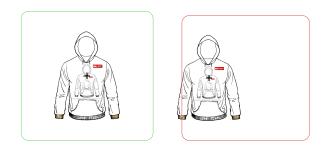
Contents	Description
?	Signal intensity.
€√°→	USB connection status.
Time	Change time display method in setting page.

2. Status Interface

Contents	Description
	Current needle position.
No. 02	If "00", it is "No Needle". Turn the color change motor knob by hand until screen shows any number but "00".
	Color display: After choose colors for pattern, will show here.
■ 01	• 1 is last color.
	• 2 is present color.
	• 3 is next color.
	3 color changing modes of embroidery.
	• A/A is auto color changing and start embroidery.
Ś <mark>`</mark> ġ A/A Ś <mark>`</mark> ġ A/M Ś <mark>`</mark> ġ M/M	 A/M is auto color changing and manual start embroidery.
	• M/M is manual color changing and manual start embroidery.
	Main axis degree display.
	i If "??? " or other numbers, it is main axis not in
✓ axes: 100°	place.
	Click 100° at the bottom page to make it back to normal.
9 35%	Completion ratio.

3. Pattern Preview

Contents



Description

Display the position of the pattern in frame you selected.

- When the pattern is within the frame, the border line is green.
- When the pattern out of the frame, the border line is red.

4. Pattern Information

Conter	nts	Description
	Pattern Name flower.DST	Pattern's name and format.
	Pattern Size (mm) 80.0(W)	Pattern's width.
	Pattern Size (mm) 120.0(H)	Pattern's height.
No.	Total Stitches 0/102700	Completed stitches / Total titches.
≪ No	Total Colors 1/12	Completed colors / Total colors.
	Frame Size (mm) 260 x 260	Frame's type and area.

5. Pattern Information

Contents

-X: 40.0	+X: 40.0	-Y: 60.0	+Y: 60.0
AX: -12.9	AY: 9.8	PX: 110.0	PY: -133.0

Description

(1) Coordinate display of pattern.

- Pattern's width is -X plus +X values.
- Pattern's height is -Y plus +Y values.

(2) Coordinate display of relative origin of pattern and frame.

- AX/AY: coordinate display of relative origin of pattern.
- PX/PY: coordinate display of relative origin of frame.

6. Function Entrance

Contents

	·
Status: Ready Pattern Color Frame pattern Size patch pattern Size Image: Size v v v config Size Image: Size size v v image: Size image: Size Image: Size size image: Size image: Size image: Size v image: Size image: Size image: Size image: Size v v v image: Size image: Size image: Size image: Size<	Image: crigin point This section provides all the functions of preparation work before embroidery. Image: crigin point Image: crigin point
Status: Ready	Working status:
	1. Ready.
Status: Embroidery	2. Embroidery.
Status: Break	3. Break.
Status: Stop	4. Stop.
pattern	Pattern selection, input, output, division, combination, and deletion.Detailed introduction: P10
config	Rotating, Mirroring, Arraying, etc. on the pattern.Detailed introduction: P23
	Setting pattern color.
color	Detailed introduction: P27
	Set needle bar number and thread color.
config	Detailed introduction: P30
	Select the corresponding embroidery frame according to pattern.
size	Detailed introduction: P32
	Positioning before starting embraidery
	Positioning before starting embroidery.
trace	Detailed introduction: P36

Description

Contents	Description
	Set offset point: When make appliqué, press it to set the stop point after going out of the frame.
	1. Move the embroidery frame to the specified position.
OFFSET	2. Click the set offset key.
set offset	3. Click OK.
	When no offset point is set, the highest point of the current embroidery frame is automatically defaulted as the offset point.
	Quick appliqué: Every time you press the key, move alternately between the current position and the offset point.
patch	• In the stop state, click the button to move the embroidery frame from the stop point to the offset point. After putting appliqué and so on steps, directly start the machine, the frame will return to the stop point, and continue to embroider.
origin point	Return to origin point:Restart embroidery after returning to the origin point.
	In the state of embroidery, if you click to return to the origin point, the embroidery will over, and return to the starting point, please select as needed.
	Return to stop point:During the embroidery process, when it is necessary to go out of the frame for manual add appliqué or other operations.
	1.Pause the machine first.
	2.Use the direction keys on the screen to move the position of the frame.
	3.When the manual appliqué or other operations are completed, click the key to return to the stop point again, and the embroidery frame will automatically return to the pause position.
stop point	4.Click the start key, and the machine will automatically star embroidery from the last stop position.
	During operation, the embroidery frame and fabric cannot be removed, otherwise the last stop point won't be accurate.
	After power off, please click the recovery key to continue embroidery.
	✤ Power off recovery: P67

Cont	ents	Description
		Move the position of the pattern in frame.speed selection key.
		• I High speed move / I Low speed move

7. Common Function

Contents	Description
setting	Set machine parameters.
	Main axis 100° key.
100°1	• You can see the degree of main axis in the embroidery information area.
axes	If "???" or other numbers, it is main axis not in place, click this key to bring it back to normal.
	Click the key to manually switch needle positions.
needles	If "00", it is "No Needle". Turn the color change motor knob by hand until screen shows any number but "00".
	3 color changing modes of embroidery.
	• A/A is auto color changing and start embroidery.
	• A/M is auto color changing and manual start embroidery.
A/A	• M/M is manual color changing and manual start embroidery.
trim	Thread trimming: Manual thread trimming.
	Working state switching key(READY/EMB).
	• Press the key alternately.
READY / EMB	Ready is ready state, pattern selection must be done in the Ready state.
	Emb means to enter the working state, only in this state can start embroidery.

Pattern Management

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Function Menu

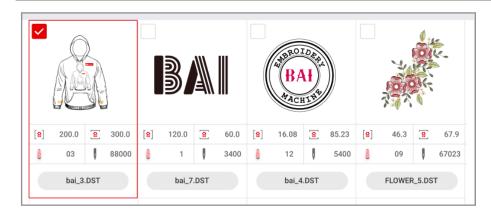
Contents	Description
	Input patterns with USB.
Input	• Input the USB, click input key, select the pattern in the USB, click save, and the pattern will be saved in the pattern management.
	Detailed introduction: P12
Cutput	Patterns output to USB.
	Detailed introduction: P13

Pattern Management

Contents	Description
	Letter embroidery: Click to enter the letter editing interface.
Text	Detailed introduction: P14
	Multiple select: Batch import, output and delete patterns.
Multi-select	• It is usually used in importing , outputing , and deleting patterns.
Delete	Delete: Delete the pattern after selecting it.
	Divide: After selecting the pattern, click to enter the pattern division editing.
Devide	Detailed introduction: P18
	Combined: Select patterns and click Save to enter the combined pattern editing interface.
Combine	1 Up to 4 patterns can be selected for combination.
	Detailed introduction: P20

Pattern List

Contents



Description

- (1) Pattern files can be multi or single-selected.
- (2) The width, height, total number of colors, total stitches and name of the pattern will be displayed under the pattern.

How to Input Patterns

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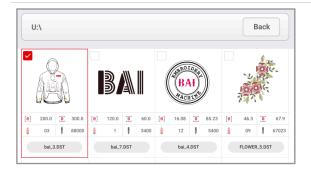




BAI EMBROIDERY	MACHINE	• ~ -	Ŷ	2023-06-13 17:23
Close	PATTERN			Save
linput	Output Text Multi-select Delete	D	evid	e Combine

4 Select the patterns to inputted.

• The default is **multi-selection**, you can select multiple patterns at the same time to input together.





Close				U	SB					l	mpc	rt
U:\										E	Back	
_												
											Lu	1
	\		2			ana BA	2423			77	-igery	
Å						BA MACI				THE REAL	しつやいた	
200.0	300.0	[8]		 8 60.0 	[8]	(BA		85.23	[8]	46.3	8	67.9

1 Tips:

- When inputting, if USB can't be read, please re-plug or replace USB to input again.
- The USB storage space needs to be less than 64Gb, and the format is Fat32.
- This machine supports the storage of up to 200 deigns or 20 million stitch. If there is not enough space, delete some patterns before continuing to input.
- Do not remove the USB before the input is complete to avoid data loss.
- This machine supports pattern files in DST/DSB format, other formats need to be converted by design software.

How to Output Patterns

1 Insert USB.	4 Click
	BAI EMBROIDERY MACHINE Close PATTERN Save
2 Click Jattern	 Tips: If you need to output all patterns, please click directly.
Status: Ready Pattern Color Frame Image: pattern Image: pattern Image: pattern Image: pattern Image: pattern Image: pattern	 Tips: When outputting, if USB can't be read, please replug or replace USB to input again. Do not remove the USB until the output is complete to avoid data loss.
config Config	

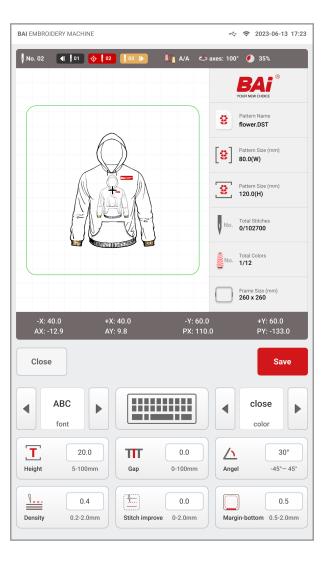


Select the patterns to outputed.

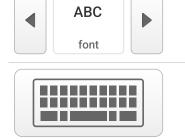
- The default is **single selection**.
- If you need to output multiple patterns at one time, click multi -select key.



Letter Embroidery



Contents



Description

Letter fonts.

• Supports 10 fonts, which can be switched by clicking the left and right keys.

Keyboard input area.

() click on the keyboard input area to bring up the numeric keyboard to write letters.

Letter Embroidery

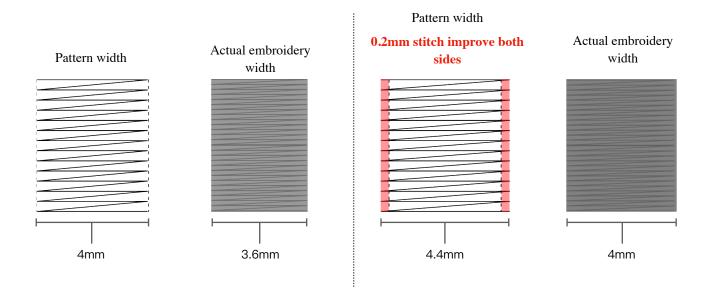
Contents	Description
	Color change switch.
close	• When close, the pattern has only one color at this time
color	• When open, each individual letter will have a random color.
20.0	Letter height adjustment.
Height 5-100mm	• Adjustable range 5-100mm.
0.0	Letter spacing adjustment.
Gap 0-100mm	• Adjustable range 0- 100mm.
30°	Letter rotation angle adjustment.
Angel -45° - 45°	• Adjustable range $-45^\circ - 45^\circ$.
	Stitch spacing: Can adjust the size of the stitch spacing of letters.
0.4 Density 0.2-2.0mm	• The spacing setting for normal embroidery is 0.3 - 0.4mm, the smaller the value, the denser the pattern, vice versa.
	• Adjustable range 0.2-2.0mm.
0.0	Stitch improve: Used to improve embroidery quality, according to different fabrics and patterns size to adjust.
Stitch improve 0-2.0mm	• Adjustable range 0-2.0mm.
0.5	Margin bottom: Used to stabilize the fabric and reduce embroidery distortion due to shrinkage and avoid sinking into soft fabrics.
Margin-bottom 0.5-2.0mm	• The default setting is 0.5mm, the more shrinkage of the fabric, the smaller the distance of the margin bottom.
	• The adjustable range is 0.5-2.0mm.

Letter Embroidery

Stitch Improve Example

The default setting is 0mm.

- The more the shrinkage of the fabric or the pattern, the bigger stitch improve value will be set.
- 1 Affected by the fabric used, it needs to be adjusted according to the actual situation.
- **(**) The following is for reference only.



Margin-Bottom Example

The default setting is 0.5 mm.

• The more shrinkage of the fabric, the shorter the distance of the margin bottom.

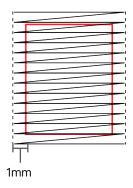
No add bottom stitches



Add bottom stitches Distance is 0.5 mm both sides



Added bottom stitches Distance is 1 mm both sides



How To Embroider Letters

1 Click

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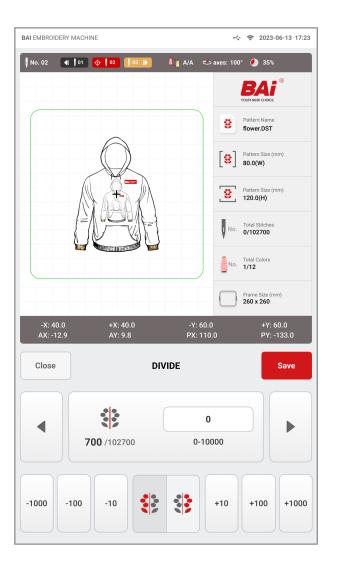
Ctatuo		Deedy	
Status: Pattern	Color	Ready Frame	
pattern	color	size	
config	config	trace	
2 Click	Text		
BAI EMBROIDERY MACH	INE		⊷ 🗢 2023-06-13 17:23
Close		PATTERN	Save
Input	t Text	Multi-select	
3 Enter	letters		
EMBROIDER	(
1 2	3 4	5 6 7	7 8 9 0
QW	ER	ΓΥ	JIOP
AS	DF	GH	JKL
	xc	VB	
- ,		Space	. Enter
			Enter Key

4 Edit letters as request.

Close		1	TEXT		Save
	ABC font				color
Height	20.0 5-100mm	Gap	0.0 0-100mm	Angel	30° -45°- 45°
l Density	0.4 0.2-2.0mm	Stitch impre	0.0 ove 0-2.0mm	Margin-bot	0.5 tom 0.5-2.0mm

5 After adjustment, click Save

Pattern Division



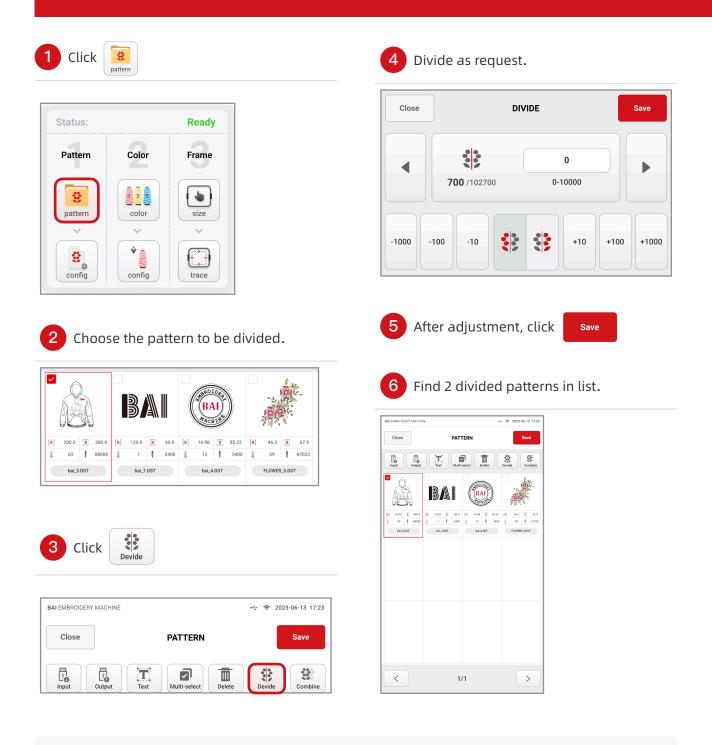
Contents

0 700 /102700	Customize the division of stitches.Input the specific number of stitches, and click the left and right switching keys to divide.
-1000 -100 -10 +100 +1000 +1000	Divide the pattern with specific number.Only the system default number of stitches can be selected for division.
	Check out the divided preview area.
	• Press the left side to preview the first half of the pattern
	• Press the right side to preview the second half of the pattern.

Description

How To Divide Patterns

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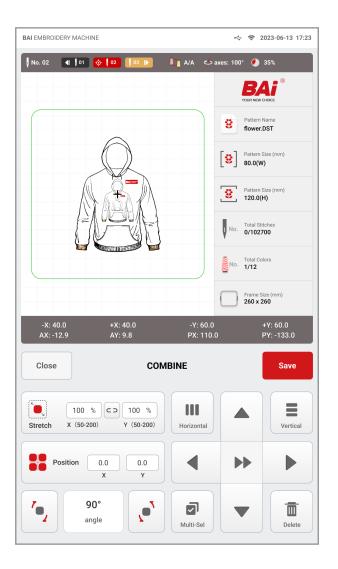


1 Tips:

- Design division is to divide the pattern into two according to the specified number of stitches. After the division, two divided designs will be displayed on the design management interface.
- The current version only supports dividing patterns by stitch sequence. If by outline, please use design software.

Pattern Combination

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Contents





Description

The scaling ratio of the pattern in X/Y direction.
--

- The default ratio is 100%, and the adjustable range is 50%-200%.
- It can zoom in and out in same proportion by clicking. ⊂⊃

Adjust the X/Y direction spacing between patterns.

Pattern Combination

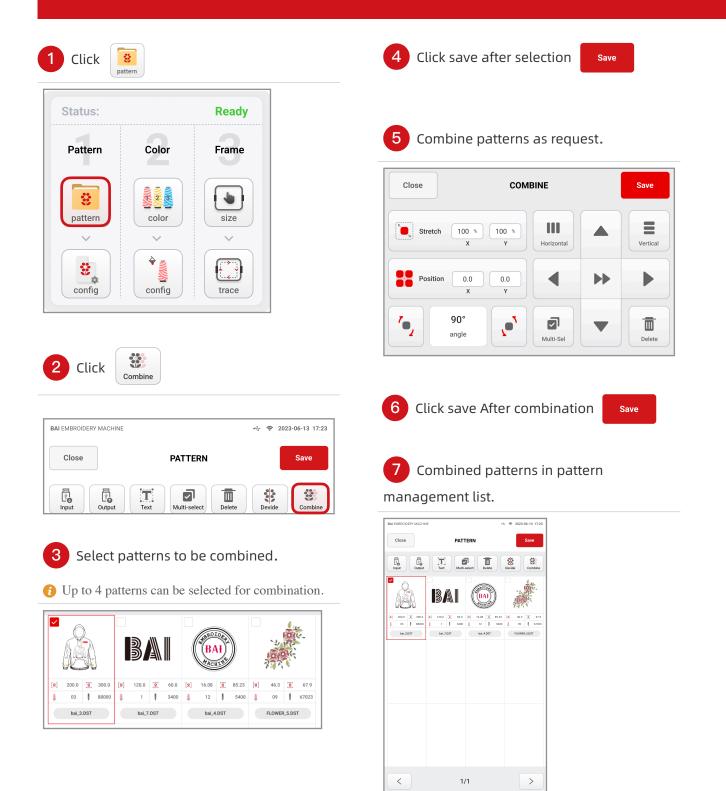
Contents	Description
	Pattern rotation setting.
	• Tap to enter a custom rotation angle.
	• Rotate according to the specified angle and direction:
7 , 90°	0° angleM0° angleRotate 0 degrees/Mirror rotate 0 degrees.
angle	90° angleM90° angleRotate 90 degrees/Mirror rotate 90 degrees.
	180° M180° angle Rotate 180 degrees/Mirror rotate 180 degrees
	270° angleM270° angleRotate 270 degrees/Mirror rotate 270 degrees
	One-key horizontal arrangement of multiple patterns.
Horizontal	This function is arranged according to the origin point of the pattern which may not be on the same horizontal line due to the different shape of the pattern.
	One-key vertical arrangement of multiple patterns.
Vertical	This function is arranged according to the origin point of the pattern which may not be on the same vertical line due to the different shap of the pattern.
W ulti-Sel	Switch between a single pattern and all patterns to edit.
Delete	Delete single or all patterns after selecting.
	Move direction keys to adjust the distance between patterns.

i Tips:

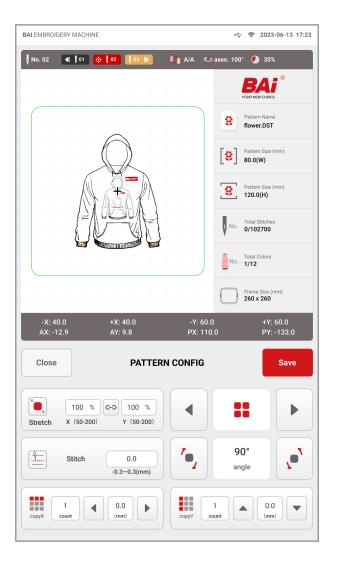
- Directly use fingers to select specific patterns in the preview area.
- When a pattern is selected, its color displayed on the preview area, and the rest of the patterns are in gray.

How To Combine Patterns

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Edit Pattern



Contents

),	100 % C-	م 100 %
Stretch	X (50-200)	Y (50-200)

(1)	
Stitch improve	0.0
··········	-0.3-0.3(mm)

Description

The scaling ratio of the pattern in X/Y direction.
• The default ratio is 100%, and the adjustable range is 50%-200%.
• It can zoom in and out in same proportion by clicking.
Stitch improve: Used to improve embroidery quality, according to
different fabrics and patterns size to adjust.

Edit Pattern

Contents

70,

Description

Symmetry mode: Switch between normal symmetry, X symmetry, Y symmetry, and XY symmetry.

Normal symmetry:
X Symmetry:
Y Symmetry:
XY Symmetry:

Pattern rotation setting.

•

• Tap to enter a custom rotation angle.

	Rotate acc	cording to the specified angle and direction:
0° angle	M0° angle	Rotate 0 degrees/Mirror rotate 0 degrees.
90° angle	M90° angle	Rotate 90 degrees/Mirror rotate 90 degrees.
180° angle	M180° angle	Rotate 180 degrees/Mirror rotate 180 degrees.
270° angle	M270° angle	Rotate 270 degrees/Mirror rotate 270 degrees.

X-direction array editing.

- Click to enter the desired number of arrays.
- Click
 O.0
 (mm)
 to adjust spacing of arrays.
- 1 The spacing is judged according to the origin point of embroidery, recommended that the spacing of the array be larger than that of the pattern's width.



90°

angle

Edit Pattern

Description Contents Y-direction array editing. 1 • Click count to enter the desired number of arrays. 0.0 1 -0.0 соруҮ count (mm) (mm) • Click to adjust spacing of arrays. ⁽) The spacing is judged according to the origin point of embroidery, recommended that the spacing of the array be larger than that of the pattern's height.

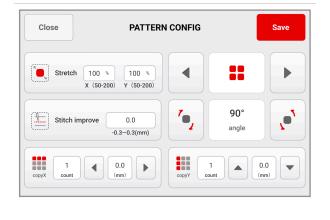
How To Edit Pattern







Edit patterns as needed.



Save



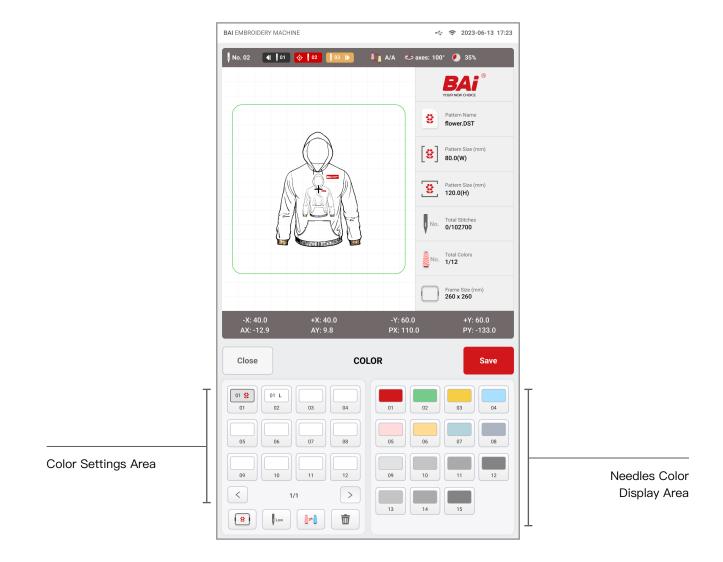


1 Tips:

- Please use professional design software for more precise editing design request.

Color Setting

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Contents

01 😧	01 L 02	03	04	01	02	03	04
05	06	07	08	05	06	07	08
09	10	1		09	10	11	12
8	Low	[#]		13	14	15	

Description

On the left is the color sequence and total number of colors of the pattern.

On the right are the actual embroidery thread colors used for each needle.

- If the color of the needle does not match the embroidery thread used, you can click Back to set the right color.
- Set needle bar number and thread color: P30
- 1 In the middle of setting, if the previous needle number is wrong, click selected and reset.

Color Setting

Contents	Description
	Appliqué : If add appliqué in the current color, click this key, and the pattern will be added after the current needle number.
	01 33 01
	When embroider this color, it will automatically be out of the frame and stop, waiting for the appliqué to be added. After finishing, start the machine directly to continue embroidery.
	• If want to cancel the appliqué, click it again.
	Low-speed embroidery : If a certain color needs to be at a reduced speed, click this key, and "L" will be added after the current needle number.
I Low	01 L 02
	When embroider this color, speed will be reduced to 400 spm.
	• If cancel low-speed embroidery, click it again.
	Modify colors in batches, click this key.
2 2	At this time, the same colors will be selected, and then
	re-select the color in the needle color display area.
	• If cancel the batch modification of colors, click it again.
	Delete : Deletes the incorrect needle number midway through setup.
m	1.Click incorrect needle number.
	2.Click the delete icon.
	3.Click OK to clear the subsequent color sequence.

How To Set Colors



Confirm the total number of colors in the

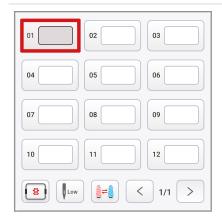
pattern.











🚺 Tips :

- Take figure 1 as an example, the pattern has 12 colors, then you need to set from 01 to the 12th color.

4 Select the corresponding needle number

according to the color.





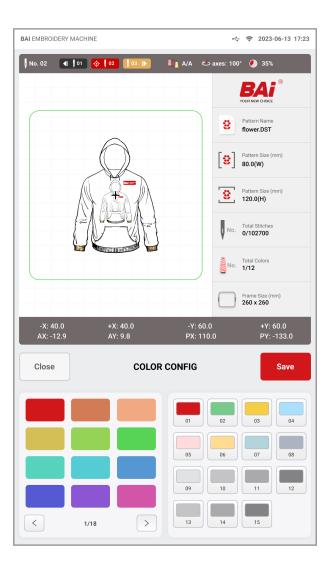
Click save after setting

Save

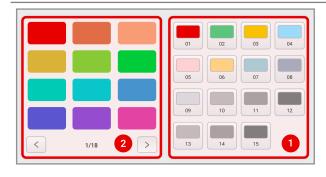
tips:

- This machine supports up to 200 total colors.
- If the previous color is wrong in the middle of setting, please re-select and set.

Needle Color Setting



Contents



Description

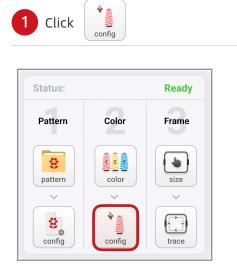
1.First select the needle number to be set.

2.Click the color block on the left to select the desired color, and click Save.

? Please refer to the actual color of the embroidery thread corresponding to the needle.

How To Set Needle Colors

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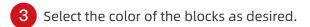




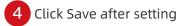
1

Click the needle number to be set.



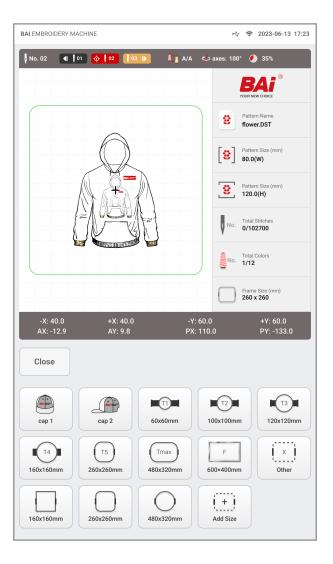




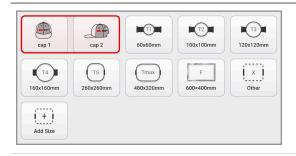


Save

Choose Frame



Contents



Description

Cap1: For front part of cap.

Cap2: For side and back part of cap.



Must first select the hat frame, and then install the hat driver when embroider cap!

Choose Frame

内容

cap 1	cap 2	60x60mm	100x100mm	120x120mm
T4 160x160mm	(T5) 260x260mm	(Tmax) 480x320mm	F 600×400mm	(×) Other
(+) Add Size				







When choosing an embroidery frame, be sure to uninstall the cap drive to prevent collisions!

描述

T1-TMax : Garments hoops.

- T1: 60*60mm/2.4"* 2.4"
- T2: 100*100mm/3.9"* 3.9"
- T3: 120*120mm/4.7"* 4.7"
- T4: 160*160mm/6.3"* 6.3"
- T5: 260*260mm/10.2"* 10.2"
- Tmax: 480*320mm/18.9"* 12.6"
- Please refer to the actual configuration size of different models for the maximum size of the frame.

F : Flat embroidery frame. Aluminum material, used with the table board, often used in flat embroidery.

- F: 600*400mm/23.6" * 15.7"
- For details, refer to the actual configuration size of different models.

Other : any size.

This embroidery frame can be used when frame is not within the selection range of T1-T5.

- 1 The frame has no boundaries, please use tracking positioning to determine the embroidery position before starting embroidery.
- tracking and positioning: P36

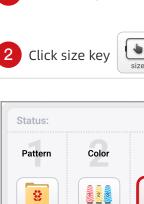
Quickly add embroidery frames.

- When choose other size frame, quickly add the frame to the machine.
- Add up to 5 different frame types.

ips:

- Select a suitable embroidery frame according to the size of the pattern, and frame size bigger than actual embroidery size.
- If the selected embroidery frame is too large, the frame will be too loose and affect embroidery quality.
- After the cap frame is selected, the currently selected pattern is automatically rotated 180, other frame remain the same.

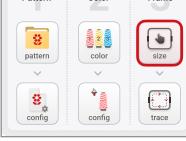
Quickly Add Embroidery Frames

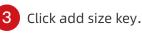


Install hoops in machine.

Ready

Frame

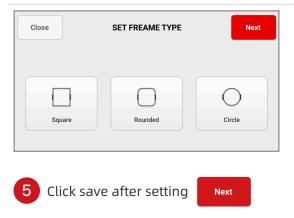






4 Click the type of embroidery frame to be added.

3 Select according to the actual frame type.

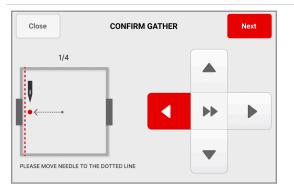


6 Click OK.



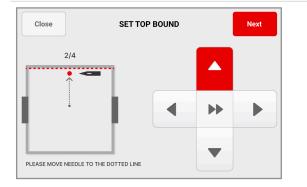
Find the left edge of frame.

- Move the direction key to make the No. 1 needle close to the left edge.
- After confirming the left edge, click Next.
- Please pay attention to the control distance (needle No. 1 presser foot is far away from the inside of the embroidery frame about 1 cm), can't touch the embroidery inside edge.



8 Find the top edge of frame.

- Move the direction key to make the No. 1 needle close to the top edge.
- After confirming the top edge, click Next.
- Please pay attention to the control distance (needle No. 1 presser foot is far away from the inside of the embroidery frame about 1 cm), can't touch the embroidery inside edge.

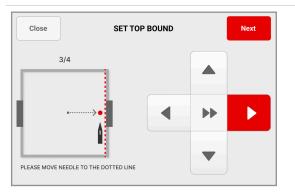


Quickly Add Embroidery Frames



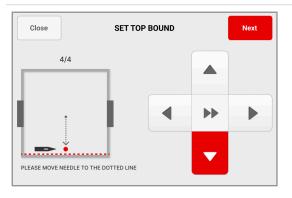
Find the right edge of frame.

- Move the direction key to make the No. 1 needle close to the right edge.
- After confirming the right edge, click Next.
- 1) Please pay attention to the control distance (needle No. 1 presser foot is far away from the inside of the embroidery frame about 1 cm), can't touch the embroidery inside edge.



10 Find the bottom edge of frame.

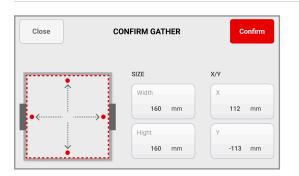
- Move the direction key to make the No. 1 needle close to the bottom edge.
- After confirming the bottom edge, click Next.
- **i** Please pay attention to the control distance (needle No. 1 presser foot is far away from the inside of the embroidery frame about 1 cm), can't touch the embroidery inside edge.





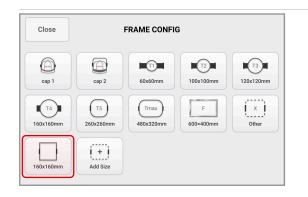
If confirm to add, click Confirm

If the data collection is wrong, click Close to re-collect.



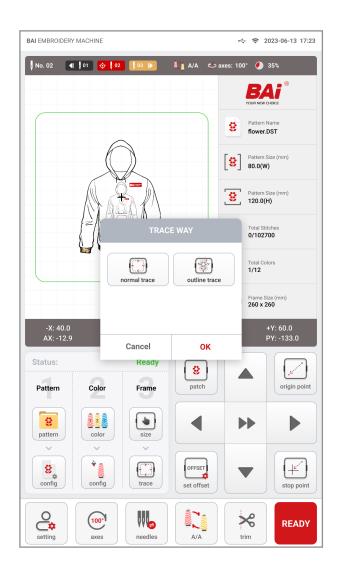


12 The new frame will be displayed in the list.



Track Location

BAI EMBROIDERY	MACHINE			r÷ ≑ 20	23-06-13 17:23
No. 02 🔳	01 🔶 02	03 >	🚺 A/A 🗳 axe	es: 100° 🌔 3	5%
					©ICE ®
	G			Pattern Na flower.D	
		2	[Pattern Si 80.0(W)	
			r	Pattern Si 120.0(H	
	Ê/			No. Total Stite	
				No. 1/12	rs
			(Frame Siz 260 x 26	
-X: 40.0 AX: -12.9		: 40.0 : 9.8	-Y: 60.0 PX: 110.0		Y: 60.0 Y: -133.0
Status: Pattern	Color	Ready Frame	patch		origin point
pattern	color	size			
Config	✓ Config	trace	OFFSET set offset		stop point
Setting	AXES	needle	A/M	trim	READY



Contents



Description

Before embroidery, it is used to confirm the embroidery position of the pattern.

- The pattern cannot exceed the embroidery frame.
- Used with laser positioning, if there is no such device, you can observe the contour area that needle No. 1 walks through.

Track Location

内容	描述
normal trace	Normal trace: Fast tracking along the largest edge of the pattern.
outline trace	Outline trace: Stitch tracking on the actual edge of the pattern.
	• Normal trace first, then outline trace

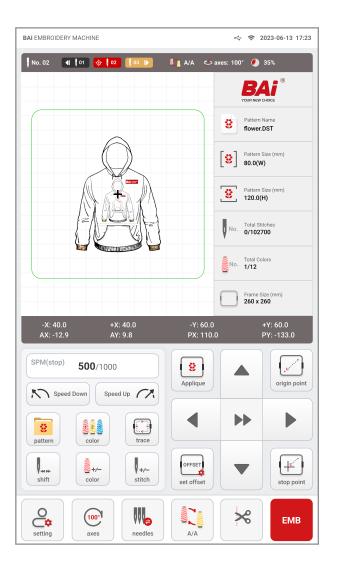


Before embroidery, be sure to track and position to avoid frame collision during embroidery!



When no laser positioning device, it is forbidden to press the No. 1 needle by finger for tracking, so as to avoid collision on frame personal injury and machine damage!

Embroidery State



Contents

SPM(stop) 500/1000 Working status display area (waiting, embroidery, thread breakage, completion) Embroidery speed display: Real-time speed/maximum speed set. Speed Down Speed Up Speed Down Speed Up

Description

Embroidery State

内容		描述
		Operations such as pattern selection, input, output, division, combination, and deletion.
pattern		• Same as Ready state.
		Detailed introduction: P10
		Set the color of the pattern.
		• Same as Ready state.
color		Detailed introduction: P27
TRAC	DE WAY	Embroidery status trace and position: add stitch trace embroidery mode.
trace	outline trace	 When entering the stitch embroidery mode, normal trace must be performed first to avoid frame collision.
shift		Forward/Backward at high/low speed.
t/- color		Forward/Backward by color.
+ /-		Forward/Backward by stitches.



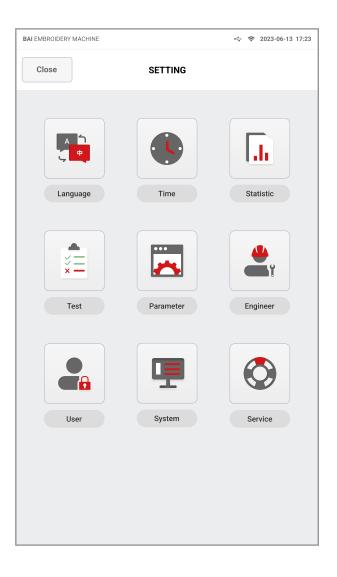
Before embroidery, be sure to trace and position to avoid frame collision during embroidery!



All forward and backward operations must be at stopped state, can't during machine running!

Setting





Contents

Description

Language : Set the machine language.

Time : Set the machine time.

Setting

内容	描述
	Statistics : Used to view working statistics and clear statistics operations.
X	Test : Used to test whether the sensors, motors, and control boards of the machine are functioning normally.
	Machine parameters : Used to set machine thread trimming, thread breaking, speed, embroidery frame and other related parameters.
	Engineer parameters : Used under the guidance of professional technicians, please do not modify it without authorization, prevent machine malfunction.
	User : Used to connect to Wifi, find the origin. power-off recovery so more operation.
	System : Used to view system information, software upgrade, input and output of parameters and other operations.
	Service : If you have any usage questions, you can contact us through the contact information on the service page.

Language

BAI EMBROIDERY MACHINE		BAI EMBROIDERY MACHINE		⊷⇔ 🗢 2023-06-13 17:23
Close	Save	Close	LANGUAGE	Save
Chinese	~	Vietnamese		
English		Thai		
Spanish		Arabic		
French		Romanian		
Dutch		Italian		
Portuguese		Polish		
German		Hebrew		
Russian		Korea		
Turkish				
< 1/2	>	<	2/2	>

Description

The machine supports 17 languages and can be modified as needed.

Time

BAI EMBROIDERY MACHINE	⊷⇔ 🗢 2023-06-13 17:23
Close TIME	Save
Year	2021
Month	3
Day	21
Hour	12
Minute	6

Description

Set machine time.

Statistic

AI EMBROIDER	/ MACHINE			•⊊ © 20	023-06-13 17:2
Close STATISTIC					
Total Star	tup Time				12:35:06
Total Stite	ches				16582
Total Thre	ad Trimming 1	īmes			6
Pattern No	Pattern Name	Embroidery Sum	Total Completed	Break Times	Operate
1	dh_01	4534	5	3	▣
2	dh_33	15264	2	18	0
3	dh_01	4534	5	128	Ū
4	dh_33	15264	2	18	Ŵ
5	dh_01	4534	5	128	Đ
6	dh_33	15264	2	18	Đ
7	dh_01	4534	5	138	Ū
8	dh_33	15264	2	182	▣
9	dh_01	4534	5	118	Đ
10	dh_33	15264	2	178	Đ
<	1/2 >				

Description

- List data can be cleared by clicking

- The total data cannot be deleted or changed, and normal test data displayed after the new machine is received.

Test

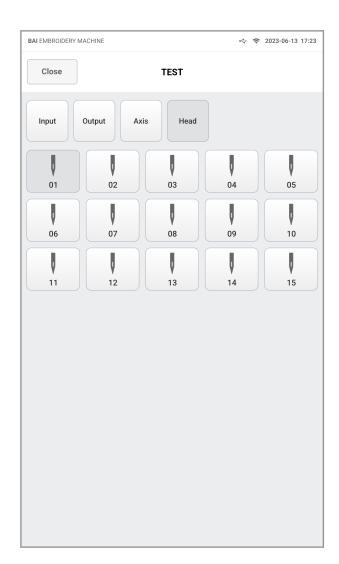
Close TEST Input Output Axis Head +X Limit ON -X Limit OFF +Y Limit ON -Y Limit OFF Trim ON	Input Output Axis Head +X Limit ON -X Limit OFF +Y Limit ON -Y Limit OFF	BAI EMBROIDERY MACHINE	⊷ିଙ୍କ 2023-06-13 17:23
+X Limit ON -X Limit OFF +Y Limit ON -Y Limit OFF	+X Limit ON -X Limit OFF +Y Limit ON -Y Limit OFF	Close TES	т
-X Limit OFF +Y Limit ON -Y Limit OFF	-X Limit OFF +Y Limit ON -Y Limit OFF	Input Output Axis	Head
+Y Limit ON -Y Limit OFF	+Y Limit ON -Y Limit OFF	+X Limit	ON
-Y Limit OFF	-Y Limit OFF	-X Limit	OFF
		+Y Limit	ON
Trim ON	Trim ON	-Y Limit	OFF
		Trim	ON

	TEST
	TEST
	TEST
(TEST

Contents	Description
	Input signal test.
Input	Test whether the X-axis, Y-axis sensor signals, trimming sensor signals are normal.
	Output signal test.
Output	Click test to test whether the thread hooking, trimming, picking, and upper thread clamping are normal.

Test

AI EMBROIDERY MACHINE	<i>•</i> େ
Close	TEST
Input Output Axis	Head
X Motor	12.7 1-12.7mm TEST
Y Motor	▲ 12.7 1-12.7mm ► TEST
Main Axis	0 TEST
QEP	0 0 20-10000EP TEST
Main Axis	100° 178° 202°



Contents	Description
	Axis test: Test whether the X-axis motor, Y-axis motor, main axis motor, and zero optocoupler are normal.
Axis	• Main axis 100 degrees: Click the main axis to turn to 100 degrees.
	• Main axis 178 degrees: Click the main axis to turn to 178 degrees.
	• Main axis 202 degrees: Click the main axis to turn to 202 degrees.
	Head test.
Head	• Used to detect whether the thread breakage detection optocoupler is normal.

How To Test Machine Head's Board 47





4 Click the needle bar number to be

detected.

	01	02	03	04	05
V V V V 06 07 08 09	V X	V 07	V OD	V N	10
	1	12	13	14	



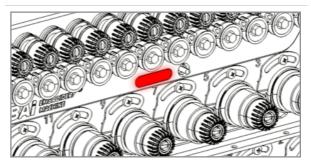
5 Use your fingers to turn the roller of

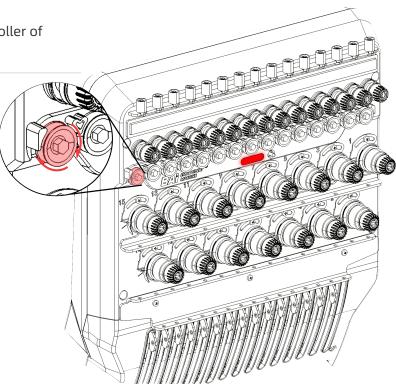
corresponding needle.



and flashes with the rotation of the roller, it means that the roller inspection optocoupler is normal.

i If the color of the red alarm indicator remains unchanged, it means that the roller detection optocoupler is abnormal.





BAI EMBROIDERY MACHINE	-tr 🗢 2023-06-13 17:23
Close PARAMETER	Save
Set Trim Broken Speed	Frame
Auto Set Start Point	Yes
Auto Return Start Point	Yes
Auto Return Offset	No 🕨
Same Color Auto Start	Yes
Back To Stop Point	No F
Finish Beep	Off
Positioning Red Light Mode	Auto
Stop Frame Of Moving	Yes >
< 1/3	>

BAI EMBROIDERY MACHINE	⊷⊊ 🗢 2023-06-13 17:23
Close	ER Save
Set Trim Broken Sp	eed Frame
Auto Jump Stitchs	◀ 6.5mm
Choose EMB Type	Slow
Repeat Embroidery	No
Thick Material Embroidery	● Off ►
Needles NO.	◀ 15
Hole Needle Position	
Make Up Stitch	
Make Up Method	Single
< 2/3	>

BAI EMBROIDERY MACHINE	수 🗢 2023-06-13 17:23
Close PARAMETER	Save
Set Trim Broken Speed	Frame
Reset Frame	No
Stop To Lock	No 🕨
< 3/3	>

Parameter Name Parameter Description		Defaults
	When set pattern beginning to end continuous embroidery :	
Auto Set Start Point	• If set yes, pattern will embroidery from former stop point.	Yes
	• If set no, pattern will embroidery from the whole origin point.	

Parameter Name	Parameter Description	Defaults	
	Whether return to start point after finished:		
Auto Return Start Point	• If set yes, it will return to start point after finish.	Yes	
	• If set no, it will stop at the last one stitch point after finish.		
Auto Return Offset	Whether the frame automatically shift to the top of the frame after the embroidery is finished. (The parameters of the embroidery frame must correspond to the size of the embroidery frame)	No	
	Whether to auto start 2 adjacent same color.		
Same Color Auto Start	• If set yes, adjacent 2 same color will start automatically.	Var	
Same Color Auto Start	• If set no, 2 adjacent same color, after first one finished, machine will stop, need to start 2rd color manually.	Yes	
	Whether return to stop point when frame move halfway.		
Back To Stop Point	• If it is set to "Yes", it will.	No	
	• If it is set to "No", it will not.		
	Whether to turn on the beep after embroidery is completed.		
Finish Beep	• If set to "Yes", there will be a beep.	Yes	
	• If set to "No", there will be no beep.		
	The red light positioning mode is turned on during tracing.		
Positioning Red Light Mode	 If set to "Auto", the red light positioning will be turned on automatically when tracking and the red light positioning is off for other operations. If set to "Constant Light", the red light will always be on after power or 	Auto	
	 If it is set to "OFF", the red light positioning will be turn off under any operation.		
	Whether to pull the key to stop when crossing the frame.		
Stop Frame Of Moving	• If set to "Yes", click key will stop.	Yes	
	• If it is set to "No", click key will not stop.		
Auto Jump Stitchs	When long-step embroidery is jumping, when the stitch step length exceeds a certain value, it will be automatically divided into two or more stitches for embroidery.	6.5mm	
Choose Emb Type	Which method to use for long-step stitch embroidery.The default setting is "Slow" except for embroidered hats.	Slow	

Parameter Name	Parameter Description	Defaults
	Whether to repeat embroidery automatically after the pattern is completed.	
Repeat Embroidery	• If set to "Yes", the embroidery will be repeated.	No
	• If Set to "No", the machine will stop.	
	Whether to choose embroidery thick material.	
Thick Material Embroidery	• If set to "Yes", the embroidery speed will be reduced.	No
	• If it is set to "No", the embroidery speed will not be reduced.	
Needles No.	The number of needle currently used by the embroidery machine. If the current machine uses 15 needles, set the parameter to "15".	15
	The Hole Needle Position is the needle number used when eyelet embroidery, and you need to set this value to the corresponding needle position.	
Hole Needle Position	• This needle position does have thread breakage detection during embroidery.	0
	• When hole needle embroidery is not required, set to "0".	
Make Up Stitch	How many stitches set in advance when make up is almost finished, ask the rest of the non-make up machine heads embroider together.	0
	When Embroidering, Whether All-Head Or Single-Head Make Up.	
Make Up Method	• If set to "All Heads", all heads will stitch during make up.	Single
-	• If set to "single head", only the thread-broken machine head will stitch for making up.	
	Whether to find the absolute origin of the embroidery frame when power on.	
Reset Frame	• If set to "Yes", every time the power on, the embroidery frame will be reset, and the frame will automatically return to the stop position before power off.	No
	• If set to "No", it will not return to the stop position before power off when the power on.	
	Whether to lock the axis in stop state.	
Stop To Lock	• If set to "Yes", the main axis will not be locked in stop state.	No
	• If set to "No", the ,main axis will be locked in stop state.	

Trimming Setting

BAI EMBROIDERY MACHINE	€ 🗢 হ023-06-13 17:23
Close PARAMETER	Save
Set Trim Broken Speed	Frame
Jump Stitch	4 3
Length After Trim	4 3
Upper Clamp Angle	▲ 200
Trim Lock Stitch	
Trim Lock Length	● 0.6mm ▶
Open Trim Function	Yes
Moving Hoops	Yes
Hook Motor Speed	4 2

Parameter Name	Parameter Description	Defaults
Jump Stitch	Amount of jump stitches start trimming or no trimming, the larger the value is, the thread trimming less frequent.	3
Length After Trim	The remaining length of upper thread after thread trimming, the larger the number, the longer the remaining thread.	3
Upper Clamp Angle	The angle at which the upper thread clamp opens after it is closed again after startup. The larger the value, the later the angle at which the upper thread clamp closes and opens.	200

Trimming Setting

Parameter Name	Parameter Description	Defaults
Trim Lock Stitch	How many stitches are locked during thread trimming and starting to prevent the thread from falling off after thread trimming, value The larger the value, the more trim lock stitches during thread trimming and starting.	1
Trim Lock Length	When embroidering thin materials, the length of the lock stitch should be large, and when embroidering thick materials, it should be appropriately reduced.	0.6mm
Open Trim Function	 Whether to Open Trim Function. When set to "Yes", the machine uses the thread trimming function. When set to "No", the machine does not use the thread trimming function. 	Yes
Move Hoops	 Whether to move hoops after thread trimming. If set to "Yes", the embroidery frame will move when thread trimming. If set to "No", the embroidery frame will not move when thread trimming. 	Yes
Hook Motor Speed	The speed when using the hook motor the larger the value, the faster the speed.	2

Thread Breakage Setting

BAI EMBROIDERY MACHINE	← 🗢 2023-06-13 17:23
Close PARAMETER	Save
Set Trim Broken Speed	Frame
Top Thread Broken Test	 ◀ 5ST ▶
Bottom Thread Inspect	Middle
Auto Return Stitches	4 4
Broken Voice Prompts	

Parameter Name	Parameter Description	Defaults
Top Thread Broken Test	 Upper thread breakage detection sensitivity. The larger the value set, the lower the detection sensitivity. If set to "no detection", it will not alarm and stop after thread breakage. 	5St

Thread Breakage Setting

Parameter Name	Parameter Description	Defaults
Bottom Thread Inspect	 Bottom thread broken detection sensitivity. When set to "High", the detection sensitivity is high. When set to Medium, the detection sensitivity is medium. When set to "no detection", it will not alarm and sop after thread breakage. 	Middle
Auto Return Stitches	Automatic turn stitches after thread breakage, based on detection.The larger the value, the more stitches will be automatically returned.	4
Broken Voice Prompts	 How often is the prompt after thread breakage. The smaller the value is, the shorter the thread breakage beep interval will be. If set to "OFF", there will be no prompt sound after thread breakage. 	1

Speed Setting

BAI EMBROIDERY MACHINE	⊷⇔ 🗢 2023-06-13 17:23	BAI EMBROIDERY MACHI	IE	⊷ 🗢 2023-06-13 17:23
Close PARAMETER	Save	Close	PARAMETER	Save
Set Trim Broken Speed	Frame	Set	n Broken Speed F	rame
Auto Speed Down Stitch	▲ 2.0mm	Start Slow Mot	ion Stitches	3
Jump Stitch Speed Down	60%			
Start Main Axis Speed	100			
Max Speed Limit	1000			
Move Frame Max Speed	4 5			
Color Motor Speed	4 5			
Moving Stitch Value	20			
Main Axis Brake Delay	10			
< 1/2	>	<	2/2	>

Parameter Name	Parameter Description	Defaults
Auto Speed Down Stitch	 Auto Speed Down embroidery after specified stitches number. Set to "2 .0mm", the embroidery will start to slow down when the stitch step exceeds 2mm. 	2.0mm
Jump Stitch Speed Down	Slow down to the specific percentage of current speed when jump stitches continuously.Set the percentage of Jump Stitch Speed Down.	60%

Speed Setting

Parameter Name	Parameter Description	Defaults
Start Main Axis Speed	Speed of main axis at start and stop.The more speed set, the longer trimming length.	100
Main Axis Max Speed	Maximum speed setting of main axis (limited by mechanical parameters)Set the maximum speed for embroidery.	1000
Move Frame Max Speed	Set the high speed for frame moving.The larger the value, the faster the speed.	
Color Motor Speed	The speed of color change motor.The larger the value, the faster the speed.	5
Move Stitch Value	Needle step change speed adjustment within how many consecutive stitches.Speed of stitch changing in continuous stitches.The larger the value, the slower the speed change.	20
Main Axis Brake Delay	The time required for the main axis to stop.The larger the value, the later the angle of the stop position.	10
Start Slow Motion Stitches	When embroidery starts, move slowly for a few stitches and the main axis starts to speed up.The larger the value, the later main axis will accelerate.	3

Frame Setting

	BAI EMBROIDE	RY MACHINE				r € © 20	23-06-13 17:23		
	Close		F	PARAMETE	R		Save		
	Set	Trim	Broker	n	ed Fr	ame			
	Туре	X Center	Y Center	X Size	Y Size	R	Operate		
	CAP1	112	-25	280	75	0	Ū		
	CAP2	0	0	0	0	0	Ū		
	T1	112	-133	60	60	30	Ū		
	Т2	112	-133	100	100	50	Ū		
	Т3	112	-133	120	120	60	Ū		
	Т4	112	-133	160	160	80	Ū		
	Т5	112	-133	260	138	80	Ū		
	TMAX	112	-138	340	340	80	Ū		
	F	115	20	500	400	0	Ū		
	C1	0	0	0	0	0	Ū		
	C2	0	0	0	0	0	Ū		
	C3	0	0	0	0	0	Ū		
	C4	0	0	0	0	0	Ū		
	C5	0	0	0	0	0	Ū		
coordinate va	lue —			ne size i ction	n X			ne angle rou	ınd
PY coordin	ate value						rame size in rection	ηΥ	

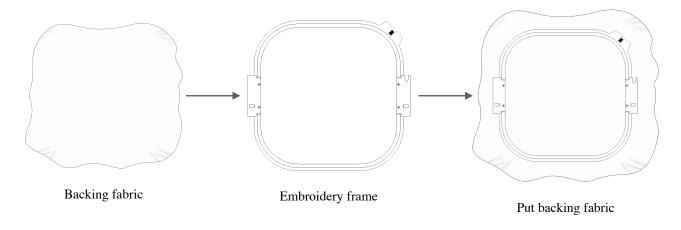
Description

After confirming the size of the embroidery frame and the coordinates of the center position, set the embroidery frame.

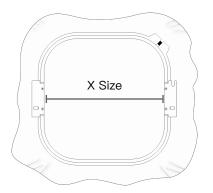
- For no rounding corners, R is set to 0.
- The coordinates of Xcenter and Ycenter of embroidery frames of the same type are the same, but the sizes of Xsize and Ysize are different.
- The size of the input Xsize and Ysize should be 30mm smaller than the actual embroidery frame as a safety distance.

1 It is not recommended to adjust Xcenter and Ycenter coordinates easily.



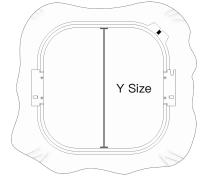


2 Measure the center point of the frame and record the dimensions in the X and Y directions (in mm).

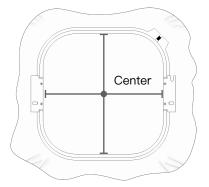


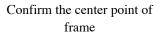
Find the X center line of the

frame



Find the Y center line of the frame

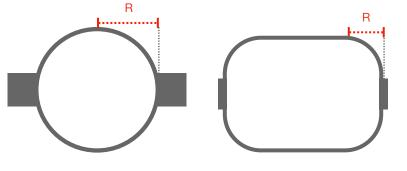






• No rounding corners, R set to 0.

The length (mm) of the red line segment is the embroidery rounding corners.

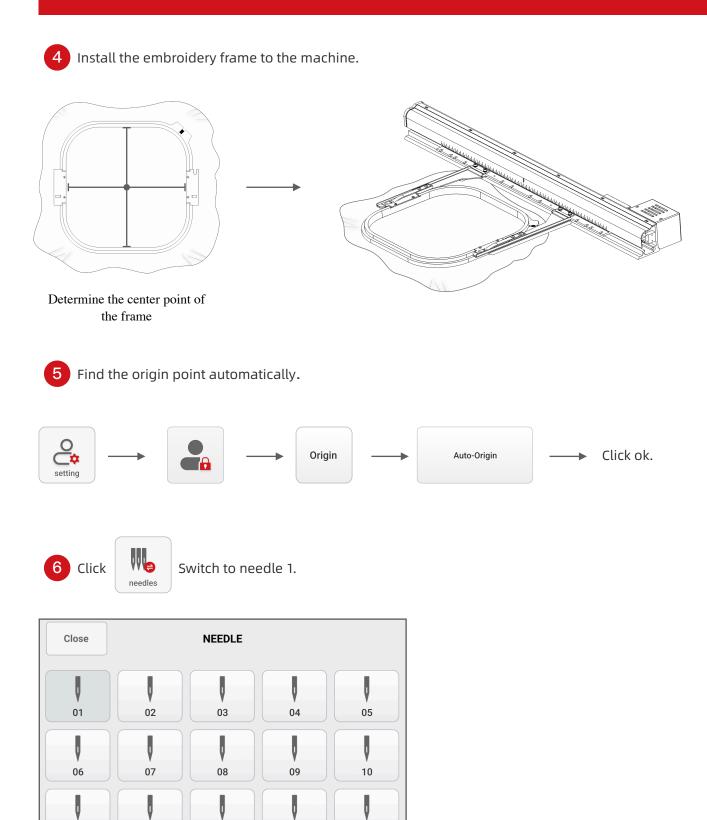


round frame

square frame

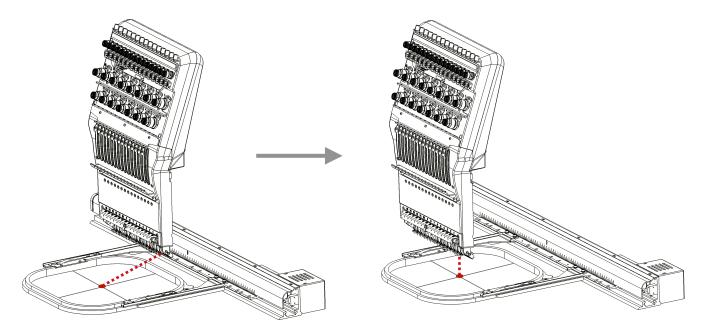








7 Use the direction keys to move the embroidery frame so that needle No. 1 coincides with the center point of the embroidery frame



8 Record the values of PX and PY and fill them in the embroidery frame settings.

No. 02 🜗 🕴 01		A/A 🗢 axes: 100	D° () 35%	
		8	Pattern Name flower.DST	
	\bigcirc	[9]	Pattern Size (mm) 80.0(W)	
		8	Pattern Size (mm) 120.0(H)	
f2		U No.	Total Stitches 0/102700	
		No.	Total Colors 1/12	********
			Frame Size (mrs) 260 x 260	
-X: 40.0 AX: -12.9	+X: 40.0 AY: 9.8	-Y: 60.0	+Y: 60.0 PY: -133.0	•••

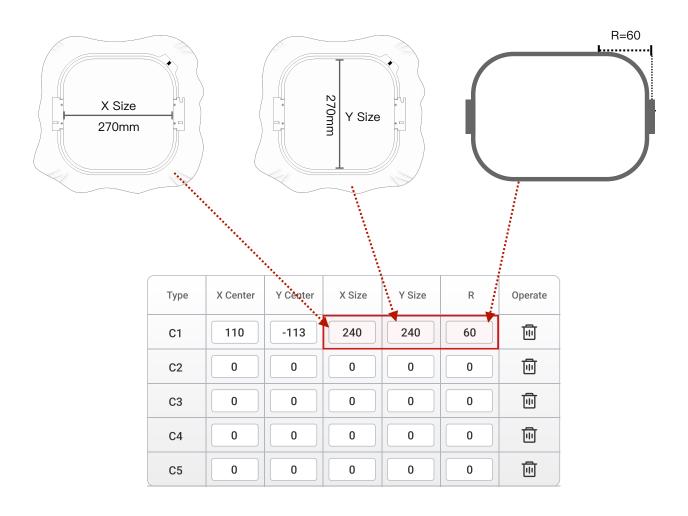
Fill in the values of PX and PY in C1-C5 of the embroidery frame setting.

 C1-C5 are custom embroidery frames, add up to 5 types.

	Туре	X Center	Y Center	X Size	Y Size	R	Operate
	C1	110	113	0	0	0	Ū
•••	C2	0.	0	0	0	0	Đ
	C3	0	0	0	0	0	Đ
• • • •	C4	0	0	0	0	0	Đ
	C5	0	0	0	0	0	Ū

9 Fill in the recorded X Size, Y Size and circle R values in the embroidery frame settings.

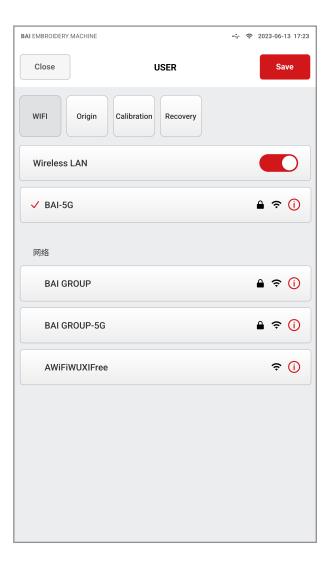
- No rounding corners, R set to 0.
- The size of input X size and Y size should be 30mm smaller than the actual embroidery frame as a safety distance.



10 Click save after the adjustment is complete

Save

Wi-Fi



Description

It is used to connect computer and embroidery machine for pattern transmission control.

• Install matched Institch-Link software firstly.

Find the Origin



Description

The absolute origin is to use the frame limit to detect the absolute position of the embroidery frame, so as to ensure that after an unexpected situation occurs in the middle of embroidery, the power-off recovery embroidery can be used to carry out accurate continuous embroidery.

How To Find the Origin

Auto-Origin Manual-Origin	Auto-Origin Manual-Origin
Find The Origin Point Automatically	Find The Origin Point Manually
1 Click Auto-Origin.	1 Move the embroidery frame to the desired position.
2 Click Ok.	2 Click manual-origin.
Press OK To Find The Absolute Origin.	3 Click ok.
Cancel OK	Set The Point As Absolute Origin?
3 The embroidery frame automatically finds the absolute position according to the position of the limit photocoupler.	Cancel OK
• This operation is mainly used to manually set the frame parameters.	4 Set the current point as the absolute origin. The PX and PY coordinates become 0,0.
4 Set the current point as the absolute origin. The PX and PY coordinates become 0,0.	-Y: 60.0 +Y: 60.0 PX: 0 PY: 0
-Y: 60.0 +Y: 60.0 PX: 0 PY: 0	

Screen Calibration

66

BAI EMBROIDERY MACHI	NE			ب		÷.
WIFI Orig	jin Calibration R	Recovery				
	MESS	AGE			0	
	OK To Calibra	ate Screen?			Please Click On The Cross Calibra Screen That Appears In The Scre	
	Cancel	ок				
				•		۲

Description

- After the touch screen is used for a period of time, data drift may occur, resulting in inaccurate key clicks, which can be solved by calibrating the touch screen.
- When calibrating the touch screen, the clicked position on the screen must be exactly the same as the center of the displayed cross, otherwise it will affect the touch screen operation in the future.

Power-Off Recovery

67

BAI EMBROIDERY MACHII	ΝE		÷ 🕈	2023-06-13 17:23
Close	US	ER		Save
WIFI Orig	in Calibration	Recovery		
	MES	SAGE	ĺ.	
	Restore The Frar	ne For Pwer Off?		
	Cancel	ок		

Description

- After a sudden power -off in the middle of embroidery, it can automatically return to last stitch and continue embroidery, without worrying about pattern misalignment.
- Even if the embroidery frame is manually moved after power failure, it can still return to the stop point and continue embroidery.

System

BAI EMBROIDERY MACHINE	ିର୍ କ୍ତ 2023-06-13 17:23
Close	SYSTEM
	DutPut Data InPut Data Device Link
	BAT R NEW CHOICE
	24H Global Service Center >
Equipment Name	BAI Embroidery Machine
MFG.NO.	BVF1CD105KO41001
Device NO.	N3PG0053
System Verson	V.EBMA.22B1.0822B1
Copyright	BAI Embroidery Machine
Equipment Supplier	100 Horse Technology(Wuxi)Co.,Ltd

Contents	Description
System Info	Check the machine name, system version number and other information.
System Update	Upgrade the new version of the system.
Output Data	Setted parameters in the control system can be backed up to the U disk.
Input Data	Input the backup information from the U disk to the machine.
Device Link	Connection to the institch cloud for transfer and other functions.

System

System Update	Steps
	1. Input the upgrade package to the root directory of the USB disk.
System Update	2. Insert the USB.
	3. Click system update.
	4. Click OK.
	5. Wait for the upgrade to complete and restart automatically.

Output Date	Steps
OutPut Data	1. Insert the USB.
	2. Click output data.
	3. Click OK.
	4. Wait for the parameters outputted to USB.

Input Date	Steps
InPut	1. Insert the USB.
	2. Click input data.
Data	3. Click OK.
	4. Wait for the parameters to be inputted into the machine.

Device Link	Steps
	1. Turn on Wi-Fi.
Device Link	2. Register for a cloud.institch.com account.
	3.Choose to bind the machine.
	4.Enter the device number.
	5.Enter the verification code.

Common Failures and Solutions

Information Of Failures	Reasons Of Failures	Solutions
	Operation head and the multi-function board signal line connect failure	Check connect cables
Connection Timeout	The multi-function board and operation head match failure	Replace the multi-function board
	Multi-function board damaged	Replace the multi-function board
No Response	The touch screen plug connect failure	Re-plug in touch screen plug
No Response	Touch screen damaged	Replace touch screen
Misalignment	Touch screen failure	Re-calibrate the touch screen position
	Touch screen damaged	Replace touch screen
Main axis not in 100°	Main axis stop not at 100°	Click or rotate hand wheel to 100°
	Servo controller parameter setting error	Check the signal line or power cable of the spindle driver
Main axis not turn	The zero signal plate is damp	Check the spindle motor input power
	The zero signal plate damaged	Replace driver or motor
Deslars drives as motors	Whether chose to embroider thick material	Reset the parameters of the servo controller
Replace driver or motor	Whether the spindle locked while in stop state	Clean the oil and dust on the surface of the zero signal plate
	Red light positioning turn on model	Replace the zero signal plate
	Zero signal plate damaged	Replace the zero signal plate
No 0°	Zero signal plate and multi-function board connect failure	Check or replace the connection line
	Color change motor not turn	Check the color change motor or connection line
Color time out	Color changing mechanical parts stuck	Repair or replace stuck mechanical parts
	The color change motor and the power board connect failure	Check or replace the connection line
	Position of the needle detection potentiometer error	Adjust the position of the needle detection potentiometer
No needle	Potentiometer damaged	Replace potentiometer
	Potentiometer and multi-function board connect failure	Check or replace the connection line

Common Failures and Solutions

Information Of Failures	Reasons Of Failures	Solutions
X motor driver error	X motor driver over-voltage or over-current protection	Check X motor driver and re-power on
	Driver damaged	Replace driver
Y motor driver error	Y motor driver over-voltage or over-current protection	Check Y motor driver and re-power on
	Driver damaged	Replace driver
Trimmer motor stuck	Proximity switch not in place	Manually adjust the thread trimming switch in place
	Proximity switch damaged	Replace proximity switch
	Motor plug or lines connect failure	Check the plug or lines and re-plug in
Trimmer motor stuck	Multi-function board damaged	Replace the multi-function board
	Motor damaged	Replace motor
	Motor plug or lines connect failure	Check the plug or lines and re-plug in
Hook motor stuck	Multi-function board damaged	Replace the multi-function board
	Motor damaged	Replace motor
	Optocoupler board installation error	Re-install Optocoupler board
	Optocoupler board damaged	Replace the optocoupler board
Broken thread detection error	Connect lines or plug failure between optocoupler board and the multi-function board	Check the lines and re-plug in
	Multifunction board damaged	Replace the multifunction board
	Parameters setting error of "top thread breakage detection" or "bottom thread breakage detection"	Adjust to correct embroidery parameters
+X limit error	+X limit	Manually move the embroidery frame in the opposite direction
-X limit error	-X limit	Manually move the embroidery frame in the opposite direction
+Y limit error	+Y limit	Manually move the embroidery frame in the opposite direction
-Y limit error	-Y limit	Manually move the embroidery frame in the opposite direction

