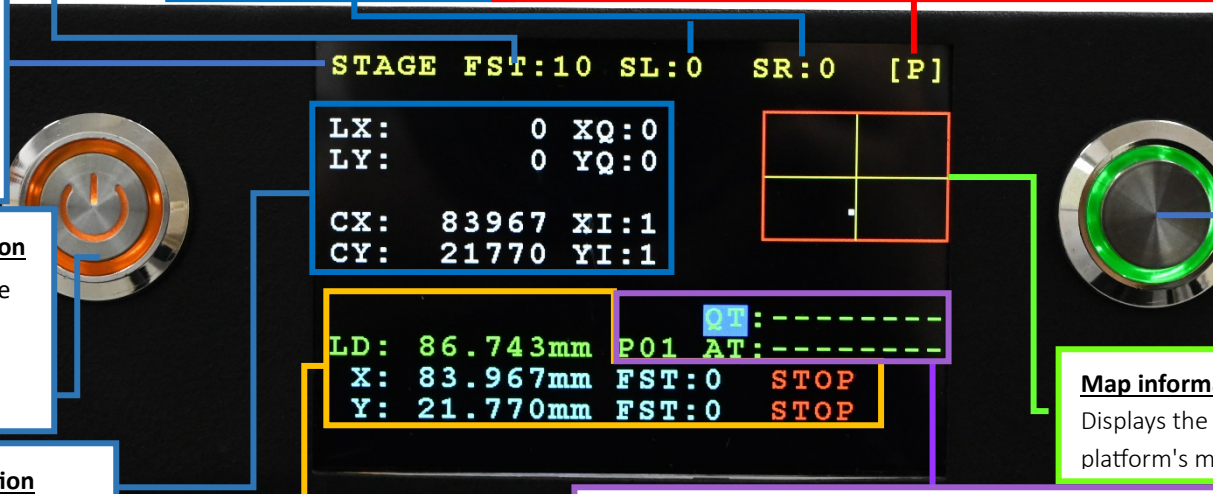


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Speed mode and level information
FST : Fast movement mode (Level 1-10).
SLW : Slow movement mode (Level 1-10).

Axis control information
STAGE : Simultaneously moving XY axes.
X Axis : Only the X-axis can be moved.
Y Axis : Only the Y-axis can be moved.

Power button/Orange button
Long press : Turn on/off the device
Briefly press : Switch between "Manual" or

Coordinate/Index information
LX : X coordinate of previous point.
LY : Y coordinate of previous point.
CX : X coordinate of current position.
CY : Y coordinate of current position.
XQ : Quantities X coordinates (Pitch Mode).
YQ : Quantities Y coordinates (Pitch Mode).
XI : X current index value (Pitch Mode)
YI : Y current index value (Pitch Mode)

Side Light Brightness Information
SL : Adjust left-side light brightness (Level 1–10).
SR : Adjust right-side light brightness (Level 1–10).

Function mode information
[D] Distance Mode: Selecting LD/TD/OD modes will display the corresponding measurement values.
[G] Group Mode: Allows the creation of 20 groups, each capable of recording 100 points. When used with computer software, there are no limitations on groups or points.
[P] Pitch Mode : Measurement with fixed pitch. Allows the creation of 20 groups. When used with software, there are no limitations on the number of groups.

Stop button/Green button
Short press: Emergency stop button when the platform is moving.
Long press: The platform exits and returns to its position before exiting.

Map information
Displays the current position of the platform's movement.

GROUP/ PITCH information
G01/P01: Displays the currently selected group (G01-G20, P01-P20). Groups can be selected through the main menu [refer to Sections 2.2 and 2.3].
AT/TO: Displays the currently selected record point.
QT: The total number of recorded points in the selected group.
AR: Any record point within the designated group can be selected to measure the distance from that point to any other record point. The distance will be displayed on the screen at the LD position. (Note 1)
LR: The previous record point: When the group starts automatically running points, the distance from the previous point to the current position can be measured. For example: the distances between record points 1-2, 2-3, and 4-5. (Note 2)
MR: Manually set a coordinate, which will be displayed on the screen at the LX/LY position. The distance from this coordinate point to any record point in the group can then be measured. (Note 3)

Distance information
LD : The distance between previous point and current point.
e.g. the distances between record points 1-2, 3-7.
TD : The total distance between the recorded points.
OD : The distance from the platform's origin to the current position.
X: X-axis distance, speed, and movement status information.
Y: Y-axis distance, speed, and movement status information.

Interface Display Data:
STAGE FST:10 SL:0 SR:0 [P]
LX: 0 XQ:0
LY: 0 YQ:0
CX: 83967 XI:1
CY: 21770 YI:1
LD: 86.743mm P01 AT:-----
X: 83.967mm FST:0 STOP
Y: 21.770mm FST:0 STOP

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Note 1 : AR (Assigned Record) Mode

Measure the distance between any two points within the group

(1-1) Move cursor to the number on the right side of AR, hold down the right mouse button, and scroll the mouse wheel to select any recorded point within the group. The coordinates of the selected point will be displayed as (LX, LY).

STAGE	FST:10	SL:1	SR:1	[G]
LX:	57016			
LY:	63677			
CX:	54163			
CY:	70405			
AR:000003				
LD:	14.176mm	G01	TO:000002	
X:	49.186mm	FST:0	STOP	
Y:	75.495mm	FST:0	STOP	

(1-2) Move cursor to the number on the right side of TO, hold down the right mouse button, and scroll the mouse wheel to select any recorded point within the group. The LD position will display the distance from the specified recorded point to the selected point.

STAGE	FST:10	SL:1	SR:1	[G]
LX:	57016			
LY:	63677			
CX:	49186			
CY:	63709			
AR:000003				
LD:	7.832mm	G01	TO:000004	
X:	7.832mm	FST:0	STOP	
Y:	0.032mm	FST:0	STOP	

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Note 2 : LR (Last Record) Mode

During automatic group point running, the distance from the previous point to the current position can be measured.

(2-1) Move the cursor to the dashed box in the image below, hold down the right mouse button, and scroll the mouse wheel to switch to the LR operation function.

STAGE	FST:10	SL:1	SR:1	[G]
LX:	20104			
LY:	8137			.
CX:	20104			
CY:	8135			
LD:	0.002mm	G01	LR:000001	TO:000002
X:	0.000mm	FST:0	STOP	
Y:	0.002mm	FST:0	STOP	

(2-2) Start automatic group point running: Move the cursor to G01, hold down the right mouse button, and briefly press the scroll wheel. When 'START MOVE' is displayed on the screen, the recorded points of the group will begin running.

STAGE	FST:10	SL:1	SR:1	[G]
LX:	20104			
LY:	8137			.
CX:	20104			
CY:	8135			
START	MOVE		LR:000001	
LD:	0.002mm	G01	TO:000002	
X:	0.000mm	FST:0	STOP	
Y:	0.002mm	FST:0	STOP	

LD will display the distance from Record Point 1 to Record Point 2 within G01, and the screen will show 'R1 TO R2'.

STAGE	FST:10	SL:1	SR:1	[G]
LX:	20104			
LY:	8137			.
CX:	20104			
CY:	8135			
R1 TO R2			LR:000001	
LD:	17.000mm	G01	TO:000002	
X:	0.003mm	SLW:6	MOVE	
Y:	17.000mm	SLW:0	STOP	

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Note 3MR (Manual Record) Mode

Measure the distance from a point outside the group to any recorded point within the group.

(3-1) Move the cursor to the dashed box in the image below, hold down the right mouse button, and scroll the mouse wheel to switch to the MR operation function.

STAGE	FST:10	SL:1	SR:1	[G]
LX:	20104			
LY:	8137			
CX:	20104			
CY:	8135			
MR: -----				
LD:	0.002mm	G01	TO:000001	
X:	0.000mm	FST:0	STOP	
Y:	0.002mm	FST:0	STOP	

(3-2) Move the cursor to the desired coordinate position using the mouse, then double-click the left mouse button to add a manual record point, SET POINT. The coordinates will be displayed at the LX/LY position.

STAGE	FST:10	SL:1	SR:1	[G]
LX:	102372			
LY:	89856			
CX:	102372			
CY:	89856			
SET POINT				
LD:	0.000mm	G01	TO:000001	
X:	0.000mm	FST:0	STOP	
Y:	0.000mm	FST:0	STOP	

(3-3) Move the cursor to the number on the right side of TO, hold down the right mouse button, and scroll the mouse wheel to select any recorded point within the group. LD will display the distance from the manually set coordinate (LX, LY) to the selected recorded point.

STAGE	FST:10	SL:1	SR:1	[G]
LX:	102372			
LY:	89856			
CX:	48389			
CY:	38877			
MR: -----				
LD:	74.249mm	G01	TO:000002	
X:	53.983mm	FST:0	STOP	
Y:	50.979mm	FST:0	STOP	

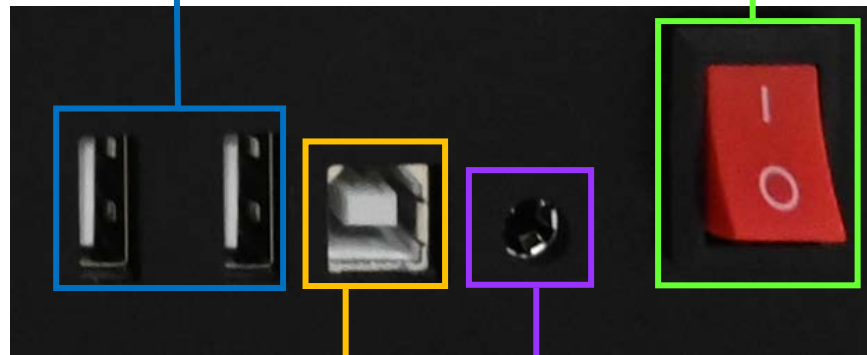
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USB TYPE A

There are 2 ports available for connecting a mouse. It is recommended to connect only mice of the same model or the mouse provided by the manufacturer.

Power Switch

Main power switch. It is recommended to turn off the main power when the machine is not in use.



USB TYPE B

Connect to the computer to operate from the computer side using the UM-Viewer software.

DC Power

12V/5A. The transformer power supply provided by the manufacturer must be used.

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1. Mouse operation method

The operation and functions of the MS220 are controlled by the mouse controller.

1.1 Left mouse button

1.1.1 Move along the X-axis



- ◆ Hold down the left mouse button and move horizontally. The farther you move, the faster the movement speed.

1.1.2 Move along the Y-axis



- ◆ Hold down the left mouse button and move vertically. The farther you move, the faster the movement speed.

1.1.3 Double-click the left mouse button



- ◆ In the G01 group function mode, when the cursor is over the number on the right side of AT/TO, you can add the selected record point. Up to 100 record points can be added.
- ◆ Confirm the change of status or values in the main menu.

1.1.4 Single-click the left mouse button



- ◆ Select an item in the main menu.

1.2 Right mouse button



1.2.1 Double-click the right mouse button

- ◆ In the G01 group function mode, when the cursor is over the number on the right side of AT/TO, you can delete the selected record point
- ◆ In the PITCH menu, you can move to the set position.

1.3 Scroll wheel

1.3.1 Long press (hold down)



- ◆ Open or close the main menu.

1.3.2 Scroll the wheel



- ◆ When the menu is open, select a menu item.
- ◆ When the menu is closed, select an item in the information block

STAGE	FST:10	SL:1	SR:1	[G]
STAGE	FST:10	SL:1	SR:1	[G]

1.3.3 Briefly press the scroll wheel



- ◆ When the menu is closed, switch between screen information blocks.

↓	STAGE FST:10 SL:1 SR:1 [G]
↑	LD: 88.828mm G01 QT:19 AT:01

1.4 Left mouse button and scroll wheel

1.4.1 Hold down the left mouse button and scroll the wheel



- ◆ In the X or Y axis control mode, hold down the left mouse button and scroll the wheel to fine-tune the position.

1.4.2 Hold down the left mouse button and briefly press the scroll wheel



wheel

- ◆ In the information G01/P01 block, when the cursor is over G01/P01, save the current GROUP/PITCH settings.

1.5 Right mouse button and scroll wheel

1.5.1 Hold down the right mouse button and scroll the wheel



- ◆ In the main menu, select to change the status or values.
- ◆ In the top block, select the STAGE/XAXIS/YAXIS control axes, choose the FST/SLW speed mode, adjust the maximum movement speed

(1-10 levels), and adjust the light source brightness (1-10 levels).

- ◆ In the information G01/P01 block, you can select the QT/LR/AR/MR items. When the cursor is over the number on the right side of AT/TO, select the record point and move it.
- ◆ In the information OD/LD/TD block, you can select the OD/LD/TD items.

OD: The distance between the current position and the origin.

LD: The distance between the current position and the previous record point.

TD: The total distance between all record points.

1.5.2 Hold down the right mouse button and briefly press the scroll wheel



wheel

- ◆ In the information G01/P01 block, when the cursor is over G01/P01, activate or stop the GROUP/PITCH automatic group point running function mode. The screen will display 'START MOVE' or 'STOP MOVE'.

1.6 Left mouse button and right mouse button

1.6.1 Move only the X or Y axis



- ◆ When pressing both the left and right mouse buttons simultaneously, moving the mouse horizontally controls the X-axis position, or moving the mouse vertically controls the Y-axis position.

2. Brief explanation of main menu functions

```
STAGE FST:10 SL:1 SR:1 [G]
[MAIN MENU]
1. CONTROL      ↵
2. GROUP        ↵
3. PITCH        ↵
4. REGRESSION   ↵
5. CALIBRATE    ↵
6. FACTORY      NO
                QT:000010
LD: 0.000mm G01 AT:000002
X: 0.000mm FST:0 STOP
Y: 0.000mm FST:0 STOP
```

```
STAGE FST:10 SL:1 SR:1 [G]
[MAIN MENU]
7. ABOUT      ↵
8. CLOSE      EXIT↵
                QT:000010
LD: 0.000mm G01 AT:000002
X: 0.000mm FST:0 STOP
Y: 0.000mm FST:0 STOP
```

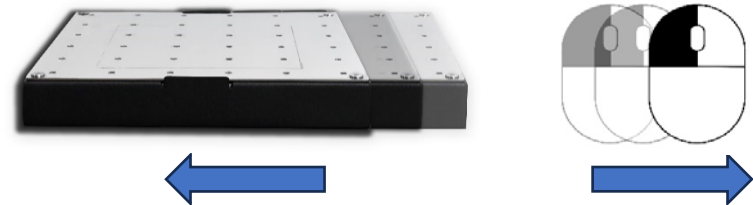
2.1 CONTROL

Adjust the operating direction and adjust the overall movement speed.

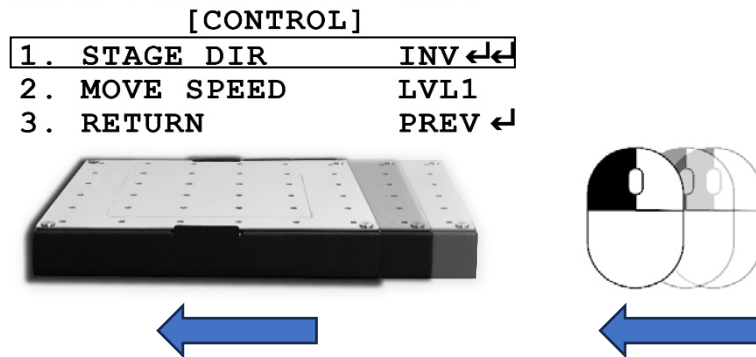
2.1.1 STAGE DIRECTION

◆ DEF: DEFAULT. The mouse movement direction is opposite to the platform's movement direction, but in the same direction as the image. For example, when the mouse moves to the right, the platform will move to the left.

```
[CONTROL]
1. STAGE DIR  DEF ↵↵
2. MOVE SPEED LVL1
3. RETURN     PREV ↵
```



- ◆ INV: INVERT. The mouse movement direction is the same as the platform's movement direction, and in the opposite direction to the image. For example, when the mouse moves to the left, the platform will also move to the left.



2.1.2 MOVE SPEED

- ◆ Adjust the overall movement speed: There are 6 levels (LVL1-LVL6), with higher levels corresponding to slower speeds.

[CONTROL]		
1. STAGE DIR	DEF	←←
2. MOVE SPEED	LVL1	
3. RETURN	PREV	←

2.1.3 RETURN

- ◆ Hold down the right mouse button and scroll the wheel to select PREV/SAVE/EXIT.
- ◆ PREV: Go back to the previous page.
- ◆ SAVE: Save changes.
- ◆ EXIT: Exit the page.

2.2 GROUP

Set the automatic group point running dwell time, switch groups, delete group data, and copy group data.

[GROUP]		
1. STAY TIME	3S	
2. LOAD GROUP	G01	←←
3. ERASE GROUP	G01	←←
4. COPY GROUP	G01	←←
5. RETURN	PREV	←

2.2.1 STAY TIME

- ◆ Set the automatic group point running dwell time (0-249 seconds).

2.2.2 LOAD GROUP

- ◆ Select group data by moving the cursor to LOAD GROUP. Hold down the right mouse button and scroll the wheel to choose group data from G01 to G20.
- ◆ Double-click the left mouse button to confirm. 'SELECT GXX' will be displayed to indicate the change was successful.

STAGE FST:10	SL:1	SR:1	[G]
[GROUP]			
1. STAY TIME	3S		
2. LOAD GROUP	G02	←←	
3. ERASE GROUP	G01	←←	
4. COPY GROUP	G01	←←	
5. RETURN	PREV	←	
SELECT G02	QT:000010		
LD: 0.000mm	G01	AT:000002	
X: 0.000mm	FST:0	STOP	
Y: 0.000mm	FST:0	STOP	

2.2.3 ERASE GROUP

- ◆ To delete group data, move the cursor to ERASE GROUP. Hold down the right mouse button and scroll the wheel to select group data from G01 to G20.
- ◆ Double-click the right mouse button to delete the selected group data.

2.2.4 COPY GROUP

[GROUP]		
1. STAY TIME	3S	
2. LOAD GROUP	G01	↵↵
3. ERASE GROUP	G01	↵↵
4. COPY GROUP	G03	↵↵
5. RETURN	PREV	↵

- ◆ To copy group data, move data from one group to another.
- ◆ In the LOAD GROUP section, first select the index of the group data you want to copy, then double-click the left mouse button to confirm.
- ◆ In the COPY GROUP section, select the group data to copy, then double-click the left mouse button to confirm.
Example: Move G03 data to G01. G03 will become empty, and if G01 already has data, the original G01 data will be overwritten.

2.2.5 RETURN

- ◆ Hold down the right mouse button and scroll the wheel to select PREV/SAVE/EXIT.
- ◆ PREV: Go back to the previous page.
- ◆ SAVE: Save changes.
- ◆ EXIT: Exit the page.

2.3 PITCH

Set the pitch, switch pitch, delete pitch data, and copy pitch data.

[PITCH]		
1. Xy START	89	↵↵
2. X INTERVAL	100	↵↵
3. X END	21000	↵↵
4. xY START	61203	↵↵
5. Y INTERVAL	606	↵↵
6. Y END	58667	↵↵

[PITCH]		
7. SCAN MODE	X-Z	↵↵
8. STAY TIME	3S	
9. SIDE L-LIGHT	0	↵↵
10. SIDE R-LIGHT	0	↵↵
11. LOAD PITCH	P01	↵↵
12. ERASE PITCH	P01	↵↵

[PITCH]		
13. COPY PITCH	P01	↵↵
14. STAY TIME	PREV	↵

2.3.1 Xy START

- ◆ Set the starting point for both the X and Y coordinates simultaneously
- ◆ Press the left mouse button and move the mouse; after moving, double-click the left mouse button to set the X START position
- ◆ Double-click the right mouse button to move to the MENU and set

the X START position.按右鍵並滾動滾輪微調 X 的位置。

- ◆ Hold the right mouse button and scroll the wheel to fine-tune the X position.

2.3.2 X INTERVAL

- ◆ Set the pitch between X coordinates. The minimum pitch unit is 100 μ m.
- ◆ Press the left mouse button and move the mouse; after moving, double-click the left mouse button to set the X INTERVAL position.
- ◆ Double-click the right mouse button to move to the MENU and set the X INTERVAL position.
- ◆ Hold the right mouse button and scroll the wheel to fine-tune the X position.

2.3.3 X END

- ◆ Set the endpoint for the X coordinate.
- ◆ Press the left mouse button and move the mouse; after moving, double-click the left mouse button to set the X END position.
- ◆ Double-click the right mouse button to move to the MENU and set the X END position.
- ◆ Hold the right mouse button and scroll the wheel to fine-tune the X position.

2.3.4 xY START

- ◆ Set the starting point for both the X and Y coordinates simultaneously.
- ◆ Press the left mouse button and move the mouse; after moving, double-click the left mouse button to set the Y START position.
- ◆ Double-click the right mouse button to move to the MENU and set the Y END position.
- ◆ Hold the right mouse button and scroll the wheel to fine-tune the Y position.

2.3.5 Y INTERVAL

- ◆ Set the pitch between Y coordinates. The minimum pitch unit is 100 μ m.
- ◆ Press the left mouse button and move the mouse; after moving, double-click the left mouse button to set the Y INTERVAL position.
- ◆ Double-click the right mouse button to move to the MENU and set the Y INTERVAL position.
- ◆ Hold the right mouse button and scroll the wheel to fine-tune the Y position.

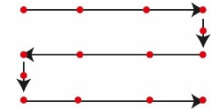
2.3.6 Y END

- ◆ Set the endpoint for the Y coordinate
- ◆ Press the left mouse button and move the mouse; after moving, double-click the left mouse button to set the Y END position.
- ◆ Double-click the right mouse button to move to the MENU and set the Y END position.
- ◆ Hold the right mouse button and scroll the wheel to fine-tune the Y position.

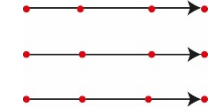
2.3.7 SCAN MODE

- ◆ Four scanning modes: X-Z, X-E, Y-Z, Y-E.

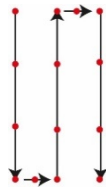
- ◆ X-Z mode: The scanning motion starts from the X-axis starting point and scans in the 'Z' mode. When the scan reaches the X-axis endpoint, the Y-axis moves to the next line, and the X-axis will scan back toward the starting point.



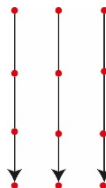
- ◆ X-E mode: The scanning motion starts from the X-axis starting point and scans in the 'E' mode. When the scan reaches the X-axis endpoint, the X-axis will return to the starting point, the Y-axis will move to the next line, and the X-axis will scan toward the endpoint.



- ◆ Y-Z mode: The scanning motion starts from the Y-axis starting point and scans in the 'Z' mode. When the scan reaches the Y-axis endpoint, the X-axis moves to the next row, and the Y-axis will scan back toward the starting point.



- ◆ Y-E mode: The scanning motion starts from the Y-axis starting point and scans in the 'E' mode. When the scan reaches the Y-axis endpoint, the Y-axis returns to the starting point, the X-axis moves to the next row, and the Y-axis will scan toward the endpoint again.



2.3.8 STAY TIME

- ◆ Set the automatic group point running dwell time (0-249 seconds).

2.3.9 SIDE L-LIGHT

- ◆ Adjust the brightness of the left-side light, with 1-10 levels
- ◆ Double-click the left mouse button to confirm the setting.

2.3.10 SIDE R-LIGHT

- ◆ Adjust the brightness of the right-side light, with 1-10 levels
- ◆ Double-click the left mouse button to confirm the setting.

2.3.11 LOAD PITCH

- ◆ Select pitch data by moving the cursor to LOAD PITCH. Hold down the right mouse button and scroll the wheel to choose pitch data from P01 to P20
- ◆ Double-click the left mouse button to confirm. 'SELECT PXX' will be displayed to indicate the change was successful.

2.3.12 EREASE PITCH

- ◆ To delete pitch data, move the cursor to ERASE PITCH. Hold down the right mouse button and scroll the wheel to select pitch data

from P01 to P20.

- ◆ Double-click the right mouse button to delete the pitch data.

2.3.13 COPY PITCH

- ◆ Copy pitch data by moving one set of pitch data to another.
- ◆ In the LOAD PITCH section, first select the index pitch data to be copied.
- ◆ In the COPY PITCH section, choose the pitch data to copy, then double-click the left mouse button to confirm.

Example: Move P03 data to P01. P03 becomes empty, and if P01 already has data, the original P01 data will be overwritten.

[PITCH]

11 .LOAD PITCH	P01 ↵↵
12 .ERASE PITCH	P01 ↵↵
13 .COPY PITCH	P03 ↵↵
14 .STAY TIME	PREV ↵

2.3.14 RETURN

- ◆ Hold down the right mouse button and scroll the wheel to select PREV/SAVE/EXIT.
- ◆ PREV: Go back to the previous page.
- ◆ SAVE: Save changes.
Please remember to save after changing settings, otherwise any changes will be invalid.
- ◆ EXIT: Exit the page.

2.4 REGRESSION

Correction regression and its tolerance range, positioning correction and its tolerance range.

```
[REGRESSION]
1 . STOP CALIBRATE  ENB ↵↵
2 . STOP TOLERANCE  40um
3 . POS CALIBRATE   ENB ↵↵
4 . POS ACCURACY    0um
5 . RETURN          PREV↵
```

2.4.1 STOP CALIBRATE

- ◆ When the platform stops, if it is moved by external forces, should the platform perform calibration regression?
- ◆ Hold the right mouse button and scroll the wheel to select ENB/DIS.
- ◆ ENB (Enable): If the error exceeds the tolerance range, calibration regression will be performed. Double-click the left mouse button to set.
- ◆ DIS(DIS (Disable): If the error exceeds the tolerance range, calibration regression will not be performed. Double-click the left mouse button to set.

2.4.2 STOP TOLERANCE

- ◆ Set the tolerance range for automatic calibration regression from 1 to 200 μm .
- ◆ Hold the right mouse button and scroll the wheel to adjust the tolerance error value.

2.4.3 POS CALIBRATE

- ◆ During positioning, should precise positioning be required
- ◆ Hold the right mouse button and scroll the wheel to select ENB/DIS.

- ◆ ENB (Enable): Perform precise positioning within the tolerance
- ◆ DIS (disabled), does not perform precise positioning, but the positioning speed is fast. Double-click the left button to set.

2.4.4 POS ACCURACY

- ◆ Set the tolerance accuracy range of automatic correction return to 0-50 μm .
- ◆ Press and hold the right mouse button and scroll the wheel to adjust the tolerance accuracy value.

2.4.5 RETURN

- ◆ Hold down the right mouse button and scroll the wheel to select PREV/SAVE/EXIT.
- ◆ PREV: Go back to the previous page.
- ◆ SAVE: Save changes.
- ◆ EXIT: Exit the page.

2.5 CALIBRATE

Return to the origin or previous position, and set the origin position.

```
[CALIBRATE]
1 . RESET MODE      ORG↵↵
2 . ORIGINAL        DEF↵↵
3 . RETURN          PREV↵
```

2.5.1 RESET MODE

- ◆ The platform resets to the origin or current position.
- ◆ Press and hold the right button of the mouse and scroll the wheel to select ORG/CUR.
- ◆ ORG (origin), the platform returns to the origin after reset. Double-

click the left button to set.

- ◆ CUR (current), the platform resets and then returns to the position before reset. Double-click the left button to set.
- ◆ Unable to operate during reset.

2.5.2 ORIGINAL

- ◆ Change the origin position.
- ◆ Press and hold the right mouse button and scroll the wheel to select DEF/SET.
- ◆ DEF (Default), sets the default origin. Double-click the left button to set.
- ◆ SET (set), set the current position as the origin. Double-click the left button to set.

2.5.3 RETURN

- ◆ Hold down the right mouse button and scroll the wheel to select PREV/SAVE/EXIT.
- ◆ PREV: Go back to the previous page.
- ◆ SAVE: Save changes.
- ◆ EXIT: Exit the page.

2.6 FACTORY

Press and hold the right button and scroll the wheel to select YES/NO. YES means selecting the factory default value, and NO means returning to the default value.

2.7 ABOUT

Display version related information, press the left button to leave.

```
STAGE FST:10 SL:1 SR:1 [G]
      [ABOUT]

VER: 01.00.00
S/N: MS02000000
UPD: 20240730
      QT:000010
LD: 0.000mm G01 AT:000002
X: 0.000mm FST:0 STOP
Y: 0.000mm FST:0 STOP
```

2.8 CLOSE

Hold the right mouse button and scroll the wheel to select SAVE/EXIT. SAVE: Save all settings in the menu. EXIT: Exit without saving