

Si -a i obo con ol em man al

HC-S6 V2.3

Shen hen H acheng Ind ial Con ol Co.,L d.

Ca alog e

1 SYSTEM CONFIGURATION AND INSTALLATION..... 4

1.1 BA IC C FIG A I

2 OPERATION INTERFACE.....5

2.1 A EA A CE A D DE C I I

2.2 KE F C I DE C I I

2.2.1

2.2.2 F

2.2.3 A

2.2.4 F

2.3 AI C EE A D A I DEFI I I

2.3.1

C

C

C

C

A

D

C

5 AUTOMATIC STATE..... 88

6 ALARM INFORMATION AND ALARM REASONS.....90

7 BOARD PORT DEFINITIONS.....120

AI C LB A D E IAL DEFI I I

PORT DEFINITION FOR THE I / O BOARD

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8.1 HE E C EC I A D A A E E E I G

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9.2 A D C LLE

9.3 I CHI G E LIE I ALLA I DI E I

ANNEX1..... 130

1 S em config a ion and in alla ion

1.1 Ba ic Config a ion

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3, I /

4, (2)

1.2 S em in alla ion

1,

2,

3,

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5,

6,

7,

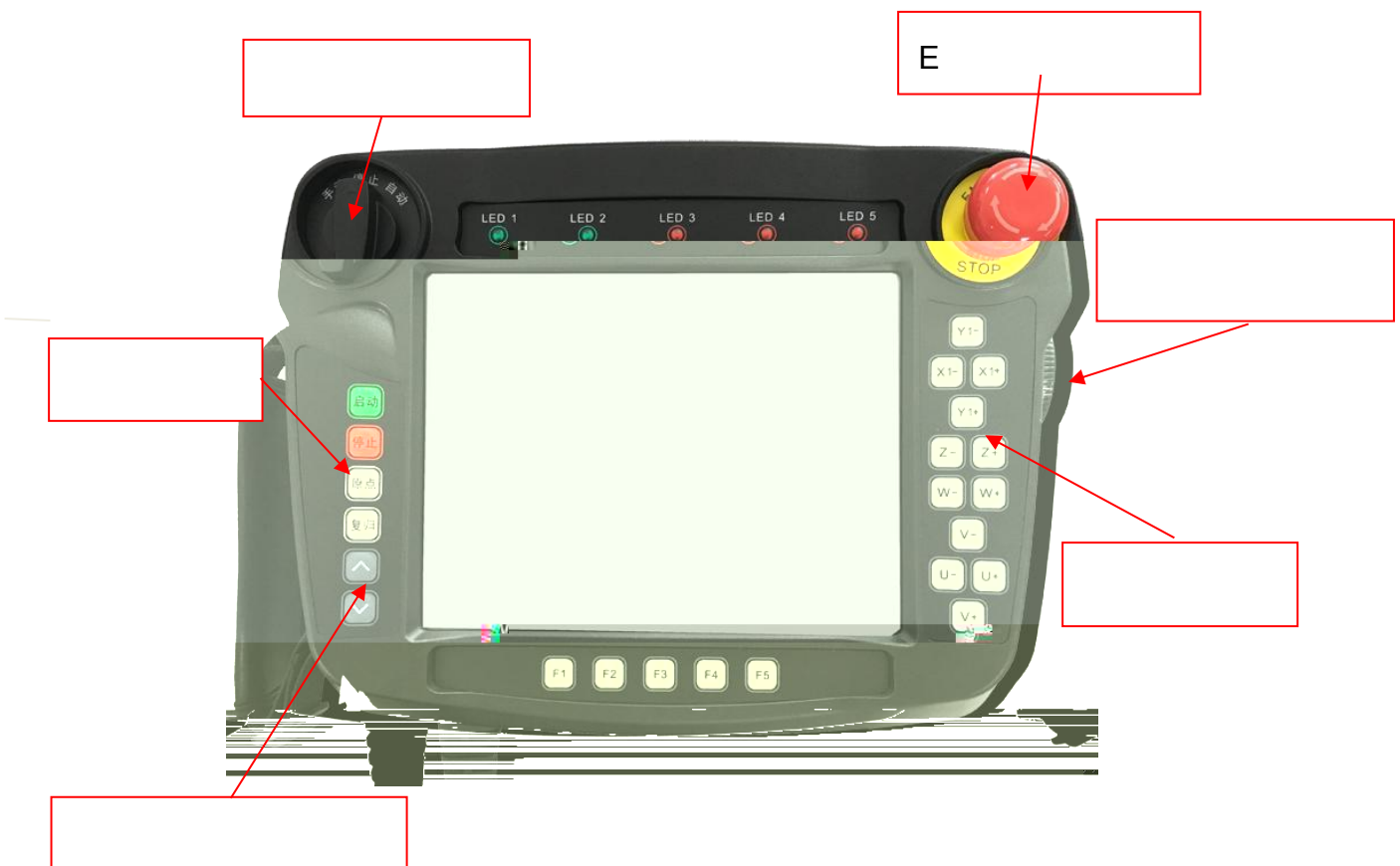
50

8,

CA I :I

2 Operation interface

2.1 Appearance and description



2.2 Key function description

2.2.1 Safe selection switch

Manual

A

F



"Stop"

F 

 | ,

"A o" ,

 F 

 | .

2.2.2 Function key

" " : " " .

 " " : F 1: . I

 , - . A

 , .

 F 2: I ,

 " " : | , , " "

 :

 : F ,

 3.2.1.17 F

 :

 :

 : , ,

 . F , 3.1.

2.2.3 A i ac ion ke

X +	:	.
X -	:	.
Y1 -	:	.
Y1 -	:	;
Z +	:	.
Z -	:	.
U +	:	.
U -	:	.
V +	:	.
V -	:	.
W +	:	.
W -	:	.

,

.

.

Ope a ing p oced e :

- 1, l ,
 - 2, , , (),
 - 3, : , " " " " " "
- (C 4.2.1) C .

☒ fullkeybd
 ☐ partkeybd

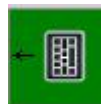
Speed 10.0 %

JZ-	JZ+	JV-	JV+	☐ Tune Sel Tune Speed: ☒ X1 ☐ X5 ☐ X10 ☐ X50
JY-	JY+	JV-	JV+	
JX-	JX+	JW-	JW+	
Line Z-	Line Z+	Rotate U-	Rotate U+	
Line Y-	Line Y+	Rotate V-	Rotate V+	
Line X-	Line X+	Rotate W-	Rotate W+	

2.2.4 Fine adj men knob

F :

- .



, , , ()

☒ fullkeybd	☐ partkeybd	☒ Tune Sel		Speed 10.0 %
JZ	JU	WDZ	WDU	Tune Speed: ☒ X1 ☐ X5 ☐ X10 ☐ X50
JY	JV	WDY	WDV	
JX	JW	WDX	WDW	

:

1: 0.01 0.01 .
 5: 0.05 0.05 .
 10: 0.1 0.1 .
 50: 0.5 0.5 .

C :

J :

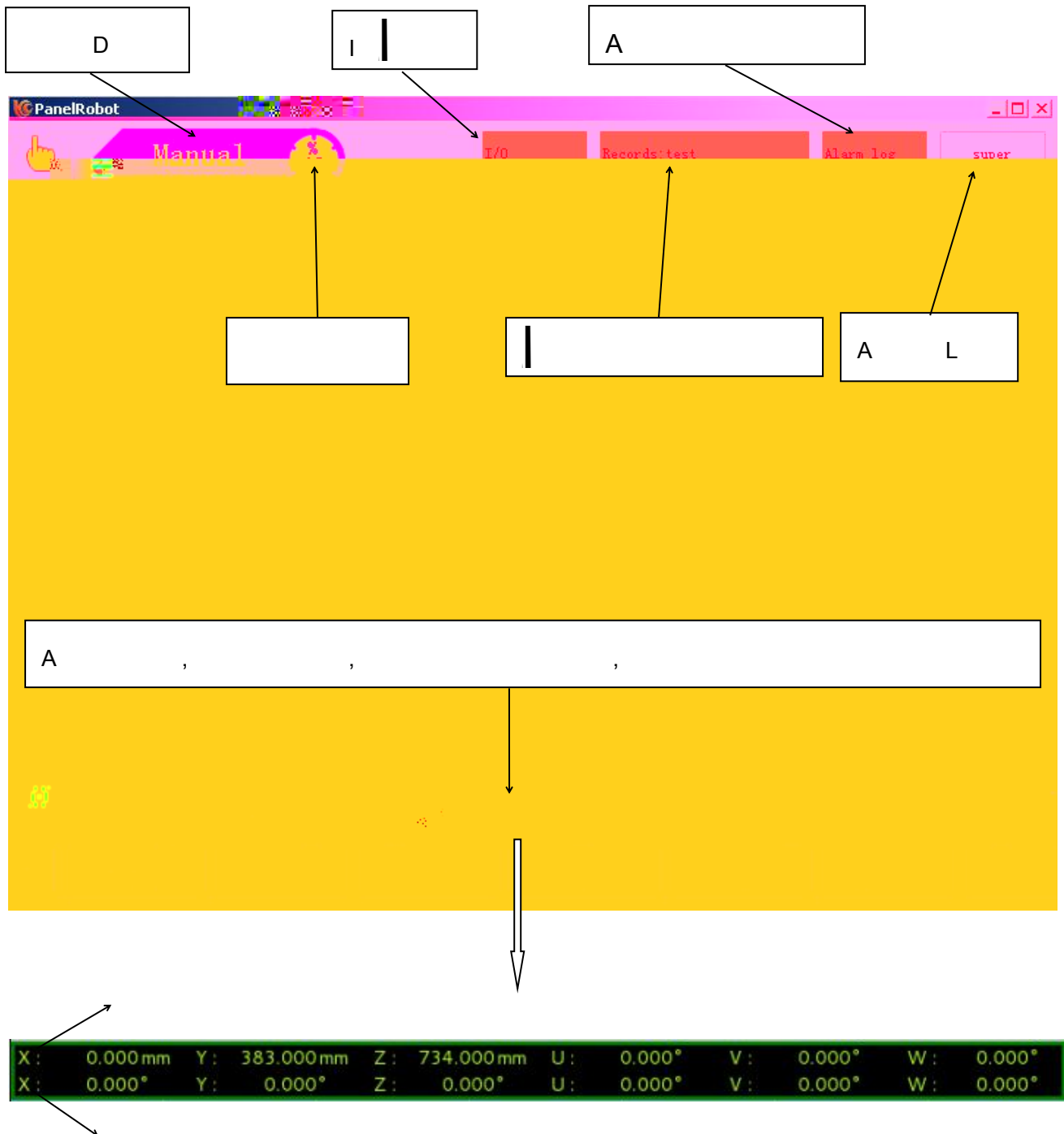
2.2.5 Eme genc b on

F :

, " , " " "

2.3 Main c een and a i defini ion

2.3.1 Main c een de c ip ion



2.3.1.1A ho i managemen

L : C "L " , , "L " .

Login

→

User:

Password:

Cancel

Log out

Login in

admin
super
root
szhcroot
hc

1: ,

2: C 4.3.6.

():

A (A):

: ,

123456.

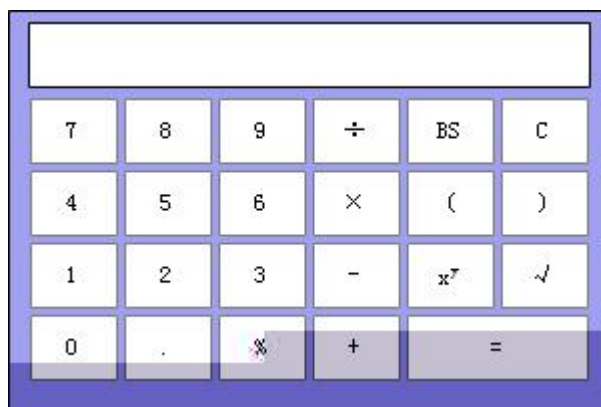
():

12345678.

: <A < <

2.3.1.2 Calc la o

C

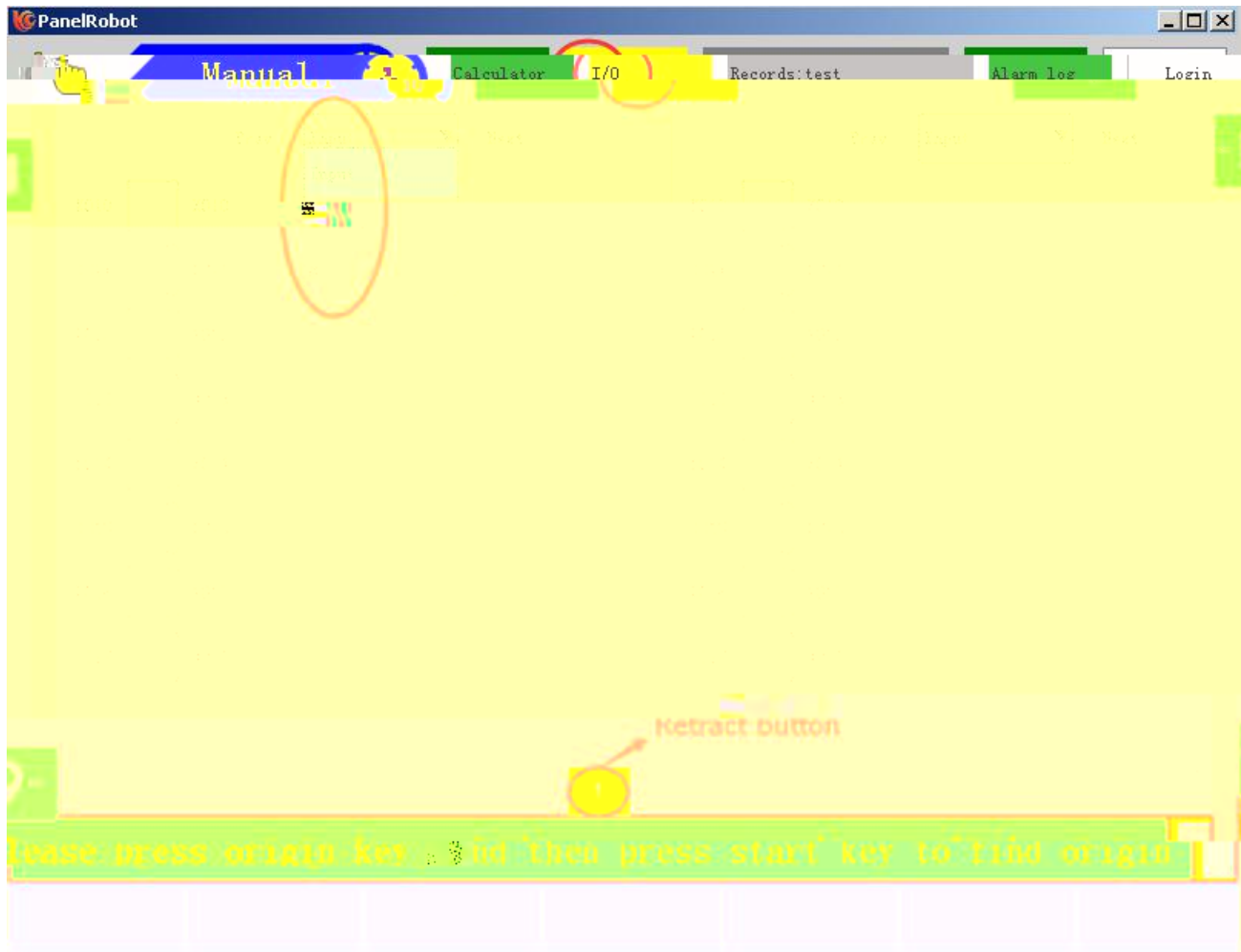


2.3.1.3I / O monitoring

C

I /

/



2.3.1.4 Model

C " " " "

" " " "

:



Ne : , " "

Cop : A

C

Load : C

"L "

Del: C

D

E po : C

Impo :

B

C "I

" ,

. C " "

"L "

Sea ch: E

" "

Clea ea ch: C

2.3.1.5 Alarm log

C A L

A L :

PanelRobot

Manual 10 Calculator 1/0 Records: test Alarm log super

☒ Alarm Log ☐ Operation Log

Alarm Num	L	Descr	Triggered Time	End Time
9	0	Connect host fail!	2016/11/09 09:46:23	
9	0	Connect host fail!	2016/11/08 08:38:44	
9	0	Connect host fail!	2016/11/08 17:47:37	
9	0	Connect host fail!	2016/11/08 15:24:23	
9	0	Connect host fail!	2016/11/08 14:15:15	
9	0	Connect host fail!	2016/11/08 08:53:32	
9	0	Connect host fail!	2016/11/07 16:34:46	
9	0	Connect host fail!	2016/11/07 15:30:55	
9	0	Connect host fail!	2016/11/07 15:30:55	
9	0	Connect host fail!	2016/11/07 15:30:55	
9	0	Connect host fail!	2016/11/07 15:30:55	

tract button

Please press origin key and then press start key to f

: D

L :

2.4 Operating mode

2.4.1 Origin Relation

1:
C
1.
2.
" C " , " A " " " " " C "
" "
C
2:
" E "
.
, H)
"D H "D :
:
E :

请确认原点模式后,再按启动键原点复归.

☐ 已在原点附近

☐ 关机前已急停

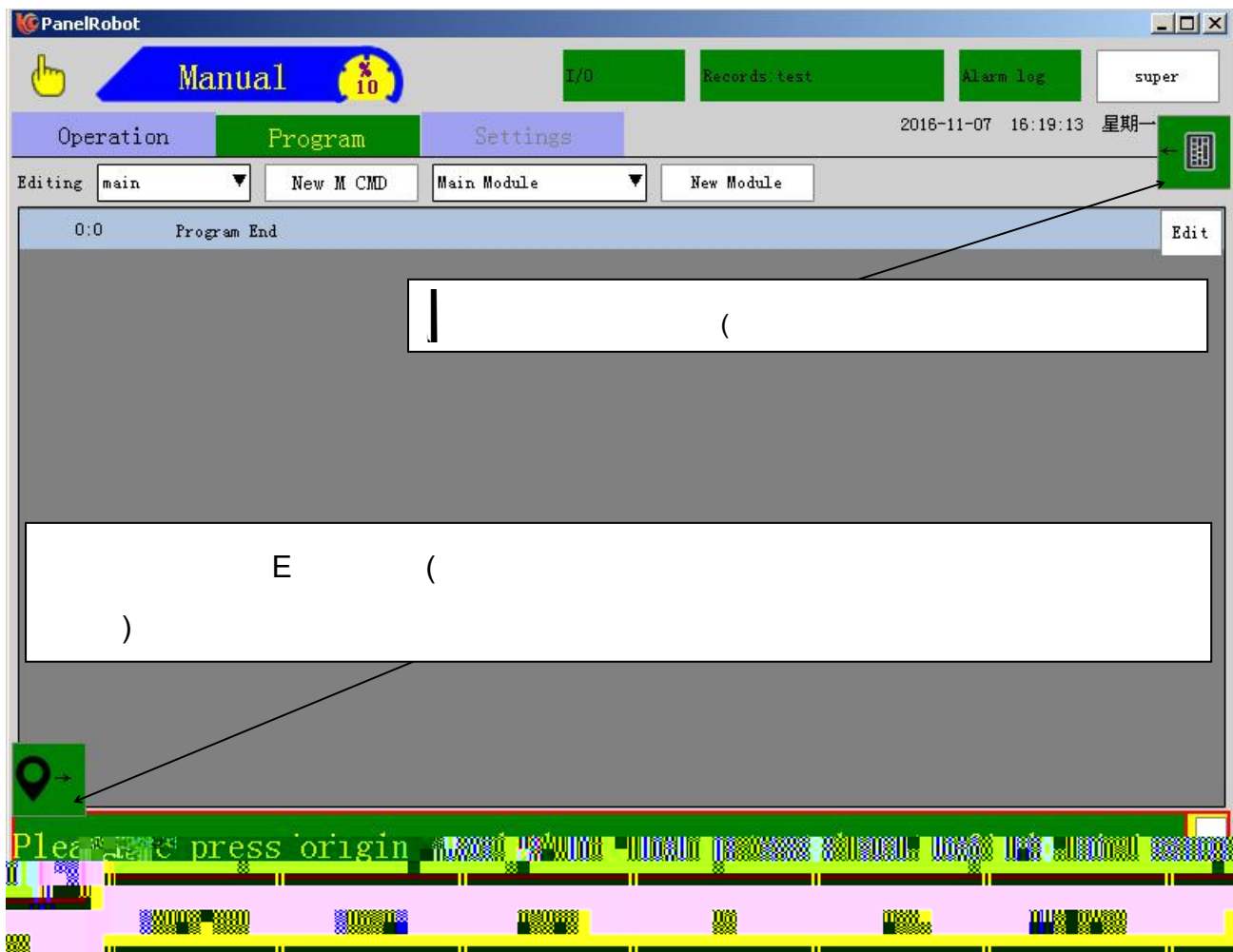
☐ 重新原点

. I
E E GE C

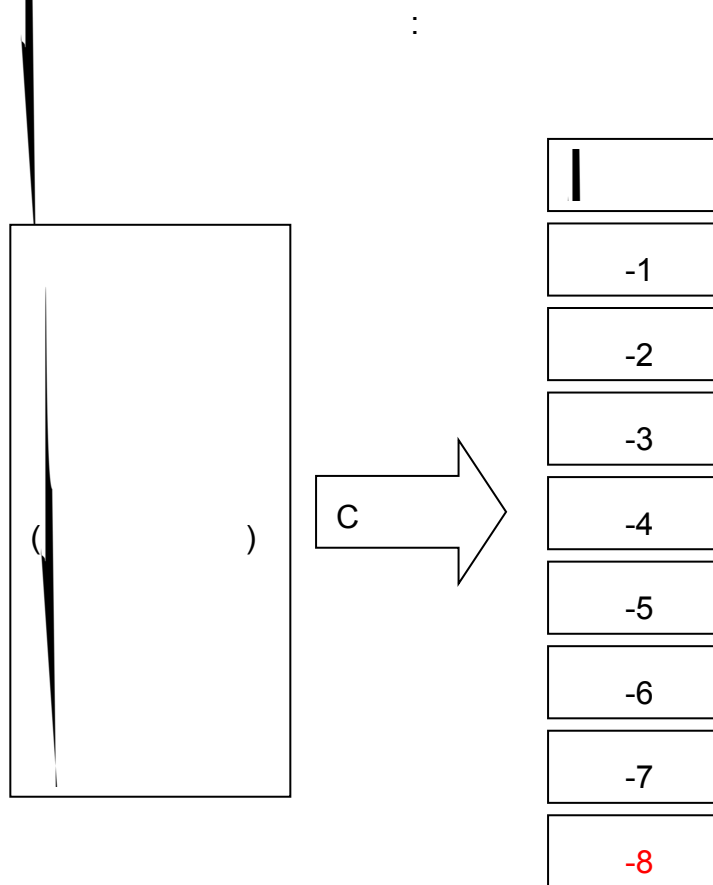
3 Manual a

" " ,

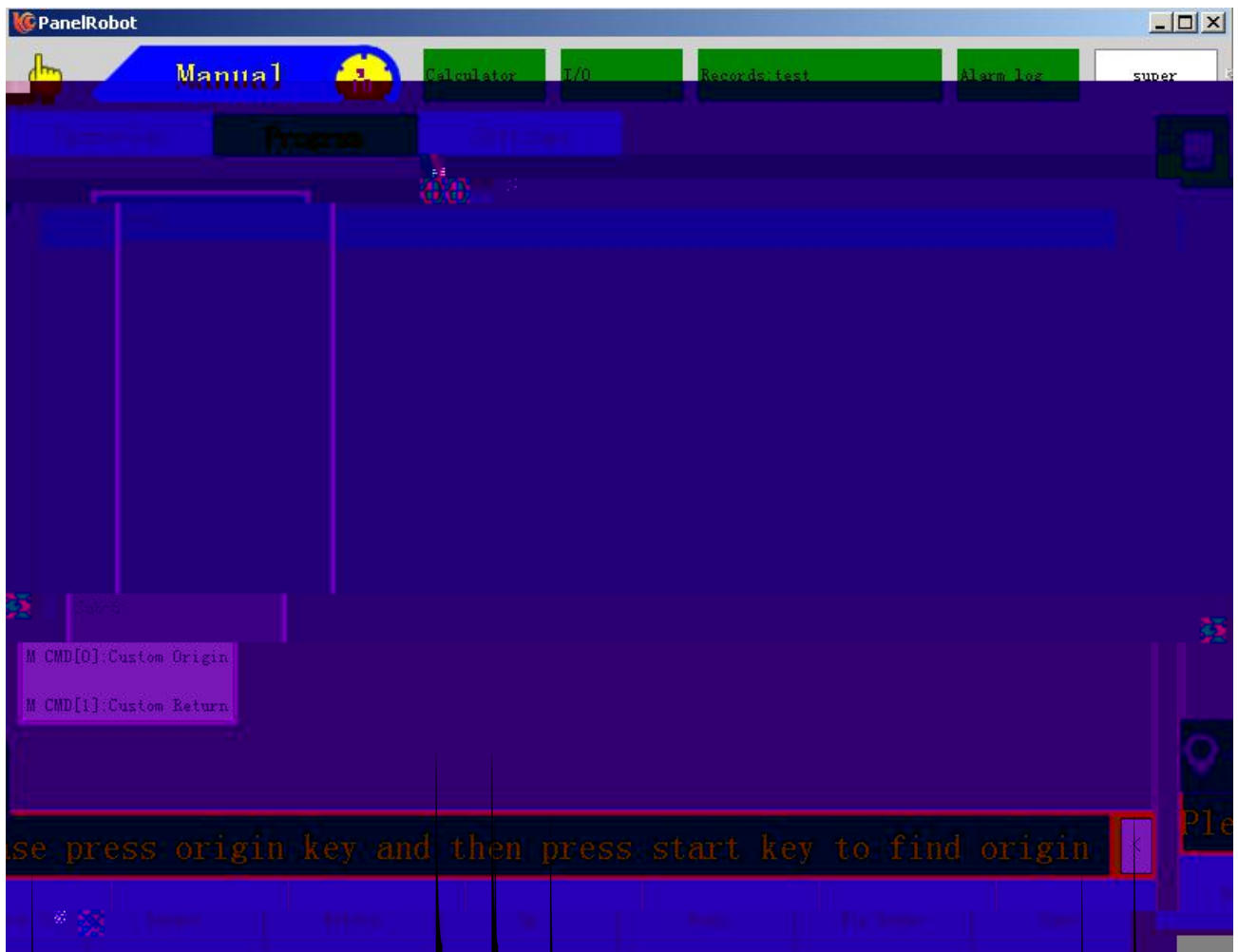
.A :



3.1 P og am



: "E " , (
).
 : 8(-8),
 8(-8), (/ /) .
 : l



" K (C D): - .

K (C D): C " K (

C D)" . C K "E "

. C

. K (C D):

" " | (,

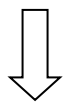
" "

D K (C D):

- "E " D K (C D) .

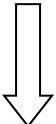
:

New M CMD



Please Input the new program Name

Program Name:



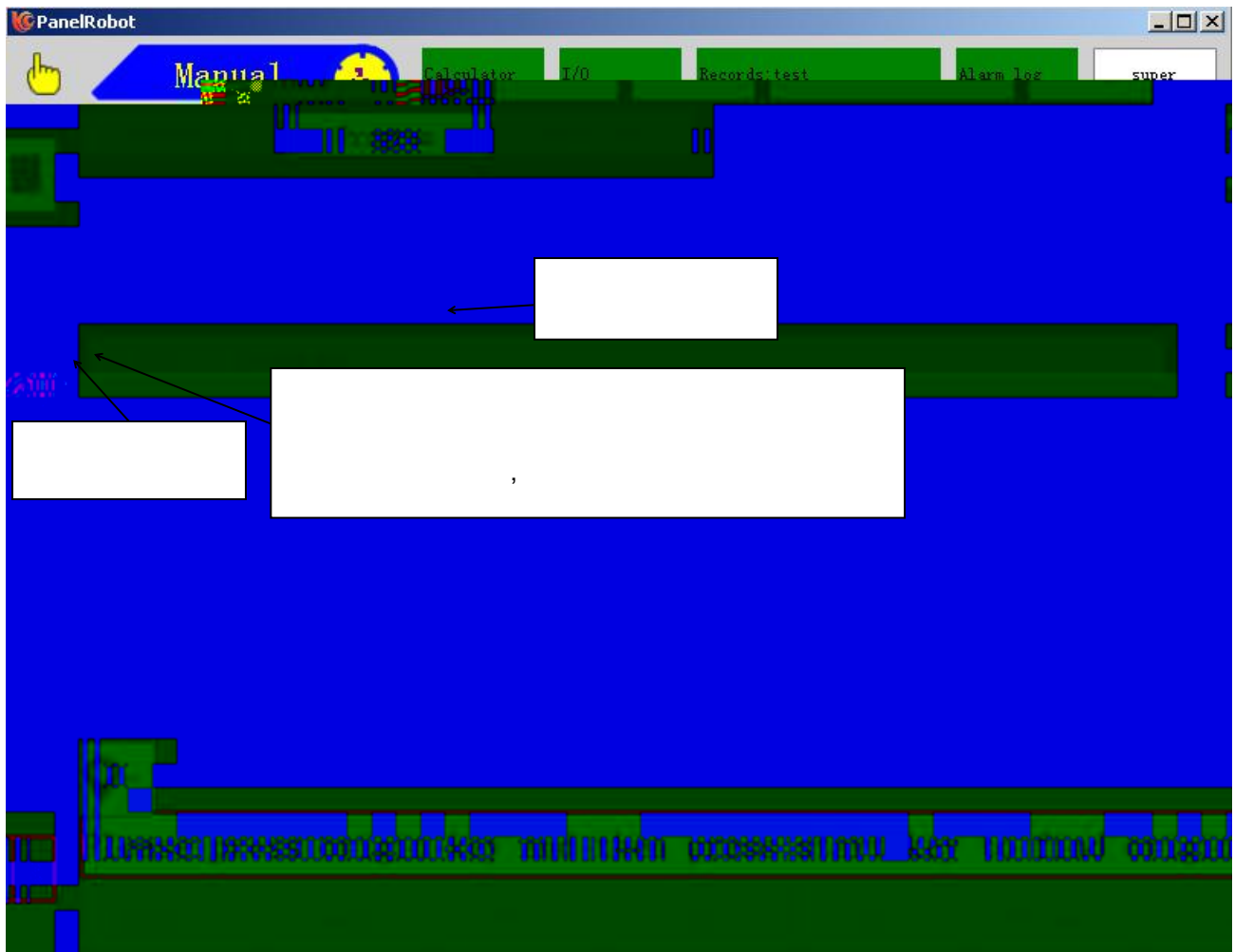
- Sub-1
- Sub-2
- Sub-3
- Sub-4
- Sub-5
- Sub-6
- Sub-7
- Sub-8
- Sub-9
- Sub-10
- Sub-11
- Sub-12
- Sub-13
- Sub-14
- Sub-15
- Sub-16
- Sub-17
- Sub-18
- Sub-19
- Sub-20
- Sub-21
- Sub-22
- Sub-23
- Sub-24
- Sub-25
- Sub-26
- Sub-27
- Sub-28
- Sub-29
- Sub-30
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- Sub-32
- Sub-33
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- Sub-35
- Sub-36
- Sub-37
- Sub-38
- Sub-39
- Sub-40
- Sub-41
- Sub-42
- Sub-43
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- Sub-84
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- Sub-87
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- Sub-92
- Sub-93
- Sub-94
- Sub-95
- Sub-96
- Sub-97
- Sub-98
- Sub-99
- Sub-100



Editing: M CMD[3]:hc

0:0 Program End

:



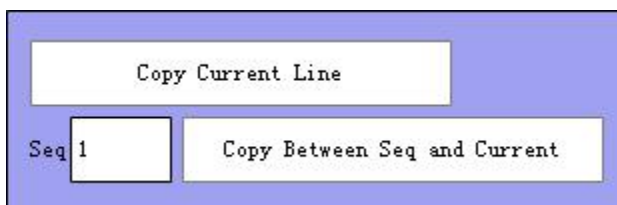
" ":

" ": C

"D " : C

C : C C

:



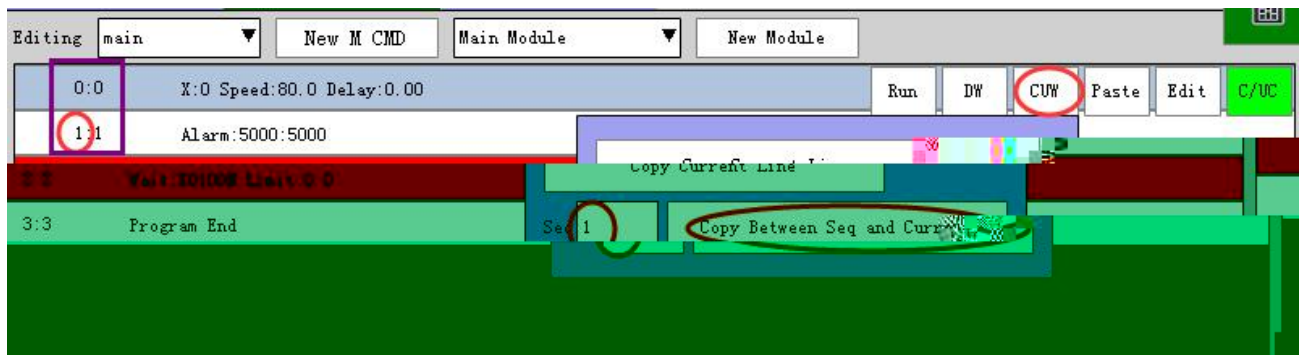
E: " L "

C : 0 1

011 :

1: C C , 1 " "

C C .



2: C .



: | " , "

,

" .:

"E ": C E .

:

"D ": C .

"F .": C .

3.2 Action menu

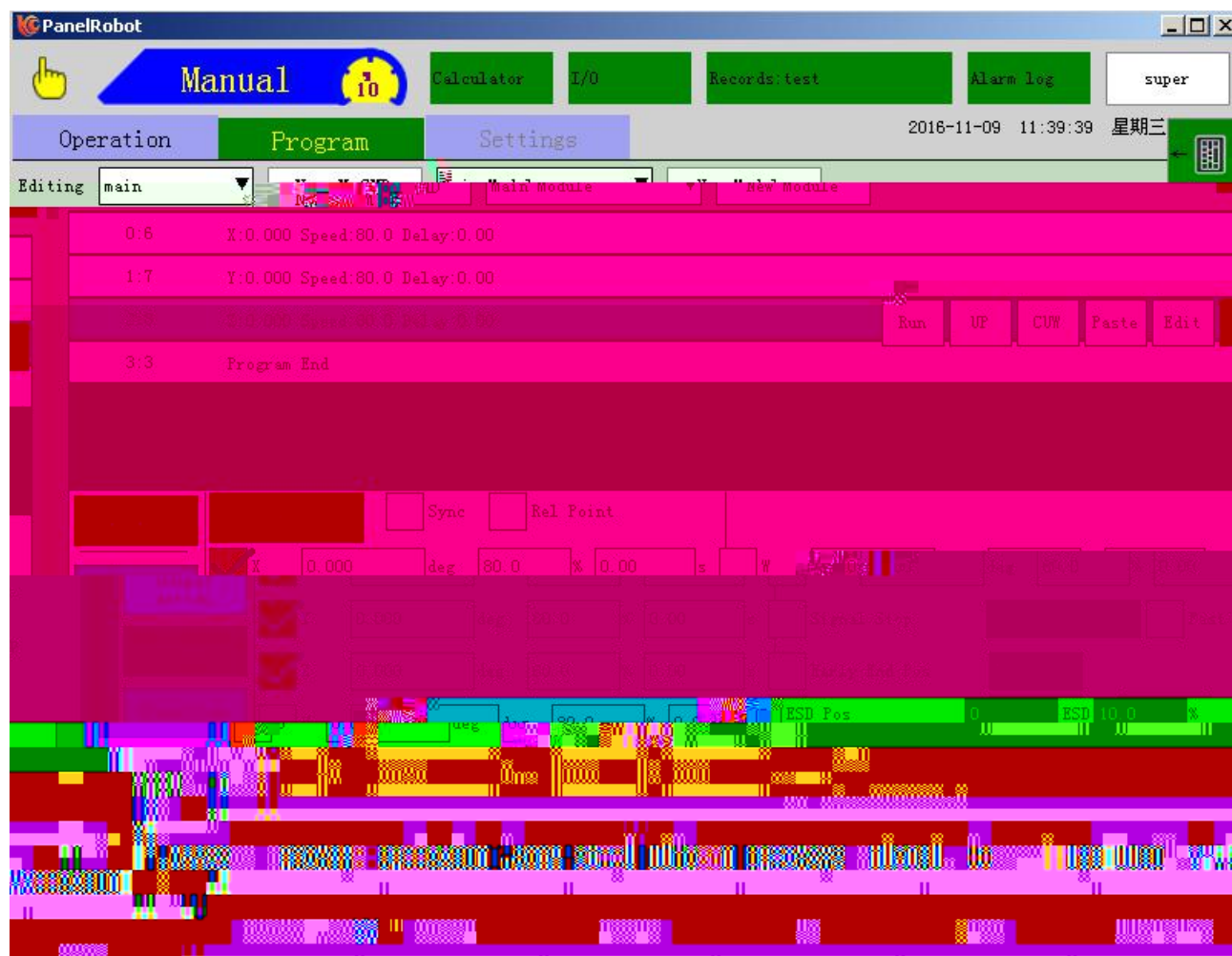
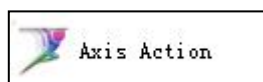
C "E /H" , 17
 , .A
 . C , C .





3.2.1A i ac ion

C



In e : l

. C I

In e :

" " " | "

S nc:

" "

Rel poin : C

: I 200 1000,
800 (1000-200),
1000.

ESD POS: I

: I 200, 5%,
1000, 80%. 0-800 80%
, 800-1000 5% .

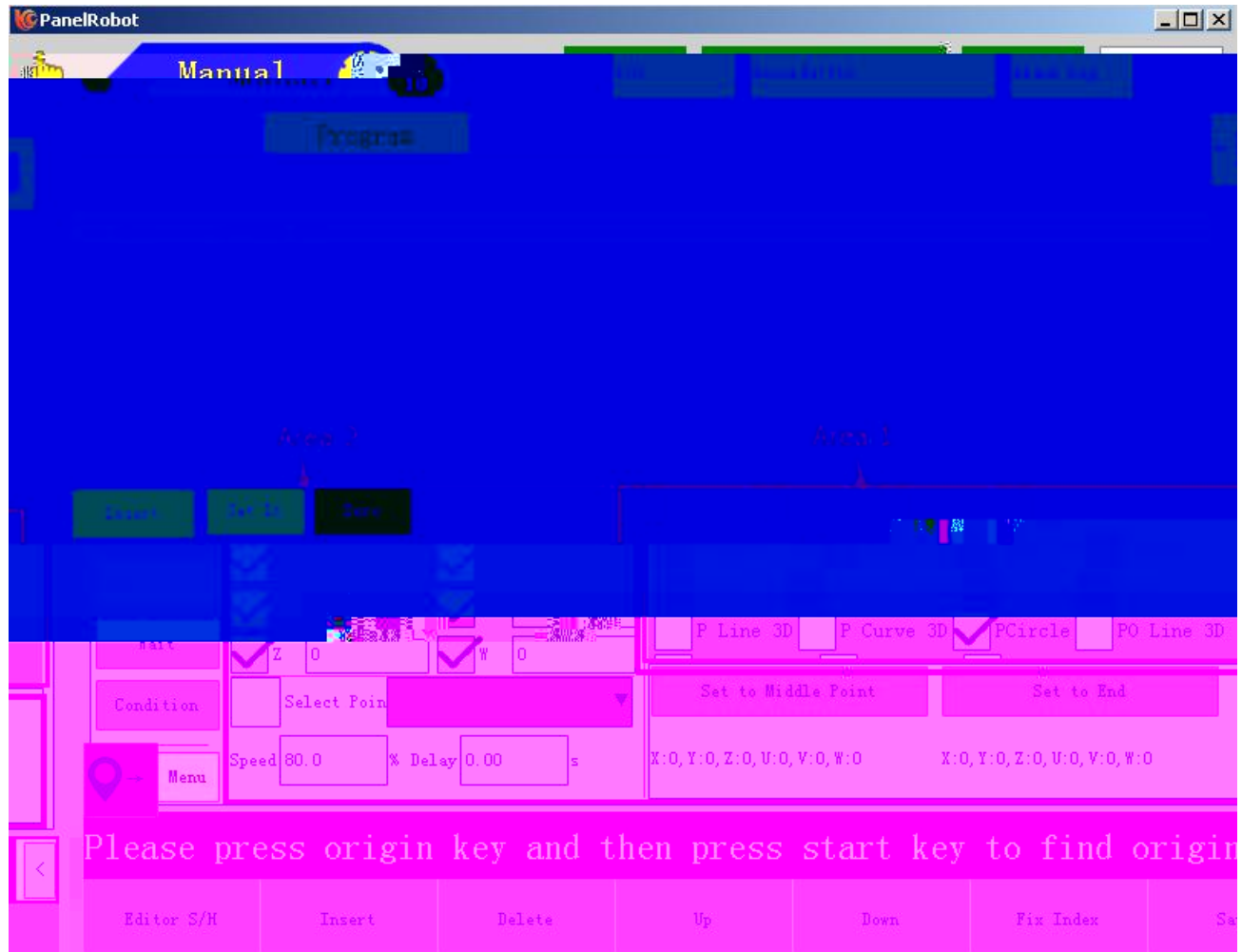
Signal op o Fa op:

Rel(Rela i e):

S op: " ",

3.2.2 Path

C



Area 1 in the type of action on the screen:

Line 2D (Line XY, Line XZ, Line YZ): H

" " "

Line 3D: I , " "

Condition 2D (Condition XZ, Condition XZ, Condition YZ): H

Condition 3D: I , " " "

"

Po e:

Rela i e line:

Rela i e C e:

Po e aigh line:

"

Po e c e:

"

"

"

Po e f ll ci cle:

"

"

"

F ee pa h:

Rela i e Join :

Rela i e po e line:

Rela i e po e c e:

F ll ci cle: D

A ea 2 i o e he coo dina e of he loca ion me hod, e in o a :

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"

"

"

(E)"

C

E

:

1: C

2: C

Set In World Pos

Set In Jog Pos

X

Y

Z

U

V

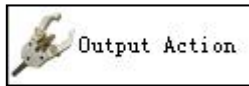
W

FF0: (X:0, Y:0, Z:0, U:0, V:0, W:0)
LP1: (X:0, Y:0, Z:0, U:0, V:0, W:0)
DP2: (X:0, Y:0, Z:0, U:0, V:0, W:0)

!:
 ,
 :
 1: I :E
 " " J "(
).
 2: C
 3: C (, ,
)
 D :
 "D " .
 L :E " L " " L "

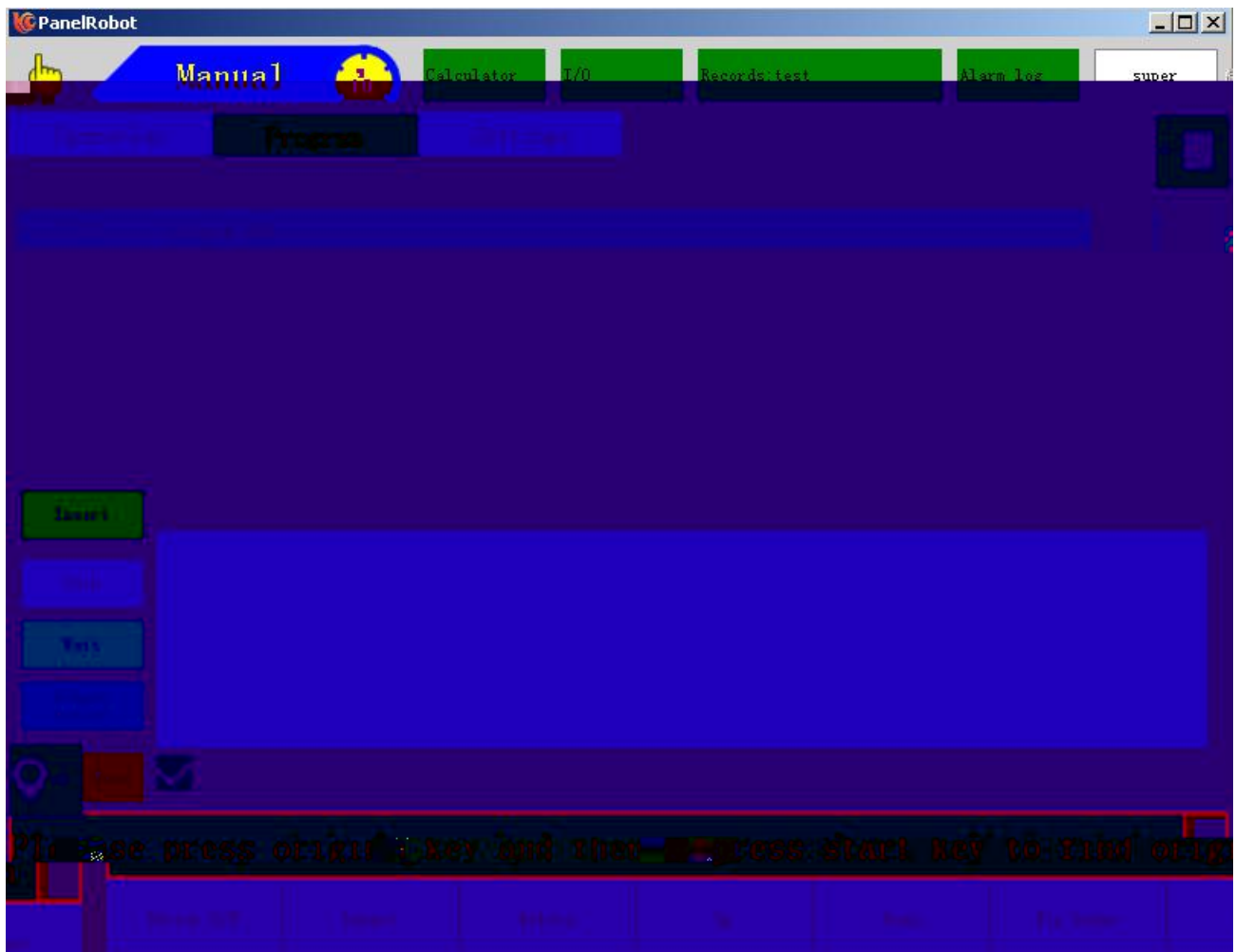
3.2.40 p ac ion

C



3.2.5Check

C



3.2.6Condition

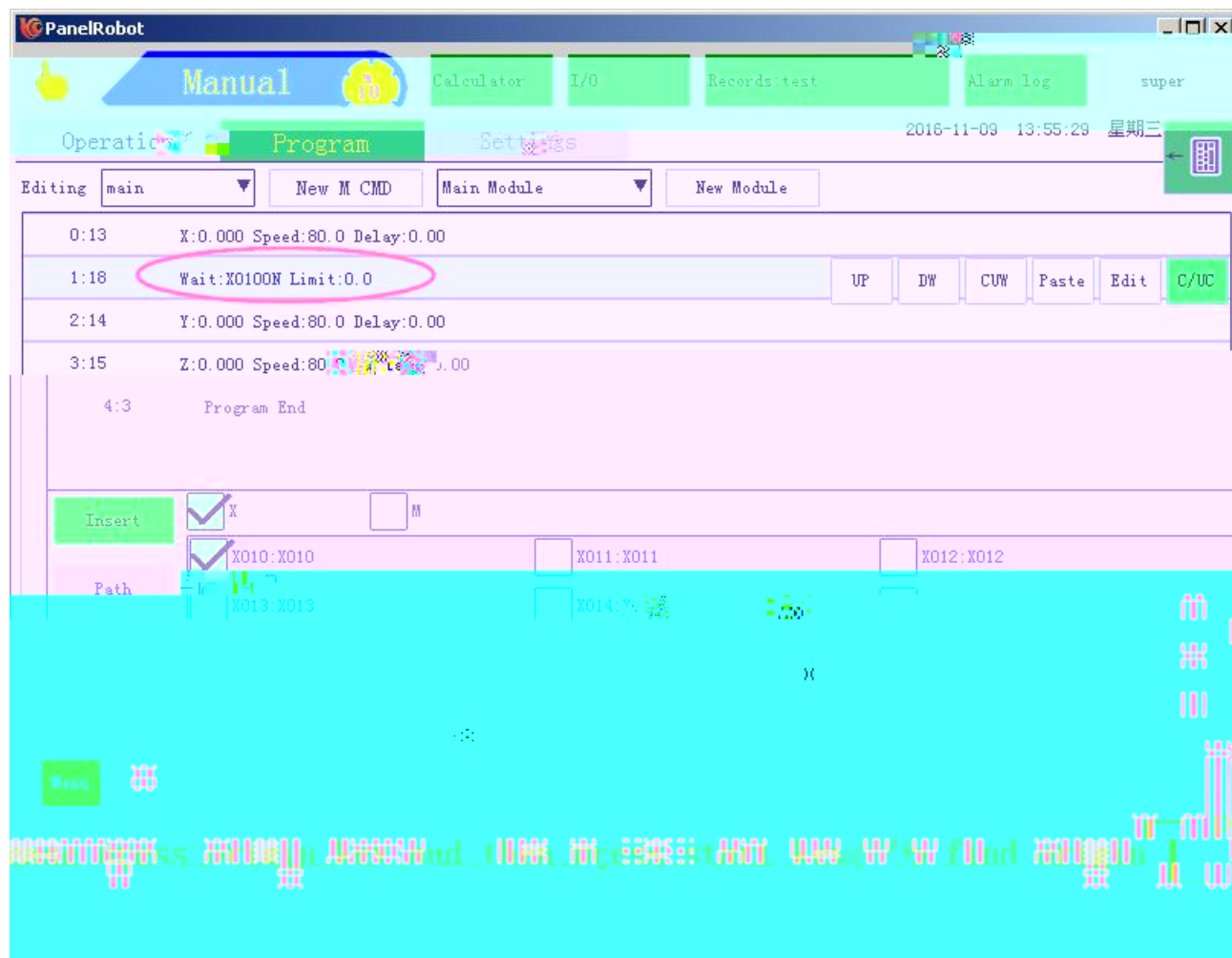
C

3.2.7Wai

C



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" "

" "

:

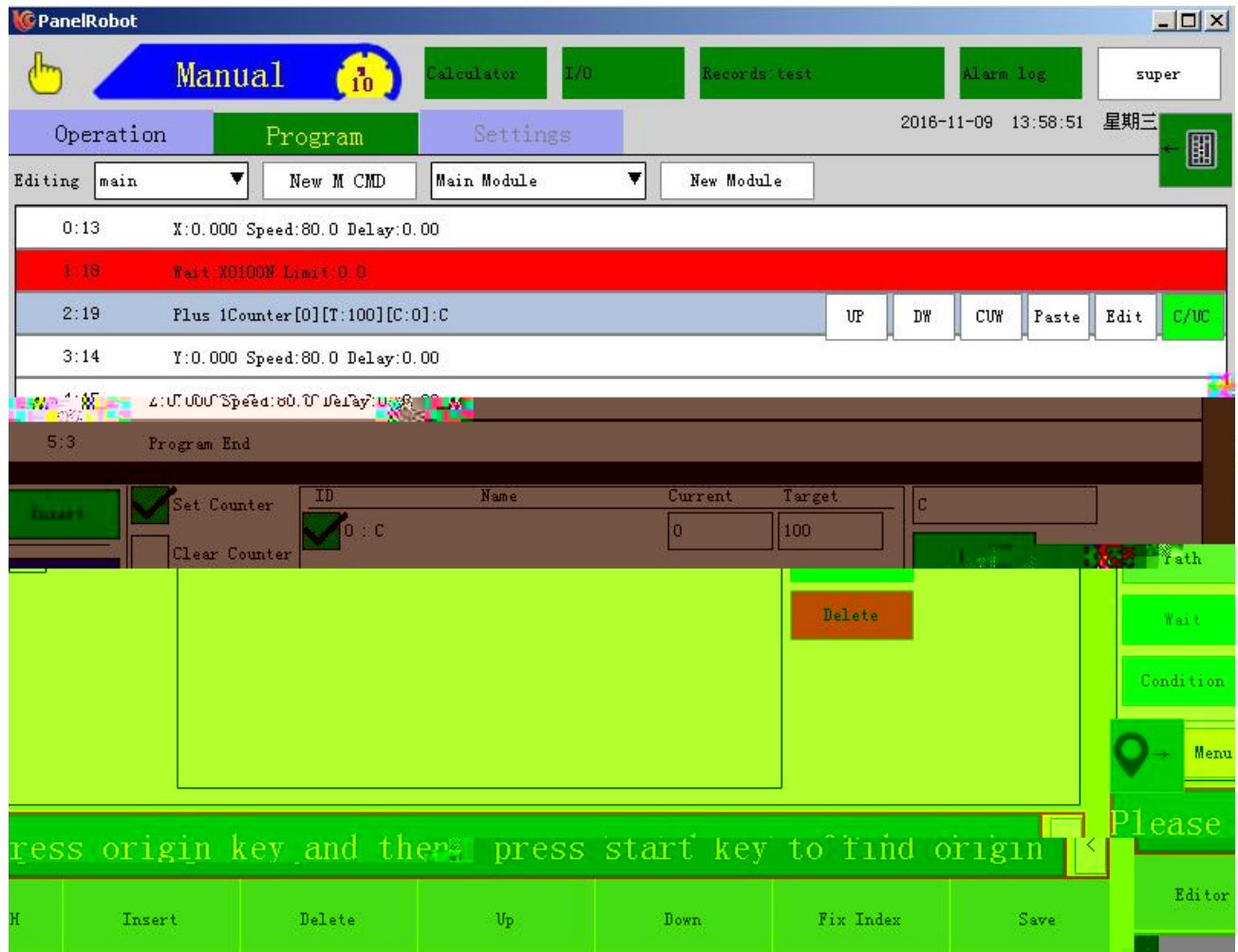
,

3.2.8 Counter

C



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C :1, ;2,C

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" "

" "

C en :

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I 2,

Take :

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3.2.9 S nc



C

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1,

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3,

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3.2.10Commen

C



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E

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" "

" "

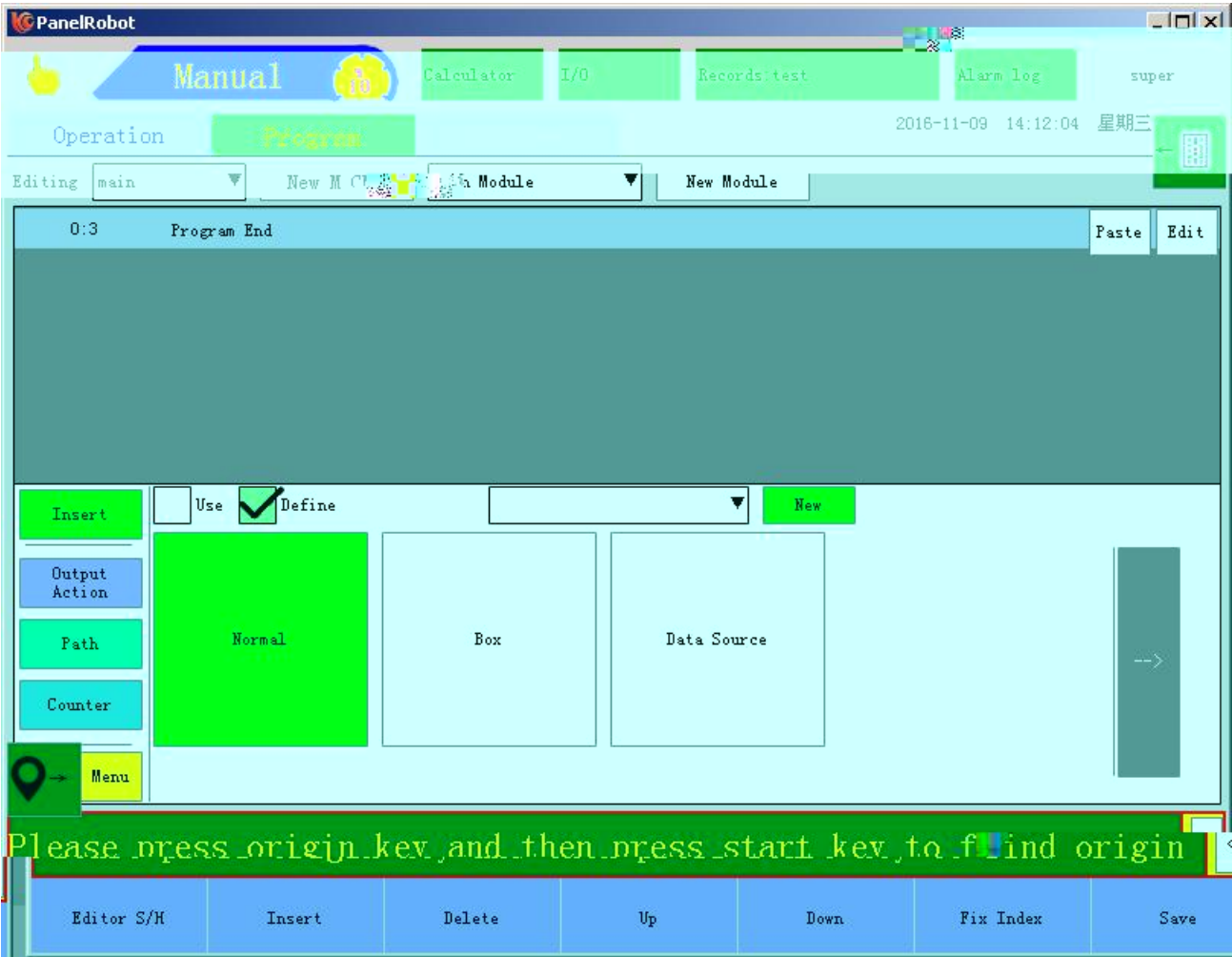
3.2.11S ack

C



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:1, ; 2,B ;3,D

3.2.11.1 No mal stacking

G : ,
;
(-).

Stacked ec ang la hape of he ope a ion me hod:

1, " "
.
2, " "
.
3, .

The e a e o a o e p:

- : -
, .
" - "
.
.

Insert	☐ Use Stack	☒ Define Stack	Stack[0]:N	New	Copy	Delete	Save		
Output Action	Set In		☐ Offset En		Three Point Way			←	
Path	X	0	U	0	Space0	0	Count0		0
Counter	Y	0	V	0	Space1	0	Count1		0
	Z	0	W	0	Space2	0	Count2		0
	Dir0	RP							

| ,
|
.
| , 1
1, 1
1
1, 1
4 C K

D - : C

I ,

I ,

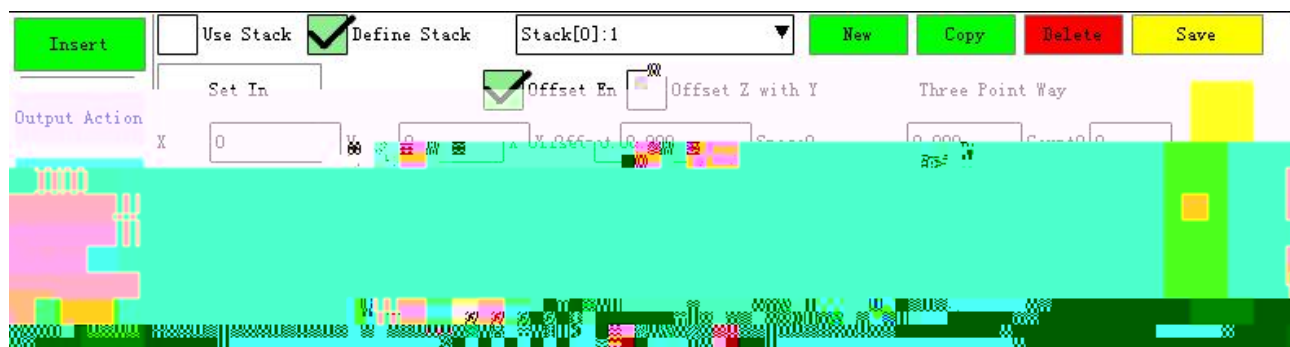
I , ,

+

).

5, , ,

:



C :

:

C : " "

1; (->).

6, .

7, " " " " ,

, " "

8,

1

The off e heap me hod of ope a ion:

- (-)
- 1, " "
- .
- 2, " "
- 3. C
- 4,
- D -
- :

- : -

" - "

.

Insert

Output Action

Path

Counter

Menu

☐ Use Stack ☒ Define Stack

Stack[1]:2

New

Copy

Delete

Save

OK

Cancel

Start Point

Set In

X

0

U

0

Y

0

V

0

X dir next point

Y dir next point

X

0.000

Y

0.000

Set In

The system will caculate the offset and space when confirm.
You just need to set the count configs after this setting.

Set In

X

0.000

Y

0.000

| ,

.

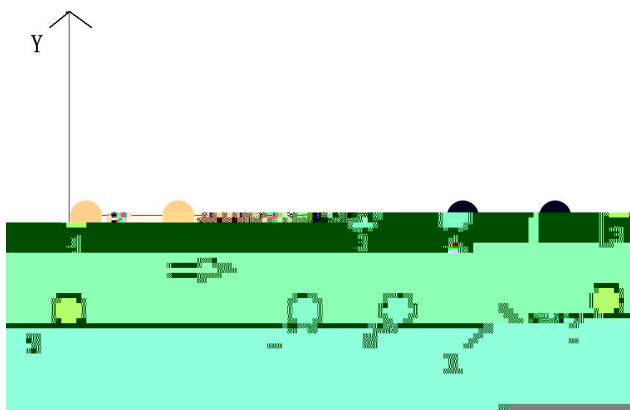
| , 1

1, 1

1

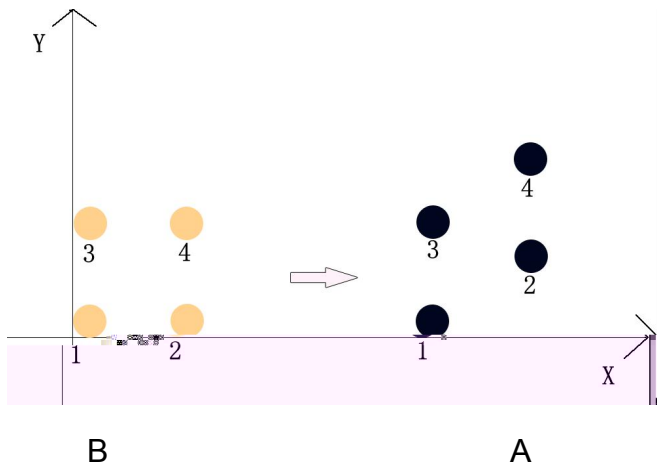
1, 1

4 C K



B

A



I , :

I , (

D :D , +, , .

C :

:

C : " "

1; (->).

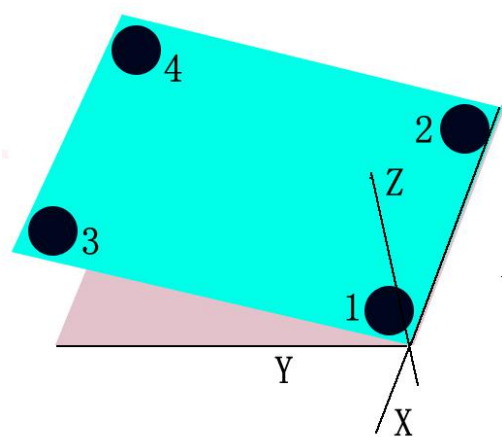
, " " " " ,

.

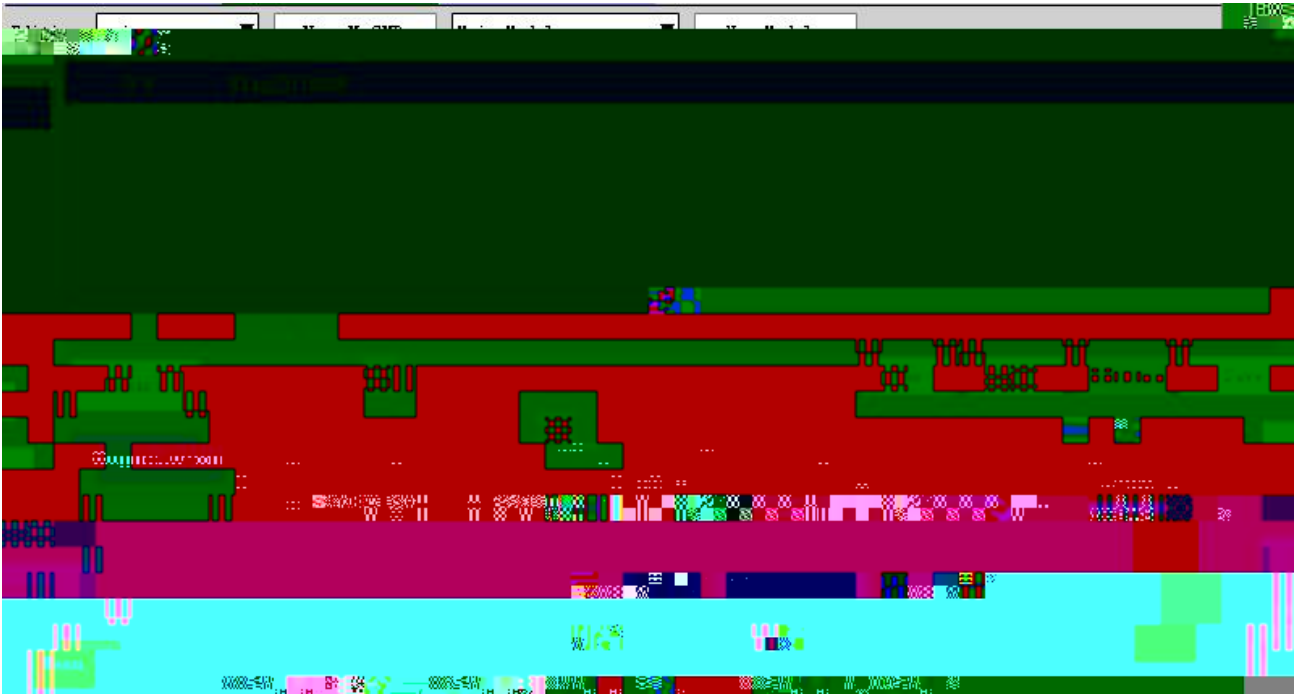
,

1

Slope off the Sacking Example:



Teaching Page Setup:



: 1,

1

2,

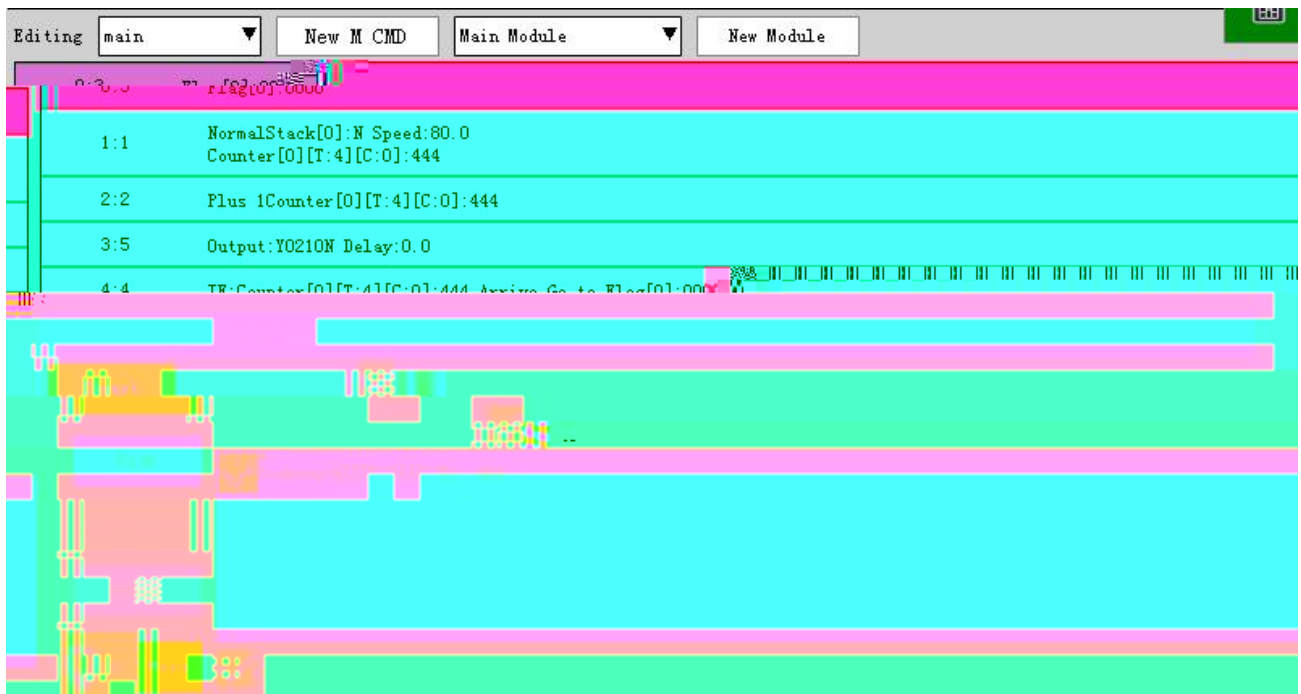
,

,

,

J

:



3.2.11.2 Bo ing and in-bo acking

1, " " "

2, " " "

3, " " "

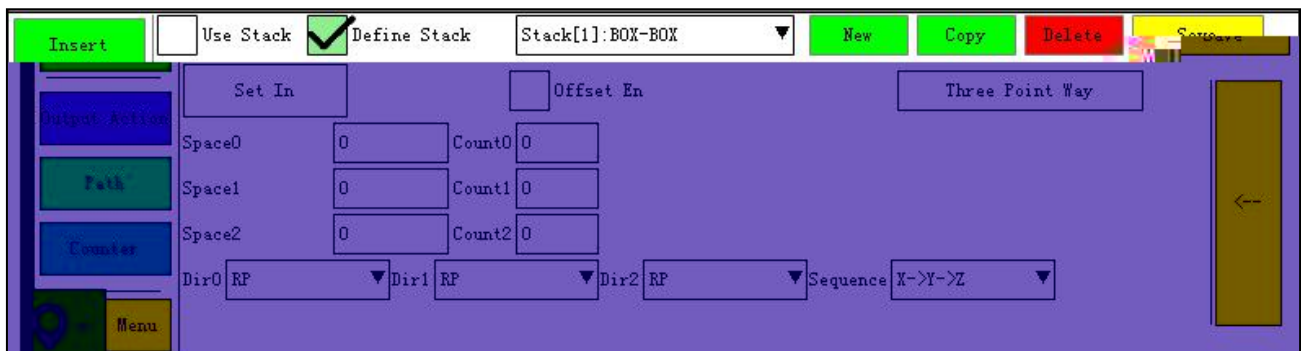
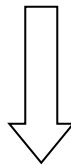
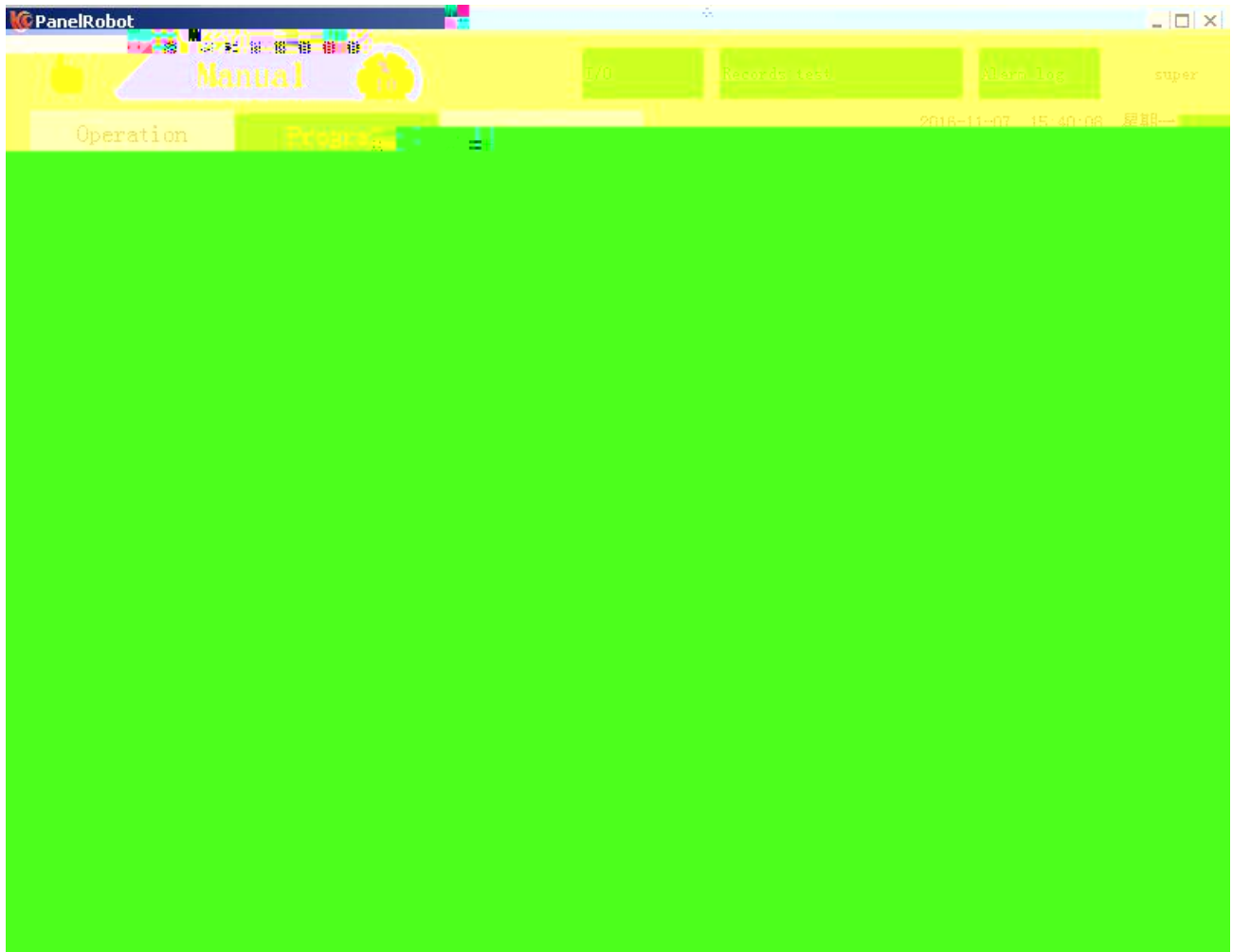
4, , , ,

5, " " "

6, C "

7, " " " "

" " " "





Set In		Sync Replace	Total:5	Close
X	20.000	1: (X:0, Y:0, Z:0, U:0, V:0, W:0)		
Y	52.000	2: (X:20.000, Y:0, Z:0, U:0, V:0, W:0)		
Z	6.000	3: (X:20.000, Y:52.000, Z:0, U:0, V:0, W:0)		
U	99.000	4: (X:20.000, Y:52.000, Z:6.000, U:0, V:0, W:0)		
V	77.000	5: (X:20.000, Y:52.000, Z:6.000, U:99.000, V:0, W:0)		
W				

Buttons: New, Save, Location icon

2. C

() , ,
:

D ID :

Insert Output Action Path Counter Menu	☐ Use Stack ☒ Define Stack Stack[2]:SD New Copy Delete Save
	☐ Pos And Cmp ☐ Only Cmp ☐ Offset Z with Y
	Data Source: www.geforcevision.com.cam::GeforceVision-Cam::[HID:100]
	Counter: Counter[0][T:4][C:0]:444 Run Seq: Run Together

Yellow bar with <--

3.2.12 Custom Alarm

C



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"

"

-

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:

,

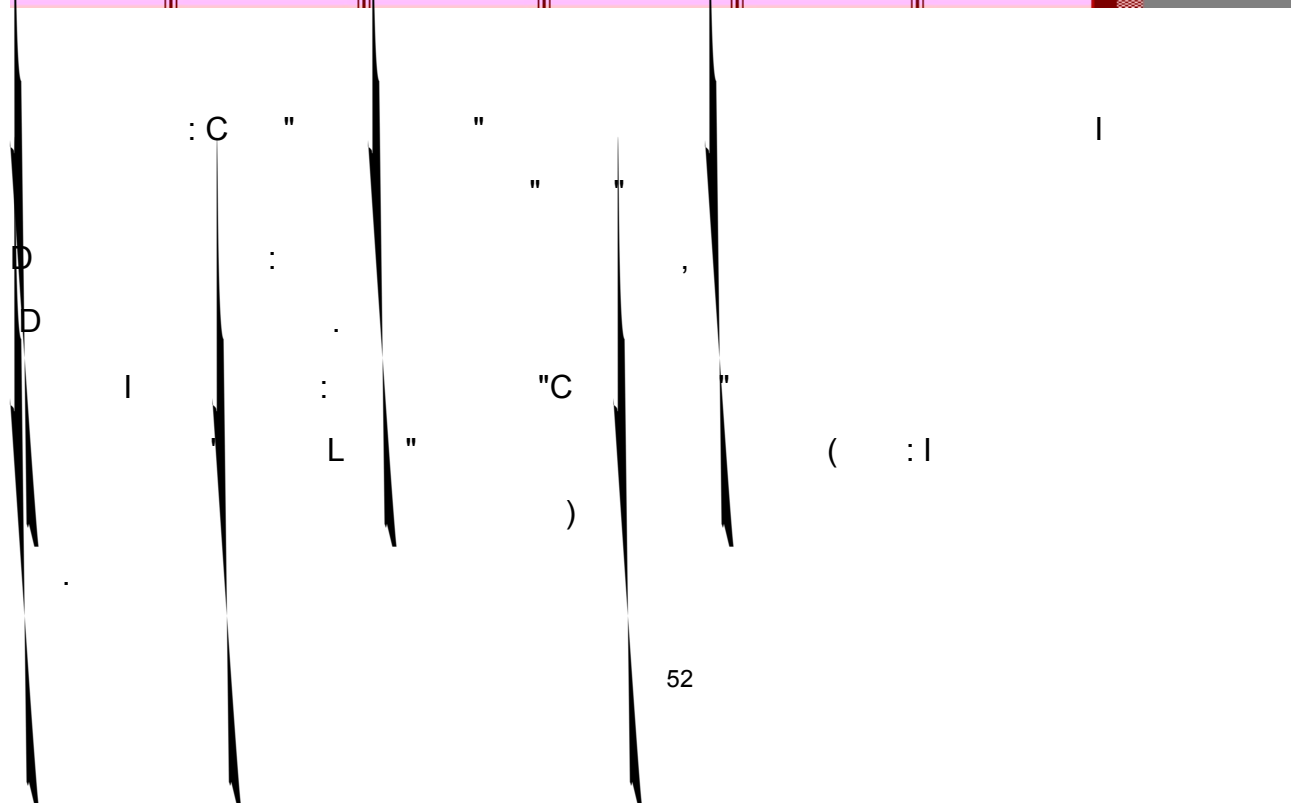
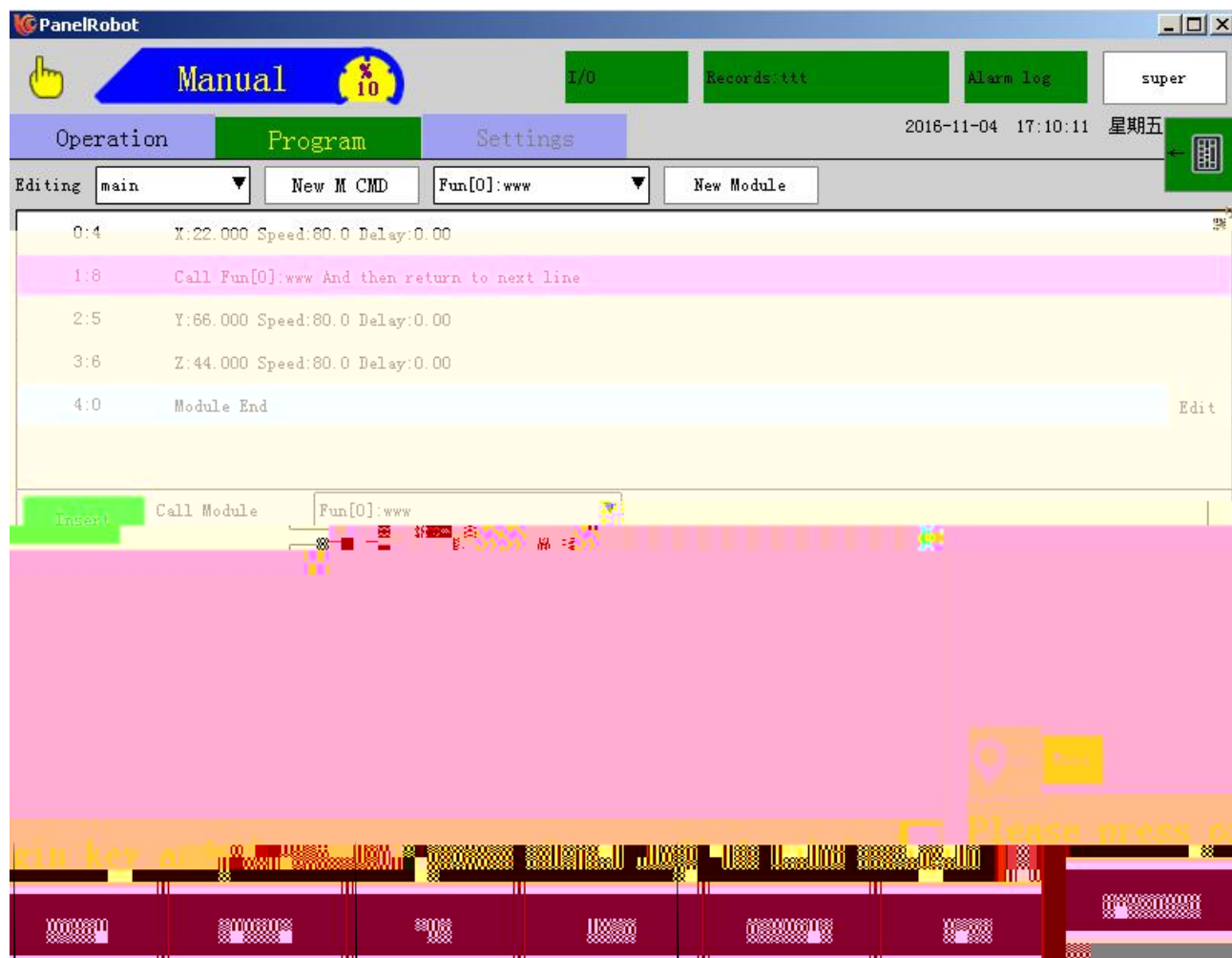
.

3.2.13 Module

C



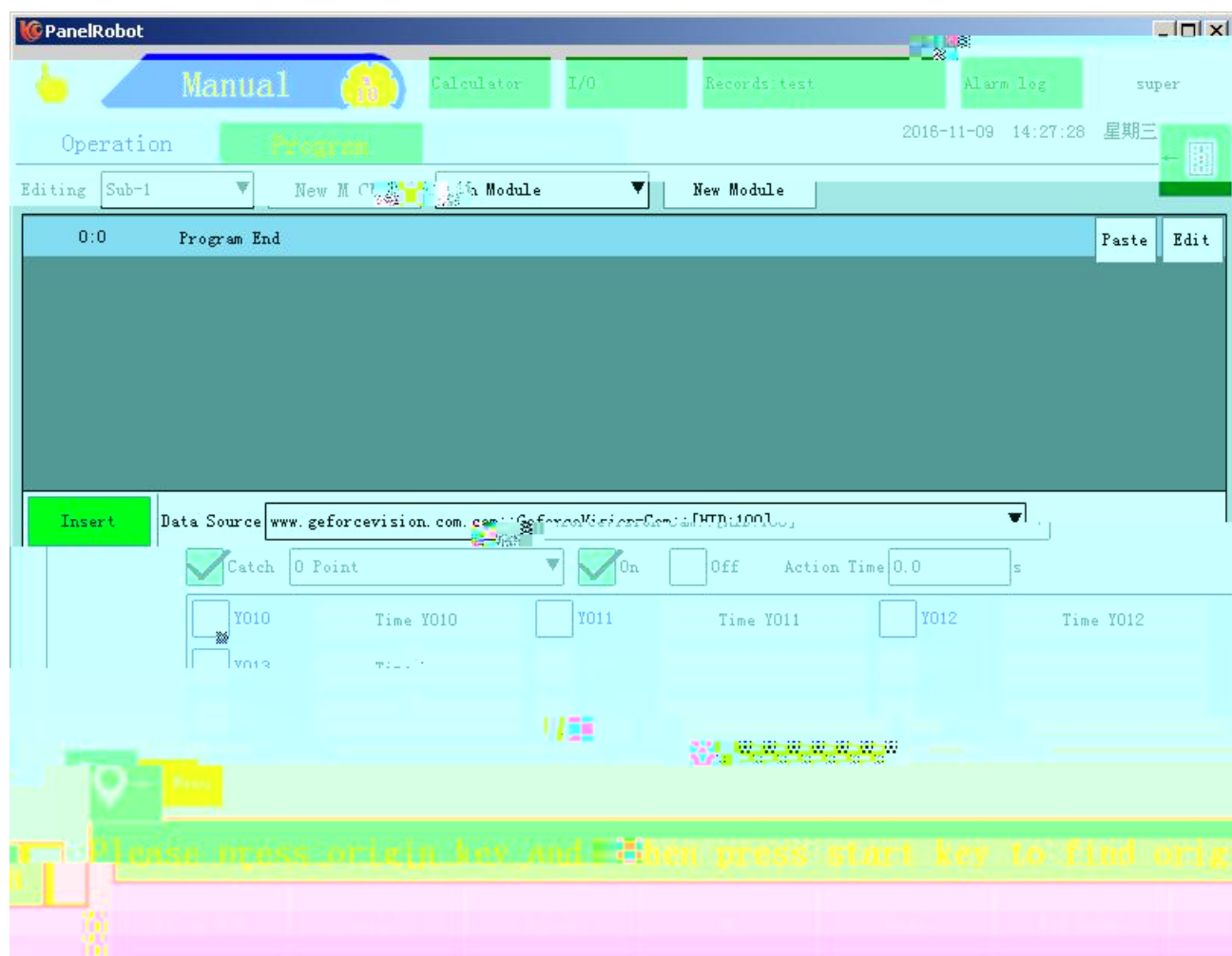
:



3.2.14 Vision



:

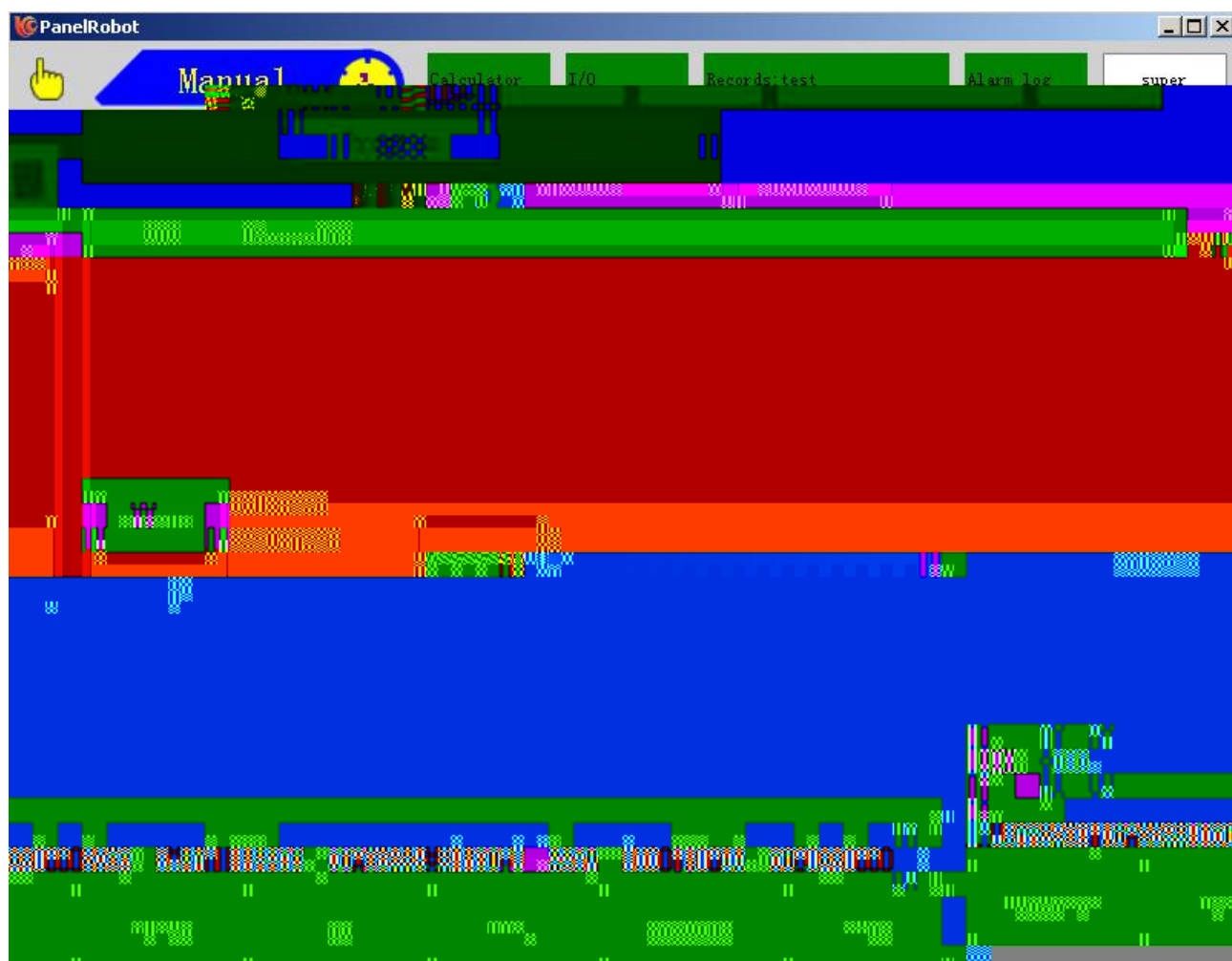


3.2.15 Path speed

C



:



:

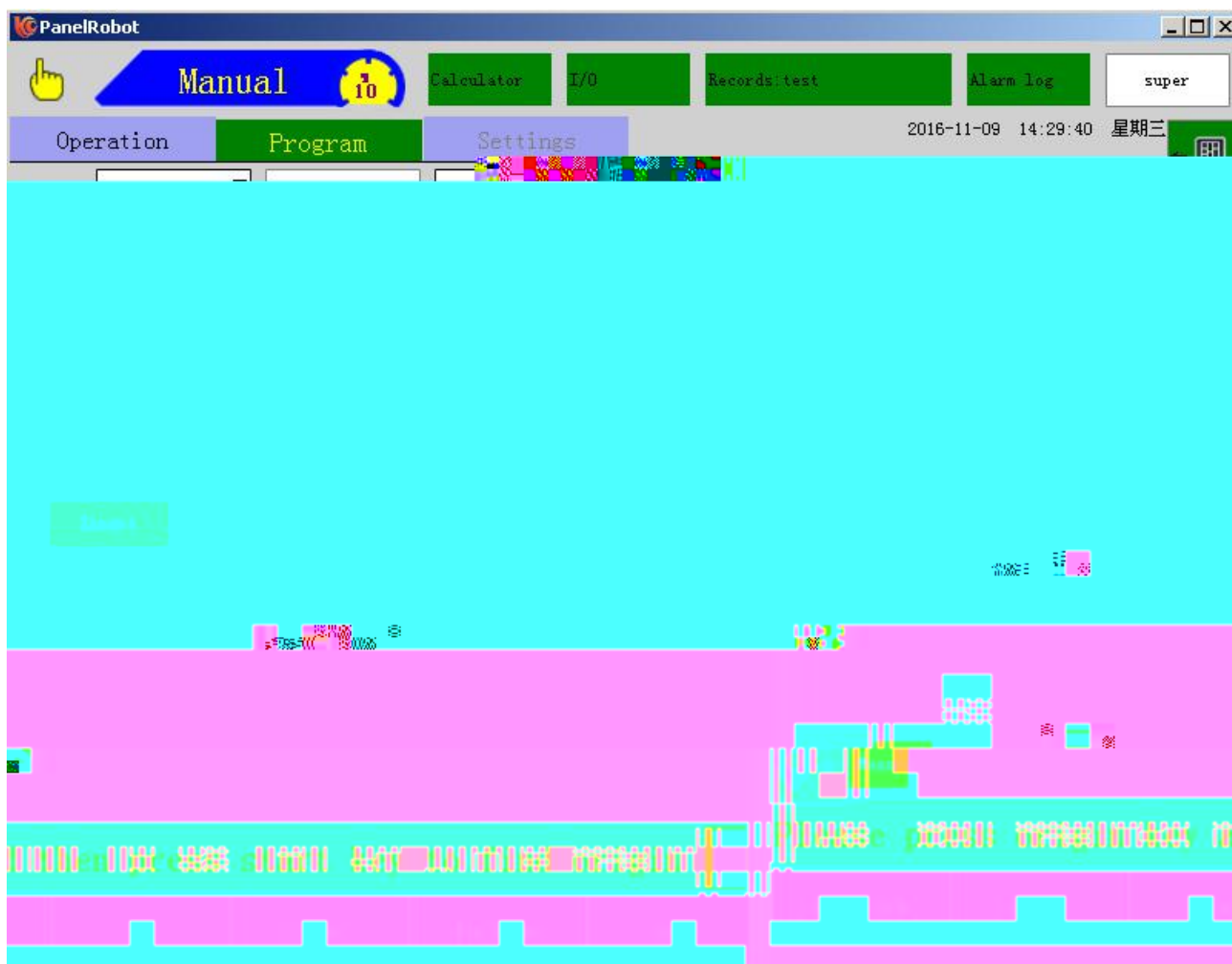
:

3.2.16 Da a command

C



:



3.2.170 igin

C



:



F

:

,

1,

2,

3,

().

4,

().

D

:

1, " " .

2, .

3, (:

).

A = ()

*

.

4,

.



3.2.18.1 A i pa

C A

Editing main New M CMD Main Module New Module

0:25 PENNING-X:Pos1:0.000 Pos2:600.000 Speed:80.0 Num:5 Delay:2.00

1:3 Program End Paste Edit

Insert ☒ Axis Fly ☐ Analog Control

☐ Delta Jump Control

☐ Safe Range Control ☐ Single Stack

Axis Sel X

AxisFly Pos1 0.000 mm Set In

AxisFly Pos2 600.000 mm Set In

AxisFly Speed 80.0 %

AxisFly Num 5 Times

Delay 2.00 s

Menu

A i Sel (A i elec ion):

A i FI Po 1(S a ing po i ion):

A i FI Po 2(End po i ion):

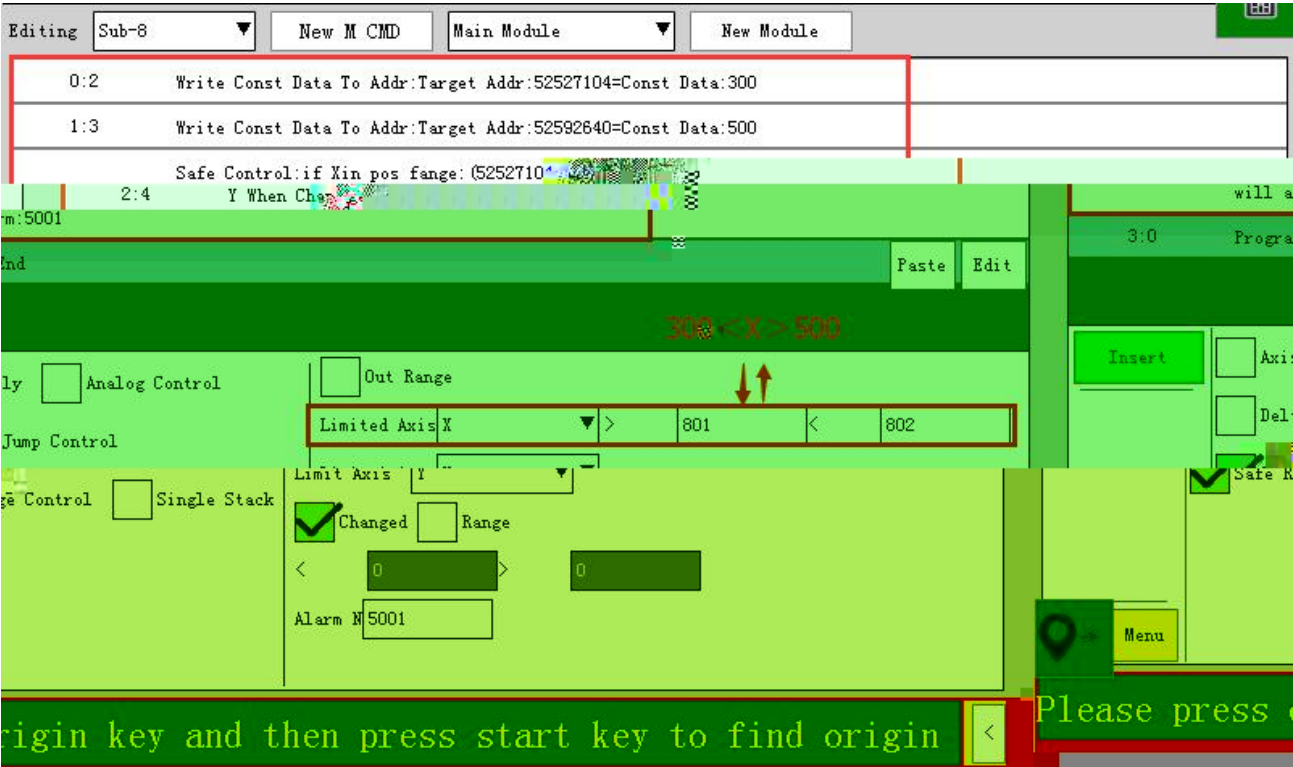
A i FI Speed:

A i FI N m:

Dela :

3.2.18.2 Safe Zone

C



8(-8),

(801 899)

801 899.

E :

300 500 0 100,

"5001"

1: L

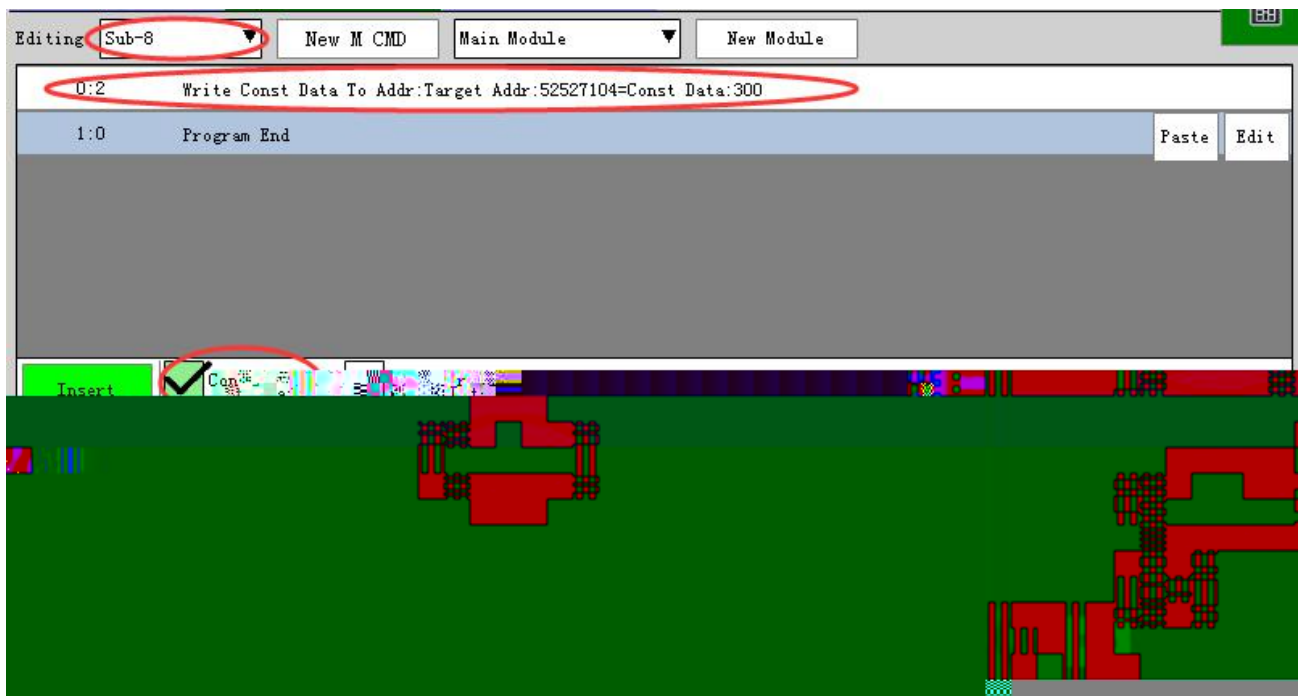
:

H 801/802

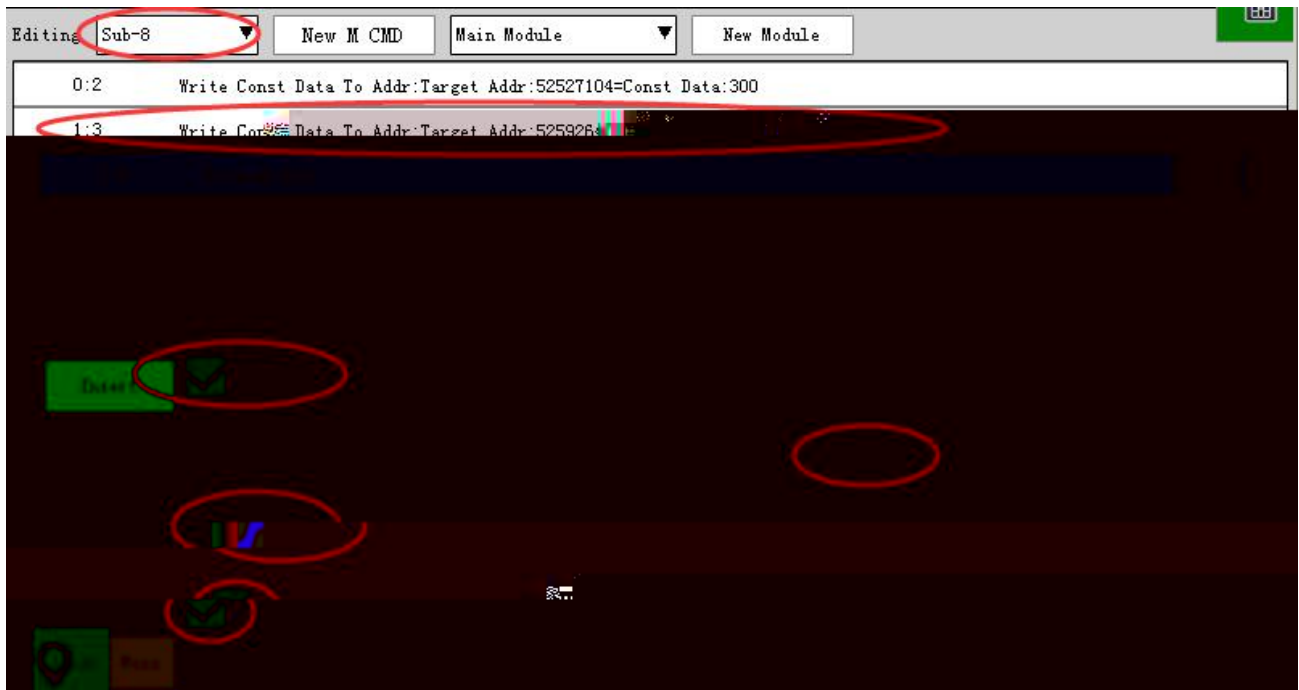
,

:

() :



():



Step 2: Set the condition for limiting the axis

Condition 1: ()
"5001"

Insert

☐ Axis Fly

☐ Analog Control

☐ Delta Jump Control

☒ Safe Range Control

☐ Single Stack

Menu

☐ Out Range

Limited Axis X > 801 < 802

Limited Axis Y

☒ Changed ☐ Range

< 0 > 0

Alarm N 5001

Condition 2: () 0 100,
"5001".

6:0 Program End

Paste Edit

Insert

☐ Axis Fly

☐ Analog Control

☐ Delta Jump Control

☒ Safe Range Control

☐ Single Stack

Menu

☐ Out Range

Limited Axis X > 801 < 802

Limited Axis Y

☐ Changed ☒ Range

< 804 > 803

Alarm N 5001

803/804
:

IE ():

Editing Sub-8 New M CMD

Safe Control:if Xin pos fange: (52527104, 52592640)
Y When Changed
will alarm:5001

3:5 Write Const Data To Addr:Target Addr:52723712=Const Data:0

4:6 Write Const Data To Addr:Target Addr:52723712=Const Data:100

5:7 Safe Control:if Xin pos fange: (52527104, 52592640)
Y out pos fange: (52723712, 52658176)
will alarm:5001

6:0 Program End

Edit Insert ☒ Const Data ☐ Addr Data

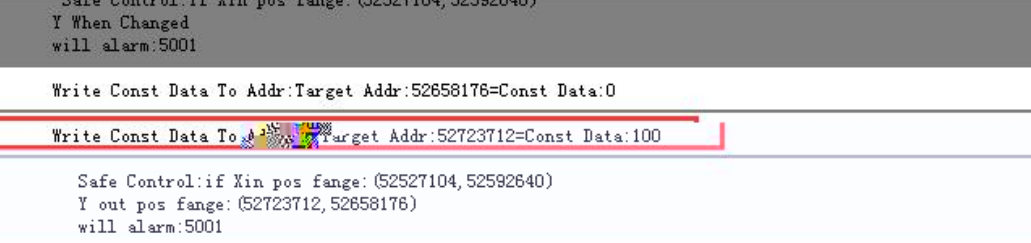
Addr Target: startPos 0 size 32 baseAddr 803 decimal 0

Data: 0

Save

•

•



The screenshot shows the WinCC Graphics Designer interface. The 'Data' table is highlighted in blue. The 'Data' column is set to '100'. The 'Address' column is set to '1804'. The 'Data' table is located in the 'Data' section of the 'Table' palette.

E

1:

2:

$$: E$$

1:

2:

Insert Menu	☐ Axis Fly ☐ Analog Control	Axis X
	☐ Delta Jump Control	☒ Rel Points ☐ PP Start Pos FPO: ▼ Set In
	☐ Safe Range Control ☒ Single Stack	☐ Addr Space 0.000 mm
		Count 50
		Speed 80.0 %
		Counter Self

3:

1: E

2:

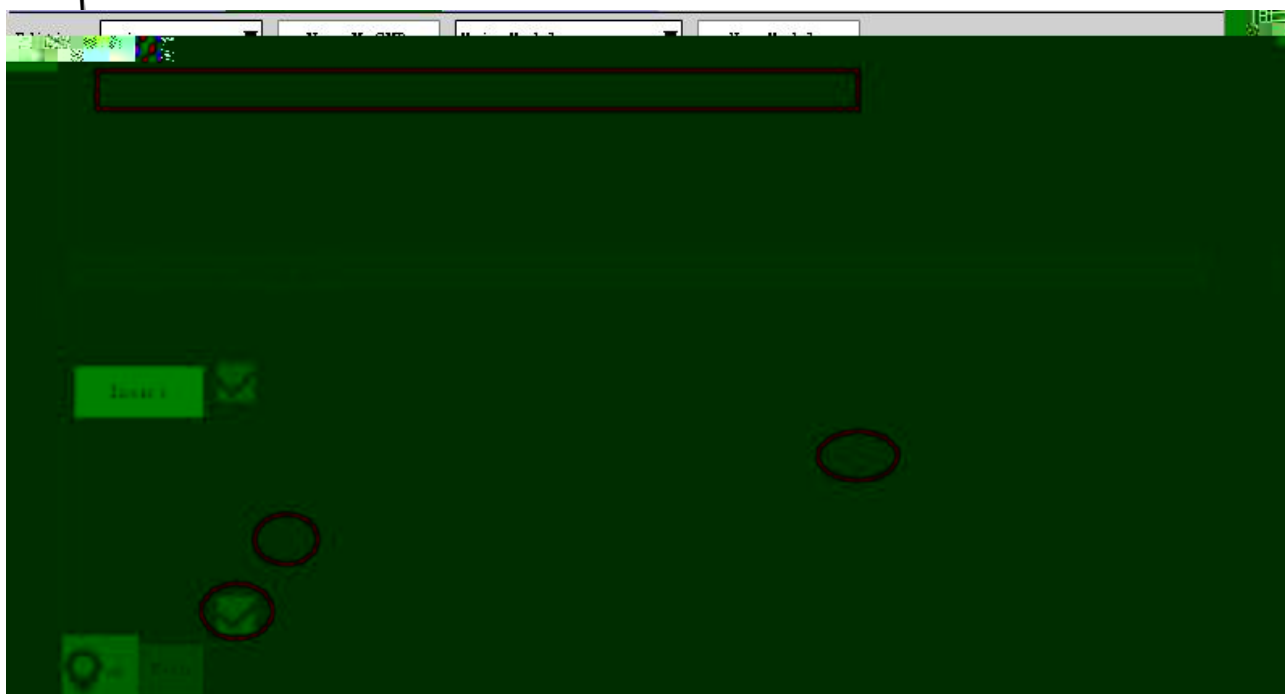
6

D C

. F

50,

:



(801,

)

Editing

main

New M CMD

Main Module

New Module

0:28	Write Const Data To Addr:Target Addr:52527104=Const Data:50	
1:31	Single Stack-X:RP Start Pos:FPO: (0) space:50.000 count:50 Counter:Self speed:80.0	
#2:29	Single Stack-X:RP Start Pos:0.000 space:50.000 count:50 Counter:Self speed:80.0	
3:3	Program End	Paste Edit

Insert

Axis Fly

Axis X

Rel Points

PP Start Pos

FPO:

Set In

Delta Jump Control

Addr Space

50.000

mm

Safe Ranges

Single Stack

50

80.0

%

Counter

Self

Menu

4:

5:

6:

3.3 Manual operation

3.3.1Signal output



1,

4 S op a e

4.1.1 Product

C



-



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-

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: 1,

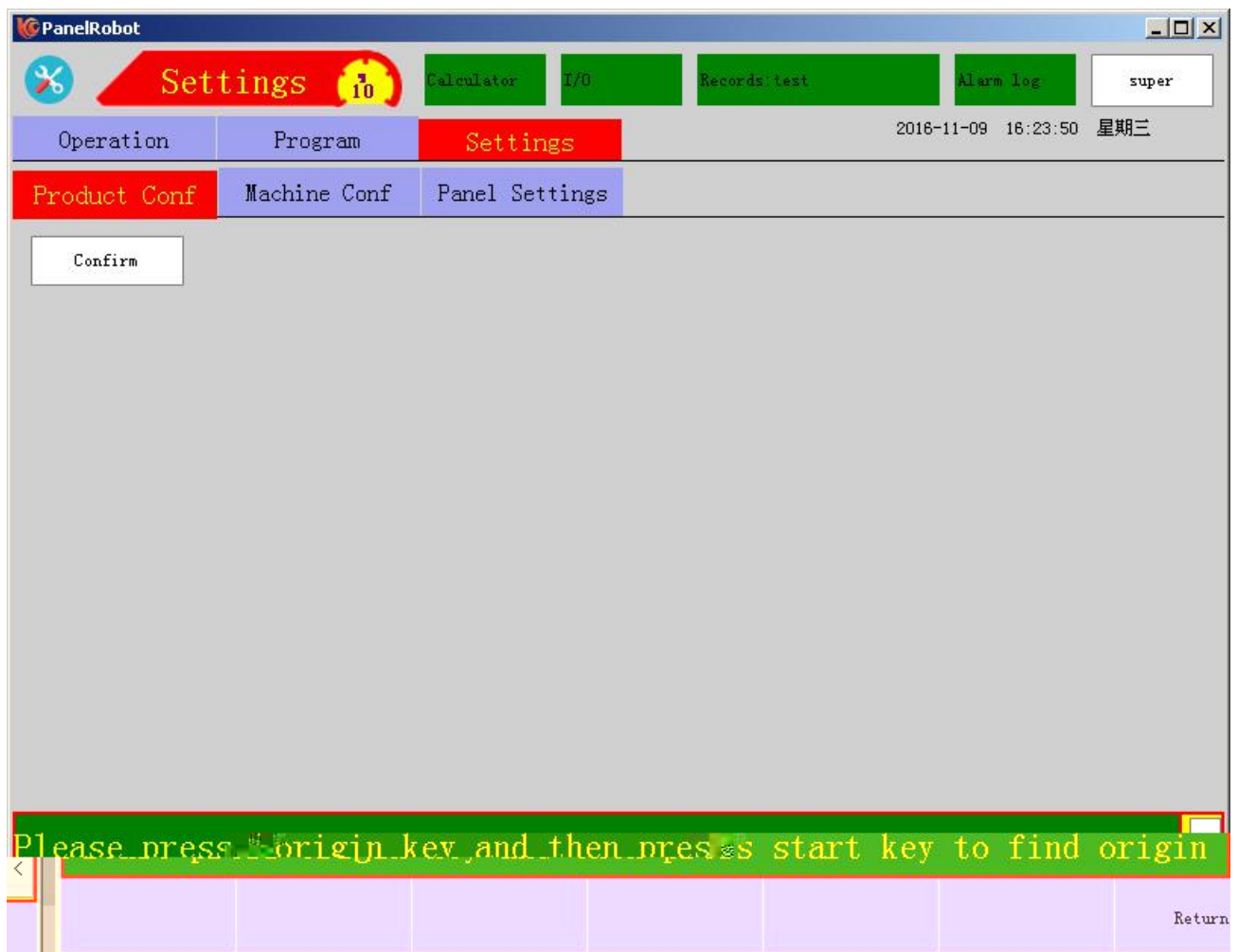
.

2,

" " " " 8(-8) . B
8 (/ /)

4.1.2 Valve setting

C



4.2 Mechanical Setting

C Mechanical Setting



4.2.1 Opening panel

C



PanelRobot

Settings 10 Calculator I/O Records: test Alarm log super

Operation Program Settings 2016-11-09 16:25:28 星期三

Product Conf Machine Conf Panel Settings

Tolerance 500000 Pulse ☐ Turn Auto Speed 10 % Alarm Times 0 Times

☒ Independent Manual Speed

X Manual Speed 0.0 Y Manual Speed 0.0 Z Manual Speed 0.0

U Manual Speed 0.0 V Manual Speed 0.0 W Manual Speed 0.0

Please press origin key and then press start key to find origin

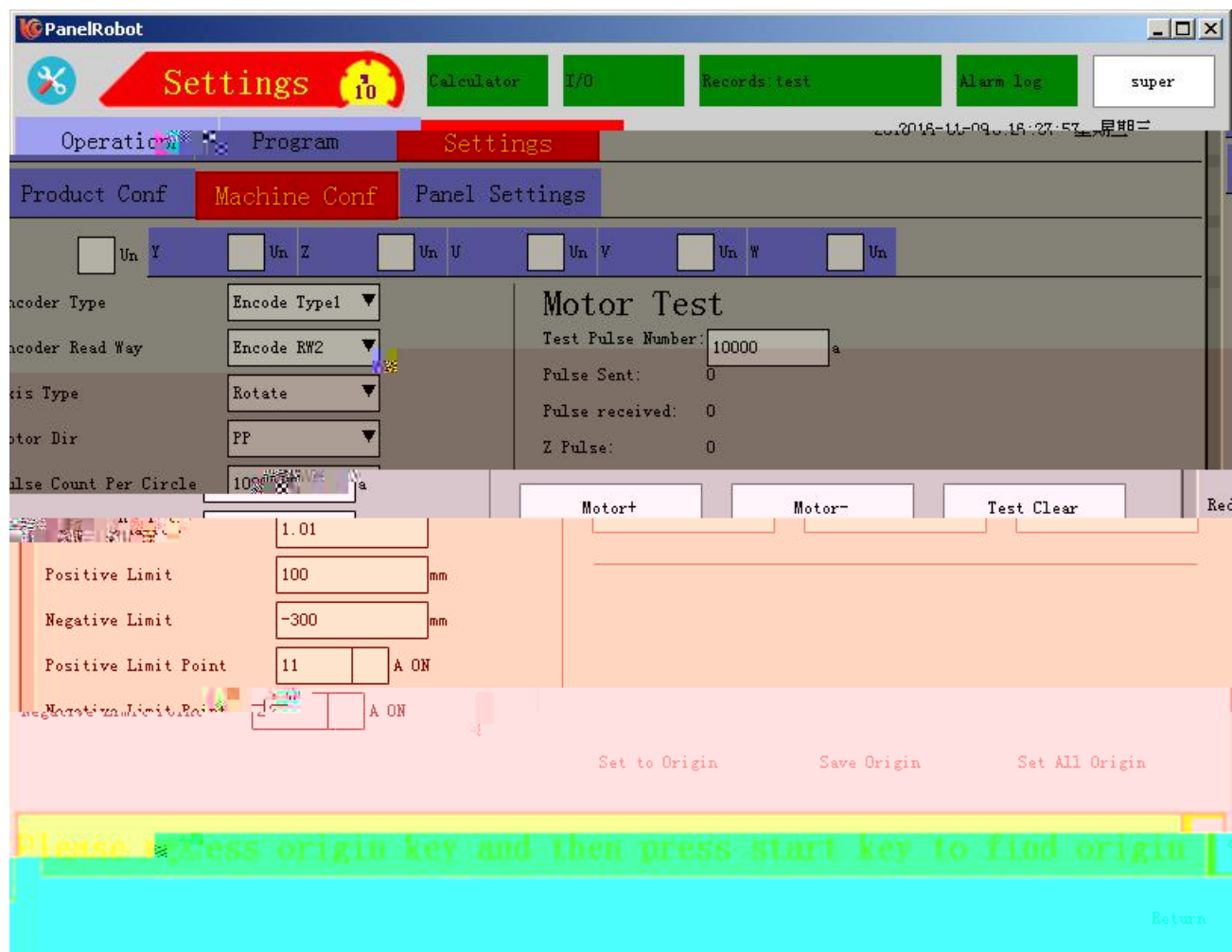
Return

Tolerance:

Turn Auto Speed: -

Alarm Time : 013

Independent Manual speed: C



A i e: A , , " "

Encode Read Wa : A, "H", "A", "

A i T pe: " " " " " "

Mo o Di : " ", "CA ", " 485".

Mo o Di : _____.

P l e C o n P e C i c l e:

Red c ion Ra io:

, " " .
 , 25 / ,
 : = 1, 1: 60: 1.

Po i i e Limi :

Nega i e limi :

Value	Input	Value	Input	Value	Input	Value	Input
0	Not use						
1	X10	9	X20	17	X30	25	X40
2	X11	10	X21	18	X31	26	X41
3	X12	11	X22	19	X32	27	X42
4	X13	12	X23	20	X33	28	X43
5	X14	13	X24	21	X34	29	X44
6	X15	14	X25	22	X35	30	X45
7	X16	15	X26	23	X36	31	X46
8	X17	16	X27	24	X37	32	X47

Nega i e limi poin :

. I ,
 , D
 :

Value	Input	Value	Input	Value	Input	Value	Input
0	Not use						
1	X10	9	X20	17	X30	25	X40
2	X11	10	X21	18	X31	26	X41
3	X12	11	X22	19	X32	27	X42
4	X13	12	X23	20	X33	28	X43
5	X14	13	X24	21	X34	29	X44
6	X15	14	X25	22	X35	30	X45
7	X16	15	X26	23	X36	31	X46
8	X17	16	X27	24	X37	32	X47

O igin :

,
 " "

Accele a ion ime(ACC 1):

Decele a ion ime(ACC 2):

Maximum speed (Max RPM):

Motor +: , 10000,

Motor -: , 10000, 55536

Serial Origin: " "

" A " " " .

4.2.3 S c al pa ame e

C



Settings

10

Calculator

I/O

Records: test

Alarm log

super

Operation

Program

Settings

2018-11-09 11:29:28 星期三

Product Conf

Machine Conf

Panel Settings

SACC 1

0

% SACC

0.000

m/s²

SACC 2

0

% SDec Time

0.000

m/s²

SDEC 1

0

% SACC Max

0.000

m/s

SDEC 2

0

%

Analog En

Machine

0.000

mm

Machine

0.000

mm

L12

0.000

mm

Axis3 Di

0.000

L01

410.000

mm

L34a

125.000

mm

L24

0.000

mm

Axis4

0.000

0.000

333.000

0.000

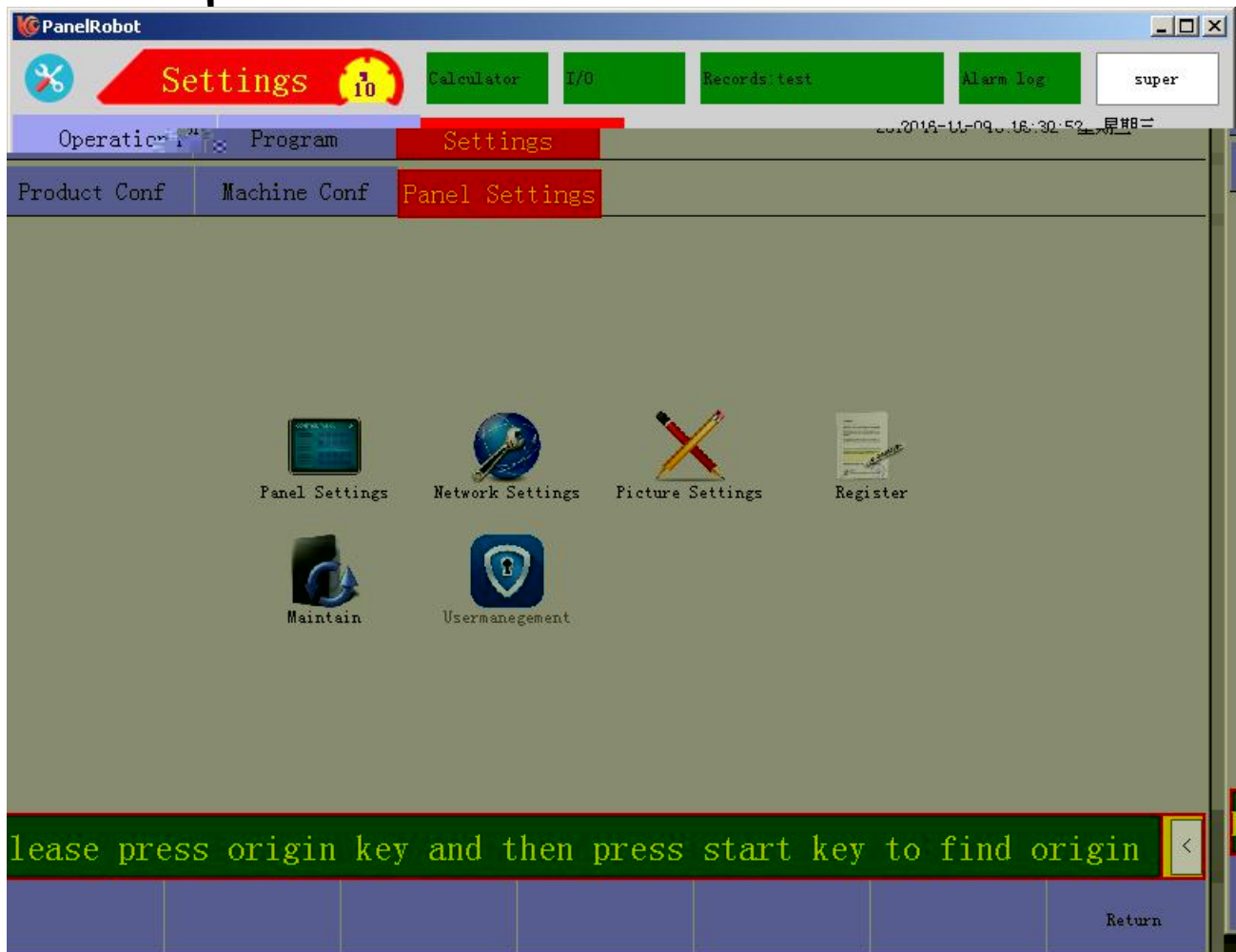
0.000

Please press origin key and then press start key to find ori

4.3S c al pa ame e

C

:



4.3.1 Manual e ing

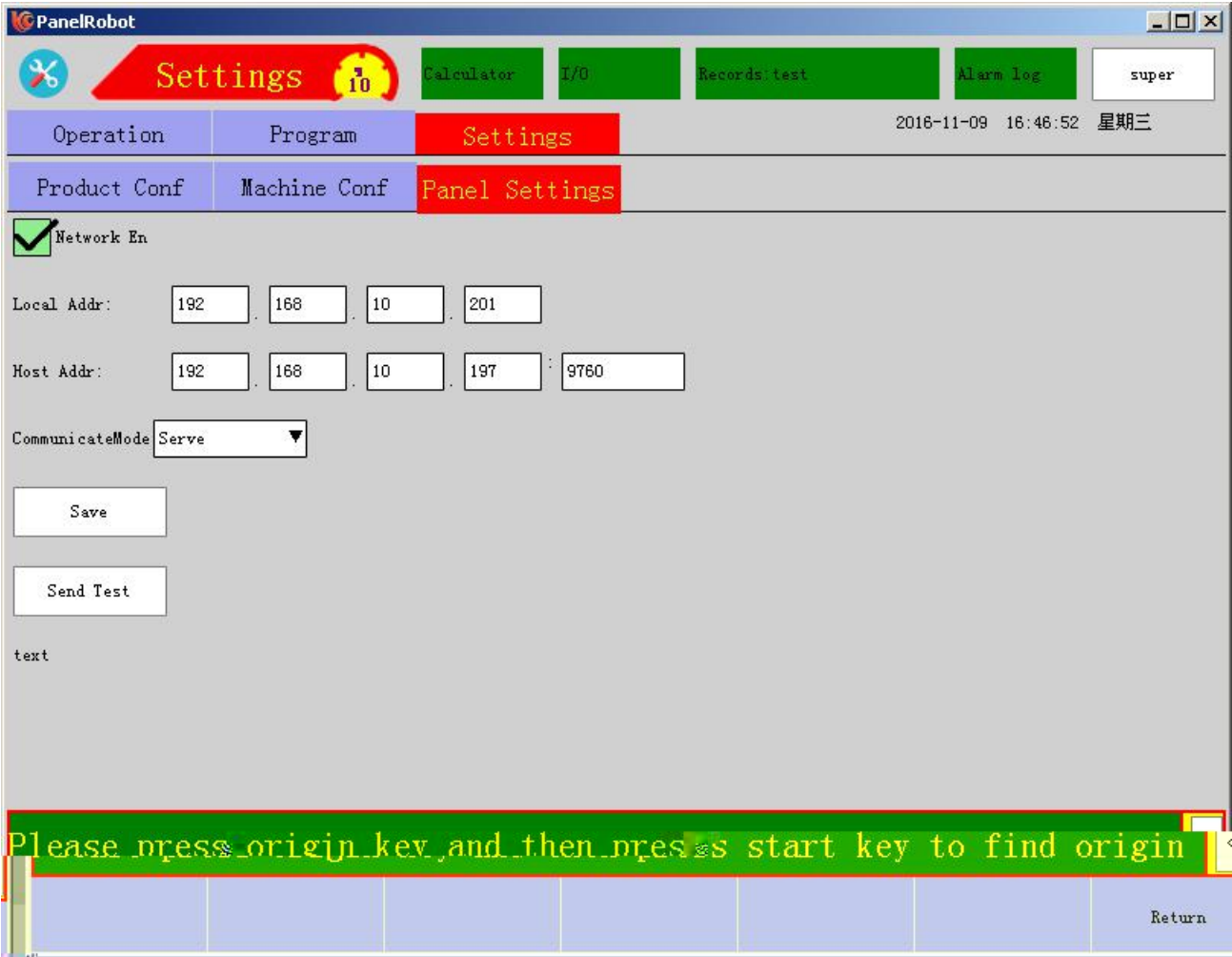
C -

F5 F3 F4 F3 F2 F3 F1 F5

| ,

4.3.2Network Configuration

C



| :

1,



2,

|

- 3, | .
- 4, .
- 5, .
6. C D .
- 7, .

4.3.3Picture editing



:

1, :

I : : * H 800 * 600 (:).

: * 800 * 400 (:).

F :

2,I HC ,

3,I ,

, ,

4,I ,

- .

4.3.4 Registration



1,

2,

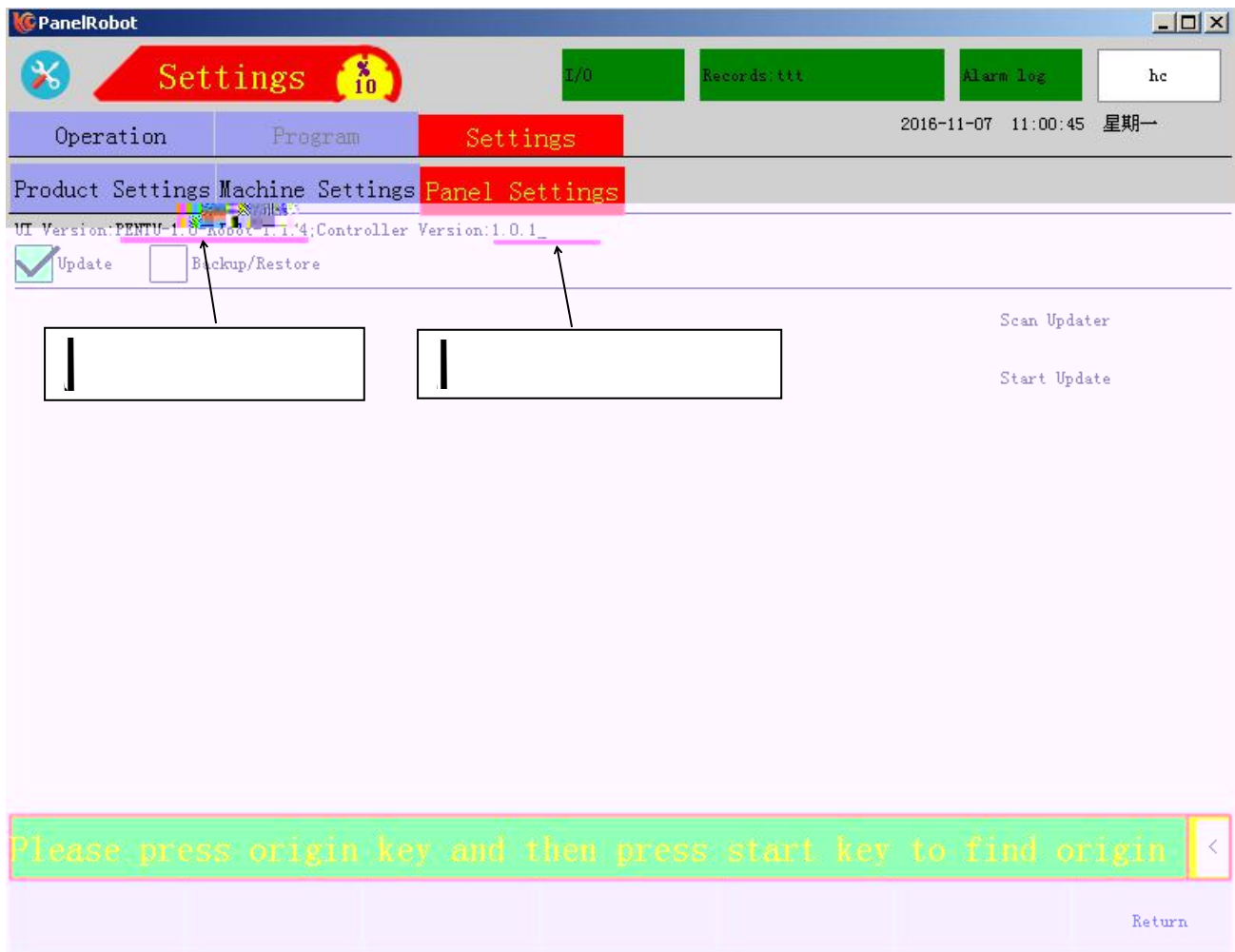
3,

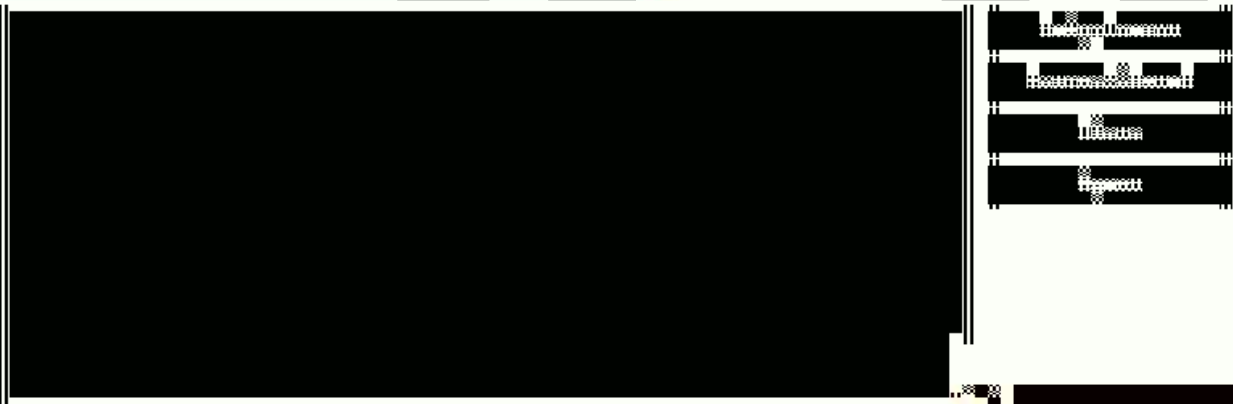
"

4. C

4.3.5 Main ain

C





Machine nning:

HMI Config :

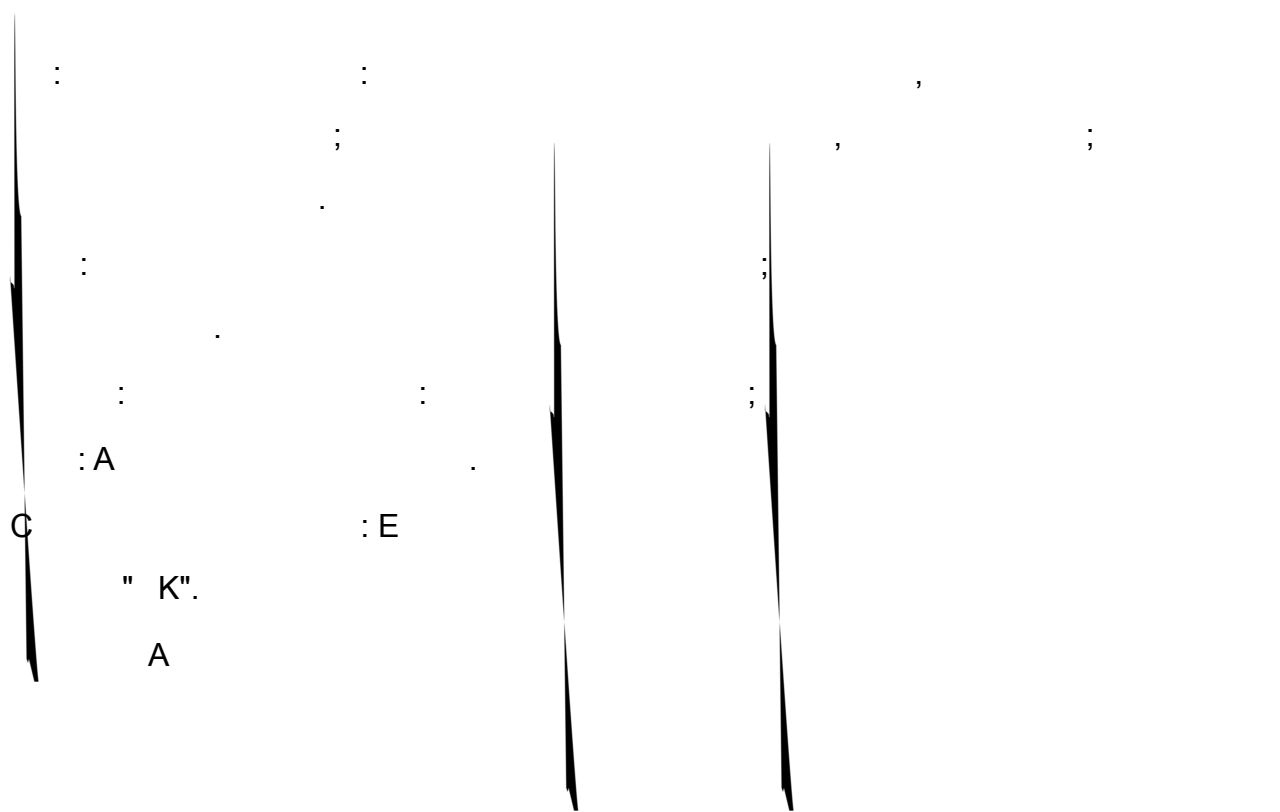
Gho : e

Upda e :

h o gh p

Back p ope a ion flo : C (/ /)

Re o e p oce : C da (/)



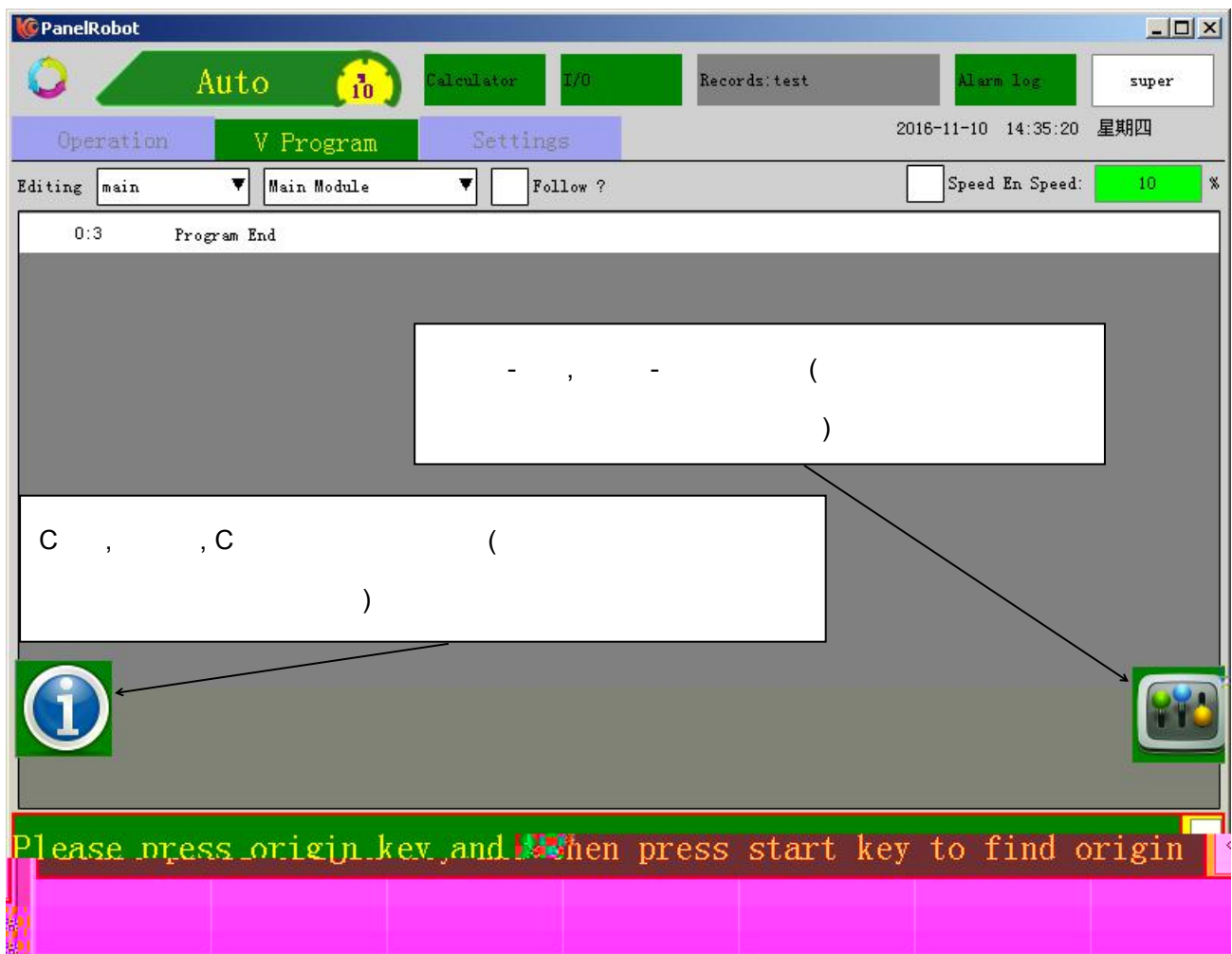
D : C D .

5 Automatic

" " :

| , ,

.



:A ,

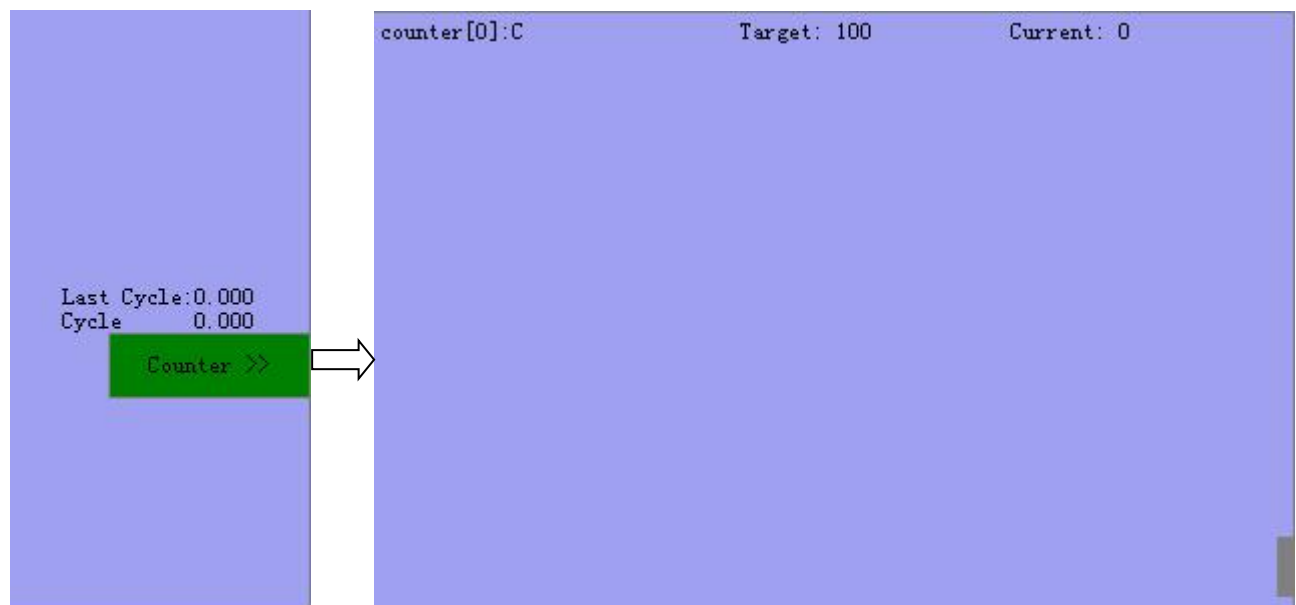
F :

- : - .

- :

C :

C D B : C



6 Alām information and alām ea on

E 1		
E 2		
E 3		
E 4		
E 5		
E 6		

E 7		1, 2,
E 8		1
E 9		
E 10		
E 11		
E 12		
E 13	/	
E 14	FLA H	FLA H
E 15	I	1, 2, I
E 16		
E 17		

E 18		
E 19		
E 20	I 2	1, . 2, I .
E 21	I 3	1, . 2, I .
E 22	I 4	1, . 2, I .
E 23		
E 24	F GA	
E 90	1	1, ;

E 91	2	1, ;
E 92	3	1, ;
E 93	4	1, ;
E 94	5	1, ;

E 95	6	1, ;
E 96	7	1, ;
E 97	8	
E 100	1	1,

E 101	2	1, 2, 3,
E 102	3	1, 2 , 3 ,
E 103	4	1, 2, 3

E 104	5	1, 2, 3,
E 105	6	1, 2 , 3 ,
E 106	7	1, 2 , 3,

E 107	8	1, 2, 3,
E 110	1	
E 111	2	
E 112	3	
E 113	4	
E 114	5	
E 115	6	
E 116	7	
E 117	8	

E 120	1	1 ,
E 121	2	
E 122	3	
E 123	4	
E 124	5	
E 125	6	
E 126	7	
E 127	8	
E 130	1	1, 2,

E 131	2	1 , 2 ,
E 132	3	1 , 2 ,
E 133	4	1 , 2 ,

E 134	5	1 , 2 ,
E 135	6	1 , 2 ,
E 136	7	1 , 2 ,

E 137	8	1, 2 ,
E 140	1	1, 2 ,
E 141	2	1 2 ,

E 142	3	1 , 2 ,
E 143	4	1 , 2 ,
E 144	5	1 , 2 ,

E 145	6	1, 2 ,
E 146	7	1 , 2 ,
E 147	8	1, 2 ,

E 150	1	-> , 1 , 2 ,
E 151	2	-> , 1 , 2 ,

E 157	8	-> , 1, 2,
E 160	1	1
E 161	2	1
E 162	3	1
E 163	4	1

E 164	5	1
E 165	6	1
E 166	7	1
E 167	8	1
E 170	1	1, 2, 3 ,

E 171	2	1, 2 , 3,
E 172	3	1, 2, 3,
E 173	4	1, 2 , 3,

E 174	5	1, 2 , 3,
E 175	6	1, 2 , 3,
E 176	7	1, 2, 3,

E 178	8	1, 2, 3,
E 180	1	1 , 2, 3,
E 181	2	1, 2, 3,

E 182	3	1, 2, 3,
E 183	4	1, 2, 3,
E 184	5	1, 2, 3,

E 185

6

2 ,

1 ,

E 190	1	
E 191	2	
E 192	3	
E 193	4	
E 194	5	

E 195	6	
E 196	7	
E 197	8	
E 200		
E 201		
E 202		

E 203

E 204

E 205

E 206

E 207

E 208

E 209

E 210

E 211

E 212

E 213

E 214

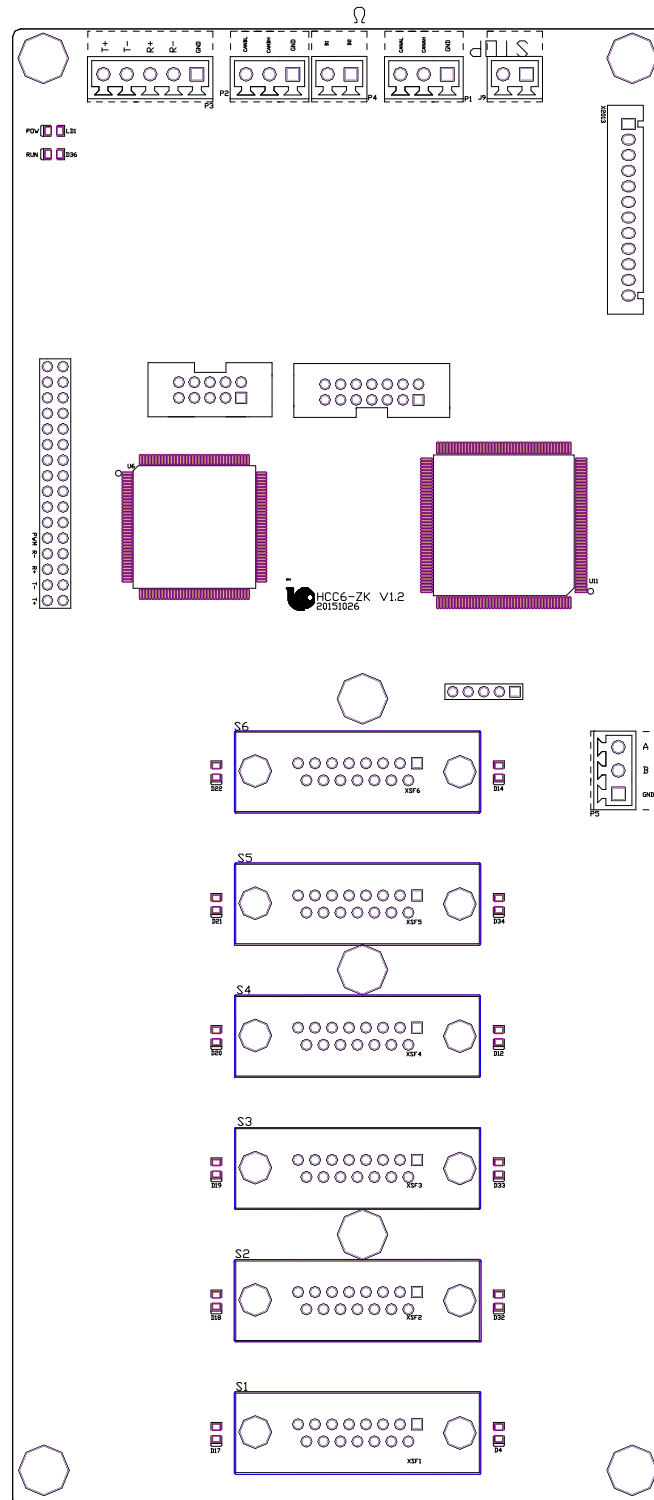
E 215		
E 216		
E 217		
E 218		
E 219		1 0 2
E 220		
E 221		1
E 222		1 2
E 223		

E 300		
E 500	1	
E 501	2	
E 502	3	
E 503	4	
E 504	5	
E 505	6	
E 506	7	
E 507	8	
E 510	1	
E 511	2	
E 512	3	
E 513	4	
E 514	5	
E 515	6	
E 516	7	
E 517	8	
E 520	1	
E 521	2	
E 522	3	
E 523	4	
E 524	5	
E 525	6	
E 526	7	
E 527	8	
E 530	1	

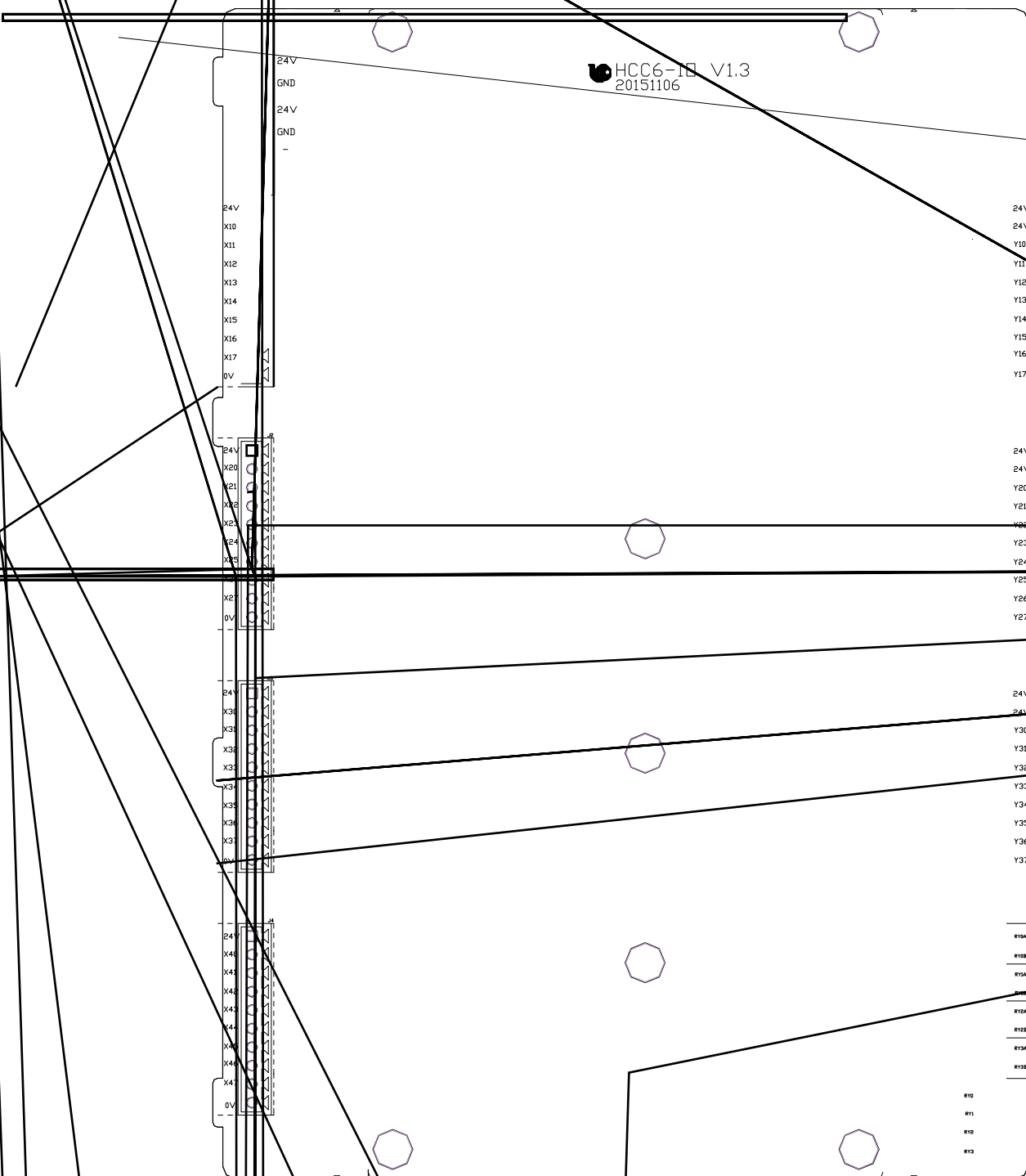
E 531	2	
E 532	3	
E 533	4	
E 534	5	
E 535	6	
E 536	7	
E 537	8	
E 2048	I	
E 4095	I 3583	
E 5000		
E 1000 0		

7 Board Power Definition

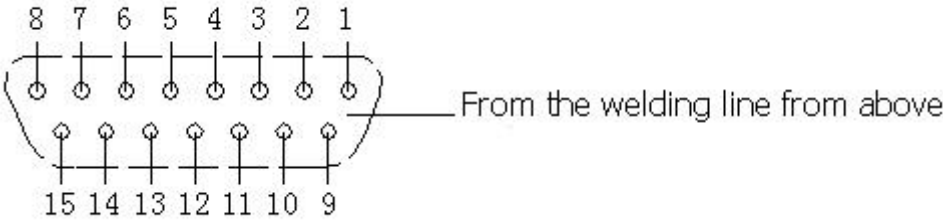
7.1 Main control board power definition



7.2 Po definition for the I/O board



7.3 Se o d i e in e face defini ion



I		I	
1	+24	9	0
2	A+	10	+
3	A-	11	-
4	B+	12	B AKE
5	B-	13	+
6	+	14	-
7	-	15	AL
8			

8 Wi ing diag am

8.1 The e o connec ion and pa ame e e ing

C , 500K , .

8.2 E ample Pana onic e o mo o ed

A5

C		
0.01	C	0
0.07	C	1
0.08		10000
0.11		2500

Pana onic A5 Se o d i e i ing

C			(A5)		
I			I		
10	+	F	3	L 1	C 1
11	-		4	L 2	
13	+		5	IG 1	C 2
14	-		6	IG 2	
2	A+	A F	21	A+	A
3	A-		22	A-	
4	B+	B F	48	B+	B
5	B-		49	B-	
6	+	F	23	+	
7	-		24	-	
1	+24	+24	7	C +	E +
9	0	24	41	C -	E -
			36	AL -	-
			10	B K FF-	-
15	AL	-	37	AL +	+
8			29	-	
L (0)			11	B K FF+	+

8.3 U ing Mi bi hi e o mo o eco d

Mi bi hi MR-E Se o d i e pa ame e

(131072 /)

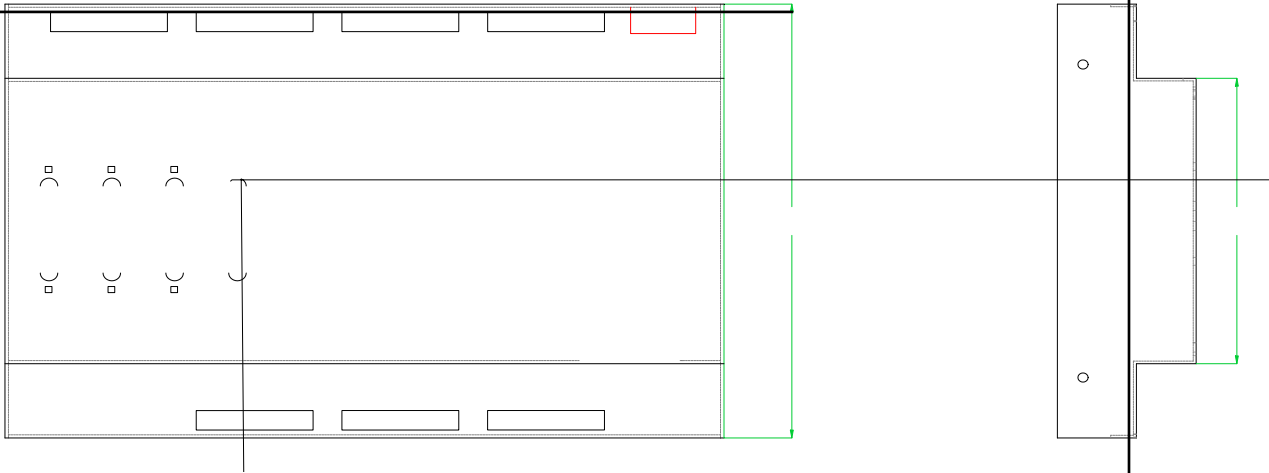
C		
.0	C	0
.1	F 1 (C 1-12)	0012
.3	E	14
.4	E	1
.21	C	0000
.27	E	14
.54	F 9 ()	1***

Mi bi hi MR-E Se o d i e i ing

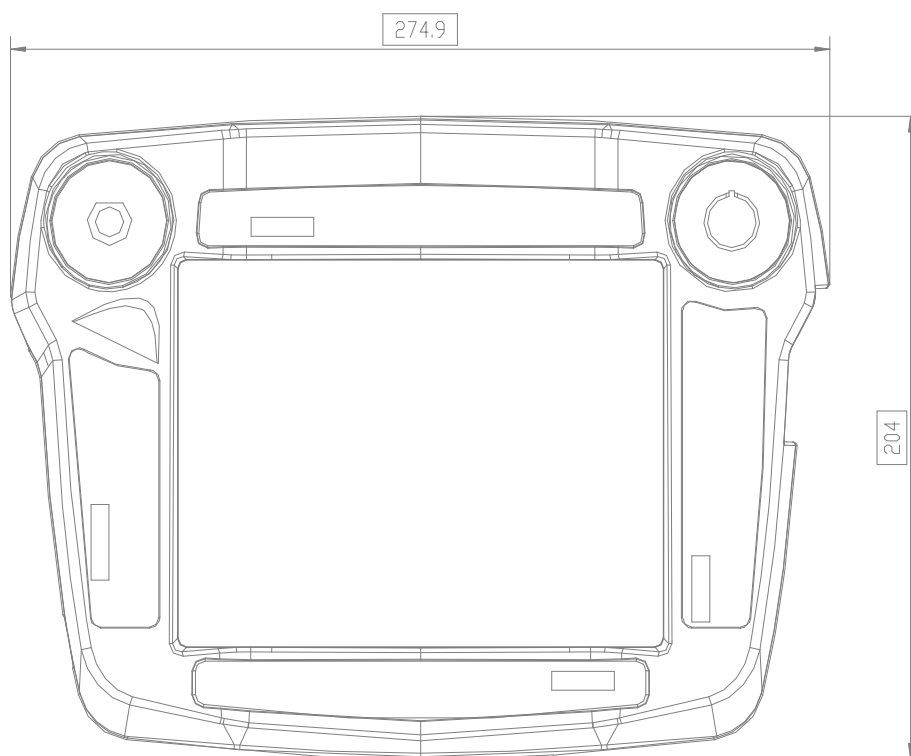
C			-E		
I			I		
10	+	F	23		C 1
11	-		22	G	
13	+		25		C 2
14	-		24	G	
2	A+	A F	15	LA	A
3	A-		16	LA	
4	B+	B F	17	LB	B
5	B-		18	LB	
6	+	F	19	L	
7	-		20	L	
1	+24	+24	1	I	E DC24 +
9	0	24	13	G	E DC24 -
15	AL	-	9	AL	F
8			4		
L (0)			12	B	E
C 1 : 6 (L) 7(L) 8(E) G) A 13 (G)					

9 Si e cha

9.1 Boa d me al ca e i e



9.2 Hand con olle



The technical drawing illustrates the dimensions for a metal cabinet. The main view shows a rectangular frame with a total width of 915 mm and a height of 820 mm. Key features include:

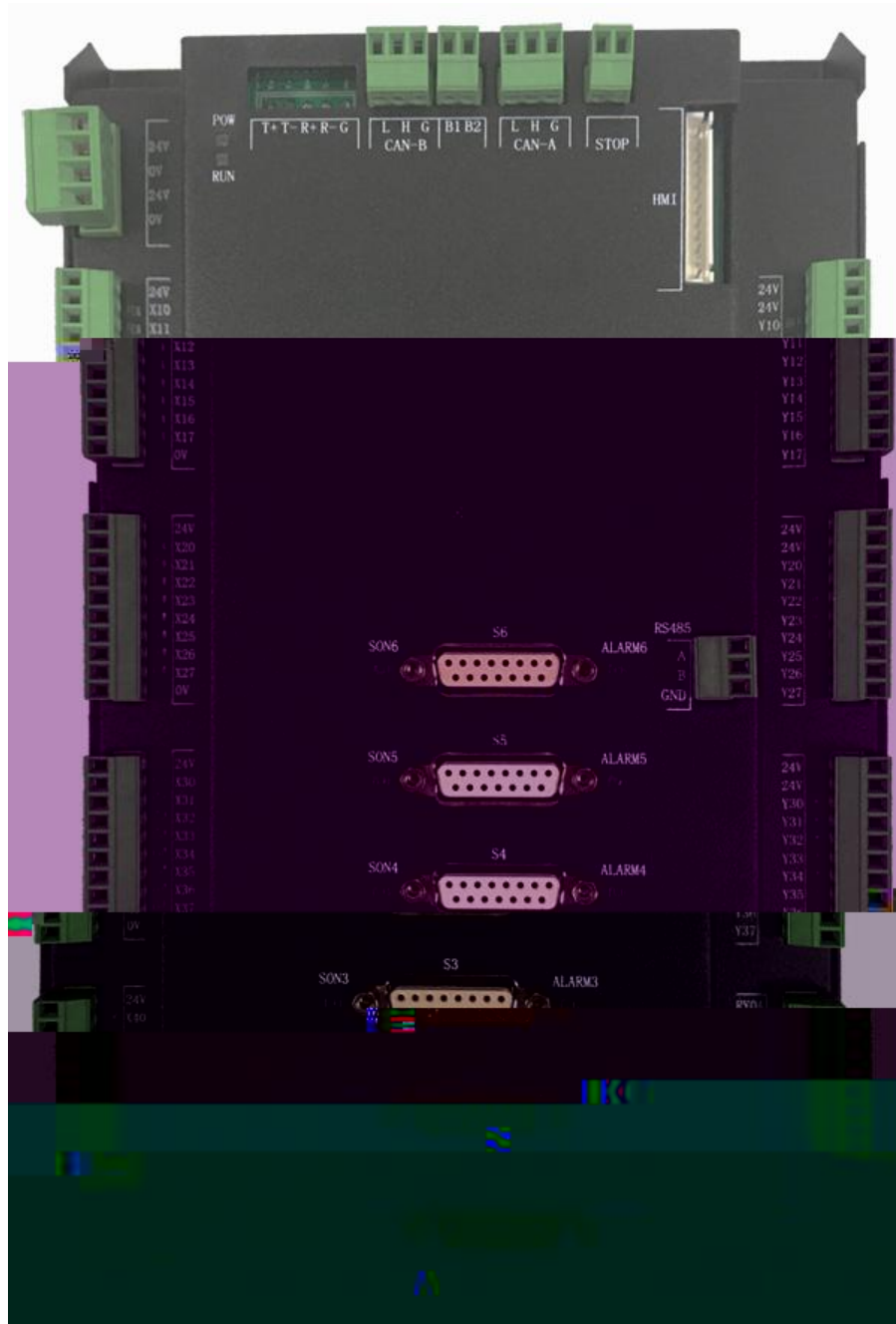
- Top Edge:** A horizontal rail with a diameter of $\phi 3.2$ and a distance of 5.8 mm from the top edge.
- Right Side:** A vertical stack of five drawers or compartments, numbered 1 to 5 from bottom to top. The total height of this section is 810 mm. Individual drawer heights are 160 mm (bottom), 170 mm, 170 mm, 170 mm, and 170 mm (top).
- Internal Structure:** A central area labeled "Double teeth" with "4-M3 screw holes".
- Bottom Edge:** A base plate with a thickness of 3.5 mm and a height of 36.5 mm.
- Side View:** A partial view on the right showing the profile of the drawers and their internal components.

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Anne 1

Mo he boa d appea ance



This product impedes the same information being
brought to change, in his opinion.