# Consew CN2073R-DSM

## Control Panel Manual
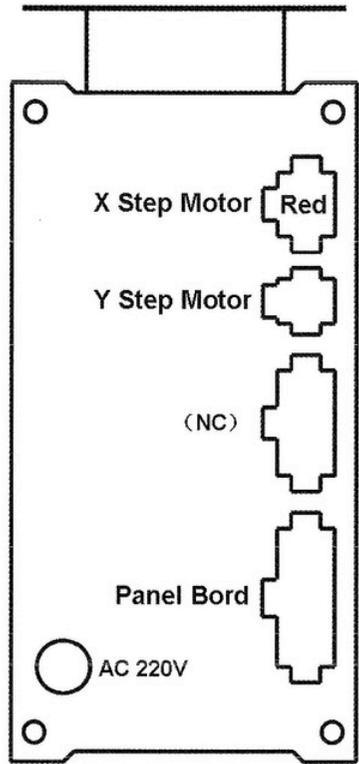
# 目 录

## Contents
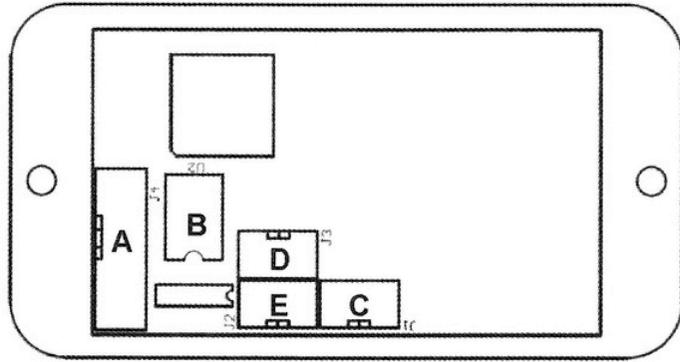
# 3 Hardware Instruction

## 3.1 External Interface of Ctrl-Box

X Step Motor [Red]

Y Step Motor

(NC)

Panel Bord

AC 220V

## 3.2 Panel-Board Interface

A

B

D

E

C

Panel-Baord

| Socket /IC | Description |
|---|---|
| A（J4 White 7-Pins socket） | To control box Signal socket |
| B（U2 pattern chip） | Custom pattern chip |
| C（J1 Red 3-Pins socket） | X motor zero sensor socket |
| D（J3 White 3-Pins socket） | Syn sensor socket |
| E（J2 Black 3-Pins socket） | Y motor zero sensor socket |

**Notice：** When Custom pattern chip removed, the system can still work normally! But only keep own patterns, customized patterns will no longer exist, pattern width is default 8.0 mm at the same time, can be changed only when setting, cannot be saved after the power off.
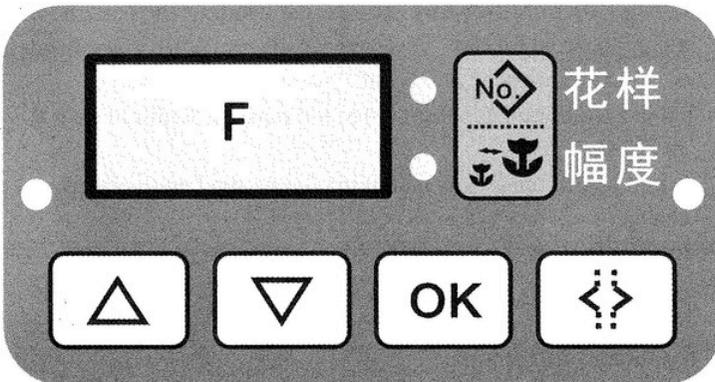
## 3.3 Power specification

Supply voltage: Single-phase, AC 220 V ＋/－20%
Operating Current：Average Current is less than 1.2 A, Peak Current is less than 2 A.

# 4 Interface and instructions

## 4.1 Interface specification



Panel interface

| key/window | Description |
|---|---|
| F（**Display window**） | By three red LED display |
|  | Pattern Width、 Pattern No. and Stitch Length selection Key |
| △ | Add Key |
| ▽ | Dec Key |
| OK | Confirm Key |
| ⟨⟩ | Pattern image mirror Key |
|  | Indicator light, indicates Pattern Width 、 Pattern No. or Stitch Length |

## 4.2 Operating instructions

1、 System allows clients to 4 items change operation：Pattern No. 、Pattern width、Stitch Length and Pattern Mirror，The Pattern No.、Pattern width、Stitch Length by selection Key selected first, and the corresponding indicator light display.

2、For OK key, the user to change pattern No, pattern width, Stitch Length and pattern mirror, all need to press the it to confirm.

3、 Each press OK Key, the system will go to Zero point. The system will automatically go to zero one time after power on。

4、 When Pattern Mirror Key pressed, the width of the pattern will show a "r", again according to the "r" disappear. Pattern Mirror operation is real-time, is not saved after the power off.

5、Pattern width range is from 0.0 to 9.0 mm, the width of each 0.1 mm can be changed.

6、 Stitch length range is from 0.0 to5.0 mm, the length of each 0.1 mm can be changed.

7、System Pattern No. from 1 to 300 variable (System specifications different, pattern number. is different). Custom Pattern No. from 201 to 230 variable (System specifications different， number of custom Pattern allows to customize different）

## 4.3 Sensor checking

Press OK key when power on, the system of "PA1" into the interface（Through the △ or ▽ key to choose PA1, PA2 and PA3）And then press OK to show the "L" or "H", covering or opening sensor repeatedly, to observe such as "L" and "H" reverse changed, sensor is good, instead of failure. In the condition of "PA1", "PA2"or "PA3"long press OK key to exit. PA1 corresponding X motor sensor，PA2 corresponding synchronous sensor, and PA3 corresponding Y motor sensor.
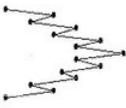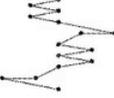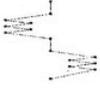
## 4.4 Alarm

1、When the zero sensor failure, motor fault, connection failure, mechanical jammed, and reaction plate specifications or position is not correct, system will alarm "E -1/ 2/3" during power on or pressing OK key.

2、When a customer pattern chip does not exist, system does not alarm during power on, system can work normally without custom patterns.

3、Synchronous sensor signal is abnormal, the motor will not move, but the system doesn't alarm. System can go to zero normally.
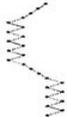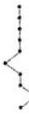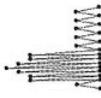
附录 1：单轴系统花样(基本版)

**Appendix 1: Single-axis System Pattern (Basic Ver.)**

単轴系统花样（1）
Single-axis System Pattern（1）

| 花样号 Pattern No | 花样图案 Pattern Figure | 花样号 Pattern No | 花样图案 Pattern Figure | 花样号 Pattern No | 花样图案 Pattern Figure |
|---|---|---|---|---|---|
| 1 | | 11 | | 21 | |
| 2 | | 12 | | 22 | |
| 3 | | 13 | | 23 | |
| 4 | | 14 | | 24 | |
| 5 | | 15 | | 25 | |
| 6 | | 16 | | 26 | |
| 7 | | 17 | | 27 | |
| 8 | | 18 | | 28 | |
| 9 | | 19 | | 29 | |
| 10 | | 20 | | 30 | |

单轴系统花样（2）
Single-axis System Pattern（2）

| 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure |
|---|---|---|---|---|---|
| 31 | | 41 | | 51 | |
| 32 | | 42 | | 52 | |
| 33 | | 43 | | 53 | |
| 34 | | 44 | | 54 | |
| 35 | | 45 | | 55 | |
| 36 | | 46 | | 56 | |
| 37 | | 47 | | 57 | |
| 38 | | 48 | | 58 | |
| 39 | | 49 | | 59 | |
| 40 | | 50 | | 60 | |

11

単轴系統花様（3）
Single-axis System Pattern（3）

| 花様号<br>Pattern No | 花様图案<br>Pattern Figure | 花様号<br>Pattern No | 花様图案<br>Pattern Figure | 花様号<br>Pattern No | 花様图案<br>Pattern Figure |
|---|---|---|---|---|---|
| 61 | | 71 | | 81 | |
| 62 | | 72 | | 82 | |
| 63 | | 73 | | 83 | |
| 64 | | 74 | | 84 | |
| 65 | | 75 | | 85 | |
| 66 | | 76 | | 86 | |
| 67 | | 77 | | 87 | |
| 68 | | 78 | | 88 | |
| 69 | | 79 | | 89 | |
| 70 | | 80 | | 90 | |

12

単轴系统花样（4）
Single-axis System Pattern（4）

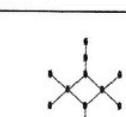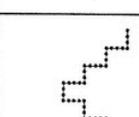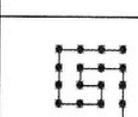| 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure |
|---|---|---|---|---|---|
| 91 | | 101 | | 111 | |
| 92 | | 102 | | 112 | |
| 93 | | 103 | | 113 | |
| 94 | | 104 | | 114 | |
| 95 | | 105 | | 115 | |
| 96 | | 106 | | 116 | |
| 97 | | 107 | | 117 | |
| 98 | | 108 | | 118 | |
| 99 | | 109 | | 119 | |
| 100 | | 110 | | 120 | |

13

# 单轴系统花样（5）
## Single-axis System Pattern（5）

| 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure |
|---|---|---|---|---|---|
| 121 | | 131 | | 141 | |
| 122 | | 132 | | 142 | |
| 123 | | 133 | | 143 | |
| 124 | | 134 | | 144 | |
| 125 | | 135 | | 145 | |
| 126 | | 136 | | 146 | |
| 127 | | 137 | | 147 | |
| 128 | | 138 | | 148 | |
| 129 | | 139 | | 149 | |
| 130 | | 140 | | 150 | |

14

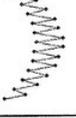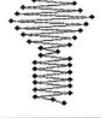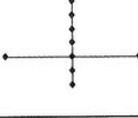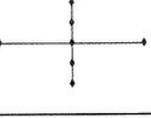| 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure |
|---|---|---|---|---|---|
| 151 | | 161 | | 171 | |
| 152 | | 162 | | 172 | |
| 153 | | 163 | | 173 | |
| 154 | | 164 | | 174 | |
| 155 | | 165 | | 175 | |
| 156 | | 166 | | 176 | |
| 157 | | 167 | | 177 | |
| 158 | | 168 | | 178 | |
| 159 | | 169 | | 179 | |
| 160 | | 170 | | 180 | |

15

# 附录 2：双轴系统花样(基本版)

# Appendix 2: Double-axis System Pattern (Basic Ver.)

双轴系统花样（1）
Double-axis System Pattern （1）

| 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure |
|---|---|---|---|---|---|
| 1 |  | 2 |  | 3 |  |
| 4 |  | 5 |  | 6 |  |
| 7 |  | 8 |  | 9 |  |
| 10 |  | 11 |  | 12 |  |
| 13 |  | 14 |  | 15 |  |
| 16 |  | 17 |  | 18 |  |
| 19 |  | 20 |  | 21 |  |
| 22 |  | 23 |  | 24 |  |
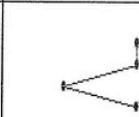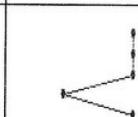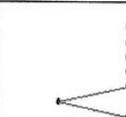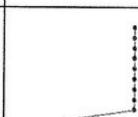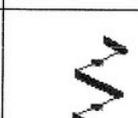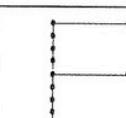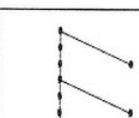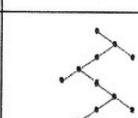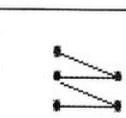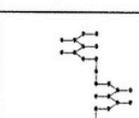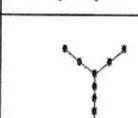
双轴系统花样（2）
Double-axis System Pattern（2）

| 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure |
|---|---|---|---|---|---|
| 25 | | 26 | | 27 | |
| 28 | | 29 | | 30 | |
| 31 | | 32 | | 33 | |
| 34 | | 35 | | 36 | |
| 37 | | 38 | | 39 | |
| 40 | | 41 | | 42 | |
| 43 | | 44 | | 45 | |
| 46 | | 47 | | 48 | |
| 49 | | 50 | | 51 | |
| 52 | | 53 | | 54 | |
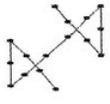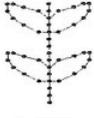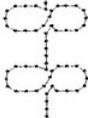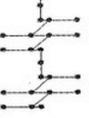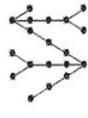
双轴系统花样（3）
Double-axis System Pattern（3）

| 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure |
|---|---|---|---|---|---|
| 55 |  | 56 |  | 57 |  |
| 58 |  | 59 |  | 60 |  |
| 61 |  | 62 |  | 63 |  |
| 64 |  | 65 |  | 66 |  |
| 67 |  | 68 |  | 69 |  |
| 70 |  | 71 |  | 72 |  |
| 73 |  | 74 |  | 75 |  |
| 76 |  | 77 |  | 78 |  |
| 79 |  | 80 |  | 81 |  |
| 82 |  | 83 |  | 84 |  |

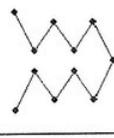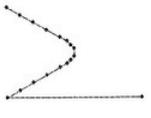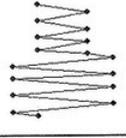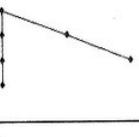| 花样号 Pattern No | 花样图案 Pattern Figure | 花样号 Pattern No | 花样图案 Pattern Figure | 花样号 Pattern No | 花样图案 Pattern Figure |
|---|---|---|---|---|---|
| 85 | | 86 | | 87 | |
| 88 | | 89 | | 90 | |
| 91 | | 92 | | 93 | |
| 94 | | 95 | | 96 | |
| 97 | | 98 | | 99 | |
| 100 | | 101 | | 102 | |
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| 106 | | 107 | | 108 | |
| 109 | | 110 | | 111 | |
| 112 | | 113 | | 114 | |
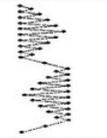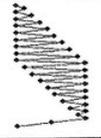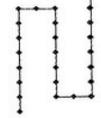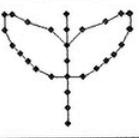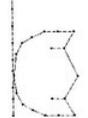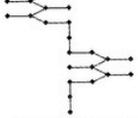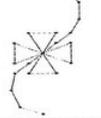
双轴系统花样（5）
Double-axis System Pattern（5）

| 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure | 花样号<br>Pattern No | 花样图案<br>Pattern Figure |
|---|---|---|---|---|---|
| 115 | | 116 | | 117 | |
| 118 | | 119 | | 120 | |
| 121 | | 122 | | 123 | |
| 124 | | 125 | | 126 | |
| 127 | | 128 | | 129 | |
| 130 | | 131 | | 132 | |
| 133 | | 134 | | 135 | |
| 136 | | 137 | | 138 | |
| 139 | | 140 | | | |

20

## 附录 3：系统产品规格及型号说明

LT-20U-<u>X</u>-<u>X</u> X-<u>XX</u>

22：AC220V
11：AC110V

N：普通型
F：防油型

A：系统花100个，客户花10个
B：系统花150个，客户花15个
C：系统花200个，客户花20个
D：系统花300个，客户花30个

S：单轴
D：双轴

机型

厂家代号
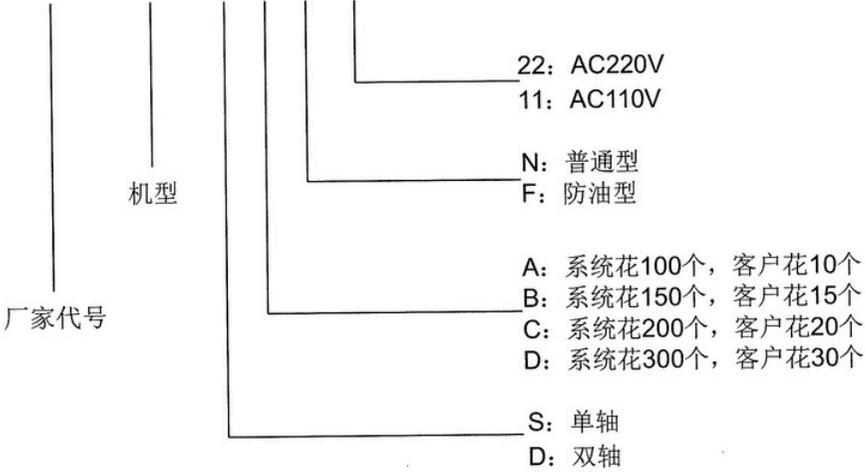
## Appendix 3：System specifications and Type

LT-20U-<u>X</u>-<u>X</u> X-<u>XX</u>

22：AC220V
11：AC110V

N：ordinary type
F：oil-proof type

A：Sys. Patt:100，Cus. Patt: 10
B：Sys. Patt:150，Cus. Patt: 15
C：Sys. Patt:200，Cus. Patt: 20
D：Sys. Patt:300，Cus. Patt: 30

S：Single-axis
D：Double-axis

Type

Factory