



香港天宝实业有限公司

KINGMAX HOBBY Co., Limited

## 产品规格书

|                                                                                     |                    |
|-------------------------------------------------------------------------------------|--------------------|
| 产品编号:<br>ITEM NO.                                                                   | KM1026MDHV         |
| 产品名称:<br>ITEM NAME:                                                                 | Digital wing servo |
| 产品图片:<br>PRODUCT IMAGE:                                                             |                    |
|  |                    |

|                     |               |                  |              |
|---------------------|---------------|------------------|--------------|
| 制订<br>(IMPLEMENTER) | 审核<br>(CHECK) | 批准<br>(APPROVAL) | 日期<br>(DATE) |
|                     |               |                  |              |

### PROFESSIONAL SERVOS MANUFACTURER

ADD: Area 39, Wei Jian 2nd Road, Chashan Industrial, Chashan Town, Dong Guan City, Guang Dong Province, China. (zip code:523382)

TEL: 0769-86866722

FAX:0769-81192252

[Http://www.kingmaxhobby.com](http://www.kingmaxhobby.com)

Email : sales@kingmaxhobby.com

### 1. 使用環境條件

Apply Environmental Condition :

| No. | 項目                                  | 規格        |
|-----|-------------------------------------|-----------|
| 1-1 | 保存溫度<br>Storage Temperature Range   | -20℃~60℃  |
| 1-2 | 操作溫度<br>Operating Temperature Range | -10℃~50℃  |
| 1-3 | 操作電壓<br>Operating Voltage Range     | 6.0V~7.4V |

### 2. 測試環境

Standard Test Environment :

|     |                                   |                                                                                             |
|-----|-----------------------------------|---------------------------------------------------------------------------------------------|
| 2-1 | 測試環境<br>Standard Test Environment | 每一个检查必须是正常的温度和湿度进行测量，温度 $25 \pm 5^{\circ}\text{C}$ ，相对湿度 $65 \pm 10\%$ ，在按照本规范的标准测试条件下判断特征。 |
|-----|-----------------------------------|---------------------------------------------------------------------------------------------|

### 3. 外觀檢查

Appearance Inspection :

| No. | 項目                      | 規格                   |
|-----|-------------------------|----------------------|
| 3-1 | 外觀尺寸<br>Outline Drawing | 23.5*8*24            |
| 3-2 | 外觀<br>Appearance        | 无损坏，不允许影响功能          |
| 3-3 | 壽命<br>Life Time         | >50000次/负载(sub/load) |

### 4. 電氣特性

Electrical Specification (Function of the Performance) :

| No. | Item                                   | 6.0V      | 7.4V      |
|-----|----------------------------------------|-----------|-----------|
| 4-1 | 空載轉速<br>Operating speed (at no load)   | 0.09S/60° | 0.07S/60° |
| 4-2 | 空載最大電流<br>Running current (at no load) | 180mA     | 200mA     |
| 4-3 | 堵轉扭力<br>Stall torque (at locked)       | 2.00kg.cm | 2.60kg.cm |
| 4-4 | 堵轉最大電流<br>Stall current (at locked)    | 0.8A      | 1.0A      |
| 4-5 | 待機電流<br>Idle current (at stopped)      | 10mA      | 10mA      |

注：項目 4-2 定义平均值时，伺服器无负荷运行

|                     |                         |         |           |
|---------------------|-------------------------|---------|-----------|
| Product Name<br>伺服器 | Model No.<br>KM1026MDHV | Version | Page<br>1 |
|---------------------|-------------------------|---------|-----------|

## 5. 機械特性

Mechanical Specification :

| No.  | 項目                            | 規格                |
|------|-------------------------------|-------------------|
| 5-1  | 外觀尺寸<br>Overall Dimensions    | 23.5*8*24mm       |
| 5-2  | 機構極限角度<br>Limit angle         | 360°              |
| 5-3  | 重量<br>Weight                  | 9.4±1g            |
| 5-4  | 導線規格<br>Connector wire gauge  | #32 AWG           |
| 5-5  | 導線長度<br>Connector wire length | 150 ±5 mm         |
| 5-6  | 花鍵<br>Spline                  | 独有(非标准)/Exclusive |
| 5-7  | 舵片種類<br>Horn type             | 十字，一字，半一字，        |
| 5-8  | 減速比<br>Reduction ratio        |                   |
| 5-9  | 馬達類型<br>Motor                 | 铁芯/DC             |
| 5-10 | 角度傳感器<br>Angle sensor         | 电位器/Potentiometer |
| 5-11 | 軸承<br>Bearing                 | 2BB               |
| 5-12 | 齒輪材料<br>Gear                  | 金属/Metal          |
| 5-13 | 外殼材料<br>Case                  | 塑膠/Plastic        |
| 5-14 | 防水<br>Waterproof              | No                |
| 5-15 | 電源正極<br>Positive pole         | 红色/Red            |
| 5-16 | 電源負極<br>Negative electrode    | 黑色/Black          |
| 5-17 | 信號線<br>Signal                 | 白色/White          |

Product Name

伺服器

Model No

KM1026MDHV

Version

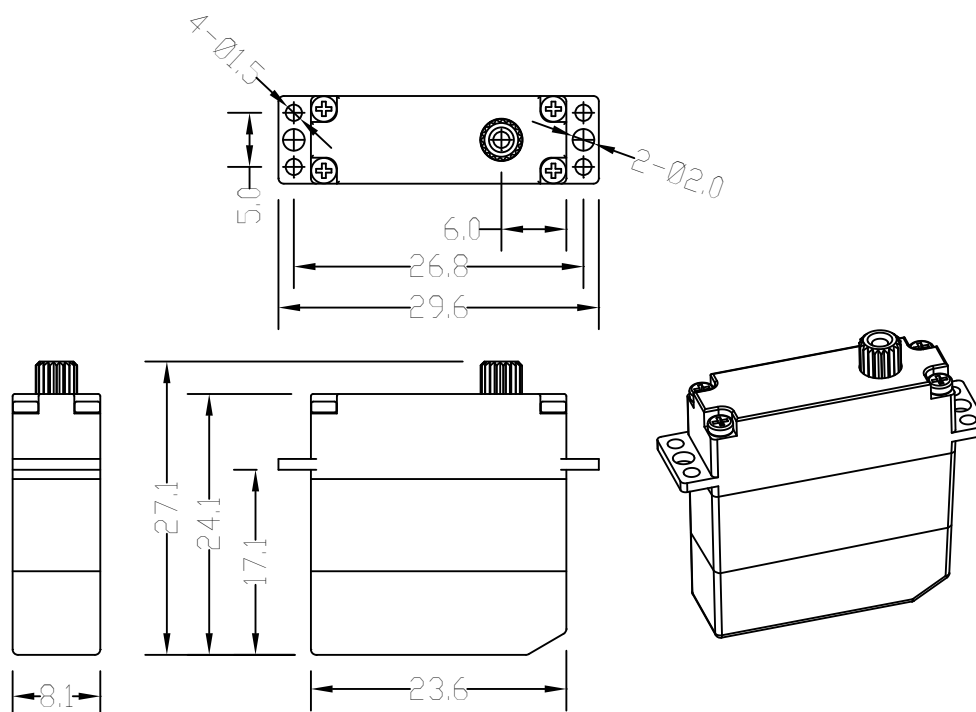
Page

2

## 6. 控制特性

Control Specification :

| No. | 项目                          | 规格                             |
|-----|-----------------------------|--------------------------------|
| 6-1 | 控制系统<br>Control system      | 改变脉冲宽度                         |
| 6-2 | 放大器種類<br>Amplifier type     | 数字控制器                          |
| 6-3 | 操作角度<br>Operating travel    | 90° (在1000→2000 $\mu$ sec)     |
| 6-4 | 中立位置<br>Neutral position    | 1500 $\mu$ sec                 |
| 6-5 | 脈波訊號虛位<br>Dead band width   | 2 $\mu$ sec                    |
| 6-6 | 旋轉方向<br>Rotating direction  | 逆时针 (在1500→2000 $\mu$ sec)     |
| 6-7 | 脈波寬度範圍<br>Pulse width range | 800→2200 $\mu$ sec             |
| 6-8 | 可作動角度範圍<br>Maximum travel   | 大约 150° (在 800→2200 $\mu$ sec) |



Product Name

伺服器

Model No.

KM1026MDHV

Version

Page

3