

# HV Ultra Nano Digital Coreless Servo

## Particular Specification 詳細規格

Item Number	BMS-101HV
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### 1. Electrical Specification (Function Of The Performance) 電氣特性

1-1	Torque @ 6.0V	0.9 kg-cm / 12.5 oz-in
1-2	Torque @ 7.4V	1.1 kg-cm / 15.3 oz-in
1-3	Speed @ 6.0V	0.08 sec / 60°
1-4	Speed @ 7.4V	0.06 sec / 60°
1-5	Idle Current	2 mAh @ 6.0V~7.4V Stopped

### 2. Apply Environmental Condition 使用環境條件

2-1	Operating Voltage Range	6.0V ~ 8.5V ( 5 ~ 6 Cell Ni-MH or 2S Li-Poly / 2S Li-Fe )
2-2	Operating Temperature Range	-20°C ~ +60°C ( -4°F ~ +140°F )
2-3	Application / Suitable	3D EP Aircraft, DLG / HLG / F3K / F3P.

### 3. Control Specification 控制特性

3-1	Control System	Digital Controller 12-Bits ( 4096 Steps ) / Frequency : 333Hz / Neutral : 1520us
3-2	Dead Bend Width	0.002ms (2us)
3-3	Frame Rate (Signal repeat rate)	3ms (Maximum) [ e.g., Futaba-4PX / Sanwa-M12 ]
3-4	Rotating Direction	Clockwise / Pulse Traveling 1500 ~ 1900u sec
3-5	Operating Travel	90° ( When 1100 ~ 1900 μ sec )

### 4. Mechanical Specification 機械特性

4-1	Ball Bearing	N/A
4-2	Type Gears	All Precision Metal Gears
4-3	Motor Type	Metal-Brush Coreless Motor
4-4	Horn / Gear Spline	19 Teeth
4-5	Connected Cable Length	150 mm ( 5.9 in )
4-6	Connected Housing	Universal Connector ( J-Type )

### 5. Outline Drawing 外觀尺寸

5-1	Dimension (mm)	18.6 x 7.6 x 15.7 mm / 0.73 x 0.3 x 0.62 in
5-2	Weight (gram)	4.4 grams / 0.15 oz

5-3

Product Picture / Dimension

Operating Pulse Traveling

900us 1500us 2100us

60° 0° 60°

Connected Wire

Red (+Positive)  
Orange (JL Signal)  
Brown (-Negative)

26.6  
22.6  
7.6  
2.0  
15.7  
11.95  
18.6  
18.6  
11.95  
15.7