

## TEST REPORT

### 1. Applicant

Name : SHIN WOO TECH CO., LTD.  
Address : 90-43. Ilshin-Dong, Bupyoung-Gu, Inchon  
Korea

### 2. Products

Name : PAN/TILT DRIVER  
Model/Type : SPT-7060  
Manufacturer : SHIN WOO TECH CO., LTD.  
Remark : -

3. Test Standard/Method : IEC 60529:2001, KS C IEC 60529:2002

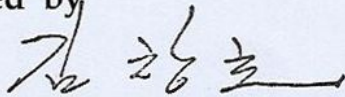
4. Test Results : IP66 (Refer to document)

5. Use of Report : For Quality Control.

6. Date of Application : 2009. 11. 19

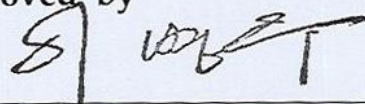
7. Date of Issue : 2009. 11. 26

Tested by



Machinery Components Center  
Chang-ho Kim

Approved by



Machinery Components Center  
Leader Byung-woo Lee

*The above test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.*

## Korea Testing Laboratory

## TEST RESULTS

for Degree of protection provided by enclosures(IP Code)

### 1. Test Results

Code letters	IP	Test method and Record	Results
<b>1st</b> Characteristic numerals  Against ingress of solid foreign objects	<b>6</b>	1. CONDITIONS 1.1 Talcum powder(mesh) : <b>Wire diameter=50 <math>\mu</math>m, width between wires=75 <math>\mu</math>m</b> 1.2 Amount of talcum powder of the test chamber : <b>2kg/m<sup>3</sup></b> 2. TEST 2.1 Volume of the enclosures : <b>about 3,200 cm<sup>3</sup></b> 2.2 Reduction air pressure : <b>-0.47 kPa (-47 mmH<sub>2</sub>O)</b> 2.3 Flow rate : <b>3.2 LPM</b> 2.4 Extraction rate per hour : <b>60 volumes/h</b> 2.5 Test duration : <b>2 hours</b>	<b>Pass</b>
<b>2nd</b> Characteristic numerals  Against ingress of water with harmful effects	<b>6</b>	1. CONDITIONS 1.1 Internal diameter of the nozzle : <b>12.5 mm</b> 1.2 Delivery rate : <b>100 LPM<math>\pm</math>5%</b> 1.3 Core of the substantial stream : <b>Circle of 120 mm diameter at 2.5 m distance from the nozzle</b> 1.4 Distance from nozzle to enclosure surface : <b>Between 2.5 m &amp; 3 m</b> 2. TEST 2.1 The duration of the test is : <b>3 min</b>	<b>Pass</b>

### 2. Reference Data

- (1) Test conditions : 15~35  $^{\circ}$ C, 25~75 %RH, 86~106 kPa
- (2) Size : L361 mm $\times$ H280 mm $\times$ W213 mm
- (3) Rating : DC 24V (Max 4A), PAN : 30W, TILT : 30W