# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



### Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





## DF15MG Tilt/Pan Kit (15kg) SKU:FIT0046



#### **INTRODUCTION**

This is a 2DOF Pan and Tilt Kit assembly for horizontal surface mount. It equipped with a DF15MG servo which offers 15 kg high-torque, it can carry a much heavier Camer or tools compared with other Pan/Tilt kit. It is great to facilitate the installation of cameras, video surveillance. It can also be used to install infrared sensors or ultrasonic distance measuring sensors or the combinationd for combo detection devices, so that the robot can sense the surrounding obstacles, enabling the robot obstacle avoidance capabilities. Of course, a variety of sensors can be installed through the Arduino controller to complete a variety of new interactive works.

#### **SPECIFICATION**

- Voltage: +4.8 ~ 7.2V
- Current: 180mA (4.8V); 220mA (6V)
- Horizontal rotation: about 150 degrees
- Vertical rotation angle: 150 degrees
- Operating temperature: 0 °C -60 °C
- No load speed: 0.17 sec / 60 degrees (4.8V); 0.25 sec / 60 degrees (6.0V)
- Torque Size: 10Kg · cm (4.8V) 12KG · cm (6V) 15KG · cm (7.2V)
- Dead Set: 10us
- Servo line order: Brown Line power negative, red is power, the yellow line control signal
- Size: 80X60X60mm (3.1x2.4x2.4 in)
- Weight: 180g

#### DOCUMENTS

• Assembly guide http://image.dfrobot.com/image/data/FIT0045/Pan-tilt--assembly-guide-v0.1.rar

#### SHIPPING LIST

- DF15MG Standard Servo x2
- Aluminum multifunction x1
- Aluminum U-shape bracket x1
- Bearing cup x1
- High-quality sets of screw nuts x1