

Pan Tilt Mount Parts List



Pan Tilt Mount Page 1 of 2



| Nema 17 42 x 42 x 40mm Stepper Motor 2 A4988 Stepper Motor Driver 2 Arduino Nano 1 | |
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| Arduino Nano 1 | |
| | |
| | |
| JDY-31 Bluetooth Module (Alternatively HC-05, HC-06 or JDY-30) | |
| A3144 Hall Effect Sensor 2 | |
| 6.4mm diameter x 1.7mm Neodymium Magnets 2 | |
| 3.2mm diameter x 1.7mm Neodymium Magnets 2 | |
| WS2812B Addressable RGB LED 1 | |
| 2N3904 NPN Transistor 1 | |
| 330Ω Resistor 1 | |
| 470Ω Resistor | |
| 15kΩ Resistor 1 | |
| 22kΩ Resistor 1 | |
| 33kΩ Resistor 2 | |
| 100µF Electrolytic Capacitor 3 | |
| 2 Pin Plug-In Screw Terminal Block Connector 5.08mm Pitch (for power) 1 | |
| 6 Pin Female Header Connector 2.54mm (for Bluetooth module) 1 | |
| 15 Pin Female Header Connector 2.54mm (for Arduino Nano) 2 | |
| 15 Pin Male Header Connector 2.54mm (for Arduino Nano) 2 | |
| 8 Pin Female Header Connector 2.54mm (for Stepper drivers) 4 | |
| 8 Pin Male Header Connector 2.54mm (for Stepper drivers) 4 | |
| XH2.54 3 Pin Terminal Socket Header (for Hall Effect and WS2812B LED) 3 | |
| XH2.54 3 Pin Terminal Socket Plug (for Hall Effect and WS2812B LED) 3 | |
| XH2.54 2 Pin Terminal Socket Header (for camera shutter trigger) 1 | |
| XH2.54 2 Pin Terminal Socket Plug (for camera shutter trigger) 1 | |
| 2.5mm 3 pole Jack Male (for camera trigger) 1 | |
| 11.1V 3S LiPo Battery or 12V DC Power Source and connector to screw terminal | |
| Pan Tilt Mount PCB 1 | |
| Solder Wire | |
| Cyanoacrylate or Hot Glue (for magnets and Hall Effect sensor) | |
| Wire (for Stepper motors, Hall sensors, WS2812B LED, Bluetooth module) | |
| M3 Hexagonal Nyloc Nut 9 | |
| M3 Square Nut 8 | |
| M3 Button Head Hex Bolt 16mm 6 | |
| M3 Button Head Hex Bolt 12mm 13 | |
| M3 Button Head Hex Bolt 6mm 5 | |
| M3 Button Head Hex Bolt 3.5mm 1 | |
| Camera Mounting Bolt 1 | |
| 8 x 22 x 7 ABEC-5 Bearing 2 | |
| 127 x 146.05 x 12.7mm INA CSXU050-2RS Bearing 1 | |
| Or 3D printable bearing parts 1-3 and 28 x 6mm balls (BB pellets) | |
| 21 Tooth Herringbone Gear 1 | |
| 64 Tooth Herringbone Gear 1 | |
| 17 Tooth Herringbone Gear 1 | |
| 144 Tooth Herringbone Gear Base Mount 1 | |
| Tilt U-Mount 1 | |
| Idle Side Bearing Mount 1 | |
| Gear Side Bearing Mount 1 | |
| Idle Side Support 1 | |
| Gear Side Support 1 | |
| Pan Mount 1 | |
| Pan Mount Bearing Clamp 1 | |
| Base Mount Bearing Clip Ring 1 | |
| Hall Effect Stepper Mount 1 | |

Pan Tilt Mount Page 2 of 2