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| Product name and model | Camera, shrapnel, closed-loop, accurate, fast auto focus motor |
| Main technical performance index of the product | Features: Closed Loop closed loop autofocus  Suitable pixel: 16M/12M |
| Compared with the old products, what are the improvements  (structure, material, technology, process, performance, use function) | The new product has the following improvements:   |  |  |  |  | | --- | --- | --- | --- | |  | Old products | New product | Utility | | Structure | Open Loop | Hall sensor Can feedback position, form closed loop, focus more accurate | With small gesture, PDAF and other control software, the focusing effect can be achieved Dual camera | | Design Technique | Fixed magnet and movable coil | In addition to the fixed magnet and the active coil, the design and Simulation of the magnet and the hall are also needed. In addition, the design analysis of resonance suppression is also necessary | Closed-loop control can be performed without generating vibration problems | | Technology | Base and Yoke are fixed with glue | Base and Yoke use electric welding fixation | Increasing bonding strength and mass production | | Performance | Postural difference≦50um | Postural difference≦8um | The module is easy to control and adjust | | Use function | Open-Loop Poor focus accuracy | Close-Loop The coke has good accuracy and fast reaction speed | PDAF With the control software, the focusing effect can be achieved Dual camera | |