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| Product name and model | Ball type precise fast automatic focusing motor |
| Main technical performance index of the product | Function: Auto Focus  Suitable pixel: 13M |
| Compared with the old products, what are the improvements  (structure, material, technology, process, performance, use function) | With the increasing demand for fast AF, autofocus motors, power loss, and precision focus, the new camera bidirectional autofocus motor has the following improvements:   |  |  |  |  | | --- | --- | --- | --- | |  | Old products | New product | Utility | | structure | General metal case  Spring suspension lens carrier | Nonmagnetic metal shell  Ball bearing lens carrier | Moving magnetic design provides lens position sensing signals | | Design Technique | Open loop unidirectional current controlled driving lens | Loop control, with position sensing, bi-directional current drive lens | The lens position feedback signal is used to control and locate the lens in real time | | Technology | Conventional motors are stacked on an optical axis | Laterally nested assembly  Ball holding guide lens carrier  No traditional shrapnel | The speed of focusing is fast, the focus is accurate, and the video image can be provided by static shooting or video recording | | Performance | The position of traditional shrapnel motor varies with different postures (attitude difference 50~60um)  Focus speed is normal (~100ms) | The camera position is controlled by closed loop, almost no sale using the influence of the attitude change (attitude difference = 8um)  Focus speed is fast (≤30ms) | The speed of focusing is fast, the focus is accurate, and the video image can be provided by static shooting or video recording | |