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| Product name and model | Ball type precise fast automatic focusing motor |
| Main technical performance index of the product | Function: Auto FocusSuitable 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:

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|  | Old products | New product | Utility |
| structure | General metal caseSpring suspension lens carrier | Nonmagnetic metal shellBall 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 assemblyBall holding guide lens carrierNo 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 |

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