



Intelligent Cleaning System

Clear View · Anywhere · Any weather

Intelligent Cleaning System

Using precisely controlled microscopic ultrasonic vibrations to resonate the camera lens, this technology effectively removes contaminants such as water, fog, snow, frost, and dust, maintaining clear and high-quality imaging.

INTERNATIONAL PATENT PROTECTION



Fast and Timely Cleaning Solution

Traditional manual cleaning methods are not only time-consuming but may also damage the lens or cause other issues. In contrast, the Intelligent Cleaning System offers a faster and more timely cleaning solution, enhancing the overall user experience.



WHAT CAN BE CLEANED



Droplets



Fine mist



Frost



Light Dust

ON

With ICS

OFF

Without ICS



Meeting Diverse Application Needs

With the growing use of surveillance cameras, automotive cameras, dashcams for two-wheel vehicles, drones, and radar systems, the demand for lens cleaning in various environments has become increasingly critical. The Intelligent Cleaning System was developed to address and fulfill the needs of these diverse applications.

Target Applications of the Intelligent Cleaning System :



Commercial Vehicles



Autonomous ADAS



Bike



Motorcycle



Outdoor Surveillance Camera



Drone Camera



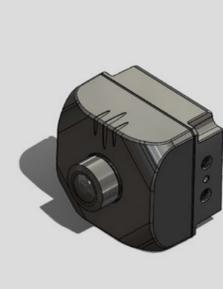
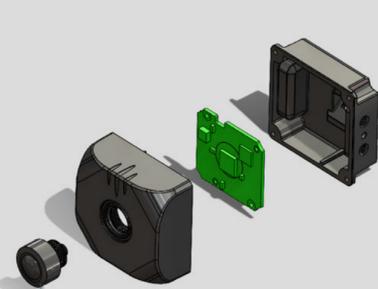
LIDAR



Smart City

Technology and Advantages

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ICS technology seamlessly integrated with standard camera modules



Automatic Self-Cleaning



Flexible, Customized Cleaning Modes



Reduced Maintenance Frequency



Improved De-Icing Efficiency



H.P.B. OPTOELECTRONICS CO., LTD.