

Ultrasonic Cleaning Lens Unit [Under Development products]

Ultrasonic Cleaning Lens Unit for Automotive is compact lens unit that can atomize water droplets on the lens surface by ultrasonically vibrating the lens on the outermost side.

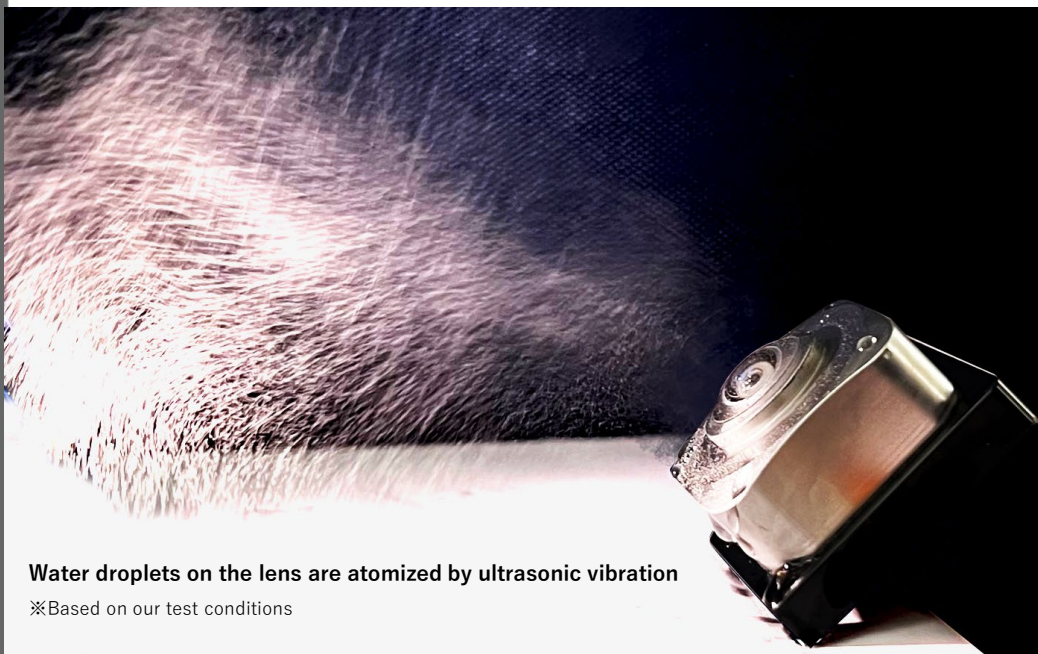
It is also possible to melt snow on the lens by changing the ultrasonic band. It can be performed with one device from raindrop atomization to snow melting that on to the lens.

Cleaning Lens Unit for Automotive

This lens unit is equipped with an ultrasonic cleaning function. It doesn't require any optional parts. The appearance is same as standard lens unit. Since clear visibility can be secured regardless of weather, we will contribute to the clear visibility of the camera module, contribute to the social implementation of ADAS/AD in the new era, and aim to realize a comfortable mobility society.

Features

- This lens unit can be used for raindrops, ice, snow, cloudiness, etc.
- Multiple units can be mounted with low power consumption
- The raindrop removal time is faster than that without the cleaning unit.

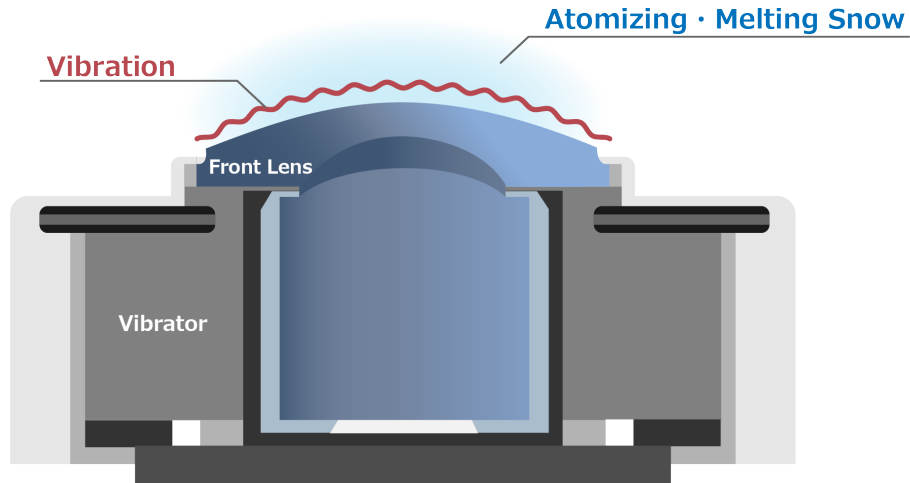


Water droplets on the lens are atomized by ultrasonic vibration

※Based on our test conditions

Image of ultrasonic cleaning lens unit

Ultrasonic vibration of the front lens makes it possible to atomize raindrops and melt snow



Raindrop removal mode *Based on to our test conditions

Images taken from Ultrasonic Cleaning Lens Unit mounted camera module.



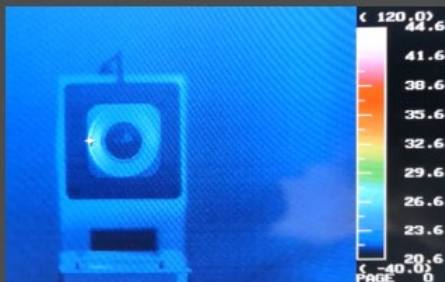
Normal



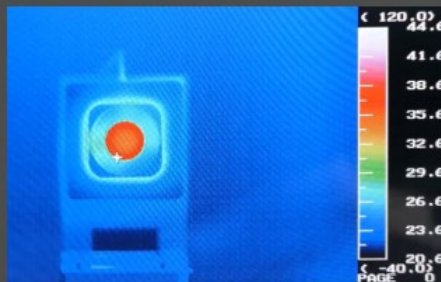
During operation

Snow melting mode *Based on to our test conditions

Change in Heat Generation by Ultrasonic Vibration (at Snow Melting Mode Switching)



Normal



Heat generation



Contact Us

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Within, the Future

https://www.frontier.maxell.co.jp/optical/index_en.html

