

Welcome!

Texas Instruments New Product Update

- This webinar will be recorded and available at www.ti.com/npu
- Phone lines are muted
- Please post questions in the chat or contact your TI sales contact or field applications engineer

ULTRASONIC LENS CLEANING FOR SELF-CLEANING CAMERAS

New Product
Update

Avi Yashar
- Product Marketing Engineer



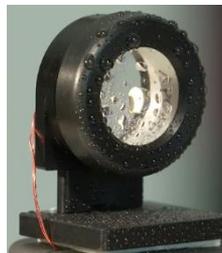
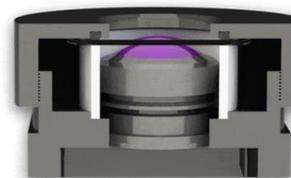
Agenda

- What is ultrasonic lens cleaning (ULC)?
- What does a typical ULC system look like?
- Resources to get started

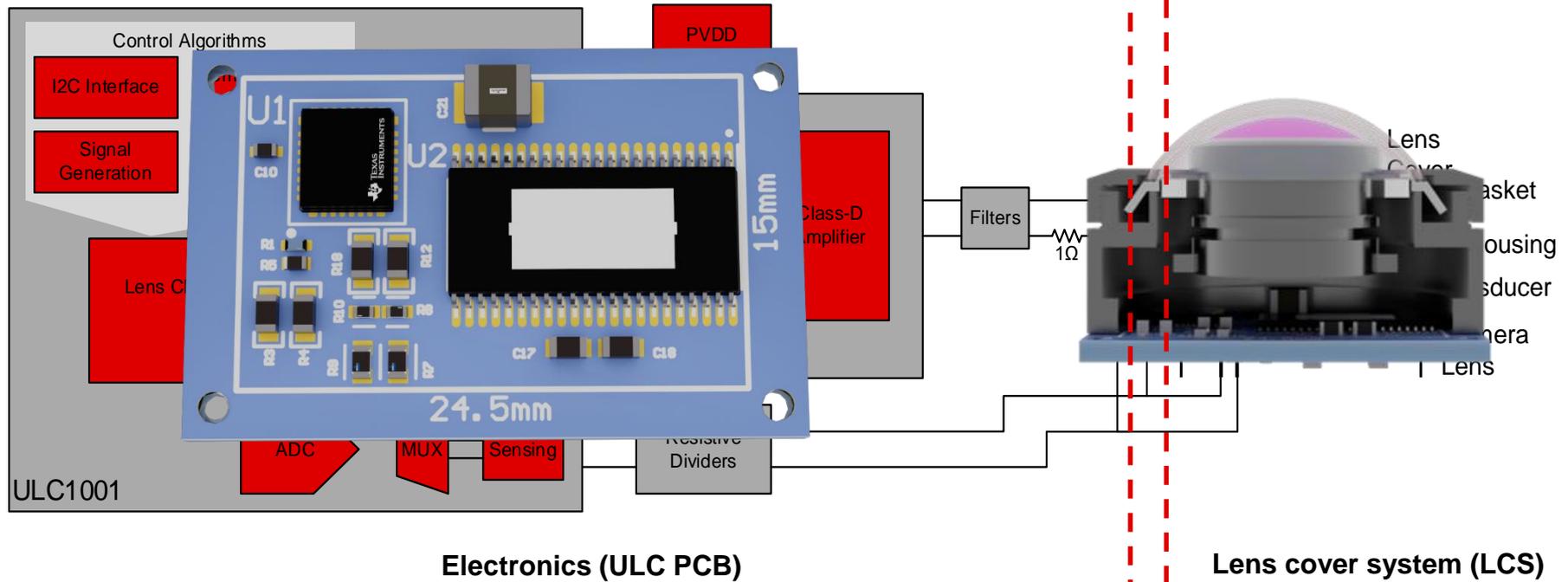
Please feel free to “chat” **Kelly Griffin**, systems engineer, who is available to answer any questions you have throughout this presentation.

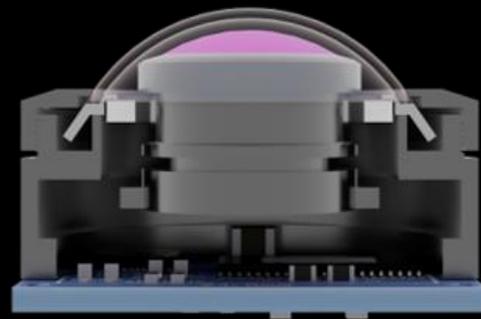
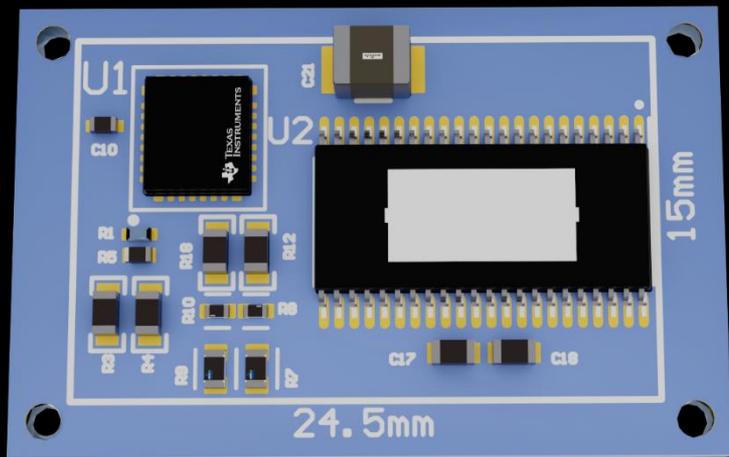
What is ultrasonic lens cleaning (ULC)?

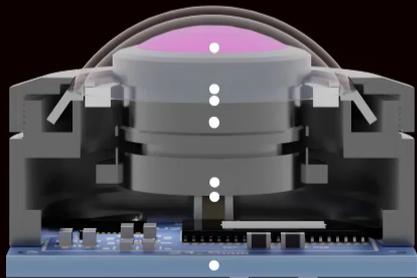
- ULC uses piezo transducers to resonate glass or other lens materials and clear contaminants on the surface
- ULC can be adopted to various lens shapes and apertures sizes
- ULC can clear water, ice, dust and mud



What does a typical ULC system look like?







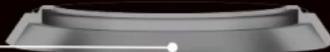
Housing Cap



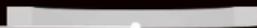
Lens Cover



Metal bracket



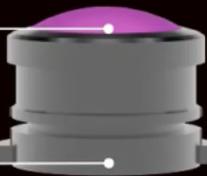
Piezo transducer



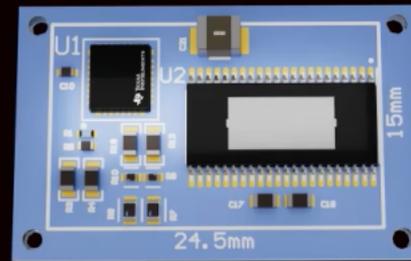
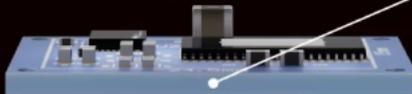
Housing base



Front camera lens element



Camera module



ULC PCB

Getting started – TI.com/ULC

You can start evaluating this device leveraging the following:

Content type	Content title	Link to content or more details
Portfolio Overview	Ultrasonic cleaning ICs	https://www.ti.com/ULC
Product Folder	ULC1001	https://www.ti.com/product/ULC1001
Video Overview	Ultrasonic lens cleaning for self-cleaning cameras	https://training.ti.com/ultrasonic-lens-cleaning-self-cleaning-cameras
CES Video Interview	CES 2023 ULC interview with demos	https://training.ti.com/ulc-ces-2023
Intro Technical Article	What is ultrasonic lens cleaning technology?	https://e2e.ti.com/blogs_/b/analogwire/posts/ulc
Detailed Technical Article	Ultrasonic lens cleaning: A solid-state technology you didn't know you needed	https://e2e.ti.com/blogs_/b/analogwire/posts/ultrasonic-lens-cleaning-a-solid-state-technology-you-didn-t-know-you-needed
My Secure Resources	Request link for full datasheet, EVM, LCS design guide, and more resources	https://www.ti.com/product/ULC1001

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