

Healthcare

Delivering outstanding eyecare with AI

Shamir Optical Industry Ltd.

Shamir Optical Industry partnered with the Lenovo OEM solution team to ship its innovative Spark™ 4W software on Lenovo ThinkStation P360 Tiny workstations—empowering optometrists around the world to take accurate patient eyewear measurements in seconds.



Lenovo

1

Who is Shamir Optical Industry?

Founded in 1972 in Kibbutz Shamir, Israel, Shamir Optical Industry Ltd. is a world-leading producer of high-performance lenses. For decades, Shamir has been at the forefront of the optics industry, developing solutions to help optometrists deliver high-quality patient experiences.



2

The Challenge

Zohar Katzman, CTO at Shamir, takes up the story: “One of our key products is Spark™—a solution that uses multiple high-resolution cameras to take images of the patient’s face. By identifying 192 unique facial landmarks, Spark™ provides patients with a touch-free experience which preserves their personal space while providing a highly professional examination.”

Katzman continues: “As well as accurately filling the patient’s prescription, eyecare providers can optimize vision correction and, through As-Worn POV™ technology, ensure the lens delivers optimal vision in the chosen frame. Its accuracy ensures that lenses are precisely fitted to each individual patient, minimizing non-adaptation and vision correction.”

In the past, Spark™ was primarily a hardware-based solution, which required integration with each customer’s own computer system. While effective, this approach had the potential to introduce compatibility issues because of the diverse nature of customers’ computer systems. As it prepared for the release of the latest version of the solution—Spark™ 4W—the company saw an opportunity to enhance reliability and performance by offering the software in a pre-integrated hardware appliance.



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“In the past, customers would deploy Spark™ software on their own PCs, which sometimes caused hardware compatibility issues. To ensure optimal performance for the advanced AI capabilities of Spark™ 4W, we looked to standardize on a cost-effective, high-performance hardware platform.”

Zohar Katzman

CTO, Shamir Optical Industry Ltd.

High performance in a compact footprint

To bring Spark™ 4W to market as an IT appliance, Shamir approached the Lenovo OEM solution team to discuss its main objectives before selecting the Lenovo ThinkStation P360 Tiny workstation—an ultra-compact 1-liter system powered by 12th Gen Intel Core processors and NVIDIA T400 GPU acceleration.

“The Lenovo OEM team worked closely with us to understand our requirements for Spark™ 4W, and we were very impressed with the hardware solution they proposed,” says Katzman. “After a thorough proof-of-concept, we determined that the Lenovo ThinkStation P360 Tiny workstation was the perfect fit: it offers robust performance in a small, energy-efficient footprint.”

Hardware

Lenovo ThinkStation P360
Tiny workstation

Services

Lenovo 3 Year
Onsite Warranty

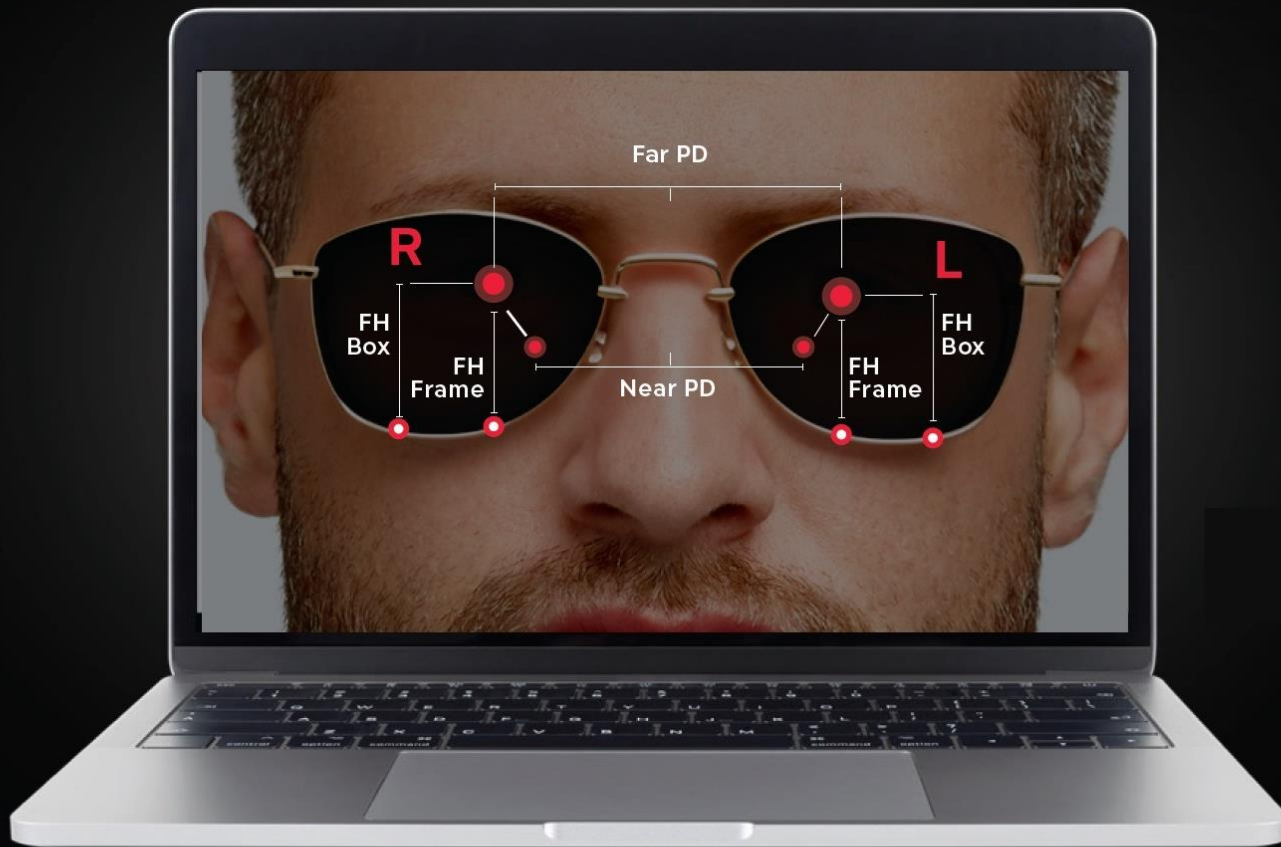
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Results

Through its OEM partnership with Lenovo, Shamir is making hardware compatibility issues a thing of the past.

“Today, our customers don’t even have to think about hardware compatibility,” confirms Katzman. “With our Spark™ 4W software running on Lenovo ThinkStation P360 Tiny workstations, we offer true zero-touch deployments—empowering our customers to focus on delivering outstanding experiences to their patients.”

- ✓ Compact 1-liter footprint
- ✓ High performance for AI software
- ✓ Excellent reliability



“We are shipping Spark™ 4W solutions to customers around the world. Thanks to Lenovo, we are assured that our customers receive a high-quality product accompanied by exceptional support, providing peace of mind in every aspect of our service.”

Zohar Katzman

CTO, Shamir Optical Industry Ltd.

Why **Lenovo**?

Combining excellent CPU and GPU performance in a compact footprint, Lenovo ThinkStation P360 Tiny workstations will enable Shamir to offer long-term stability and performance for Spark™ 4W users.

“At the moment, we are working with a local integrator to load our software onto the Lenovo hardware before we ship to customers, but in the future Lenovo will perform this work directly at the point of manufacture,” says Katzman.

“Without a doubt, we see Lenovo as a long-term OEM partner, and we’re looking forward to building on what we’ve achieved. For example, we’re already exploring future opportunities, such as building an eyewear advertising solution on Lenovo Store Smart Displays.”



How can healthcare companies accelerate AI innovation?

Working with Lenovo, Shamir enables high performance and reliability for a cutting-edge optometry solution.

[Explore Lenovo ThinkStation P360 Tiny](#)