

Purpose of publication

This publication is being created to widely introduce the achievements of research and development activities conducted by Nikon Corporation. This is a result of R&D based on Nikon's core technologies of "opto-electronics" and "precision" technologies that have been incorporated in new products and/or often valued by external organizations such as academic societies.

Foreword



Representative Director
President

Toshikazu Umatate

Due to the ongoing COVID-19 pandemic as well as the instability of international affairs, we are facing a variety of challenges. Even in such a situation, we hope to support our customers in creating innovation by understanding the essence of what they want and finding solutions together.

In April 2022, we announced our Medium-Term Management Plan which further aims towards “Trustworthiness and Creativity.” We set our Vision 2030 to become “a key technology solutions company in a global society where humans and machines co-create seamlessly.” To achieve this, not only by means of our main businesses in imaging and precision equipment, but also through our strategic businesses in healthcare, components, and digital manufacturing, Nikon will deliver to our customers products and services optimized to meet their needs. We have defined two fields of value proposition for these businesses. “Industry,” which expands possibilities for people via advanced manufacturing, and “Quality of Life,” which makes lives better through advanced medical care and entertainment.

This report shares some of Nikon’s technological developments such as material processing technologies that bring innovation to the world of *Monozukuri* (manufacturing) in “Industry” and AI imaging technologies that advance medical treatment for “Quality of Life.”

Executive Fellow
Division Manager
Advanced Technology
Research & Development Division

Masaaki Doi



Along with the significant ongoing global restrictions, there is an increase of uncertainties. We in technology development are required more than ever to respond flexibly and more rapidly to these situations. To provide products and services that meet the needs of our customers as quickly as possible, Nikon’s research and development teams are working on diverse ideas, to develop technologies for our main businesses and the growth drivers defined in the Medium-Term Management Plan. Especially for the growth drivers, the results of continuous technological development are gradually becoming visible as achievements.

We will share the Nikon Group’s research and development results for this year again through this report, which contains technological explanations of products released and announced in FY2021, and highly valued paper topics that were submitted and presented at various conferences during the same year, focusing on technology developments for the growth drivers. Although this covers only a small selection of the technological developments Nikon is working on, I hope that this report will help you to understand what we are engaged in and provide opportunities for Nikon’s technology to contribute to society.

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