

2026.05.12 News Release

Development of Matte Black Coating Process by Ink-Jet Printing System

We, AIMECHATEC, Ltd. (Head Office: Koyodai, Ryugasaki-shi, Ibaraki-pref. President: Isao Abe) are pleased to announce that we have developed Matte Black Coating Process by Ink-Jet Printing System. We will contribute to build up Mass Production Process for Optical Device as new proposal.

This system is effective for achieving Very Low Reflectance and High Light-Blocking Properties in High-Performance Camera Modules and Prisms installed in Smartphones and Tablets, as well as for reducing Stray Light and enhancing Contrast in AR/VR Optical Systems, while also achieving the required “Optical Density (OD) ≥ 5 ,” “Reflectance (R%) $< 0.1\%$,” & “Lightness (L*) < 1 ” in the coating process.

We newly developed and equipped our unique Thickness Control Coating Technology (Gradation) and Coating Control suppressing Edge Build-up (Coffee-Stain) as standard in addition to our Core Micro-Coating Technology. We have already received numerous requests for Coating Evaluation and started providing samples sequentially.

From now on, we will consolidate our offers into Total Solutions covering Multi-substrates Surface Modification (enhancing Wettability, Spread-ability, and Adhesion) to Coating / Curing Process, to expand our Ink-Jet Solution Business.

We will continue to contribute to the society through innovation in manufacturing processes by improving lifestyles to be more convenient and affluent, by striving “Today One Step, Tomorrow One Step.”

Your continued kind support to our company is sincerely appreciated.

New Product Information:

https://www.ai-mech.com/wp_en/newproducts/

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