

September 9, 2019

PRESS RELEASE

KOITO MANUFACTURING CO., LTD.

KOITO to Release the World's First BladeScan™ ADB
Contributes to Reduce Traffic Accidents through High-Resolution Lighting Distribution Control



KOITO MANUFACTURING CO., LTD. ("KOITO") (Head Office: Minato-ku, Tokyo; President: Hiroshi Mihara) announces that it has developed and started mass-producing "BladeScan™*1 ADB (Adaptive Driving Beam)*2," the world's first headlamp system.

To prevent traffic accidents at night, KOITO has been developing headlamp systems called "ADB," which automatically controls high-beam lighting range in response to the driving conditions. ADB ensures wide visibility for drivers while avoiding glare to oncoming vehicles or vehicles ahead. We are promoting the wide use of ADB by commercializing our currently mainstay ADB, an "Array™*3 ADB," that controls light distribution by turning on/off each LED individually.

The newly released "BladeScan™ ADB" emits LED light to 2 fast-revolving blade mirrors (reflectors) and lights forward vision by using the residual image effect. By turning on/off 12 LEDs in line with the rotation of blade mirrors, BladeScan™ ADB ensures high-resolution light distribution equivalent to the use of 300 LEDs and minimizes shading area.

The system enables to light vicinity of oncoming vehicles and vehicles ahead or an area between them, and helps driver to early detect crossing pedestrians, thus contributes to reduce traffic accidents.

"BladeScan™ ADB" is adopted by Toyota Motor Corporation's new "Lexus RX*4" model. KOITO aims to further expand the use of ADB in conjunction with an "Array™ ADB."

KOITO is committed to further pursue the cutting-edge technologies and to develop "customer-first" products in order to enhance the safety and comfort of motorization society.

*1. "BladeScan™" is a trademark or registered trademark of KOITO.

*2. ADB (Adaptive Driving Beam) is referred to as AHS (Adaptive High-beam System) in Toyota Motor Corporation.

*3. "Array™" is a trademark of KOITO.

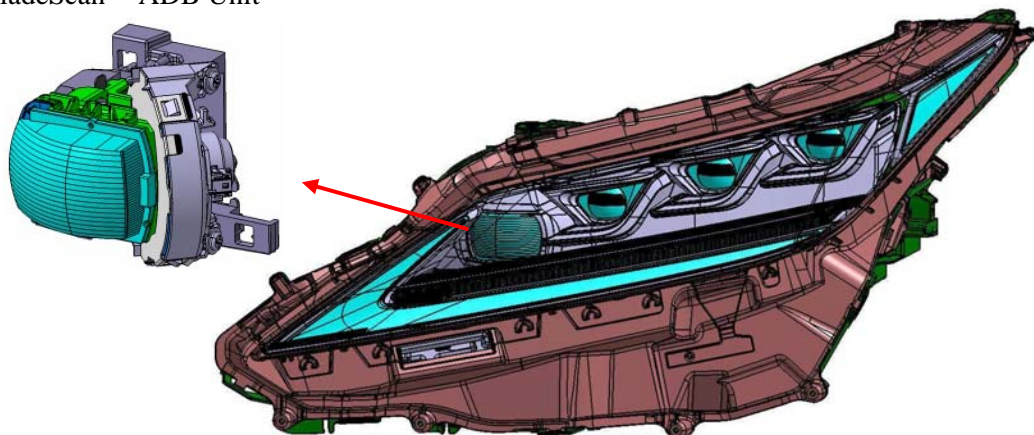
*4. Lexus RX: RX450hL, RX450h, RX300

(Reference)

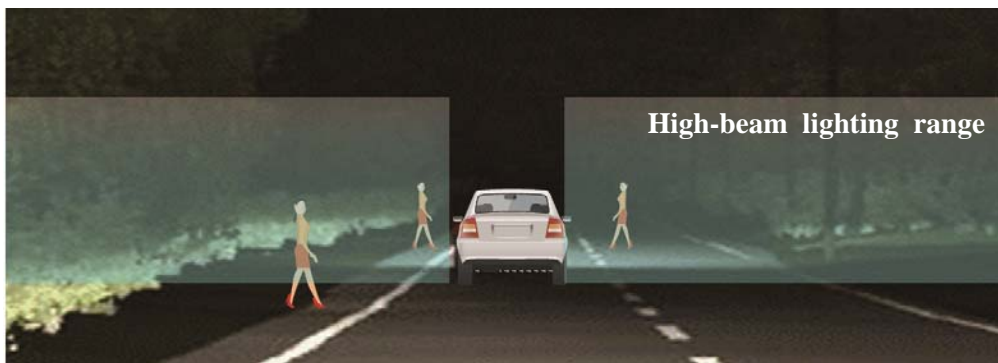
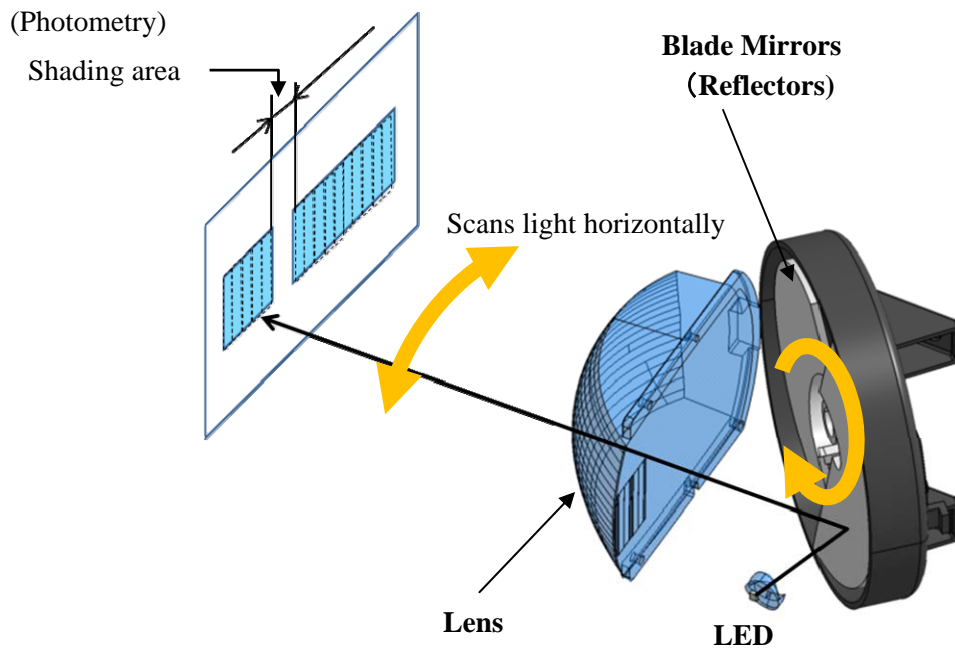
■ Toyota Motor “Lexus RX” model with BladeScan™ ADB



BladeScan™ ADB Unit



■ Outline of BladeScan™ ADB's Principle



Enables to detect further pedestrians by minimizing shading area

■ BladeScan™ ADB's Logo

KOITO set logos with 2 blade mirrors (reflectors) as motifs, which is a technical feature of BladeScan™.

