

Social Activities

Activities to Improve Safety and Security

The KOITO Group's basic management policy is to create customer needs and contribute to the progress of society, guided by the theme of "Light." Identifying "reduction of traffic accidents" as one of our materialities, the KOITO Group develops products to materialize a safe and secured automotive society under our corporate message "Lighting for Your Safety."

To further improve the performance of LED headlamps and ADBs, we are also promoting R&D activities on Advanced Driving Assistance System (ADAS), next-generation lamps and various sensors (LiDAR, cameras, etc.) which are compatible with autonomous driving.

The KOITO Group will continue to contribute to the improvement of safety and security in an automotive society through developing and supplying safe and high quality products and services through its technologies.

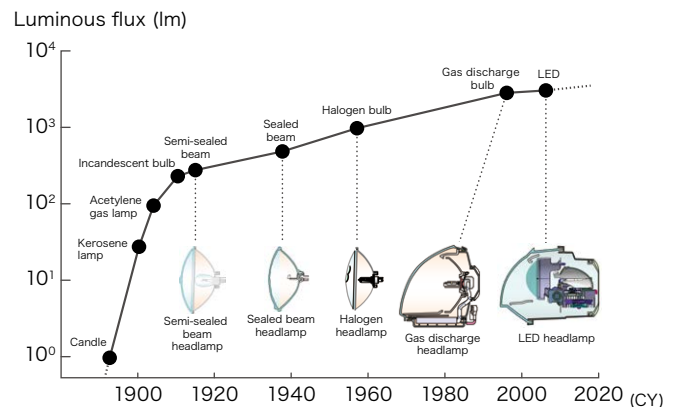
Development of Technologies and Products to Improve Safety and Security

●LED Headlamps

KOITO has been developing high-output and high-performance light sources to create headlamps that provide brighter light to greater distances for safe nighttime driving.

LED headlamps are KOITO's main products. They help drivers to gain clear night views as they are bright, turn on instantly and are close to daylight. KOITO is also developing laser headlamps to further improve distance visibility.

■Evolution of light sources

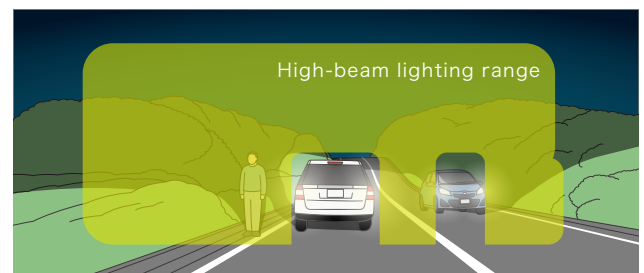


●Adaptive Driving Beam (ADB)

KOITO has developed a headlamp system called Adaptive Driving Beam (ADB) that automatically controls the light distribution pattern of the high beam and ensures wide front visibility for drivers by enabling driving with high beams all the time while preventing preceding or oncoming vehicles from glare.

In addition, KOITO is conducting R&D activities on ADB to further improve safety during nighttime driving by providing finer light distribution.

■Image of ADB photometry



Please refer to the special feature on P30 of this report.

Verification of Blind Spot Information Provision System in the Autonomous Driving Bus Demonstration Experiment

The KOITO Group is promoting R&D activities on next-generation products such as smart traffic lights and street lights equipped with sensors (LiDAR, cameras, etc.) which are required to monitor the surroundings in the future autonomous driving society.

Collaborating with KOITO ELECTRIC INDUSTRIES, a subsidiary manufactures and sells signaling systems and other transportation infrastructures, KOITO participated in a demonstration experiment conducted in Hitachi City, Ibaraki Prefecture using medium-sized autonomous driving bus from November 2020 to March 2021.

By installing roadside sensors at intersections with poor visibility, we have verified the effectiveness of a blind spot information provision system that detects and identifies vehicles, bicycles, pedestrians, and other objects in blind spots that cannot be detected by sensors on autonomous driving bus, and sharing information with the vehicle.

■Image of a blind spot information provision system

