



OV2775 ARDS product brief



available in
a lead-free
package

OmniVision's New Automotive Reference Design System (ARDS) for Optimized Automotive Imaging System Development

With OmniVision's Reference Design System, Automotive Customers Can Create User-Friendly Demo Kits for Faster Time-to-Market

Omnivision's automotive reference design system (ARDS) provides automotive imaging-system and software developers a plug-and-play platform to easily design next-generation advanced driver assistance systems (ADAS). The modular approach of Omnivision's ARDS allows developers to quickly mix and match image sensors, image signal processors (ISPs) and long-distance serializer modules, enabling streamlined system development and accelerated time-to-market.

With its compact form factor, Omnivision's ARDS is ideally suited for a wide range of ADAS applications, including rear video mirrors, camera monitor systems (CMS) and dash cameras. Omnivision's ARDS demo kit features the high-performance OV2775 image sensor, the optional OV495 image signal processor and a serializer camera module.

The OV2775 is built on 2.8-micron OmniBSI-2™ Deep Well™ pixel technology, which offers a 16-bit linear output from a single exposure with best-in-class low-light sensitivity. The sensor is capable of recording 1920 x 1080 resolution videos with a dynamic range exceeding 120 dB. Omnivision's ARDS is available in two configurations, with or without the OV495 ISP.

For more technical details on the OV2775 and OV495 please visit www.ovt.com.



OV2775



OV495

OV2775 ARDS



Ordering Information

- **OV02775-EXAE-BA0B**
2.5MP HDR RAW automotive CMOS evaluation kit, TI953+OV2775
- **OV02775-EXAE-BC0B**
2.5MP HDR RAW automotive CMOS evaluation kit, TI953+OV495+OV2775
- **OV02775-EXAE-AA0A**
2.5MP HDR RAW automotive CMOS evaluation kit, OV2775 ARDS w/o serializer

Features

- ready to use camera solution
- compact form factor
- modular interchangeable building blocks

Benefits

- faster development cycles
- fewer technical resources required
- lower development costs
- no redundant work